



**Lopez Lake and Lopez Terminal
Watershed Sanitary Survey
Five Year Update (2016-2020)**



**Prepared By:
County of San Luis Obispo
Department of Public Works
Utilities Division
Water Quality Laboratory**

Lopez Lake

Lopez Terminal Reservoir

PWSID: 4010022

March 2021

County of San Luis Obispo

Department of Public Works

Zone 3

**County of San Luis Obispo Flood Control and Water
Conservation District**

2016-2020

County of San Luis Obispo, Department of Public Works

County Government Center, Room 206

San Luis Obispo, CA 93408

SYSTEM INFORMATION


SWRCB-DDW System No.: 4010022
System Name: Lopez Project
Survey Period: January 1, 2016 through December 31, 2020

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SURVEY DESCRIPTION

Name of Watershed: Lopez Lake and Lopez Terminal Reservoir
Total Watershed Size in acres: Lopez Lake - 43,000 acres
Lopez Terminal Reservoir - 424 acres

Location (list counties in which watershed is located or attach map): San Luis Obispo

Name(s) of water treatment plant using the watershed as a source: Lopez Water Treatment Plant

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TERMS, ACRONYMS, AND ABBREVIATIONS

µg/L	micrograms per liter
µmhos/cm	micromhos per centimeter
CDPH	California Department of Public Health
CFU	Colony Forming Unit
CU	Color Unit
DBP	Disinfection Byproduct
District	County of San Luis Obispo Flood Control and Water Conservation District – Zone 3
DLR	Detection Limit for the Purposes of Reporting
DOC	Dissolved Organic Carbon
DWSAP	Drinking Water Source Assessment and Protection
HAA	Haloacetic Acid
HAB	Harmful Algae Bloom
HPC	Heterotrophic Plate Count
IEWSWTR	Interim Enhanced Surface Water Treatment Rule
L	Liter
LWTP	Lopez Water Treatment Plant
MCL	Maximum Contaminant Level
mg/L	milligrams per liter
MPN	Most Probable Number
ND	Not Detected
NTU	Nephelometric Turbidity Unit
PFAS	Per- and polyfluoroalkyl substances
PRBS	perfluorobutane sulfonic acid
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
RAA	Running Annual Average
SOC	Synthetic Organic Compound (also Synthetic Organic Chemical)
SWRCB- DDW	State Water Resources Control Board – Division of Drinking Water
TDS	Total Dissolved Solids
1,2,3-TCP	1,2,3-Trichloropropane
THM	Trihalomethane
TKN	Total Kjeldahl Nitrogen
TOC	Total Organic Carbon
TON	Threshold Odor Number
U. S. EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound (also Volatile Organic Chemical)

WATERSHED SURVEY CHECKLIST

(Changes since the last survey are highlighted in red.)

Category	Significant	Not Significant	Comments
I. GENERAL			
A. Changes in available water quantity?	X		Drought
B. Construction of water diversion or reservoir projects.		X	
C. Relocation of intakes		X	
II. CONTAMINANT SOURCES			
A. Wastewater Treatment at Lopez Lake			
1. Treatment plant effluent discharges		X	
2. Storage, transport, treatment, disposal to land		X	
3. Residential septic systems		X	
B. Reclaimed Water		X	
C. Urban Areas		X	
D. Agricultural Crop Land Use		X	
E. Pesticide/Herbicide Use		X	
F. Grazing Animals		X	
G. Concentrated Animal Facilities (feedlots, etc)		X	
H. Wild Animal Populations		X	
I. Mines			
1. Active		X	
2. Inactive		X	
J. Disposal Facilities at Lopez Lake			
1. Solid waste		X	
2. Hazardous waste		X	
K. Logging		X	
L. Recreation			
Reservoir body contact (Lake)	X		
Reservoir body contact (Terminal)		X	
M. Unauthorized Activity			
1. Illegal dumping		X	
2. Underground storage tank leaks		X	
N. Traffic Accidents/Spills			
1. Transportation corridors (Lake)		X	
Transportation corridors (Terminal)	X		No spills recorded, minor road
2. History of accidents/spills		X	
O. Groundwater Discharges			
1. Natural discharge		X	
2. Gas, oil, geothermal wells		X	
P. Seawater Intrusion		X	
Q. Geologic Hazards			
1. Landslides	X		
2. Earthquakes		X	
3. Floods		X	
R. Fires	X		
III. GROWTH			
A. Population/General Urban Area Increase		X	
B. Land Use Changes		X	
C. Industrial Use Increase		X	
IV. WATER QUALITY			
A. Changes in Raw Water Quality		X	
B. Difficulty meeting drinking water standards		X	



EXECUTIVE SUMMARY AND BACKGROUND

A watershed sanitary survey is required by the State Water Resources Control Board – Division of Drinking Water for all surface water influenced water supplies. The survey must be updated every five years, identifying existing or potential hazards to the water supply source. The original survey of the Lopez Lake and Terminal Reservoir watersheds was completed in December 1995. Updates were completed in March 2001, January 2006, March 2010, March 2015. This watershed sanitary survey update includes all sampling and field observations from 2016 through 2020. A significant upgrade to the Lopez Water Treatment Plant was completed in 2007, but no significant changes to the watershed were noted since the last survey.

The sanitary survey's objectives are as follows:

- Identify existing sources of water contamination.
- Identify potential future sources of water contamination.
- Provide a baseline of water quality and watershed condition for identification of trends in future survey updates.
- Recommend watershed management practices that will protect raw water quality of this valuable local water source and minimize the need to import water.

The Lopez Project encompasses Lopez Lake, the raw water piping from the Lopez Lake intakes to the Terminal Reservoir, the Terminal Reservoir, the Lopez Water Treatment Plant (LWTP), and the treated water distribution system. The Lopez Project is owned by the County of San Luis Obispo Flood Control and Water Conservation District – Zone 3 (District) and provides water to the City of Arroyo Grande, Grover Beach, Oceano Community Services District, Pismo Beach, County Service Area 12, and Avila Beach Community Services District.

The Lopez Lake and Terminal Reservoir watersheds continue to be sparsely populated. There are no existing or abandoned mines, no significant concentrated animal populations, and no major transportation corridors traversing the watershed.

Full body contact recreation activities at Lopez Lake have the potential to affect water quality, but no adverse effects have been noted. Lopez Lake is well patrolled daily by County staff. The Lopez Lake Recreation Area is serviced by an extended aeration sewage treatment plant which is maintained by the County General Services Department. All sludge is transported out of the watershed for final disposal. A raw sewage force main is suspended over Wittenberg Creek Arm and a treated wastewater force main delivers effluent to a land disposal area.

The Terminal Reservoir acts as a raw water impoundment providing 30 to 45 days detention time for Lopez Lake water prior to being treated at the LWTP. Runoff from a half mile



segment of Orcutt Road drains into the Terminal Reservoir, but a diversion channel encircles the remainder of the Terminal Reservoir and prevents runoff from entering the reservoir.

Security was increased at the LWTP in 2006. A “passcode” operated gate now controls access to the Terminal Reservoir and the LWTP 24 hours per day. Unrestricted public access is not allowed and all visitors are required to register at the facility office. Most of the access around the LWTP and Terminal Reservoir are enclosed with a chain-linked or barbed wire fencing. No trespassing signs are posted around the Terminal Reservoir. Similarly, the Lopez Lake Recreation Area is fenced and posted. Public access to Lopez Lake is fee based and controlled by County of San Luis Obispo Parks staff.

In May 2007, the Lopez WTP was upgraded from a conventional coagulation, sedimentation, filtration plant to a dissolved air flotation/low pressure membrane microfiltration plant. The use of chlorine dioxide, chlorine, and chloramines for disinfection was not changed.

July of 2017, a pH suppresser was added to the initial treatment of the raw water coming into the plant. As the raw water exits the terminal and enters the influent pipeline it may be treated with a mineral acid (Hydrochloric acid) to reduce the pH of the incoming water. The mineral acid will help to reduce or eliminate the amount of scaling that occurs within the plant when pH levels in the terminal reach 8.2 or higher and temperature reaches 18.0⁰ C or higher (2019 Lopez Water Treatment Plant Operations Plan).

Wastewater collection and disposal, recreational activities, landslides, earthquakes, and fire continue to represent the most significant potential sources of contamination to the Lopez Lake watershed. Runoff from, or accidents on, Orcutt Road remains the most significant potential source of contamination to Lopez Terminal Reservoir.

WATERSHED AND WATER SUPPLY DELIVERY

The “Lopez Project” is a water delivery system consisting of Lopez Lake and Lopez Terminal Reservoir, each with an outlet structure. They are interconnected by a 3-mile-long gravity line. The Terminal Reservoir supplies raw water to the Lopez Treatment Plant which delivers potable water to a 2.25-million-gallon clear water reservoir and 25 miles of distribution line. This sanitary survey update examines both the Lopez Lake watershed and the smaller Terminal Reservoir watershed.

Lopez Lake Description

The Lopez Lake watershed is comprised of 43,000 acres of land, which lies predominantly in the Los Padres National Forest. The remainder of the property which makes up the watershed is owned by the County of San Luis Obispo Flood Control and Water Conservation District – Zone 3, private campgrounds, and private landowners. All property immediately adjacent to Lopez Lake is owned by the District. The soils range from a silty clay loam on



alluvial plains to well-drained soils on hills and mountains. As shown in Appendix A1, Vasquez Creek, Lopez Creek, Wittenberg Creek Arm, Arroyo Grande Creek, and Clapboard Canyon Creek Arm feed Lopez Lake. Lopez Lake has a maximum surface area of approximately 974 acres and a storage capacity of 49,200 acre-feet. No population centers are located within the watershed. Scattered residential dwellings, horse ranches, croplands, and cattle grazing areas, are located within the watershed. Wildlife in the area consists of deer, resident and migratory birds, and various small mammals. Wild animal populations are considered to be moderate to light. No mining or logging activities are known to occur within the Lopez Lake watershed.

Watershed: Lopez Lake
 Acres: 43,000
 Lake Surface Area: 974
 Lake Storage Capacity: 49,200 acre-feet
 Weir Crest: 522.6'
 Infrastructure: Screened multi-port intake structure (seven intakes spaced 15 feet apart; Intake and outlet building; manual butterfly valves
 Pipeline: 3 miles gravity fed to Lopez Terminal reservoir
 Intake Elevations:

Level Description	Elevation, feet
Intake 1	507.6'
Intake 2	492.6'
Intake 3	477.6'
Intake 4	462.6
Intake 5	447.6
Intake 6	432.6
Intake 7	417.6
36" butterfly valve	403.6'

Turnouts

- Lopez Terminal Reservoir
- Lopez Distribution (emergency use only)

Pump Stations - None

Storage Tanks - None

Chemical Treatment - No chemical treatment is provided at any point along the transmission main.



Lopez Lake Watershed Security

Intake protection is provided by a log boom on the lake and fencing along the shore. It is located approximately 50' away from the intake pipe at all points. Fencing is installed along the lake shore adjacent to the intake, and all around the intake building. No trespassing signs are posted at frequent intervals along the fence to prohibit public access to the lake near the intake and dam.

The lake is patrolled morning and evening by County Park rangers. Potential contaminants to the reservoir include:

- Wastewater collection system
- Septic systems
- Industrial runoff
- Agriculture/cropland
- Herbicides/Pesticides
- Grazing animals
- Wild animals
- Hazardous material storage (petroleum products, wine production, water treatment, fueling stations)
- Recreational use (boating, body contact, fishing)
- Cultivation of marijuana

Lopez Terminal Reservoir

The Terminal Reservoir watershed is comprised of 424 acres immediately adjacent to Lopez Lake Water Treatment Plant which is located approximately 12 miles northeast of the City of Arroyo Grande. The topography is similar to the Lopez Lake watershed. The property which makes up the watershed is owned by the County of San Luis Obispo Flood Control and Water Conservation District and private parties. All property immediately adjacent to the Terminal Reservoir is owned by the district. There are two residences located within the Terminal Reservoir watershed, occupied by county staff and their families. There are no defined waterways within the watershed which are tributary to the Terminal Reservoir. Runoff from much of the area is diverted away from the reservoir by means of an 8 to 10-foot-wide diversion channel. The only significant inflow to Terminal Reservoir is the influent line from Lopez Lake. Orcutt Road traverses the Terminal Reservoir, essentially dividing the reservoir into two sections. Surface runoff from the watershed to the Terminal Reservoir is minimal and occurs from precipitation and minor runoff from within the non-diverted portion of approximately 23.8 acres. If not captured and removed, any spills that occur along the half-mile section of Orcutt Road have the potential to drain into Terminal Reservoir. The Reservoir has a maximum capacity of 844 acre-feet of water. Aerial photos of both watersheds are attached in Appendix A1, A2 and Figure 1.



Watershed: Lopez Terminal Reservoir
Acres: 424
Reservoir Surface Area: 37
Reservoir Storage Capacity: 844 acre-feet
Weir Crest: 328'
Infrastructure: Intake building at far end of terminal reservoir; Screened multi-port outlet structure (four intakes spaced 6 feet apart; Outlet
Pipeline: Gravity fed 36" outlet line to Lopez WTP
Intake Elevations:

Level Description	Elevation, feet
Intake 1	323'
Intake 2	317'
Intake 3	311'
Intake 4	305'

Turnouts

- Lopez Water Treatment Plant
- Lopez Release to Creek

Pump Stations - None

Storage Tanks - None

Chemical Treatment – Algaecides within terminal reservoir to aid in treatment of the facility.

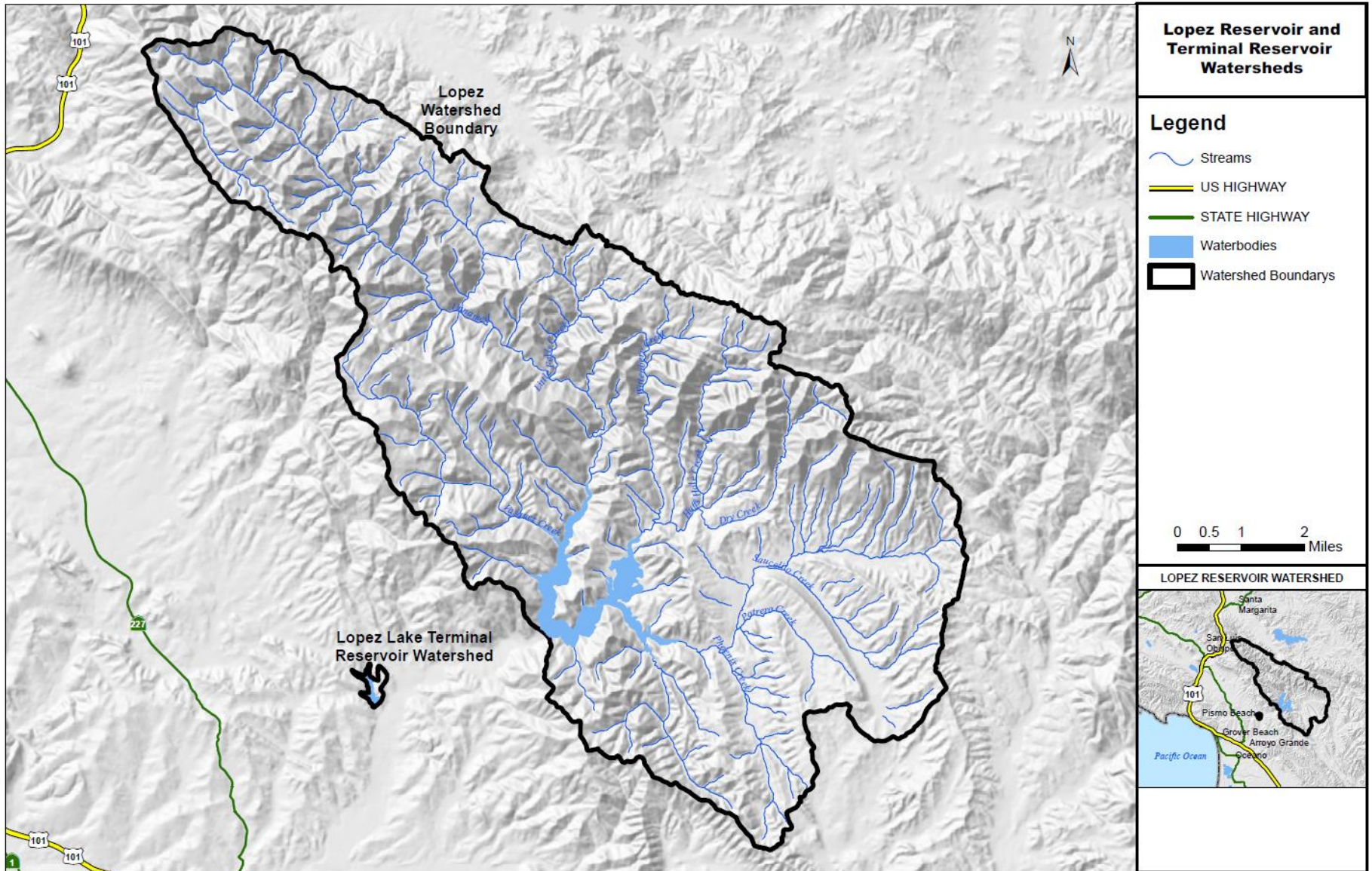


Figure 1: Lopez Lake and Terminal Watershed



Lopez Terminal Watershed Security

Access to the Terminal Reservoir and the Lopez Lake Water Treatment Plant is now controlled 24 hours per day. Entry is limited to personnel and visitors authorized by the County of San Luis Obispo. All visitors must enter through a locked, passcode controlled, security gate and sign in at the facility. The gate includes video surveillance. Additionally, the County maintains two residences on site for operations staff that provides after-hours surveillance and deters trespassing. The lake is patrolled morning and evening by County Park rangers. Potential contaminants to the reservoir include:

- Orcutt Road spill
- Wild animals

Lopez Water Treatment Plant:

Type of Source:	One Surface Water Treatment Plant. No ground water wells.
Type of Treatment Provided:	Conventional treatment utilizing pre-disinfection with chlorine dioxide, dual-media filtration, post-disinfection with chlorine, ammonia injection process for finished water chloramines.
Average Water Demand:	4.5 MGD
Maximum and Peak Water Demand:	<ul style="list-style-type: none">• 4.25 MGD (Max)• 6.0 MGD (peak)

Distribution Line:

Number of service Connections:	33 Service Connections
Population:	50,000
Interconnections:	<ul style="list-style-type: none">• State Water: Lopez Turn-out• Arroyo Grande Turn-out• Pismo Beach Turn-out• Grover Beach Turn-out• CSA-12 Master Meter• Avila Beach CSD• Flexible usage of monthly entitlements• Emergency water supply for CSA-12



PREVIOUS SANITARY SURVEY SUMMARIES AND PENDING RECOMMENDATIONS

Summary of Past Sanitary Surveys

The original watershed survey was conducted by Boyle Engineering in 1995. Boyle Engineering concluded that the location of the reservoirs helped preserve watershed water quality. The Lopez Lake watershed was considered sparsely populated. There were no records of existing or abandoned mines, no concentrated animal populations, and no major transportation corridors traversing the watershed. However, both reservoirs are susceptible to the following sources of contamination: wastewater, animal grazing, fuel storage, recreational activities, unauthorized activities, use of pesticides and herbicides, geologic formations, and hazardous materials spills.

A ramp crossing on Wittenberg Creek Arm had partially collapsed and threatened to expose and damage the sewer and water laterals located beneath the ramp. Repair was recommended and a new bridge was built in its place.

The 2006 survey reported some increase in agricultural activity in the Arroyo Grande arm of the Lopez Lake with some vineyards in this section of the reservoir.

The 2006 survey reported that the log boom around the Lopez Lake intake structure had been extended and improved to provide a buffer zone from recreational body contact. Although the distance separating the log boom from the intake structure was less than the optimal 500 feet, the buffer zone was deemed sufficient, given the Terminal Reservoir provided an additional 30-to-45-day detention time of the water without body contact.

The heavy recreation activities at the lake, and the domestic wastewater generation are still considered unfavorable and potential sources for contamination at Lopez Lake. However, the main recreation area continues to be well patrolled and is fully sewered with an extended aeration treatment plant.

The Terminal Reservoir watershed was viewed as susceptible to runoff and accident spills along the section of Orcutt Road which drains directly into the reservoir. The District found it cost prohibitive to address this issue based on the level of threat to the reservoir and this is still unresolved.

Additional growth and development next to the Terminal Reservoir raised some concern about unauthorized public access to the Terminal Reservoir and the Lopez Water Treatment Plant. Fencing was noted as being good at the most visible locations, but minimal around



some less accessible sections of the reservoir. The less accessible sections had barbed-wire fencing and were posted.

Pending Recommendations:

1. Hazardous materials spills and animal grazing may drain into Lopez Terminal Reservoir. Construct a piping system whereby the drainage off Orcutt Road is collected and conveyed away from the Terminal Reservoir by installing a piping system or route runoff to an unlined pond (5,000-10,000 gallons) where it can be collected and conveyed away from the Terminal Reservoir.

Status: Options for re-routing Orcutt Road drainage were evaluated and deemed cost prohibitive. Due to the lack of funds and an unfavorable cost versus benefit ratio, implementation of this recommendation remains a low priority. If a spill were to occur on the vulnerable section of Orcutt Road, attempts would be made to capture and reclaim the spill.

2. The District should continue to make efforts to limit the amount of grazing in and around the watershed areas, including Lopez Terminal Reservoir and WTP. The diversion channel should be extended along Orcutt Road to encompass privately held grazing land that drains onto the road and into the reservoir.

Status: Significantly implemented. Cattle grazing is not permitted anywhere within the District owned property adjacent to the Terminal Reservoir or in the watershed areas. This includes all property directly bordering Lopez Lake and the Terminal Reservoir. When stray cattle are observed on District property, the owner is notified, and the cattle are removed. Minor cattle grazing may occur on a very small section of privately owned land within the watershed that has the potential for drainage onto Orcutt Road and into the farthest reach of the Terminal Reservoir. Coliform, Giardia, and Cryptosporidium monitoring to date has not found this to be a problem.

3. Fencing of the Terminal Reservoir watershed should be completed, especially in areas not visible from the treatment plant site.

Status: Significantly Implemented. Access to the Terminal Reservoir and the Lopez Lake Water Treatment Plant is now controlled 24 hours per day. Entry is limited to personnel and visitors authorized by the County of San Luis Obispo. All visitors must enter through a locked, passcode controlled, security gate and sign in at the facility. The gate includes video surveillance. Additionally, the County maintains two residences on site for operations staff that provides after-hours surveillance and deters trespassing. Fencing



is still needed in the West portion of the terminal. Due to the steepness of the terrain and vegetation it makes it mostly impassable, therefore it is low priority. Once funding becomes available this area will be re-evaluated.

4. Monthly samples should continue to be tested at all organized swimming beaches in the Lopez Lake Recreation Area.

Status: Not implemented as recommended based on water quality data review. Monthly sampling for total coliform and *E.coli* at the designated swim areas was discontinued as the analysis data indicated the swim areas were not having an adverse impact on the quality of the water exiting Lopez Lake. Weekly coliform testing is performed on the water exiting Lopez Lake and on the raw Lopez Terminal water entering the Treatment Plant. The addition of area C and D bacteriological sampling contributes and helps document the background lake TC/EC levels in the swim area.

5. Monthly samples should be collected from the Terminal Reservoir outlet towers and the plant effluent to be analyzed for phosphate.

Status: Implemented. The Terminal Reservoir is tested for phosphates and nutrients monthly.

6. The scope of the inflow creek sampling program should be maintained and/or expanded in terms of scope and frequency.

Status: Implemented. General mineral analyses are performed quarterly, the recommended frequency. Inorganics are analyzed annually rather than quarterly. Nitrates and nitrites are analyzed monthly rather than quarterly. Pesticides and herbicides are analyzed every nine years rather than annually. There was no recommendation for VOCs analysis, but they are analyzed every three years.

7. Water Quality and Hazard concerns for Harmful Algae Blooms (HABs)

Status: Implemented. Continue to screen for algal toxins when blooms are detected. Sampling and testing should occur at any Lake or Terminal site experiencing a significant blue-green bloom (blue-greens greater than 2000 cells/mL), at the Terminal before and one week after treatment for blue-green algae (in order to assess the possible release of toxins from dead or dying algae), and at the "Treatment Plant - Raw" and "Treatment Plant - Treated" sites after any detection of algal toxins in the Terminal. HAB results are voluntarily reported to the California State Water Resources Control Board's data system on the CA HABs Portal.



CURRENT WATERSHED DATA EVALUATION AND SUMMARY

This section will summarize water quality issues in the watershed based on data collected from analysis and field inspections over the past five years. However, the most significant impact to the watershed area over the past couple of years would be the decrease in the amount of rainfall in our watershed as well as throughout the state of California. Vegetation in the watershed has been visibly dry, and water levels in Lopez Lake, watershed, and surrounding groundwater aquifers are lower. As the drought continues, longer term impacts can emerge and could possibly alter or damage native ecosystems for both aquatic and riparian species.

Data availability has decreased from the previous watershed survey due to budget restrictions placed upon sampling and analysis of the watershed area as well as the decrease in water levels. All data is available for review in the following document as well as historical precipitation levels.

Microbiological Summary

Total coliform, *E. coli*, *Giardia* and *Cryptosporidium* levels in the watershed creeks are monitored routinely as a potential indicator of pathogens in the watershed. Less data is available from Wittenberg, and Vasquez Creeks due to a severe drought in 2016.

As shown in Table 1, Clapboard Canyon Creek Arm and Vasquez Creek had the highest total coliform levels on average over the past five years (both creeks had low flow from 2016-2020). Vasquez Creek and Arroyo Grande Creeks had the highest *E. coli* levels on average over the last five years (Figure 2 and 3). *Cryptosporidium* oocysts and *Giardia* cysts were found in Arroyo Grande Creek. As stated, prior, drought conditions could be causing significant impacts in all the creeks data. Arroyo Grande Creek and Lopez Creek have been the only creeks consistently flowing throughout the last five years, whereas the other creeks have become dry. When comparing this survey with the previous survey (2011-2015) both *E.coli* and total coliform have decreased in Arroyo Grande and Lopez creeks and have increased in both Clapboard Canyon Creek Arm and Vasquez Creek. Wading birds, waterfowl, and wildlife inhabit the Lopez watershed area. It is possible that because of drought conditions, they may be concentrating or relocating to these areas causing an increase in populations in those areas and in turn increasing nutrient levels in both creeks (Raw data can be found in Appendix B1).

While wildlife, grazing animals, and agricultural activity have been observed upstream of the sampling locations in all the monitored creeks, Arroyo Grande Creek is believed to have the greatest number of grazing animals and the most agricultural activity.

During the period covered by this survey update, coliform and *E. coli* levels seem to vary with the time of year. However, Arroyo Grande Creek seems to be holding steady from one year



to the next which may have to do with drought conditions. Monitoring of the creeks for pathogens or pathogen indicator species should continue as wild and domestic animals can be significant sources of microbial pathogens like *Giardia* and *Cryptosporidium*.

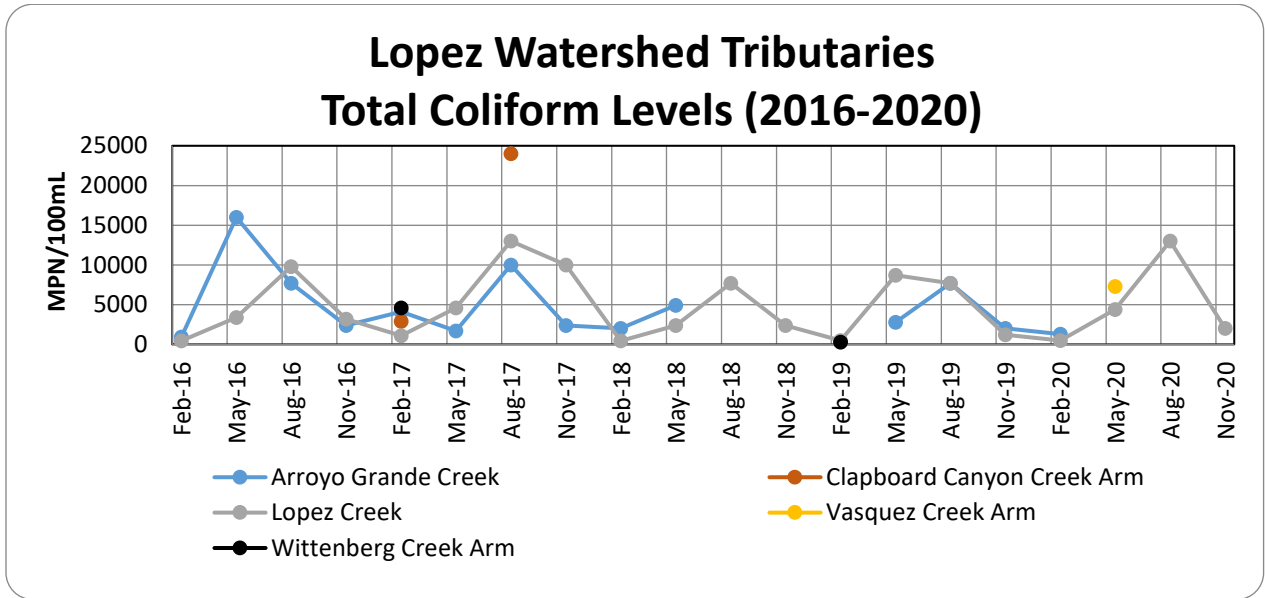


Figure 2: Comparison of Total Coliform levels between Lopez Lake tributaries

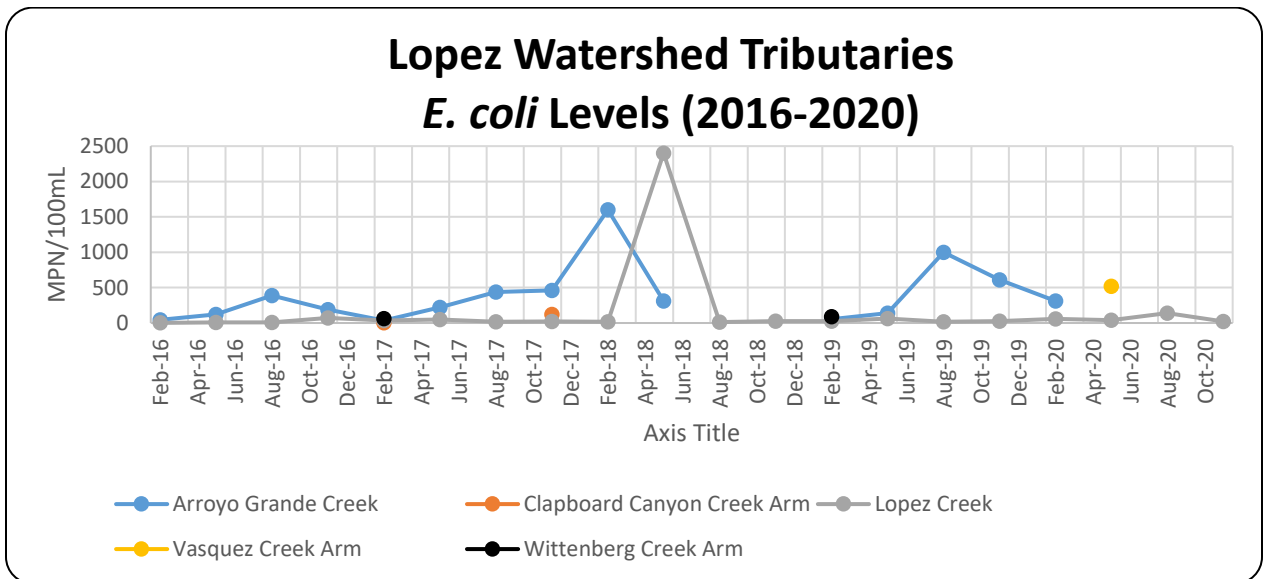


Figure 3: Comparison of *E. coli* levels between Lopez Lake tributaries



Table 1: Creek and Terminal Microbiological Data Summary, 2016 through 2020

Site		Total Coliform (MPN/100 mL)	<i>E. Coli</i> (MPN/100 mL)	Cryptosporidium (Oocysts/L)	<i>Giardia</i> (Cysts/L)
Arroyo Grande	Minimum	920	35	ND	ND
	Maximum	16000	1600	0.2	2
	Average	4461	395	0.2	1.5
	Median	2400	310	0.2	1.5
	# of Samples	15	15	4	4
Lopez Creek	Minimum	440	2	ND	ND
	Maximum	13000	2400	ND	ND
	Average	4824	154	0	0
	Median	3300	26	0	0
	# of Samples	20	20	5	5
Vasquez Creek	Minimum	7300	520	NA	NA
	Maximum	7300	520	NA	NA
	Average	7300	520	NA	NA
	Median	7300	520	NA	NA
	# of Samples	1	1	0	0
Wittenberg Creek	Minimum	300	65	ND	ND
	Maximum	4600	91	ND	ND
	Average	4675	423	0	0
	Median	4461	154	0	0
	# of Samples	2	2	1	1
Clapboard Cyn Crk	Minimum	2900	3	ND	ND
	Maximum	24000	120	ND	ND
	Average	13450	61.5	0	0
	Median	13450	61.5	0	0
	# of Samples	2	2	1	1
Influent to Terminal	Minimum	1	ND	NA	NA
	Maximum	17000	13	NA	NA
	Average	1071	2	NA	NA
	Median	290	1	NA	NA
	# of Samples	212	212	0	0
Influent to Plant	Minimum	NA	NA	ND	ND
	Maximum	NA	NA	ND	ND
	Average	NA	NA	0	0
	Median	NA	NA	0	0
	# of Samples	0	0	21	21
Lopez Raw	Minimum	8.5	1	NA	NA
	Maximum	13000	120	NA	NA
	Average	940	10	NA	NA
	Median	215	4	NA	NA
	# of Samples	250	250	0	0

Under the California Health and Safety Code Department’s draft “Guidance for Freshwater Recreational Areas,” body-contact reservoirs must monitor for microbial quality. This monitoring should consist of sampling for total and fecal coliform bacteria. Samples for *E. coli* and enterococcus bacteria are also recommended. Going forward Lopez Lake and Influent to Terminal sampling will include enterococcus monitoring. The recreation area should post appropriate signage if levels ever exceed the values in Table 2.

Table 2: Bacteria Exceedance Levels

Parameter	Single Sample (MPN/100 mL)	30-day Average (MPN/100 mL)
Total coliform	10,000	1,000
Fecal coliform	400	200
<i>E. coli</i>	235	126
Enterococcus	61	33

Field Inspection Summary of Sections

Lopez Lake (Figure 4) is known for its great fishing and recreation. It is also a main water source for South San Luis Obispo County. Weekly/monthly personnel sample the water quality to ensure the best delivered water.



Figure 4: Lopez Lake Marina and Launch Ramp

The lake has been divided into sections A-K to better understand and identify the sampling and monitoring areas of the lake. Map scaling is approximate (Figure 5).

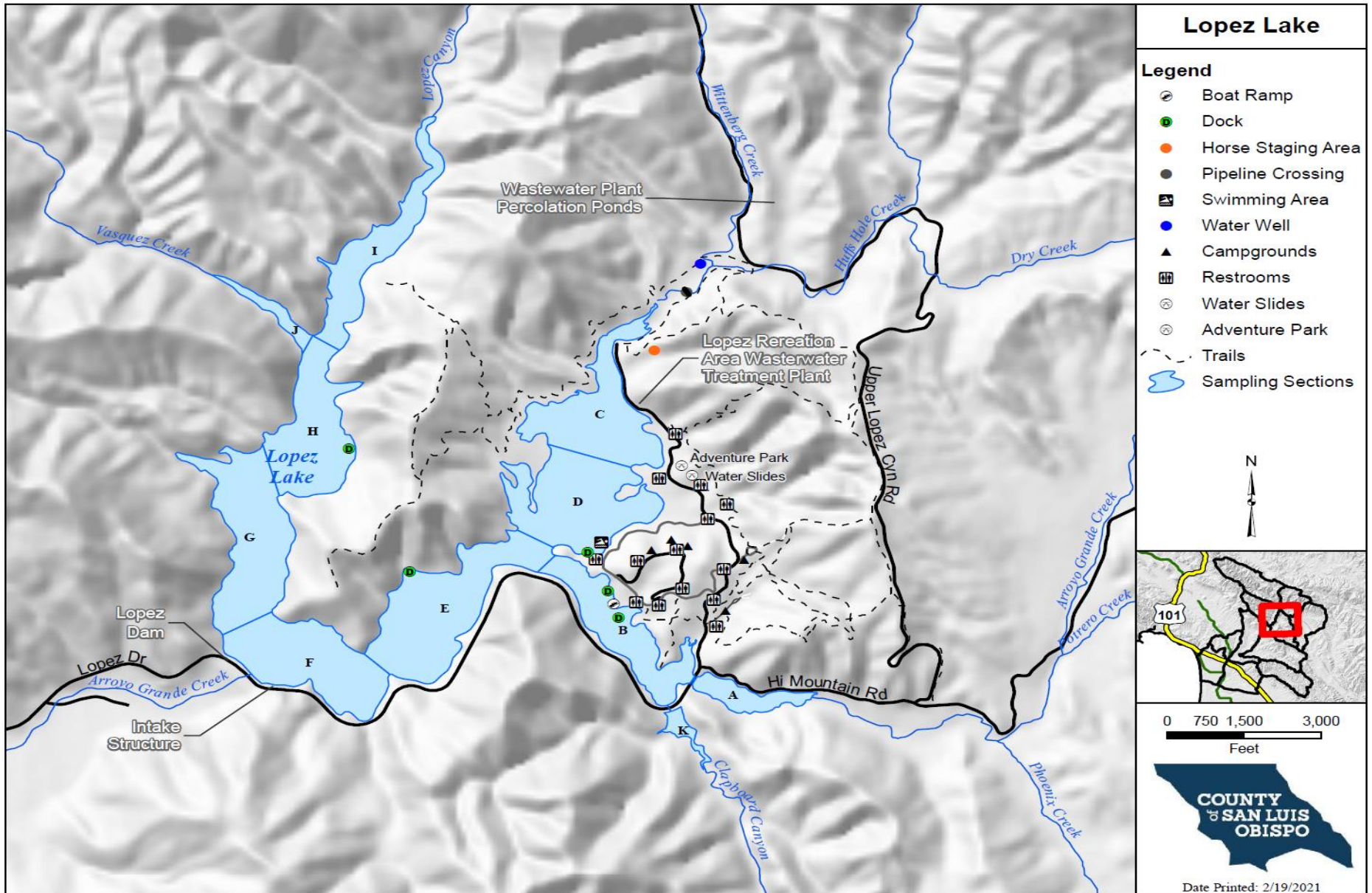


Figure 5: Lopez Reservoir and Creeks in Lopez Watershed



Lopez Lake: Field Inspection Summary of Sections A, B, and K

Lopez Lake Section A, B, and K, are fed by Clapboard Canyon Creek Arm. When there is adequate water levels, wading birds preferred Section A, and occasionally Section B. Deer are often found along the water edge of Section B.

Lopez Lake: Field Inspection Summary of Sections C and D

Lopez Lake Section C is fed by Wittenberg Creek Arm. Vista Lago, a designated swim area, is located along the shore of Section C and Section D. This section of the lake is popular for windsurfers and swimmers. The wastewater treatment plant for the Lopez Recreation Area is also located adjacent to Section C. Wittenberg Creek Arm does not flow year-round; therefore, Section C water can become stagnate. The increased water temperature, low circulation, and prevailing wind patterns can promote algae and weed growth. Wittenberg Creek Arm is tested quarterly for coliform bacteria when flowing. Bacteriological monitoring of Section C is scheduled monthly (Table 3). However, Section C of Lopez Lake was dry for several months during the 2015-2016 calendar year. During this time, a bacteriological sample was taken from Section D to ensure recreation was safe for body contact sports. Winter of 2016 was a heavy rainy season and Wittenberg Creek Arm was flowing for the first time in many years. Some water quality data was higher than normal; this was expected.

The lake's camping area is within the Wittenberg Creek Arm and Arroyo Grande Arm shown in Figure 5. In 2019, there was a small fire in the Northern part of Wittenberg Creek Arm arm due to a campfire. The fire was quickly controlled and did not spread to the lake or harm the watershed. Lopez Lake has a high fire watch during the dry, windy warm months.

Table 3: Summary of Section C Bacteriological Data

Section C Bacteriological Data		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
Minumum	2100	<1
Maximum	24000	11
Average	2902	4
Median	1500	2.5
n	34	34

Lopez Lake: Field Inspection Summary of Sections E, F, and G

Several deer and bear can be found along the edge of the lake throughout the year in these sections. Sections E, F, and G, are the most popular for recreational vessels and water skiers. Occasionally cattle from a nearby ranch are found near the water's edge in section F (Figure 6). These areas tend to be very windy in the afternoon.

Section F is where you will find the Lopez Lake's intake structure. A monthly/weekly limnology profile is taken by lab staff to determine the best water quality to deliver to Lopez Terminal. Lopez dam and spillway are also located near section F.

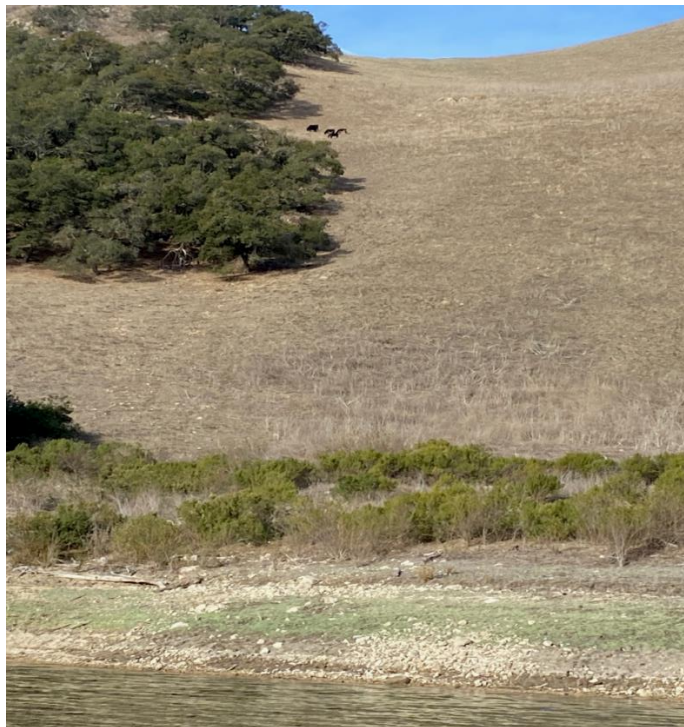


Figure 6: Cattle on hillside near Sections F and G

Lopez Lake: Field Inspection Summary of Sections H, I, and J

Section H is popular for windsurfers and water skiers. This section can become busy during the summer season. Section J is fed by Vasquez Creek and section I is fed by Lopez Creek. This area is most popular for fishing boats. Many types of waterfowl and deer are found in section I along the water edge and in the water. Deer and bear have been spotted in section J near the Vasquez Creek area.

Influent to Terminal:

The “Influent to Terminal” sample location is used to determine the water quality entering the Terminal Reservoir from Lopez Lake. The “Plant Influent” sample is used to determine the water quality after the 30-to-45-day detention time in the Terminal Reservoir and prior to treatment at the Lopez Water Treatment Plant. Bacteriological water quality is similar at these two locations except the Plant Influent tends to have both higher *E. coli* and total coliform levels. This may be attributed to waterfowl activity and the nesting swallow population located near the intake structure to the plant influent. Total coliform and *E. coli* levels tend to increase during the spring and taper off during the fall season when water temperatures increase and nesting ceases (Figures 7 and 8).

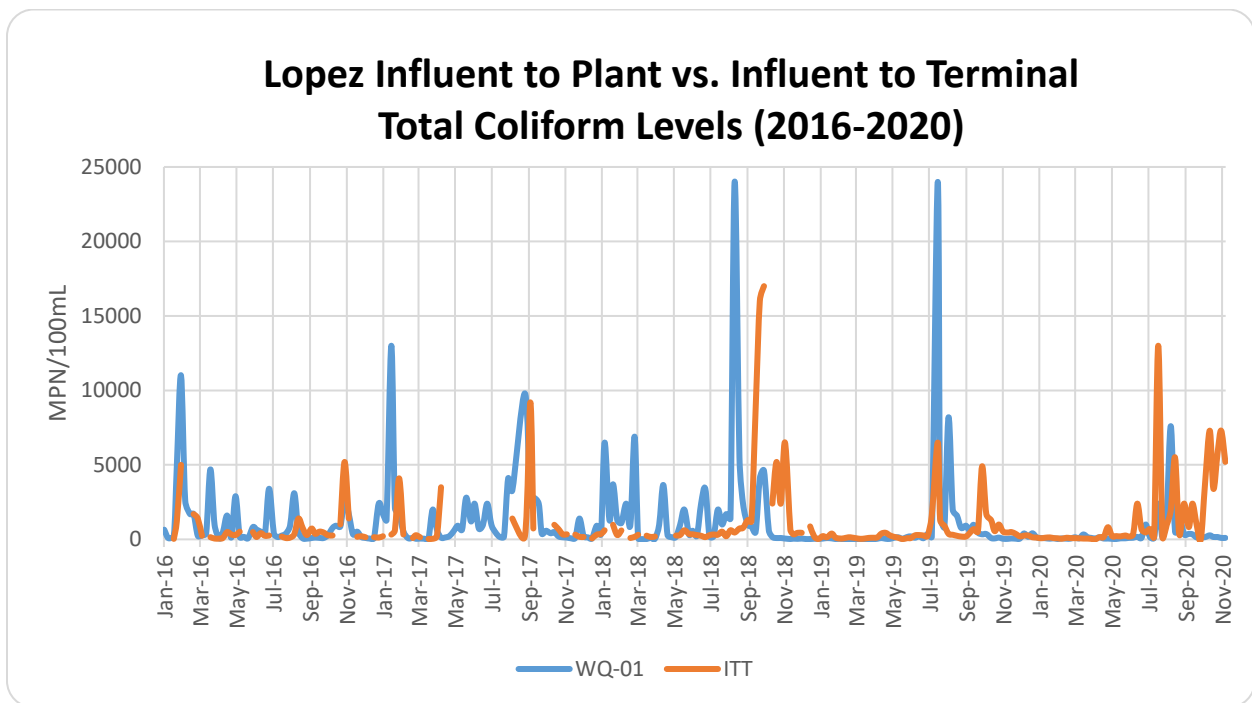


Figure 7: Influent to Plant vs. Influent to Terminal Total Coliform levels

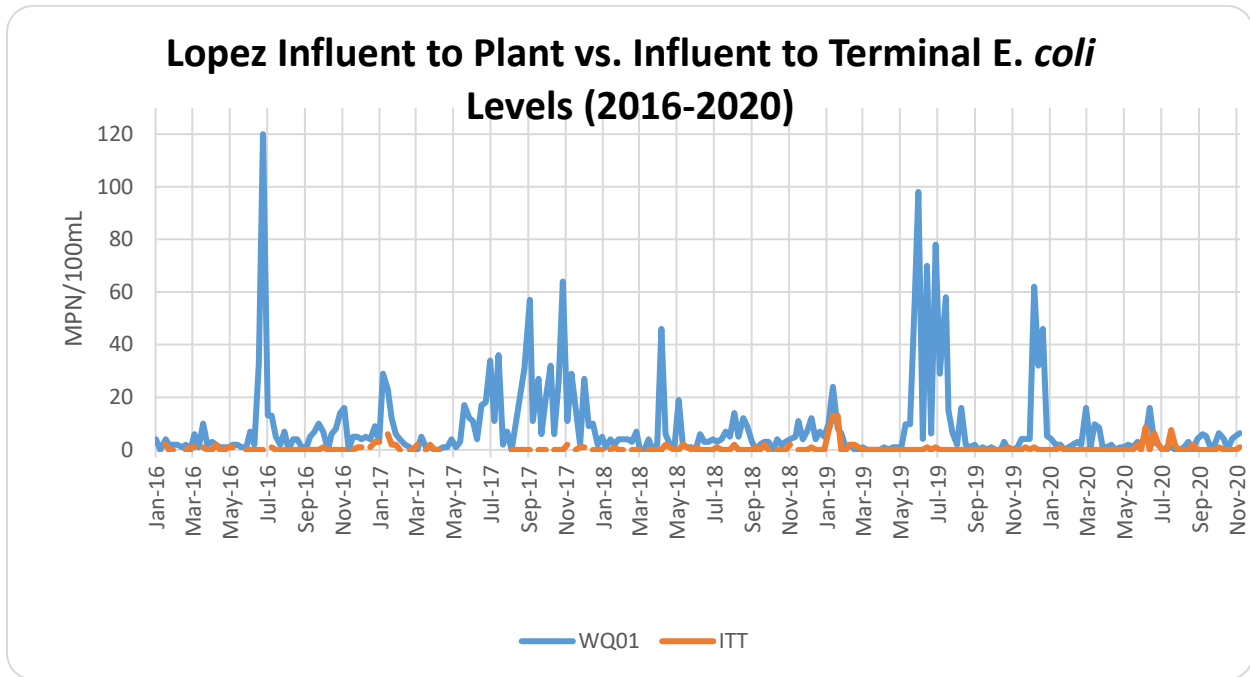


Figure 8: Plant Influent vs. Influent to Terminal *E. Coli* levels

General Mineral and Inorganic Chemical Summary

General mineral and inorganic chemicals are common water quality indicators. Although these chemicals occur naturally in the environment, an increase in concentration may be an indicator of industrial or agricultural contamination in the watershed. Creek and Terminal Reservoir aluminum, arsenic, iron, and manganese levels are summarized in Table 4 (Raw data can be found in Appendix B2 and B3).



Table 4: General Mineral/Inorganic Chemicals Summary, 2016 through 2020

Sample Site		Aluminum (µg/L)	Arsenic (µg/L)	Iron (µg/L)	Manganese (µg/L)
Arroyo Grande Creek	Minimum	47	3.5	100	76
	Maximum	160	9.6	470	839
	Average	111	5.4	242	173
	Median	120	5.15	210	140
	Number of Samples	5	20	15	15
Lopez Creek	Minimum	<20	<1.0	319	<5.0
	Maximum	39	2.6	493	7.9
	Average	30	1.3	439	4.7
	Median	32	1.2	447	4.85
	Number of Samples	6	19	20	20
Vasquez Creek	Minimum	23	1.3	23	<5.0
	Maximum	23	1.3	23	<5.0
	Average	23	1.3	23	0
	Median	23	1.3	23	0
	Number of Samples	1	1	1	1
Wittenberg Creek	Minimum	45	<1.0	47	9
	Maximum	45	1.3	60	10
	Average	45	1.3	54	9.5
	Median	45	1.3	54	9.5
	Number of Samples	1	2	2	2
Clapboard Canyon Creek	Minimum	40	2.2	78	11
	Maximum	40	13	1500	340
	Average	40	6.5	462	129
	Median	40	4.2	130	46
	Number of Samples	1	3	5	5
Influent to Terminal	Minimum	<20	3.5	19	23
	Maximum	59	8.8	1400	330
	Average	40	6	63	74
	Median	38	5.8	40	65
	Number of Samples	10	20	74	74
Lopez Raw	Minimum	<10	4.2	3.3	5.4
	Maximum	33	6.6	69	340
	Average	21	5.4	11	31
	Median	22	5.3	7.8	14
	Number of Samples	10	29	109	109



Aluminum is a secondary standard with a MCL of 200 ug/L. Aluminum levels in the creeks are typically below the secondary MCL level. There was a slight spike in Arroyo Grande Creek just as it was going dry early 2020 (Figure 9). We also found that, although nowhere near the MCL level, the average aluminum concentration in many of the watershed creeks have increased compared to the numbers from the previous five-year survey. The Lopez Water Treatment Plant Treated water aluminum concentration has consistently met all MCL requirements and remained relatively constant. Aluminum concentration does not appear to be a problem in the watershed at this time.

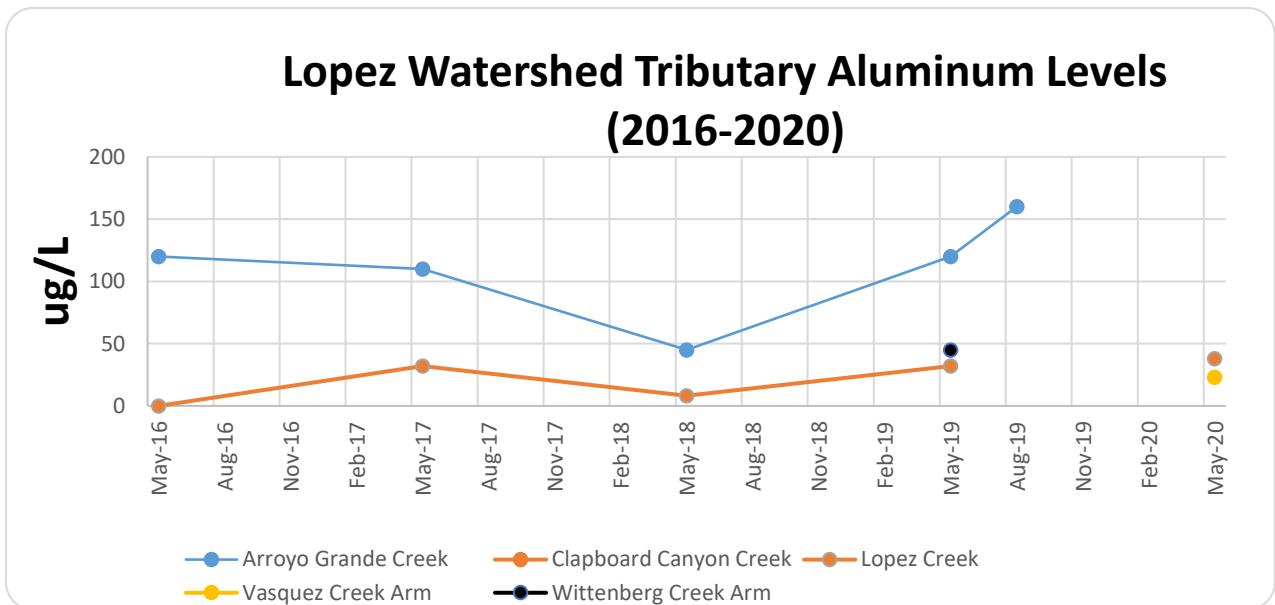


Figure 9: Aluminum Levels in Creeks in the Lopez Watershed

Arsenic has a primary MCL of 10 ug/L in drinking water and can come from natural (erosion of natural deposits; runoff from orchards), or from man-made sources. Arsenic levels in Arroyo Grande creek appear to be slightly increasing. The 10 ug/L arsenic MCL was exceeded in Clapboard Canyon Creek Arm in August of 2017, due to it being the first sample collected in two years (water was noted to be pooling). During this time both the treatment plant raw water and the treatment plant treated water did not exceed the MCL. However, levels increased to over half of the MCL level in Influent to Terminal, Influent to Plant, and Treatment Plant Treated water multiple months in the past five years (Figure 10). Sampling at the water treatment plant increased from quarterly to monthly to keep a close watch on arsenic levels at the plant.

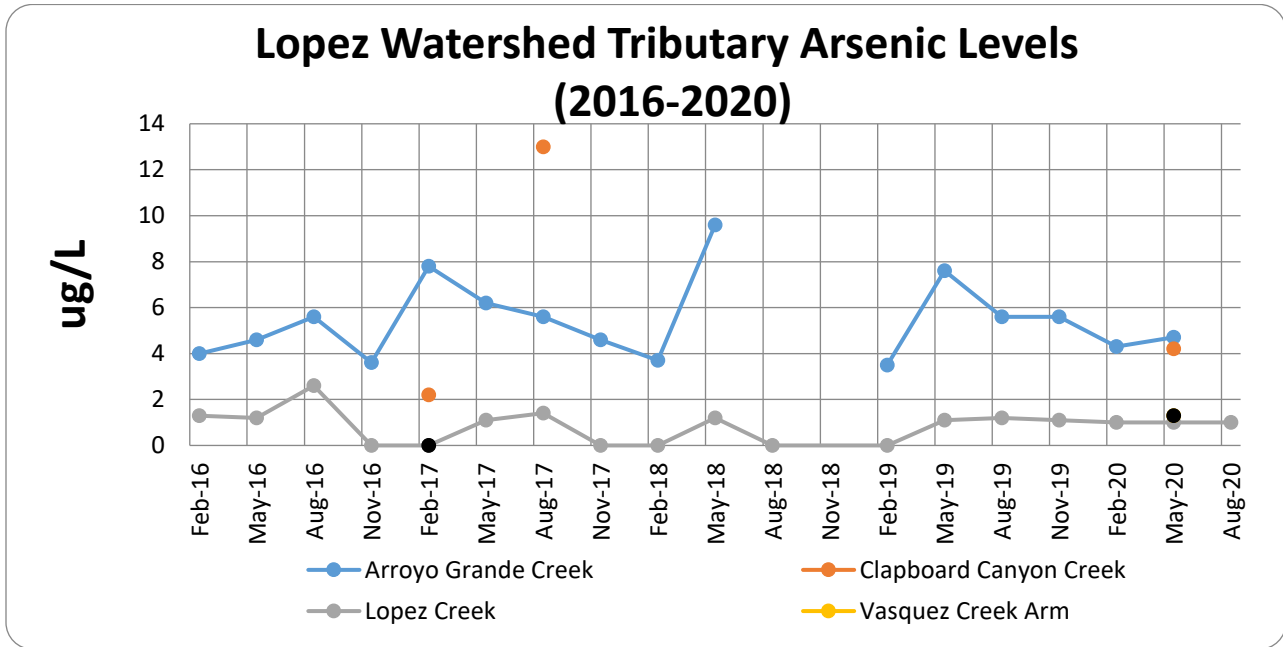


Figure 10: Arsenic Levels in Creeks in the Lopez Watershed

Nutrient Summary

Contributions of nutrients in watersheds can be caused from a variety of sources and environmental circumstances. Several different contributors and circumstances may increase the nutrient levels in the Lopez watershed (animal agriculture, agricultural fertilizer, temperature, runoff of nutrient rich soil, and drought conditions). The appearance of blue green algal blooms is a good indication that the nutrient levels in the watershed has increased.

The growth of macrophytes (aquatic plants) and phytoplankton (algae) can be stimulated by nutrients like phosphorus and nitrogen. “Nutrient-stimulated primary production is more often seen in lakes and estuaries as primary production in flowing water is thought to be controlled by physical factors, such as light penetration, timing of flow, and the type of substrate available, rather than by nutrients.”¹ However, phosphorus and nitrogen are important plant nutrients and, when in abundance, can lead to over fertilization of a lake.

¹ www.water.ncsu.edu/watershedss/info/no3.html, McCabe et al., 1985



This will promote the growth of aquatic plants, which may deplete the oxygen from the water that many native species need to survive.

Nitrogen and phosphate levels are monitored in the watershed creeks to determine nutrient loading on Lopez Lake, and subsequently, on the Terminal Reservoir. When total phosphorus levels exceed 0.025 mg/L in lakes and reservoirs, excessive or nuisance growths of algae and other aquatic plants may be stimulated (EPA Quality Criteria for Water 1986). According to North Carolina State's "WATERSHEDSS" program, "the increasing concentration of available phosphorus allows plants to assimilate more nitrogen before the phosphorus is depleted. Thus, if sufficient phosphorus is available, high concentrations of nitrates will lead to phytoplankton and macrophyte production."² Man-made nutrient sources of nitrates and phosphorus (generally in the form of orthophosphate) are typically chemical fertilizers. Another potential source is domesticated animals kept in close proximity to creeks. These nutrients are soluble. Whatever amount is not taken up by plants in a field, garden, or lawn, is washed away into groundwater, streams, ponds, and lakes or reservoirs. A rise in nutrients, such as phosphorus and nitrogen, could lead to algal blooms in Lopez Lake or the Terminal Reservoir. Excessive nutrient loads can contribute to eutrophication, causing negative impacts on aquatic ecosystems, and water quality (Carpenter et al., 1998). In 2016, the County of San Luis Obispo was experiencing an extreme drought. During the drought Arroyo Grande Creek, Clapboard Canyon Creek, Wittenberg Creek Arm and Vasquez Creek weren't flowing. All creeks (except Vasquez Creek) were flowing in 2017. Vasquez Creek is known as a subterranean creek/stream. A subterranean creek, is a creek that flows above and below ground. While underground the water goes through a "subterranean nutrient cycling" (Lewis Thomas, *Science Findings*, 2004). This cycle helps with the purification and water quality of the stream. In Table 5, both Wittenberg Creek Arm and Arroyo Grande Creek had higher nitrate and phosphate levels. Raw data can be found in Appendix B2 through B4.

² www.water.ncsu.edu/watershedss/info/no3.html



Table 5: Creek and Terminal Nutrient Data Summary, 2016 through 2020

Sample Site		Nitrite as N (µg/L)	Nitrate as N (µg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Nitrogen (mg/L)	Total Phosphate as P (mg/L)
Arroyo Grande Creek	Minimum	<100	<100	<0.2	0.2	<0.02
	Maximum	<100	159	0.73	1.1	1.08
	Average	0	56.2	0.42	0.57	0.69
	Median	0	29	0.40	0.51	0.69
	Number of Samples	15	15	14	14	15
Lopez Creek	Minimum	<100	<100	<0.2	<0.20	0.12
	Maximum	<100	32	1.5	1.5	0.21
	Average	0	20.64	0.62	0.66	0.17
	Median	0	23	0.34	0.39	0.17
	Number of Samples	20	20	19	17	20
Vasquez Creek	Minimum	<100	<100	<0.20	<1.0	0.16
	Maximum	<100	<100	<0.20	<1.0	0.16
	Average	0	0	0	0	0.16
	Median	0	0	0	0	0.16
	Number of Samples	1	1	1	1	1
Wittenberg Creek	Minimum	<100	19	<1.0	<1.0	0.07
	Maximum	<100	56	0.22	0.76	0.11
	Average	0	36.5	0.22	0.76	0.09
	Median	0	36.5	0.22	0.75	0.09
	Number of Samples	2	2	2	2	2
Clapboard Canyon Creek	Minimum	<100	<100	<0.2	<0.2	0.15
	Maximum	<100	110	2.4	2.4	0.92
	Average	0	73.3	1.3	1.6	0.6
	Median	0	92.0	0.9	1.5	0.4
	Number of Samples	6	6	6	5	6
Influent to Terminal	Minimum	<100	<100	0.39	0.55	0.27
	Maximum	<100	122	4.5	5.2	0.67
	Average	0	32.1	1.0	1.5	0.4
	Median	0	18.9	0.7	0.9	0.4
	Number of Samples	25	25	20	20	21
Lopez Raw	Minimum	<100	<100	-----	-----	-----
	Maximum	<100	100	-----	-----	-----
	Average	0	100	-----	-----	-----
	Median	0	100	-----	-----	-----
	Number of Samples	5	5	-----	-----	-----



Limnology and Physical Summary

High concentrations of certain algae can impact taste and odor, clog filters, and cause an increased chlorine demand in the water. From April through the end of October, staff monitors algae levels in the reservoirs weekly. The District treats the Terminal Reservoir with an algaecide before algae bloom become a significant problem.

Odor levels of the Terminal Reservoir raw water have exceeded the secondary MCL of 3 TON as shown in Table 6, but the treatment process is able to remove most objectionable odors prior to delivery to the consumer.

Lopez Lake normally develops a thermocline at a depth of 20 to 40 feet during the summer months. Water from the epilimnion (above the thermocline) typically contains dissolved oxygen in excess of 5 mg/L. This is sufficient for aerobic life forms and will minimize dissolved manganese. Algal concentrations are typically greatest near the water surface and can contribute to unacceptable odors. Epilimnion water below the surface algae and above the thermocline is preferred for delivery to the Terminal Reservoir. In the cooler months, the surface water temperature drops and the reservoir “turns over.” The colder and denser surface water sinks and blends with the bottom water which contains less dissolved oxygen and more dissolved metals. Hydrogen sulfide may also be present. Dissolved metals can exert an oxidant demand at the water treatment plant. The District may use a combination of chlorine, potassium permanganate, and chlorine dioxide to oxidize iron and manganese. Powdered activated carbon is used at the plant influent to treat odor problems.

In 2017, the laboratory started using an electronic microscope (FlowCam) to classify and count algae at the lake and terminal reservoirs. The FlowCam is more quantitative and is designed to help provide a better understanding of how dense the algae may be in the environment. Enumeration of algae has helped with early detection of HABs. By knowing how much blue-green algae is in a sample we can determine the HAB risk factor by performing an algal toxin screen (data in Appendix B6). These harmful algal blooms (HABs) are often composed of microorganisms known as cyanobacteria that may produce toxins that can cause adverse health effects in humans and animals (see Algal Toxin section for more details). Algae results can be seen in Table 7.

In 2016-2017, lake levels were increasing at a rapid rate due to a heavy rainy season. During the first couple of months in 2017 the lake had a lot of debris and field data was affected.



Table 6: Lake Physical Data (January 2016-December 2020)

Site		Depth (Ft)	Dissolved Oxygen (mg/L)	Odor (TON)	pH-Field	Temperature (C)	Turbidity (NTU)
Lake Intake 2	Min	5	6.4	3.5	8.14	15.1	1.6
	Max	10	11.2	10	8.99	22.8	16
	Ave	8	9.0	5.4	8.6	19.4	4.8
	Med	10	9.0	5	8.48	19.6	3.0
	# of Samples	17	17	17	17	17	17
Lake Intake 3	Min	5	4.1	1.0	8.04	11.2	1.4
	Max	25	11.5	7.5	9.06	23.8	24
	Ave	15	7.8	4.1	8.66	19.6	3.9
	Med	15	7.6	4.0	8.71	20.4	3.1
	# of Samples	124	124	125	124	124	125
Lake Intake 4	Min	15	0.2	0	6.42	10.4	1.5
	Max	40	11.7	15	8.95	23.2	11.6
	Ave	30	5.9	3.8	8.48	18.5	3.2
	Med	30	6.3	3.5	8.51	19.4	3
	# of Samples	128	144	145	144	144	145
Lake Intake 5	Min	10	0.05	0	7.54	10.4	1
	Max	60	10.9	100	8.89	22.7	31
	Ave	45	4.0	7.5	8.30	17.0	3.0
	Med	45	4.5	3.5	8.3	16.8	2.6
	# of Samples	130	161	161	161	161	161
Lake Intake 6	Min	25	0.01	0	7.56	1.3	0.75
	Max	70	10.3	100	8.73	22.2	13
	Ave	59	2.5	9.5	8.11	14.6	2.7
	Med	60	1.5	4	8.04	13.8	2.3
	# of Samples	129	159	160	159	159	160
Lake Intake 7	Min	40	0.16	1.6	8.01	11.6	0.55
	Max	85	6.0	50	8.60	21.1	75
	Ave	80	2.5	6.4	8.17	14.5	7.8
	Med	85	1.7	4	8.13	11.6	3.5
	# of Samples	17	25	26	26	25	26
Lake Section E	Min	1	5.1	NA	7.87	10.3	1.2
	Max	10	12.0	NA	9.08	24.3	31
	Ave	4	8.5	NA	8.57	19.7	4.8
	Med	4	8.4	NA	8.59	20.8	3.6
	# of Samples	161	161	NA	161	161	161
Lake Section F	Min	1	4.8	NA	8.00	10.3	1.4
	Max	9	11.6	NA	9.09	24	35
	Ave	5	8.3	NA	8.65	19.5	4.4
	Med	5	8.1	NA	8.68	20.6	3.3
	# of Samples	162	162	NA	162	162	162
Lake Section G	Min	1	5.2	NA	7.85	10.3	1.3
	Max	9	12.5	NA	9.10	24.1	71
	Ave	4	8.7	NA	8.63	19.7	4.8
	Med	4	8.5	NA	8.66	20.7	3.7
	# of Samples	161	161	NA	161	161	161



Table 7: Lake Algae Data (January 2016 to December 2020)

Site		Blue-greens (cells/mL)	Diatoms (cells/mL)	Flagellates (cells/mL)	Greens (cells/mL)	Total Algae Counts ((cells/mL)	Golden (cells/mL)	Dinoflagellates (cells/mL)	Cryptomonads (cells/mL)
Lake Intake 2	Min	0	0	0	0	22	0	0	0
	Max	54000	3400	61	3800	55000	270	40	270
	Ave	8398	396	10	329	9236	17	7	17
	Med	0	150	0	56	790	0	0	0
	# of Samples	17	17	17	17	17	17	17	17
Lake Intake 3	Min	0	0	0	0	22	0	0	0
	Max	57000	8700	9600	9600	58000	170	920	580
	Ave	4038	213	425	515	4944	8	70	61
	Med	345	22	37	110	995	0	33	27
	# of Samples	124	124	124	124	124	124	124	124
Lake Intake 4	Min	0	0	0	0	0	0	0	0
	Max	21000	9100	750	8100	9400	290	500	2200
	Ave	1430	161	46	454	719	8	43	58
	Med	350	12	0	85.5	135	0	18	15
	# of Samples	144	144	144	144	144	144	144	144
Lake Intake 5	Min	0	0	0	0	0	0	0	0
	Max	6200	5100	370	10000	10000	320	340	1700
	Ave	311	99	38	677	1213	9	32	52
	Med	30	14	0	50.5	385	0	10	11
	# of Samples	160	160	160	160	160	160	160	160
Lake Intake 6	Min	0	0	0	0	0	0	0	0
	Max	3300	1700	240	12000	12000	210	300	510
	Ave	136	55	20	537	808	8	19	30
	Med	0	6	0	26	150	0	3	4
	# of Samples	159	159	159	159	159	159	159	159
Lake Intake 7	Min	0	0	0	66	110	0	0	48
	Max	0	0	0	66	110	0	0	48
	Ave	0	0	0	66	110	0	0	48
	Med	0	0	0	66	110	0	0	48
	# of Samples	1	1	1	1	1	1	1	1
Lake Section E	Min	0	0	0	0	3	0	0	0
	Max	87000	7100	730	16000	87000	490	2000	1600
	Ave	4298	174	57	928	5665	22	121	104
	Med	350	40	0	140	1600	0	28	52
	# of Samples	160	161	161	161	161	161	161	161
Lake Section F	Min	0	0	0	0	11	0	0	0
	Max	73000	9000	440	200	73000	200	920	1100
	Ave	4659	199	41	17	5931	17	91	87
	Med	400	38.5	0	0	1400	0	35	34
	# of Samples	162	162	162	162	162	162	162	162
Lake Section G	Min	0	0	0	0	11	0	0	0
	Max	71000	12000	550	13000	71000	570	1300	2000
	Ave	3931	269	51	925	5381	18	100	96
	Med	325	40	0	170	1500	0	33	43
	# of Samples	162	162	162	162	162	162	162	162

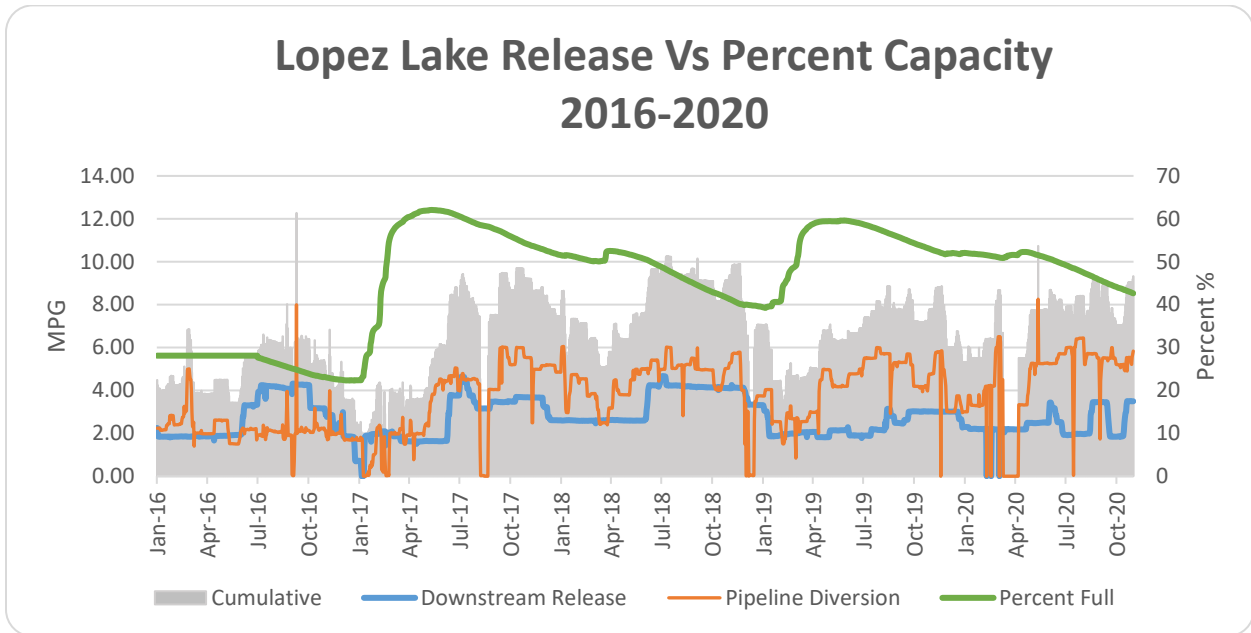


Figure 11: Lopez Lake Release vs Percent Capacity

Figure 11 shows downstream and pipeline diversion release verses lake capacity. Downstream release remains constant due to the County’s draft Habitat Conservation Plan and required stream release. Rain totals are shown in Table 8. Additional rain/capacity data can be found in Appendix D and E.

Table 8: Rain Total 2016-2020

Rain Totals: 2016-2020	
Year	Rain Total (inches)
2016	20.11
2017	26.11
2018	13.19
2019	29.2
2020	10.45
Total	99.06



Radiological Summary

Testing for gross alpha emitting elements (which include the alpha emitting radioactive elements Radium-226 and Uranium-238) is conducted every nine years on the plant effluent water. Radiological monitoring was performed in 2013, and will be due again in 2022. The last monitoring occurred in 2004. The highest level of gross alpha particle activity detected was 1.53 pCi/L, well below the 15 pCi/L MCL. No change is expected in gross alpha concentrations in the foreseeable future.

Volatile and Synthetic Organic Chemicals Summary

Arroyo Grande Creek, Clapboard Canyon Creek, Lopez Creek, the Influent to Terminal, Lopez Treatment Plant Raw, Lopez Treatment Plant Treated, and Delivered Water were sampled for VOCs in 2012. No VOCs were detected except for the expected THMs in the Treated and Delivered water samples.

Arroyo Grande Creek, Lopez Creek, Influent to Terminal, Lopez Treatment Plant Raw, Lopez Treatment Plant Treated, and Delivered Water were sampled for VOCs in 2015. Other than the expected THMs in the Treated and Delivered water samples, no VOCs were detected.

Influent to Terminal, Lopez Treatment Plant Raw, and the Lopez Treatment Plant Treated were sampled for SOCs in 2018. No SOCs were detected. The next sampling event for SOCs are scheduled for 2027.

Monitoring for VOCs is conducted every three years in January. Additional monitoring for SOCs is conducted every nine years. Synthetic or volatile organic compounds are not seen as a significant water quality threat to the watershed at this time. No changes in potential contaminating activities were identified in the last five years and none are anticipated in the foreseeable future.

Algal Toxins

Cyanobacteria, other freshwater algae, and their toxins are on the EPA's Contaminant Candidate List. The Contaminant Candidate List (CCL) is a list of contaminants that are currently not subject to any proposed or promulgated national primary drinking water regulations, but are known or anticipated to occur in public water systems. Contaminants listed on the CCL may require future regulation under the Safe Drinking Water Act (SDWA). For more information, please go to the EPA's website at <https://www.epa.gov/ccl/contaminant-candidate-list-4-ccl-4-0.3>.

³ <https://www.epa.gov/ccl/what-epa-does-ccl>



Cyanotoxins, from certain types of blue-green algae, in high concentrations have been known to cause illness, paralysis and even death in livestock and wildlife. Algae which have been known to produce toxins, such as Aphanizomenon, Anabaena, Microcystis, and Oscillatoria were found at Lopez Lake and the Terminal Reservoir during certain times of the year. The District attempts to treat algae at the Terminal Reservoir using copper sulfate and/or PAK®27 (a blue-green algaecide from Peroxide Solutions) before it becomes a problem. The California Water Quality Control Board regulates aquatic pesticide application at Lopez Lake and Terminal under a general NPDES permit. This permit regulates the frequency, application amount, and aquatic pesticide used for algae treatment.

The District routinely monitors algae levels. When a blue green algae bloom greater than 2000 cells/mL is detected at Lopez Lake and/or the Terminal Reservoir, sampling and testing for algal toxins is performed. This testing is conducted in the surface water at a depth of approximately 3 feet and from the Lopez Lake intake in use.

In 2018, the State Water Resources Control Board detected microcystins in a concentrated surface sample. The water being used from the lake and sent to the Terminal Reservoir was sampled for algal toxins and toxins were not detected. Algal toxin general information and Caution signs were posted at the reservoir for recreational users.

Based on cyanotoxin testing results and or visual indicators confirming the presence of Harmful Algal Blooms, the State requires each body of water to post an advisory level, CAUTION, WARNING or DANGER (Figure 12 & 13).

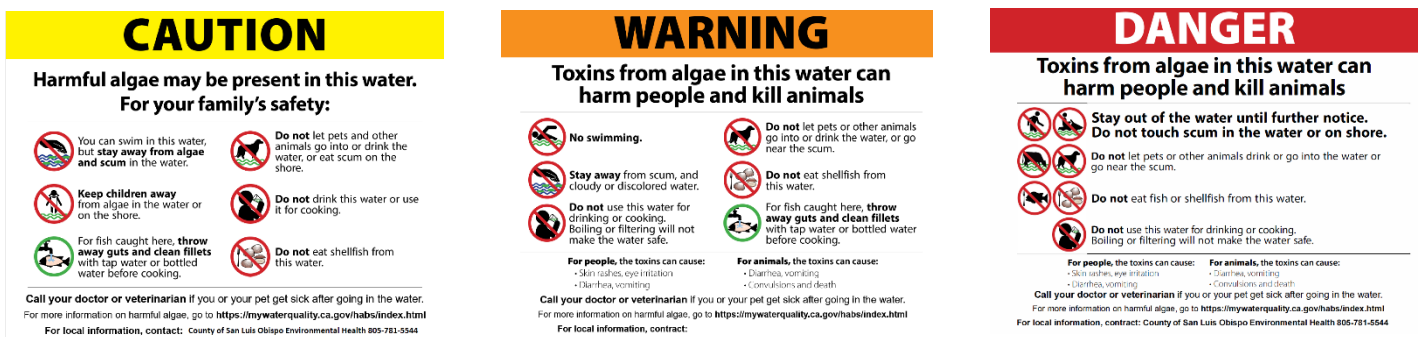


Figure 12: Algal Bloom and Toxin Signage



Figure 13: Blue-green Algal Bloom at Lopez Lake (Section H in 2016)

Finding more information on Harmful Algae Blooms (HABs)

The State has an interactive map showing which sites were tested for HABs at the following link: https://mywaterquality.ca.gov/habs/where/freshwater_events.html

During the summer months approximately 75% of the lakes and rivers are associated with a recommended advisory. For more information on HABs , please visit the link below:

https://mywaterquality.ca.gov/habs/resources/faqs_for_hab_signs.html

A satellite imagery detection map can be located at the following link: <https://fhab.sfei.org/>

Mercury Levels in Fish at Lopez Lake

In 2020 the California Office of Environmental Health Hazard Assessment (OEHHA) compared chemical levels of mercury found in fish caught at Lopez Lake to levels considered safe for human consumption. OEHHA had issued a safe eating advisory for seven fish species at Lopez Lake: Black Bass, Brown Bullhead, Crappie, Inland Silverside, Sacramento Sucker, Sunfish species and Threadfin Shad. For more information, please visit the link below:

<https://oehha.ca.gov/media/downloads/advisories/factlopezlake111020.pdf>.



Mercury is a metal found naturally in rocks and soil. It can be released into the environment from soil erosion, mining, and forest fires. Certain bacteria and chemical processes can convert mercury from the environment into a form of mercury that accumulates easily in body tissue. This form of mercury moves up the food chain until it accumulates in some fish to unsafe levels. Once fish are consumed, mercury can damage the brain and nervous system, especially in developing fetuses and children. Mercury has not been detected in the raw water or treated drinking water. The allowable limit for mercury in drinking water is two parts per billion.

For fish species found in Lopez Lake that are not included in this advisory, OEHHA recommends following the [statewide advisory for eating fish from California lakes and reservoirs without site-specific advice](#).

AGRICULTURE CROP LAND USE

Pesticide/ Herbicide

The Lopez area is known for their crops, vineyards, and farmland. Wine grapes and orchard crops are primarily grown within the 43,000-acre watershed. Pesticide usage is required to be reported to the County of San Luis Obispo Agriculture Commissioner's Office. During the past five years on average 13,500-acre average per year or about 20 percent of the watershed has pesticide usage. Over the last five years we can see a decline in the amount of pesticides being used (See Table 10). Areas of the watershed where pesticides are being used can be seen in Figure 14 and 15. Details of pesticide data can be found in Appendix C.

Table 9: Summary of Pesticides Usage 2016-2020

Summary of All Pesticide Usage 2016-2020			
Year	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
2016	15629	4409	14572
2017	14801	4711	10964
2018	14583	4665	10530
2019	11412	4105	6835
2020	10927	4357	5485
Average	13470	4449	9677
Total	67352	22247	48386

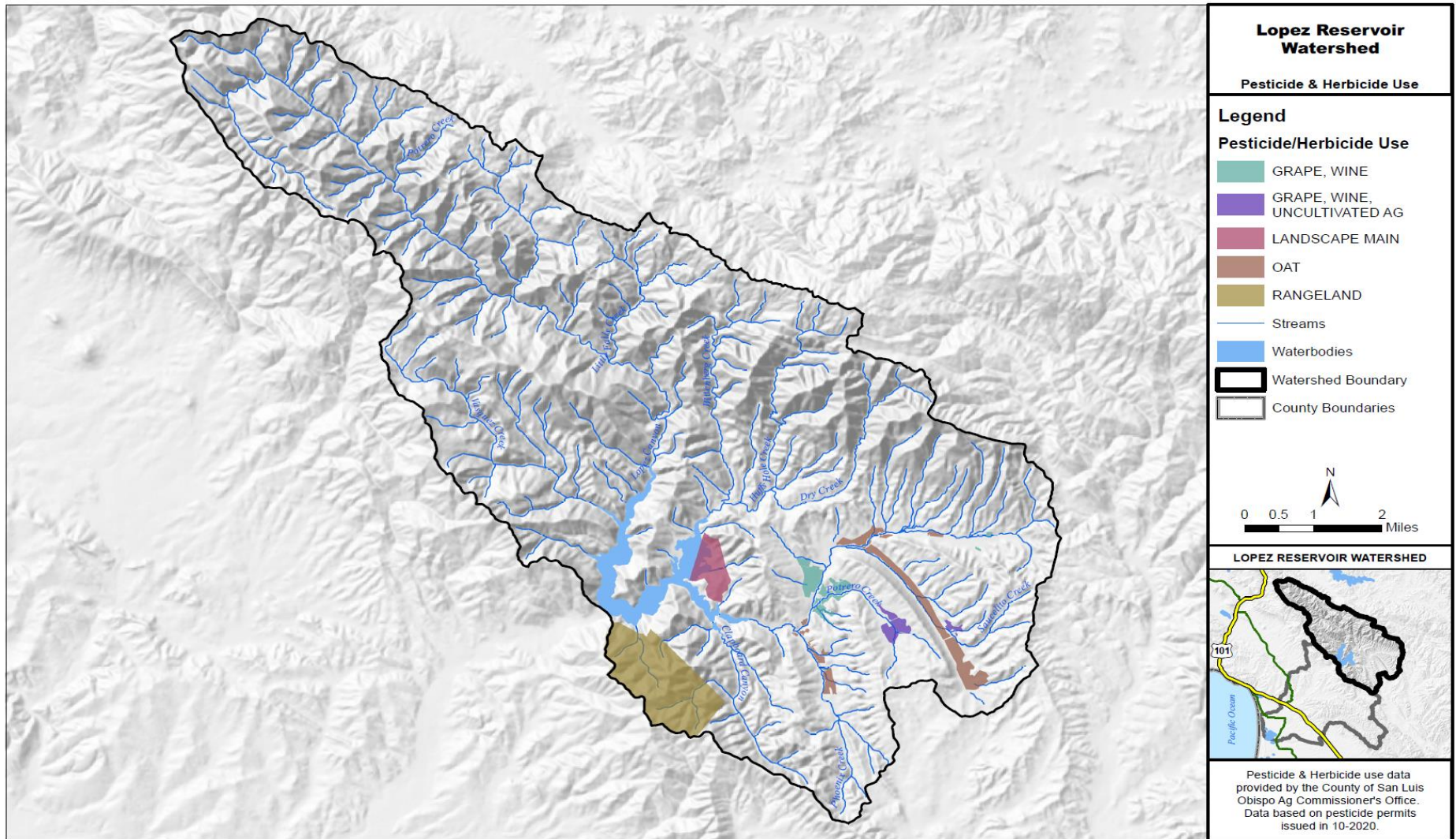


Figure 14: Lopez Reservoir Watershed- Pesticide and Herbicide Use

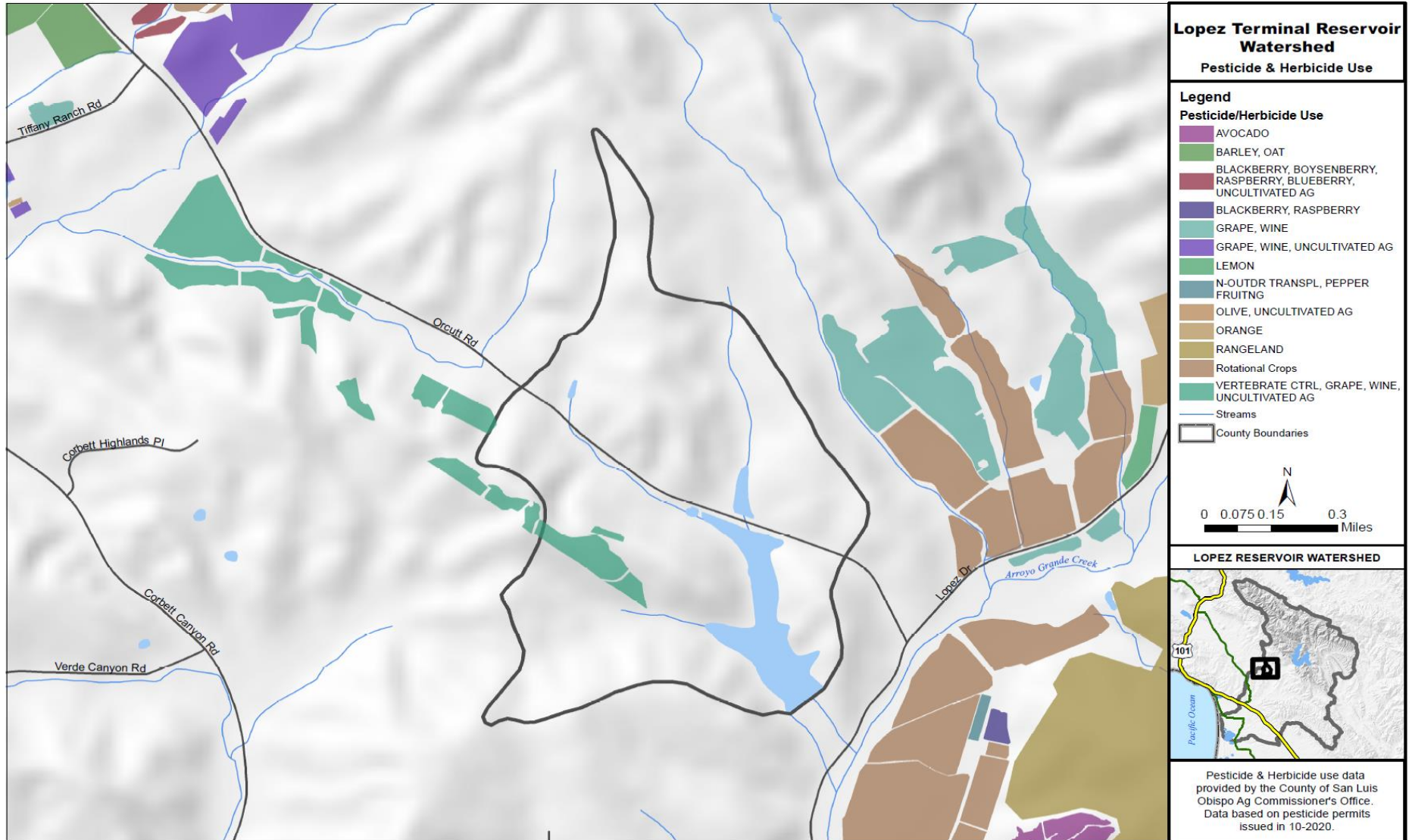


Figure 15: Lopez Terminal Reservoir Watershed- Pesticide and Herbicide Use



LAKE PROGRAMS

Invasive Mussel Prevention Program

Quagga and Zebra mussels are invasive species of bivalves that originate from the Black and Caspian Seas. Using their byssal threads, these mussels can latch onto any surface, damage boats, infrastructure and water delivery systems, and will reproduce by the millions every year. Since they were first discovered in the Great Lakes in the 1980s, these invasive mussels have “hitchhiked” their way into 29 states within the U.S., including Arizona, Nevada, Colorado, and California, all since 2005.

To help **PREVENT** the spread of Quagga and Zebra mussels to the County of San Luis Obispo’s reservoirs, officials at lakes Nacimiento, Lopez and Santa Margarita expect all boaters to comply with a **“CLEAN, DRAIN, DRY”** program. All watercraft must be **“CLEAN, DRAIN, and DRY”** upon arrival at any local lakes.

Monitoring for the presence of invasive mussels began in June 2008 and is ongoing. Park Rangers and onsite staff are trained to inspect vessel for aquatic invasive mussels. Lab staff check substrates monthly for invasive mussels. Substrates are located at the lakes Marina, fishing dock and log boom. Quagga and Zebra Mussels will attach to any surface with their byssal threads. Prevention is in important not only for the lakes infrastructure but to the public and economy too. The County of San Luis Obispo has a State approved mussel prevention program.

To find out more about mussel prevention and how to help stop the spread please visit the following link: <https://www.usgs.gov/ecosystems/invasive-species-program/maps>

For most updated map of infested California lakes scan the QR code below:



No suspicious organisms or evidence of their existence in the reservoir or watershed has been observed since monitoring began.



SANITARY SURVEY UPDATE

Summary of Findings

This watershed sanitary survey update covers the period from January 2016 through December 2020. There have been no significant changes to the watershed during this period. District staff performed field evaluations of Lopez Terminal, Lopez Lake, and corresponding watershed throughout this period. The overall condition of the watershed has not changed except for the depletion of the water supply.

There is continued agricultural activity, including various crops, vineyards, cattle and horses in the Arroyo Grande arm of the Lopez Lake watershed. Increases in these activities or increases in population density have the potential for adversely impacting water quality in the watershed. Significant increases are unlikely with the present zoning regulations. (Planning Department Rural Land Use Category and Rural Combining Designation Maps are included in Appendix A.)

Horse corrals border one section of Wittenberg Creek Arm arm upstream from the reservoir. This could decrease water quality if corrals are not properly maintained. A large increase in human population here seems unlikely due to zoning regulations and topography. It is worth noting that there has been very little change in total coliform and *E. coli* mean and median MPN values for Whittenberg Creek Arm and Lopez Creeks during the period of this survey with the existing agricultural activity.

During the last months of 2016 (before the rainy season) Lopez Lake elevation was at a historical low. The low lake level can be seen in Figures 16 through 18. July 2016, boats were not able to launch at Lopez Lake. This highly effected the lake usage and fishing capability. During this time, we saw a lot of wildlife and new plant growth on the lakebed where there was once water. In section D, which use to be the swimming area, you could see a cement pathway that looked like an old road. The drought also affected the lake's watershed, seen In Figure 19, (Arroyo Grande Creek). Luckily in late 2016 and early 2017 we had heavy rain that helped with lake levels. However, with a fast-rising lake, came debris and turbid water. Debris can be seen in the picture in Figure 32.



Figure 16: Lopez Lake Ramp in Section B- During 2016 Drought



Figure 17: Lopez Lake Ranger Boat House- During 2016 Drought



Figure 18: Lopez Lake Section B Dry



Figure 19: Stagnant water can be seen at a non-flowing Arroyo Grande Creek

The sewage collection facility within the Lopez Recreation Area is still considered to be the biggest threat to the watershed. The Lopez Recreation Area sewer system is now operated by a subcontractor hired by the County Parks and Recreation Department. The facility is regularly inspected and maintained, mitigating the potential for a contaminating event. Keeping the sludge ponds closest to the creek and lake out of service also helps mitigate this threat. All sludge waste is shipped out of the watershed. The force sewer main crossing over Wittenberg Creek Arm and the sewage disposal area continues to be inspected routinely (Figure 21). The force sewer main piping has some evidence of rust on the outer layer (Figure 22). Although sewer overflows were reported during the period of this survey (Figure 20), no sewage entered Lopez Lake or any surface water within the watershed. For more information, see link below.

https://www.waterboards.ca.gov/water_issues/programs/sso/sso_map/sso_pub.shtml

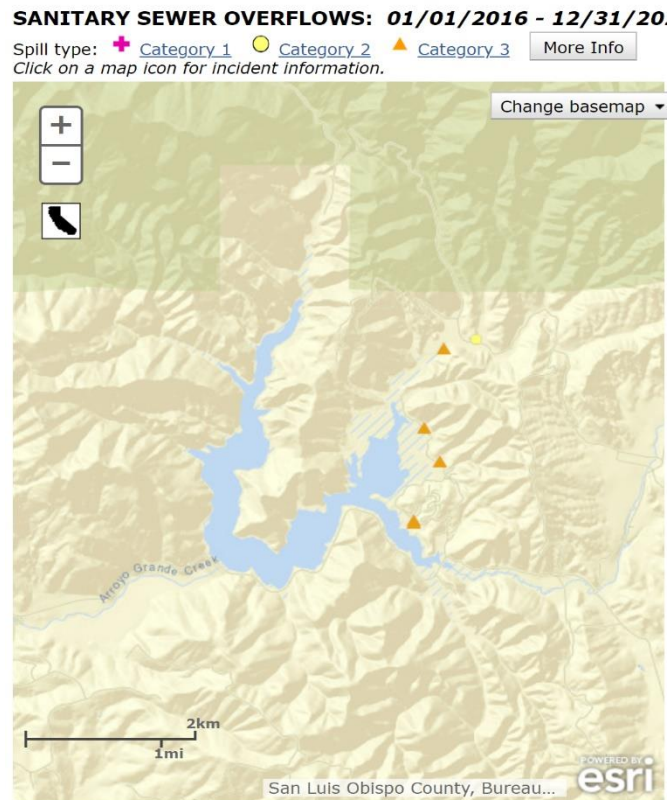


Figure 20: Reported Lopez Recreation Area Sewer Spills



Figure 21: Sewer Force Main Over Wittenberg Creek Arm of Lopez Lake



Figure 22: Sewer Force Main Wear or Corrosion

Quarterly all four wastewater percolation Ponds are inspected by County Staff (Figures 23 and 24). The ponds are located on the back side of Lopez Lake across from Wittenberg Creek Arm.



Figure 23: Wastewater Percolation Pond



Figure 24: Dry Percolation Pond

As stated in the previous survey, and as shown in Figure 25, the Terminal Reservoir watershed boundary was updated based on a visual inspection. The red line represents the watershed boundary. A diversion channel surrounds most of the Terminal Reservoir and reduces the threat of contamination from agriculture, grazing animals, and the private homes that surround the terminal (Figure 26 and 27). A small section at the south east corner of the watershed, east of Orcutt Road, is not protected by the diversion channel. Following sustained heavy rains, this section has the potential for draining onto Orcutt Road. Orcutt Road drainage continues to be a potential problem, with runoff making its way into the Terminal Reservoir.

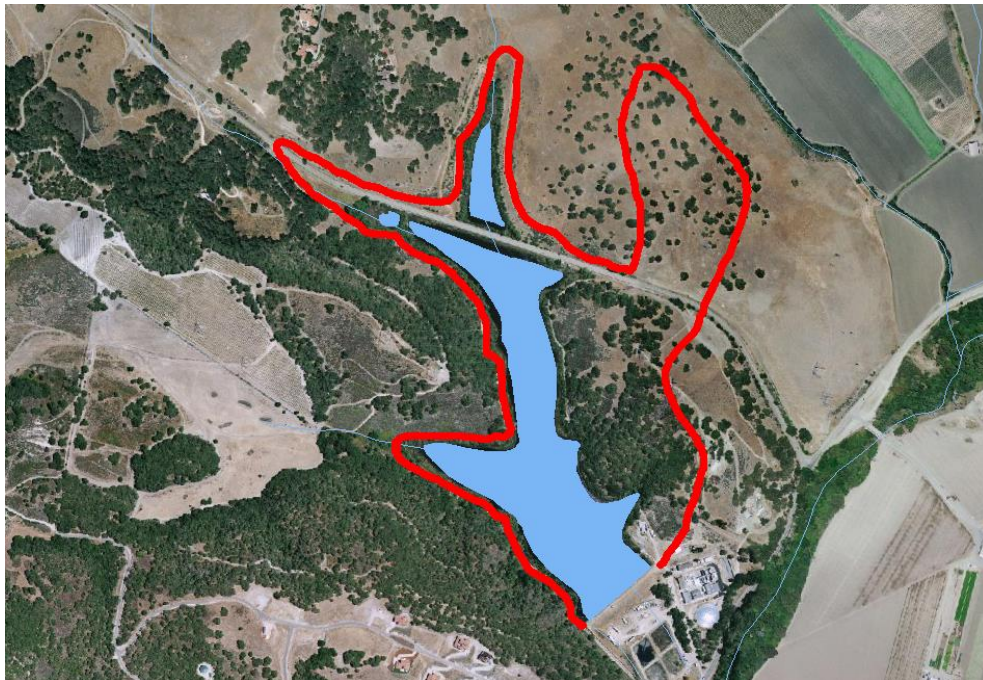


Figure 25: Lopez Terminal Reservoir Watershed Boundary



Figure 26: Diversion Channel



Figure 27: Terminal Reservoir Watershed Section Not Protected by Diversion Channel

Access to the treatment facility is via a passcode controlled locked gate which is monitored during working hours. All visitors are required to check-in at the office. Access via private property adjacent to the treatment facility is not permitted. The most visible portions of the Terminal Reservoir watershed are protected by chain-link fencing with a barbed wire top. Barbed wire fencing surrounds the remainder of the watershed. Although fencing will not keep out a determined intruder, extending the chain-link fencing with the barbed wire top around the entire Terminal Reservoir watershed has helped to deter trespassing from casual intruders. The District provided housing at the Water Treatment Plant for two employees enhances watershed security during non-working hours. See fencing in figures 28 through 30.



Figure 28: Key Pad coded lock to get into Lopez Terminal and WTP



Figure 29: Terminal Reservoir Chain-link fencing with Barbed Wire Top.



Figure 30: Locked gate at Intake structure.

Lopez Lake delivers water to the terminal through an intake infrastructure located in section F. To insure the best water quality is being delivered to Lopez Terminal, lab personnel continue to take field measurements monthly/weekly. Samples are also taken at Influent to Terminal and Influent to Plant weekly. The Log boom is used to protect the intake structure from recreational user and large debris. Seen in Figure 31 through 32 is the log boom and debris that could potentially impact the delivery or release of water from the intake Lopez's intake structure can be seen in Figure 33.



Figure 31: Lopez Lake Log Boom and Intake Building



Figure 32: Debris after Rain Event



Figure 33: Lopez Lake Intake Structure



Sanitary Survey Recommendations

Recommendation 1 - Potential Hazardous Spills

The ability to bypass the Terminal Reservoir could provide a quick, workable solution if a hazardous materials spill occurred on Orcutt Road. The 18" bypass was pressure tested and visually inspected in 2019 and determined to be in good condition. The ability to bypass the terminal reservoir seems feasible. The Health and Safety code prohibits direct use of any reservoir water stored for domestic use that has had body contact (from swimming, water skiing, etc). Legislative change at the State level would be required in order to use water directly from Lopez Lake at the Lopez WTP. Continue to evaluate the options of diverting Orcutt Road drainage away from the Terminal Reservoir in case of a hazardous materials transportation spill.

Recommendation 2 - Terminal Reservoir Watershed Security

Consider the purchase of adjacent property east of the treatment facilities. Acquiring the property would improve watershed security and provide easier access to the District's "Domestic Tank" which stores potable water for the site.

Recommendation 3:

Investigate further treatment options, and vendors, to help combat odor issues when there is a presence of MIB and geosmin.

Recommendation 4:

The District should continue to make efforts to limit the amount of grazing in and around the watershed areas, including Lopez Terminal Reservoir and Lopez Lake.

Recommendation 5:

Continue to add fencing around the Terminal Reservoir watershed as needed, especially in areas not visible from the treatment plant site.

Recommendation 6:

Monthly samples should continue to be tested at all organized swimming beaches in the Lopez Lake Recreation Area.

Recommendation 7:

The scope of the inflow creek sampling program should be maintained and/or expanded in terms of scope and frequency



Recommendation 8:

Develop a public education brochure or newsletter that is sent out to residents or given to visitors of Lopez Lake and watershed areas. This educational handout will include information about how to protect the watershed and lake from items such as: wildfire, nutrient overload, and invasive species.

Recommendation 9:

Add bromide monitoring to the Influent to Terminal and Influent to Plant and bromate monitoring to delivered water monthly for possible future ozone treatment.

Recommendation 10:

Add Enterococcus monitoring in the swim area (Section D) or Section C monthly at Lopez Lake and Influent to Terminal weekly.

Water Quality Monitoring Program

The following sample matrix summarizes suggested sampling for the Lopez Project watersheds (See Table 10).

Table 10: Water Quality Monitoring Matrix-System Compliance with New and Future

W = Weekly sampling; M = Monthly sampling; W/M = Weekly or monthly sampling based on the season; Q = Quarterly sampling; A = Annual sampling; 3 = Sampling every 3 years; 9 = Sampling every 9 years; FD = following toxin detection in Terminal

Site	Site Location	Bacteriological	Physical	Limnology	Algal Toxins	General Mineral	Aluminum/Arsenic	Inorganic	Nutrients	VOC	SOC	TOC	Br	Enterococcus	Giardia Cryptosporidium
Lake	Creeks	Q	Q	----	----	Q	Q	A	Q	3	9	----	----	Q	A
	Section C	M	----	----	----	----	----	----	----	----	----	----	----	M	----
	Intakes	----	W/M	W/M	FD- Intake in use	----	----	----	----	----	----	----	----	----	----
Terminal and Treatment Plant	Influent to Terminal	W	W	----	----	Q	M	A	M	3	9	M	M	W	A
	Influent to Plant	W	W	W	FD	Q	M	A	M	3	9	M	M	----	A
	LWTP Treated	W	W	----	FD	Q	M	A	----	3	9	----	----	----	A



SYSTEM COMPLIANCE WITH NEW AND FUTURE REGULATIONS

Long Term 2 Enhanced Surface Water Treatment Rule

The Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR) applies to all systems that use surface or ground water under the direct influence of surface water. This rule supplements other existing regulations by targeting *Cryptosporidium* and other pathogenic microorganisms in drinking water. Since all historical testing has not detected any *Cryptosporidium* in the Raw or Treated water, Lopez Project is classified in the lowest risk category, which carries no additional treatment requirement. Beginning in October of 2015, samples were collected on a monthly basis for cryptosporidium as part of the LT2ESWTR. Sampling was completed in 2017. All samples have been found to be non-detect. Lopez Project will continue monitor *Cryptosporidium* and other pathogenic microorganisms. The Lopez Project has fully complied with the LT2ESWTR.

Per- and polyfluoroalkyl substances (PFAS) Information

Drinking water containing perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS) – and the larger family of per- and polyfluoroalkyl substances (PFAS) – has become an increasing concern due to the persistence of these chemicals in the environment and their tendency to accumulate in groundwater. Per- and polyfluoroalkyl substances (PFAS) are a group of man-made chemicals used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water.⁴

PFAS have been manufactured and used in a variety of industries around the globe, including in the United States since the 1940s. The most extensively produced and studied PFAS chemicals are per-fluoro-octane sulfonic acid (PFOS), perfluorooctanoic acid (PFOA), and perfluorobutane sulfonic acid (PFBS). These chemicals are very persistent in the environment and in the human body – meaning they don't break down and they can accumulate over time.

Although no longer manufactured in the United States, they are still produced internationally and can be imported into the United States in consumer goods such as carpet, leather and apparel, textiles, paper and packaging, coatings, rubber and plastics. PFAS can be found in:

- Food packaged in PFAS-containing materials, processed with equipment that used PFAS, or grown in PFAS-contaminated soil or water.

⁴ https://www.waterboards.ca.gov/publications_forms/publications/factsheets/docs/pfoa_pfos_guidelines_faq_factsheet.pdf



- Commercial household products, including stain- and water-repellent fabrics, nonstick products (e.g., Teflon), polishes, waxes, paints, cleaning products, and fire-fighting foams (a major source of groundwater contamination at airports and military bases where firefighting training occurs).
- Workplace, including production facilities or industries (e.g., chrome plating, electronics manufacturing or oil recovery) that use PFAS.
- Drinking water, typically localized and associated with a specific facility (e.g., manufacturer, landfill, wastewater treatment plant, firefighter training facility).
- Living organisms, including fish, animals and humans, where PFAS have the ability to build up and persist over time.

There is evidence that exposure to PFAS can lead to adverse health outcomes in humans. Studies indicate that PFOA and PFOS can cause reproductive and developmental, liver and kidney, and immunological effects in laboratory animals. Both chemicals have caused tumors in animals. The most consistent findings are increased cholesterol levels among exposed populations, with more limited findings related to:

- low infant birth weights,
- effects on the immune system,
- cancer (for PFOA), and
- thyroid hormone disruption (for PFOS and PFBS).

Many chemicals in this group have been a concern because they do not break down in the environment, can move through soils and contaminate drinking water sources, and they build up (bioaccumulate) in fish and wildlife. PFAS have been found in rivers and lakes and in many types of animals on land and in the water.

While toxicity studies have raised important concerns, there is still much we do not know about the effects of PFAS on human health and the environment. Out of the hundreds of known PFAS compounds, only a small number have been studied extensively. We do not know how much PFAS exposure is safe for humans or whether there are important differences in toxicity between different PFAS compounds. And we do not fully understand how PFAS compounds break down in the environment over time and how they travel.⁵

In August 2019, the California State Water Resources Control Board (State Water Board), Division of Drinking Water (DDW) established notification levels (NL) for perfluorooctane

⁵ Monitoring Monday – Let's look at PFAS; State Water Resource Control Board, March 2021



sulfonate (PFOS) at **6.5 parts per trillion (ppt)** and perfluorooctanoic acid (PFOA) at **5.1 ppt**. In March 2021, DDW established a NL of **500 ppt** for perfluorobutane sulfonic acid (PFBS).

Notification levels are nonregulatory, health-based advisory levels established for contaminants in drinking water for which maximum contaminant levels have not been established. Notification levels are established as precautionary measures for contaminants that may be considered candidates for establishment of maximum contaminant levels but have not yet undergone or completed the regulatory standard setting process prescribed for the development of maximum contaminant levels and are not drinking water standards.

A response level has also been established for these analytes. A response level (RL) is set higher than a notification level and represents a recommended chemical concentration level at which water systems consider taking a water source out of service or provide treatment if that option is available to them. Starting in January 2020, water systems that receive an order and detect levels of PFAS substances that exceed their response level, shall take a water source out of use, treat the water delivered, or provide public notification (See Table 11).

Table 11: PFAS Notification Limit Table

Analyte	Notification Level, ng/L	Response Level, ng/L (running four quarter average)
PFBS	500	5000
PFOA	5.1	10
PFOS	6.5	40

Not all public water system's are required to test for PFAS. A public water system may have received an order because it may be at risk for potential contamination by PFAS due to its proximity to adjacent facilities known to use, produce, or store PFAS or because of proximity to a public water system whose water supply is contaminated by PFAS. A list of public water systems and sources that are required to be sampled are located at the link below. The State Water Resources Control Board, Division of Water Quality information can be found at:

https://www.waterboards.ca.gov/water_issues/programs/pfas/⁶

At this time, Lopez Project is not required to test for PFAS substances.

⁶ State Water Resources Control Board Per- and Poly-fluoroalkyl Substances (PFAS) Water Monitoring Fact Sheet, https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/documents/pfos_and_pfoa/pfas%20faq_final.pdf



ADDITIONAL RESOURCES:

[A guide to the PFAS found in our environment:](#) Chemical structures and origins of per- and polyfluoroalkyl substances that are polluting our world.

www.waterboards.ca.gov/pfas/

- www.waterboards.ca.gov/pfas/drinking_water.html
- www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/PFOA_PFOS.html
- www.waterboards.ca.gov/pfas/non_drinking_water.html
- [Per- and Polyfluoroalkyl Substances \(PFAS\) Sampling Guidelines for Non-Drinking Water](#)

SECURITY OF WATERSHED AND TREATMENT FACILITIES

A security and vulnerability assessment has been completed for the system. The County is a member of the Water ISAC Water Security Network.

The Lopez Terminal Reservoir and Water Treatment Plant facility are entirely fenced with chain-linked or barbed wire fencing. “No trespassing” signs are prominently posted around the facility. The remoteness of the treatment facility and the housing of two District employees at the site enhance security.

Access to the Lopez Water Treatment Plant is controlled by a locked entrance gate. All visitors are required to sign-in at the plant’s main office.

Other than an occasional fisherman, trespassing in the Lopez Terminal watershed has not been a problem. When trespassers are encountered, they are asked to leave. If they refuse or are problematic in any way, the County of San Luis Obispo Sheriff Department is notified and asked to respond.

Overall the security of the Lopez Lake, Terminal Reservoir, and treatment facilities are good. New fencing around sections of the Terminal Reservoir has improved site security.

DESCRIPTION OF WATERSHED CONTROL AND MANAGEMENT PRACTICES

The following summarizes watershed control and management practices currently used.

- The Lopez Lake Recreation Area is inspected no less than weekly and an “Inspection of Domestic Water Reservoir Facilities” report is submitted monthly to the California Department of Public Health.
- The Terminal Reservoir provides 30 to 45 days of detention time (The Terminal allows for sedimentation and “solar/UV” disinfection prior to treatment.).
- All the grazing permits for areas adjoining the Lopez Lake were revoked.



- The wastewater plant is located at the opposite end of the lake from the intake structure.
- The wastewater plant effluent percolation pond disposal area is remote (>1/2 mile) from lake and intake structure (~3 miles).
- The District has an established water quality monitoring program for the Lopez Lake and Terminal Reservoir watersheds.
- The closed/restricted zone at the Lopez Lake intake area includes posted buoys and a cable log boom.
- Public access to Lopez Lake is controlled and routed through the main gate of the park.
- The Lopez Terminal Reservoir is fenced and posted.
- No public access is allowed to the Terminal Reservoir.
- SLO County Parks (General Services) and Utilities (Public Works) oversee lake management.
- There are an adequate number of Parks and Utilities personnel for management of the watershed.
- Significant portions of the watershed are designated wilderness areas, with associated use restrictions.
- Boating on Lopez Lake is only allowed when the lake is patrolled.
- Fueling facilities are located off the lake and have acceptable secondary containment precautions.
- No fuel storage is allowed on Lopez Lake or the Terminal Reservoir.
- No floating facilities requiring sewage disposal are permitted.
- Patrol personnel enforce California Harbor and Navigation Code as well as local regulations.
- Fish cleaning facilities with adequate water supply and disposal systems provided and are set back at least 100 feet from the lake. No overflow from the facilities into the lake is allowed.
- Swimming facilities are located down-wind of the intake structure, at the opposite end of the lake.
- Toilets are conveniently located and properly maintained.
- Toilets are emptied or cleaned daily in developed areas.
- Toilets are set back at least 200 feet from the high water line.
- Chemical toilets are seasonally available and located at least 50' from the water line.
- Hook-ups are provided for trailers, campers, etc.
- A sewage dump station is provided at Lopez Lake.
- There are no septic tanks around Lopez Lake.
- Septic tanks for facilities near Lopez Terminal are located remotely and "downstream" of the Terminal Reservoir.
- Sewers and appurtenances are located above the Lopez Lake high water mark.



- Sewage facilities are alarmed and designed to prevent overflow.
- The waterslide facility at Lopez Lake is properly operated and does not drain into the lake.
- Sewer force mains are designed to be fail-safe.
- Emergency storage and standby power is available.
- The sewer system is operated and maintained by trained and experienced staff of Fluid Resource Management.
- Treatment plant operators are on-call and available 24 hours/day.
- Wastewater effluent disposal to Lopez Lake is prohibited.
- Surface drainage is diverted from the sewage treatment and disposal facilities.
- A surface drainage diversion culvert is located around the Terminal Reservoir (except for Orcutt Road).
- Dumping of refuse into the water or along shoreline is prohibited. Acceptable refuse containers are located conveniently around Lopez Lake. Containers are anchored as needed and are routinely inspected and emptied. Refuse is properly transported and disposed.
- Equestrian corrals, stables, staging areas at Lopez Lake are located at the opposite end from the intake structure.
- Storm water drainage from stables or corral areas is prevented from entering the reservoir as much as is feasible.
- There is an emergency plan for handling actual or threatened water contamination.
- The public is notified (posted) that terminal is a drinking water reservoir. Lake users are informed that lake is ultimately a drinking water supply for South County residents.
- The County Agriculture Department issues pesticide use permits for pesticide use in the watershed.
- The County maintains an Aquatic Invasive Mussel Monitoring and Prevention Program



CONCLUSION

Overall, the condition of the watersheds remains very good.

Wastewater contamination, animal grazing, recreational activities, pesticide/herbicide usage, fires, earthquakes, and landslides continue to represent the most significant potential sources of contamination in the Lopez Lake watershed. Monitoring of the watershed should be continued with particular attention paid to Lopez Creek (with the greatest flow) and Arroyo Grande Creek (with the greatest potential for contaminating activities).

Continued attention should be placed on mitigating the potential impact of a hazardous material spill on Orcutt Road. Recognizing that conveying drainage from Orcutt Road to an unlined pond outside the Terminal Reservoir watershed remains cost prohibitive.

Given the potential for algal toxins and the taste and odor problems associated with algal blooms, reducing the occurrence and magnitude of algal blooms should remain a priority. This is especially true for the Lopez Terminal Reservoir. Prevention or reduction of blooms by non-algaecide methods is preferable.



REFERENCES

AWWA, December 1993. Watershed Sanitary Survey Guidance Manual

Boyle Engineering Corporation, December 1995. Lopez Lake and Terminal Reservoir Sanitary Survey

Boyle Engineering Corporation, March 2001. Lopez Lake and Terminal Reservoir Sanitary Survey Update

Boyle Engineering Corporation, July 2001. Drinking Water Source Assessment for Lopez Lake and Terminal Reservoir

County of San Luis Obispo Department of Public Works, January 2006, Lopez Lake and Terminal Reservoir Watershed Survey Update

EPA, September 2006. Proposed Long Term 2 Enhanced Surface Water Treatment Rule fact sheet

EPA, December 2005. Proposed Stage 2 Disinfectants and Disinfection Byproducts Rule fact sheet

EPA, October 2009. Fact Sheet: The Drinking Water Contaminant Candidate List – The Source of Priority Contaminants for the Drinking Water Program

North Carolina State University (NCSU) Water Quality Group, WATERSHEDSS (WATER, Soil, and Hydro- Environmental Decision Support System), www.water.ncsu.edu/watershedss

S.R. Carpenter, N.F. Caraco, D.L. Correll, R.W. Howarth, A.N. Sharpley, V.H. Smith, "Nonpoint pollution of surface waters with phosphorus and nitrogen", *Ecol. Appl.*, 8 (1998), pp. 559-

Thomas, Lewis, *Science Findings*, "Following a River Wherever it Goes: Beneath the Surface of Mountain Streams", 66, October 2004



Appendices

Appendix A1: Aerial Photograph of Lopez Lake



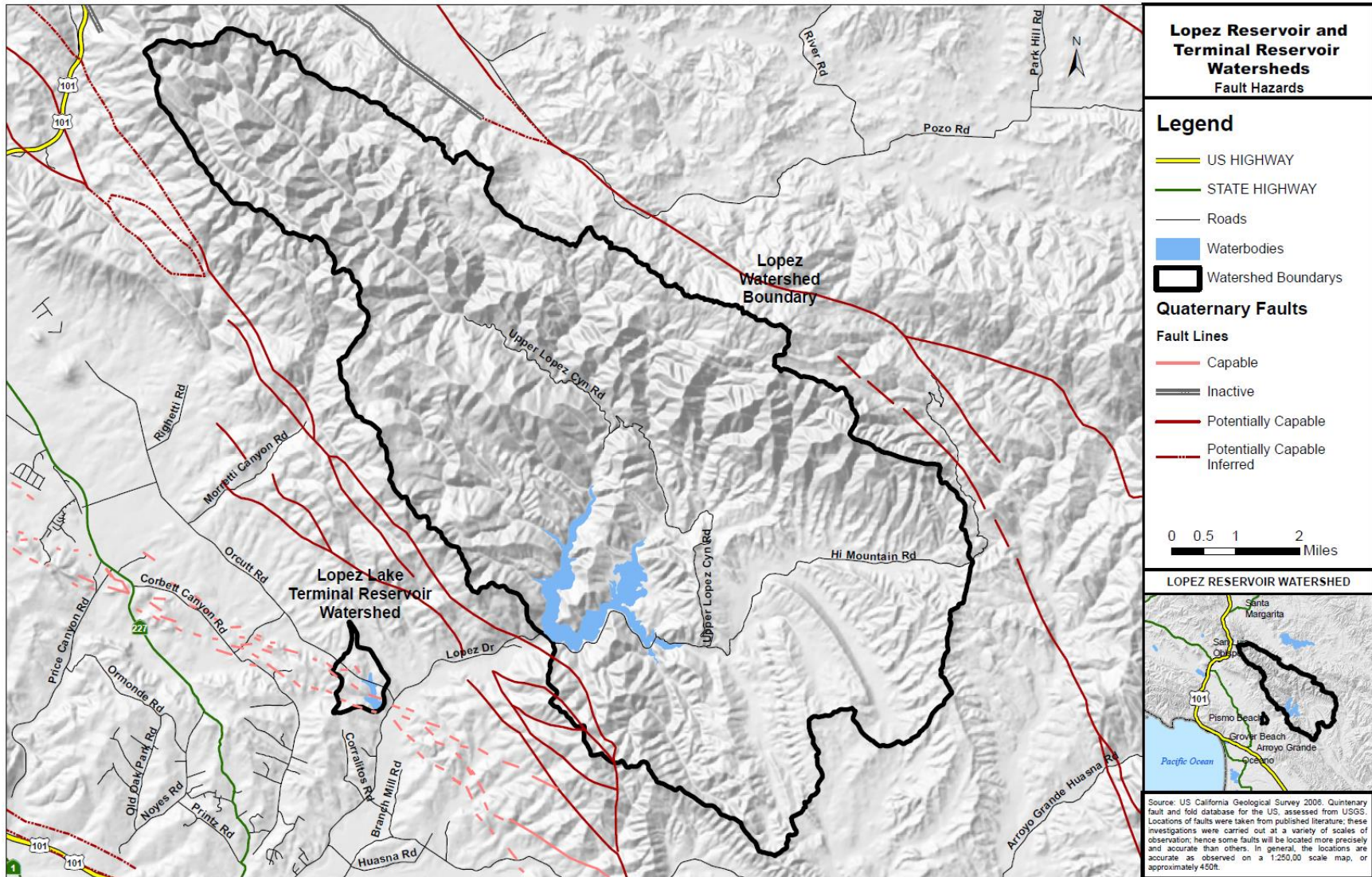


Appendix A2: Aerial Photograph of Lopez Terminal



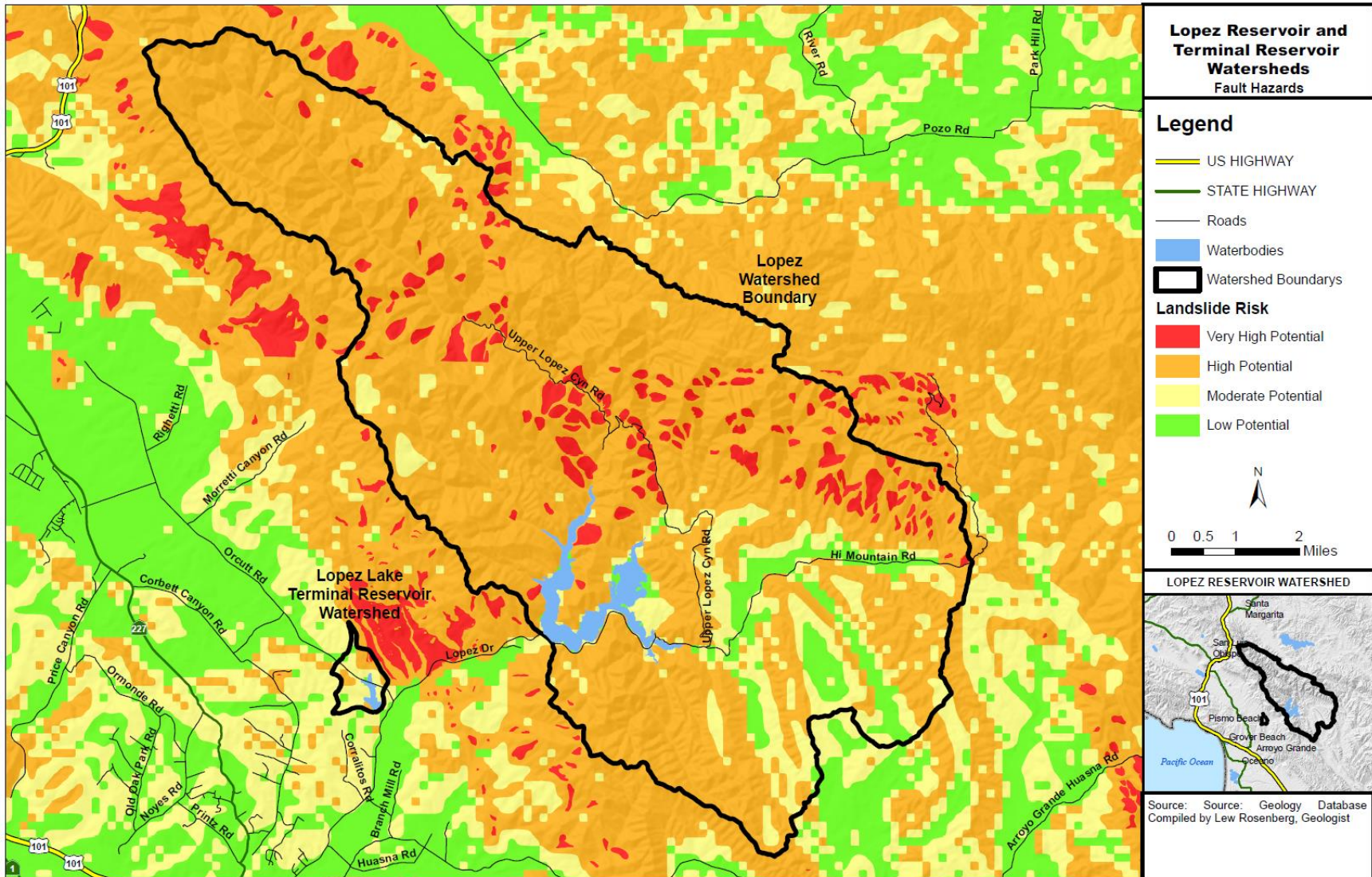


Appendix A3: Fault Hazards, County of San Luis Obispo



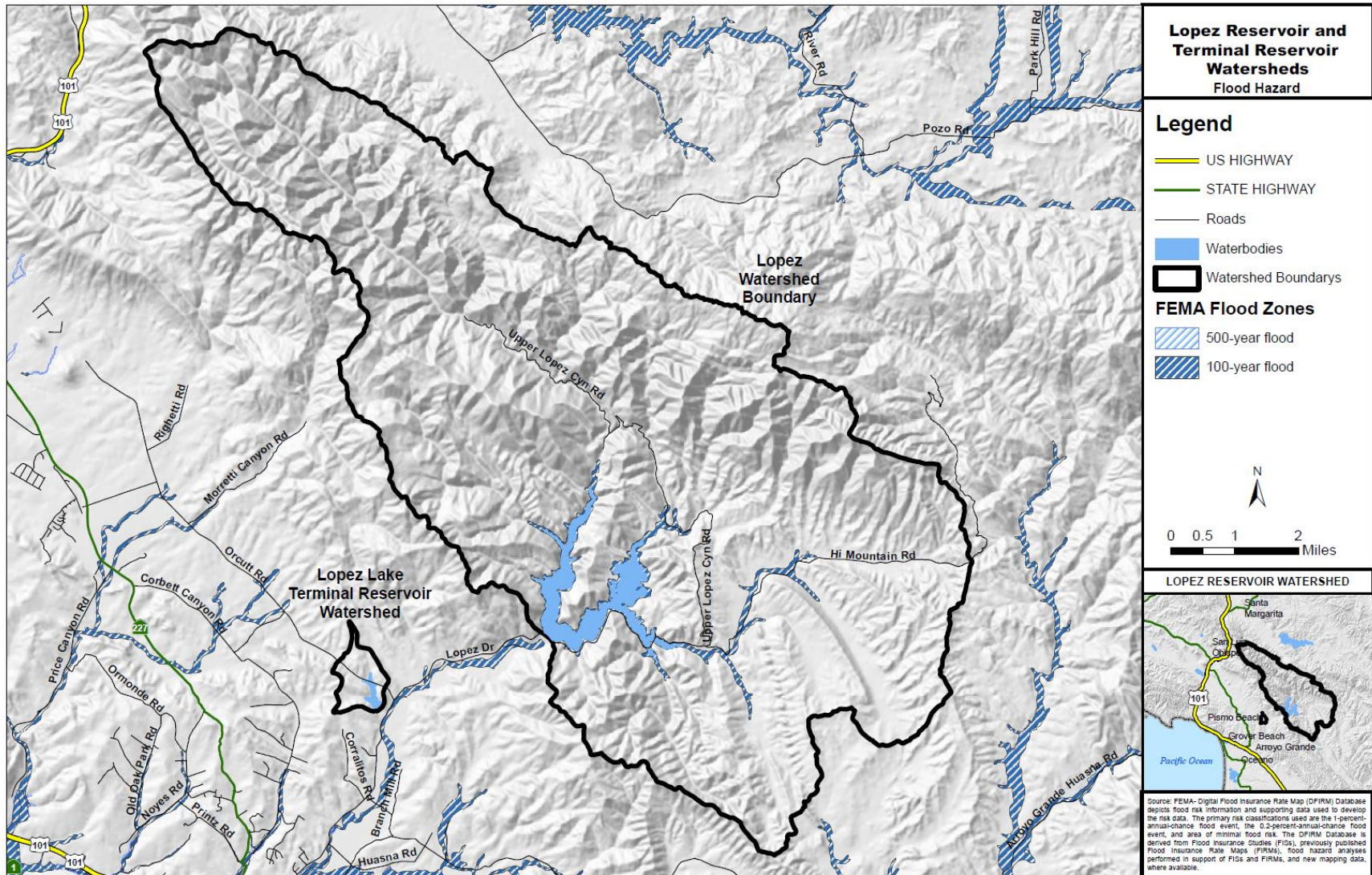


Appendix A4: Landslide Hazards, County of San Luis Obispo



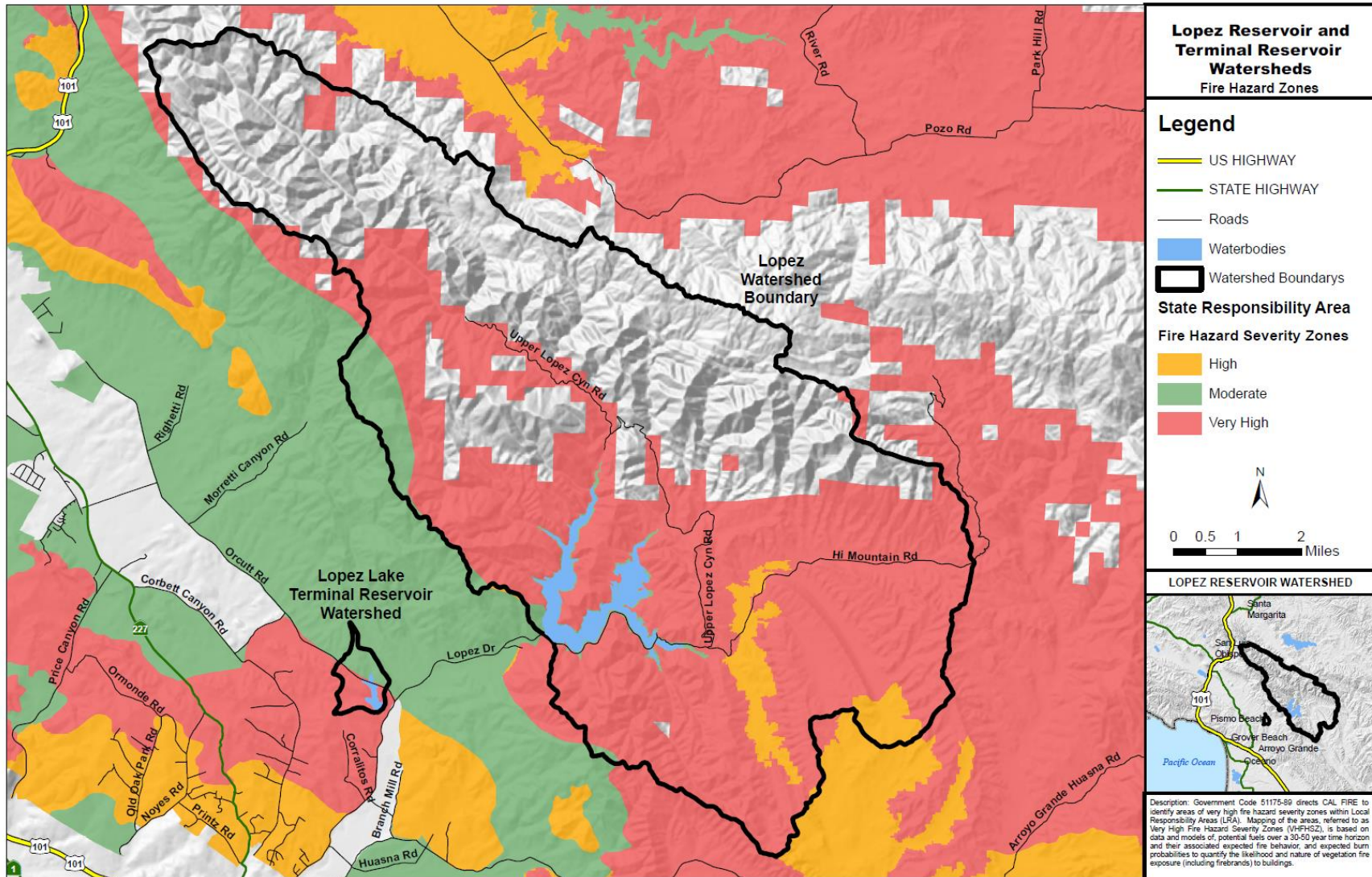


Appendix A5: Flood Hazards, County of San Luis Obispo



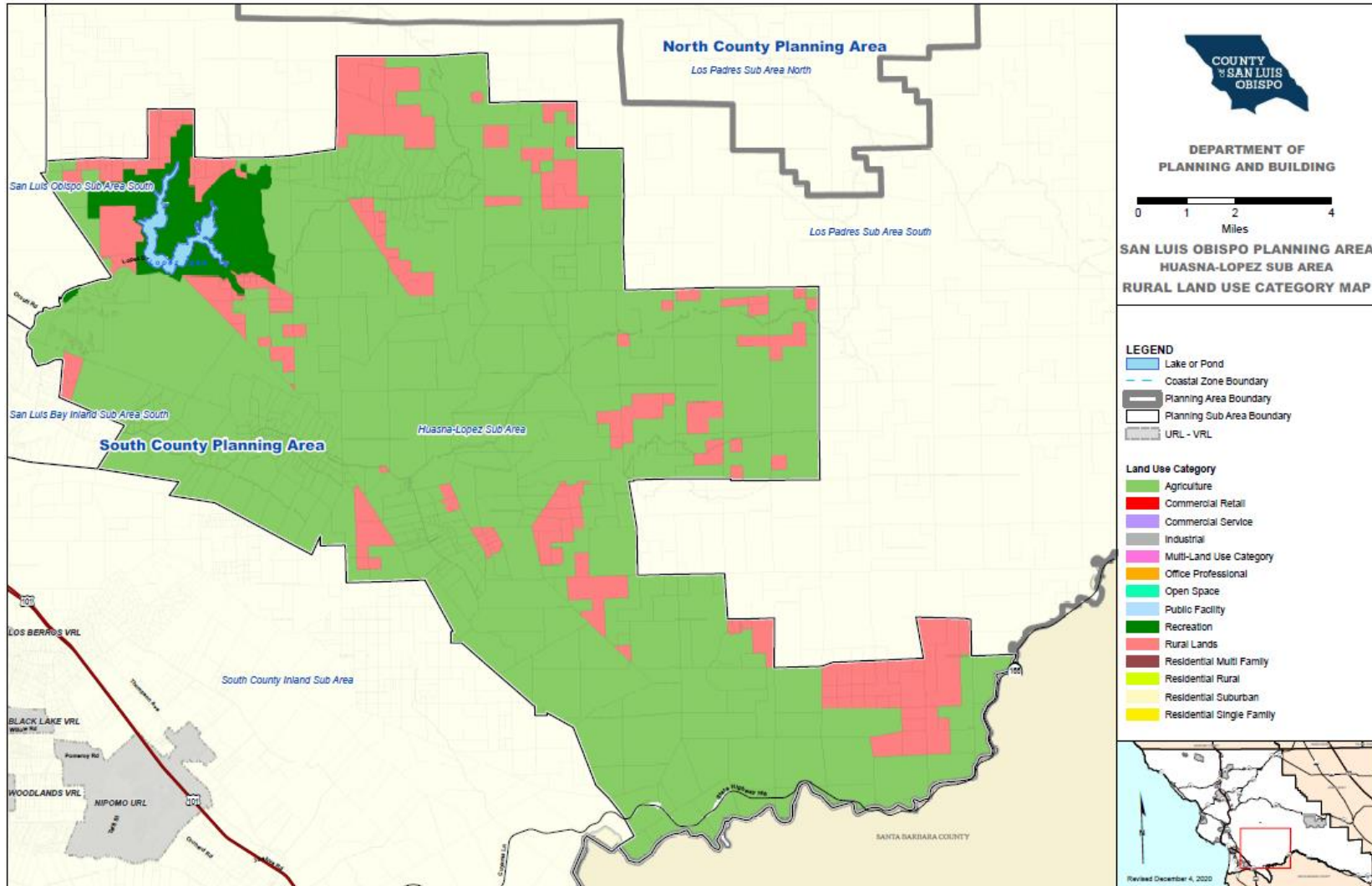


Appendix A6: Fire Hazard Zone, County of San Luis Obispo



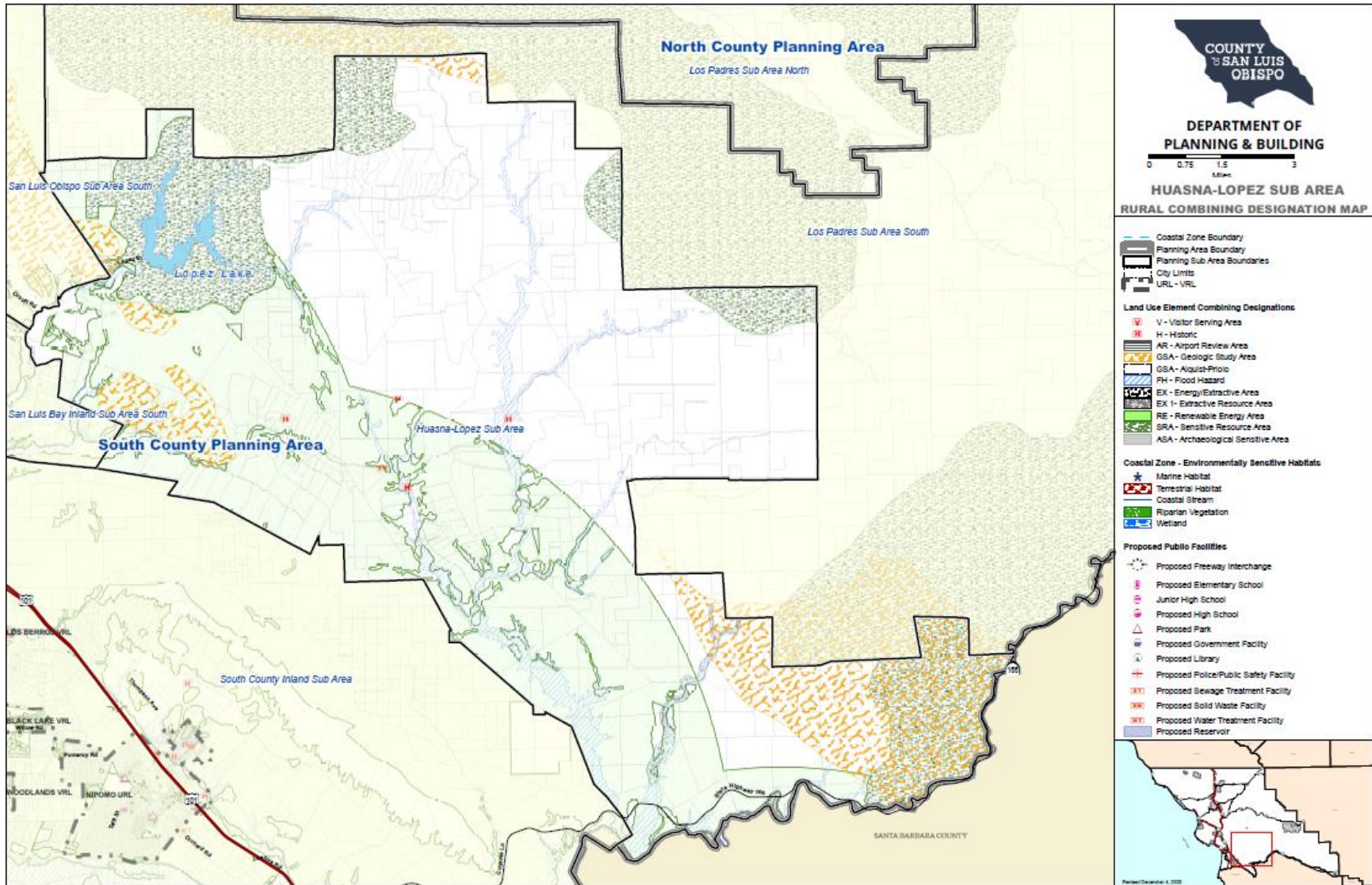


Appendix A7: Rural Land Use, County of San Luis Obispo





Appendix A8: Rural Combining Designation, County of San Luis Obispo





Appendix B1 Bact Data: Arroyo Grande Creek

Appendix B Bact Data: Arroyo Grande Creek				
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)	Cryptosporidium (Oocyst/L)	<i>Giardia</i> (Cysts/L)
2/9/2016	920	43	ND	ND
5/23/2016	16000	120	----	----
8/10/2016	7700	390	----	----
11/9/2016	2400	190	----	----
2/14/2017	4100	35	ND	2
5/23/2017	1700	220	----	----
8/15/2017	10000	440	----	----
11/15/2017	2400	460	----	----
2/27/2018	2000	1600	0.2	ND
5/2/2018	4900	310	----	----
2/20/2019	1000	56	----	----
2/22/2019	----	----	0.2	1
5/1/2019	2800	140	----	----
8/7/2019	7700	1000	----	----
11/19/2019	2000	610	----	----
2/4/2020	1300	310	----	----
Minimum	920	35	ND	ND
Maximum	16000	1600	0.2	2
Average	4461	395	0	2
Median	2400	310	0.2	1.5
n	15	15	4	4

ND=Not Detected



Appendix B1 Bact Data: Clapboard Canyon Creek Arm

Appendix B Bact Data: Clapboard Canyon Creek Arm				
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)	Cryptosporidium (Oocyst/L)	<i>Giardia</i> (Cysts/L)
2/14/2017	2900	3	ND	ND
8/15/2017	24000	120	----	----
Minimum	2900	3	ND	ND
Maximum	24000	120	ND	ND
Average	13450	62	0	0
Median	13450	61.5	0	0
n	2	2	1	1

ND=Not Detected



Appendix B1 Bact Data: Influent to Terminal

Appendix B Bact Data: Influent to Terminal		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
1/4/2016	26	<1
1/20/2016	32	2
1/25/2016	1200	<1
2/1/2016	5000	<1
2/22/2016	1700	<1
2/29/2016	1400	1
3/7/2016	240	1
3/21/2016	150	1
3/28/2016	55	<1
4/5/2016	53	<1
4/11/2016	96	2
4/18/2016	490	<1
4/25/2016	330	<1
5/2/2016	290	1
5/9/2016	520	1
5/31/2016	490	<1
6/6/2016	160	<1
6/13/2016	420	<1
6/20/2016	240	<1
6/27/2016	260	<1
7/11/2016	250	1
7/18/2016	190	<1
7/25/2016	88	<1
8/1/2016	120	<1
8/8/2016	340	<1
8/15/2016	1400	<1
8/22/2016	770	<1
8/29/2016	290	<1
9/6/2016	730	<1
9/12/2016	370	<1
9/19/2016	520	<1
9/26/2016	460	<1
10/3/2016	280	1



Appendix B Bact Data: Influent to Terminal		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
10/17/2016	260	<1
10/24/2016	1000	<1
10/31/2016	5200	<1
11/7/2016	1400	<1
11/21/2016	170	<1
11/28/2016	210	1
12/5/2016	140	1
12/19/2016	150	1
12/27/2016	120	3
1/3/2017	210	3
1/17/2017	320	2
1/23/2017	610	6
1/30/2017	4100	2
2/6/2017	330	<1
2/22/2017	90	<1
2/27/2017	280	<1
3/6/2017	140	2
3/20/2017	31	<1
3/27/2017	39	2
4/3/2017	210	<1
4/10/2017	3500	<1
5/8/2017	160	<1
7/3/2017	260	<1
8/7/2017	1400	<1
8/28/2017	220	<1
9/6/2017	9200	<1
9/25/2017	730	<1
10/2/2017	580	<1
10/16/2017	980	<1
10/23/2017	690	<1
10/30/2017	340	<1
11/6/2017	340	2
11/20/2017	320	<1
11/27/2017	170	1
12/4/2017	160	1
12/18/2017	63	<1



Appendix B Bact Data: Influent to Terminal		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
12/26/2017	320	<1
1/2/2018	360	<1
1/16/2018	610	<1
1/22/2018	980	1
1/29/2018	290	<1
2/5/2018	600	<1
2/20/2018	94	<1
2/27/2018	166	<1
3/5/2018	310	<1
3/19/2018	250	<1
3/26/2018	160	<1
4/2/2018	190	<1
5/7/2018	260	<1
5/14/2018	290	2
5/21/2018	610	1
5/29/2018	360	<1
6/4/2018	340	1
6/11/2018	290	<1
6/18/2018	240	<1
6/25/2018	150	<1
7/2/2018	280	<1
7/9/2018	330	1
7/16/2018	310	<1
7/23/2018	520	<1
7/30/2018	210	<1
8/6/2018	610	2
8/13/2018	460	<1
8/21/2018	730	<1
8/27/2018	770	<1
9/4/2018	1300	<1
9/10/2018	1200	1
9/17/2018	8700	<1
9/24/2018	16000	2
10/1/2018	17000	<1
10/15/2018	2400	<1
10/22/2018	5200	<1



Appendix B Bact Data: Influent to Terminal		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
10/29/2018	2400	<1
11/6/2018	6500	2
11/19/2018	650	<1
11/26/2018	340	<1
12/3/2018	440	<1
12/17/2018	870	1
12/24/2018	180	<1
12/31/2018	28	<1
1/7/2019	220	<1
1/14/2019	140	7
1/21/2019	390	13
1/22/2019	390	13
1/28/2019	130	<1
2/4/2019	57	<1
2/11/2019	71	2
2/19/2019	140	2
2/25/2019	120	1
3/4/2019	75	<1
3/11/2019	36	<1
3/18/2019	58	<1
3/25/2019	100	<1
4/1/2019	110	<1
4/8/2019	130	<1
4/15/2019	390	<1
4/22/2019	440	<1
4/29/2019	270	<1
5/6/2019	170	<1
5/13/2019	110	<1
5/20/2019	20	<1
5/29/2019	81	<1
6/3/2019	88	<1
6/10/2019	270	<1
6/17/2019	290	1
6/24/2019	260	<1
7/1/2019	230	1
7/8/2019	1600	<1



Appendix B Bact Data: Influent to Terminal		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
7/15/2019	6500	<1
7/22/2019	1300	<1
7/29/2019	920	<1
8/5/2019	370	<1
8/12/2019	310	<1
8/19/2019	240	<1
8/29/2019	190	<1
9/3/2019	190	<1
9/9/2019	410	<1
9/16/2019	690	<1
9/23/2019	520	<1
9/30/2019	4900	<1
10/7/2019	1700	<1
10/15/2019	1300	<1
10/21/2019	550	<1
10/28/2019	1000	1
11/4/2019	520	<1
11/12/2019	460	<1
11/18/2019	490	<1
11/25/2019	370	1
12/2/2019	200	<1
12/9/2019	250	1
12/16/2019	260	<1
12/23/2019	140	<1
12/30/2019	120	<1
1/6/2020	75	<1
1/13/2020	110	<1
1/28/2020	130	<1
2/3/2020	82	1
2/10/2020	75	<1
2/18/2020	44	<1
2/24/2020	110	<1
3/3/2020	110	<1
3/10/2020	86	<1
3/17/2020	81	<1
3/24/2020	73	<1



Appendix B Bact Data: Influent to Terminal		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
3/30/2020	54	<1
4/4/2020	52	<1
4/11/2020	34	<1
4/18/2020	3.1	<1
4/25/2020	150	<1
4/27/2020	160	<1
5/9/2020	820	<1
5/14/2020	220	<1
5/14/2020	220	<1
5/22/2020	200	<1
5/27/2020	260	2
6/1/2020	190	<1
6/8/2020	330	8.5
6/15/2020	2400	<1
6/22/2020	690	6.3
6/29/2020	470	2
7/6/2020	690	<1
7/13/2020	160	<1
7/20/2020	13000	7.5
7/27/2020	150	1
8/3/2020	960	<1
8/10/2020	2000	<1
8/17/2020	5500	<1
8/24/2020	340	2
9/1/2020	2400	< 10
9/9/2020	820	<1
9/15/2020	2400	<1
9/22/2020	1000	<1
9/29/2020	1	<1
10/6/2020	3700	1
10/14/2020	7300	<1
10/20/2020	3400	<1
10/27/2020	5800	<1
11/2/2020	7300	<1
11/9/2020	5200	1
11/16/20	4100	<1



Appendix B Bact Data: Influent to Terminal		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
11/23/20	610	1
11/30/20	130	<1
12/7/20	240	<1
12/14/20	46	<1
12/21/20	110	<1
12/28/20	91	<1



Appendix B1 Bact Data: Lopez Treatment Plant Raw

Appendix B Bact Data: Lopez Treatment Plant Raw		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
1/4/2016	650	4
1/11/2016	75	<1
1/20/2016	250	4
1/25/2016	4900	2
2/1/2016	11000	2
2/8/2016	2600	2
2/16/2016	1700	1
2/22/2016	1700	2
2/29/2016	240	<1
3/7/2016	280	6
3/14/2016	400	1
3/21/2016	4700	10
3/28/2016	980	2
4/5/2016	53	3
4/11/2016	500	2
4/18/2016	1600	1
4/25/2016	130	1
5/2/2016	2900	1
5/9/2016	160	2
5/16/2016	170	2
5/23/2016	80	1
5/31/2016	820	1
6/6/2016	660	7
6/13/2016	520	2
6/20/2016	340	33
6/27/2016	3400	120
7/5/2016	390	13
7/11/2016	160	13
7/18/2016	250	5
7/25/2016	390	2
8/1/2016	920	7
8/8/2016	3100	<1
8/15/2016	520	4
8/22/2016	73	4



Appendix B Bact Data: Lopez Treatment Plant Raw		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
8/29/2016	48	1
9/6/2016	91	1
9/12/2016	120	5
9/19/2016	100	7
9/26/2016	91	10
10/3/2016	280	7
10/11/2016	770	<1
10/17/2016	920	6
10/24/2016	870	8
10/31/2016	2700	14
11/7/2016	1700	16
11/14/2016	340	<1
11/21/2016	520	5
11/28/2016	160	5
12/5/2016	96	4
12/12/2016	55	5
12/19/2016	80	4
12/27/2016	2400	9
1/3/2017	1700	3
1/9/2017	1300	29
1/17/2017	13000	23
1/23/2017	2100	12
1/30/2017	1700	6
2/6/2017	550	4
2/14/2017	83	2
2/22/2017	100	1
2/27/2017	40	<1
3/6/2017	53	<1
3/13/2017	47	5
3/20/2017	51	1
3/27/2017	2000	1
4/3/2017	650	<1
4/10/2017	120	<1
4/17/2017	130	1
4/24/2017	220	1



Appendix B Bact Data: Lopez Treatment Plant Raw		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
5/1/2017	550	4
5/8/2017	920	1
5/15/2017	650	3
5/22/2017	2800	17
5/30/2017	1200	12
6/5/2017	2400	11
6/12/2017	730	4
6/19/2017	980	17
6/26/2017	2400	18
7/3/2017	980	34
7/10/2017	460	11
7/17/2017	160	36
7/24/2017	180	2
7/31/2017	4100	7
8/7/2017	3300	<1
8/28/2017	9800	31
9/6/2017	2300	57
9/11/2017	2800	11
9/20/2017	2400	27
9/25/2017	390	6
10/2/2017	580	20
10/10/2017	410	32
10/16/2017	490	6
10/23/2017	200	26
10/30/2017	140	64
11/6/2017	120	11
11/13/2017	72	29
11/20/2017	93	16
11/27/2017	1400	2
12/4/2017	210	27
12/11/2017	140	9
12/18/2017	64	10
12/26/2017	920	2
1/2/2018	360	5
1/8/2018	6500	1



Appendix B Bact Data: Lopez Treatment Plant Raw		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
1/16/2018	1300	4
1/22/2018	3700	2
1/29/2018	1300	4
2/5/2018	1100	4
2/13/2018	2400	4
2/20/2018	970	3
2/27/2018	6900	7
3/5/2018	86	<1
3/12/2018	20	<1
3/19/2018	22	4
3/26/2018	100	<1
4/2/2018	41	2
4/9/2018	980	46
4/16/2018	3650	6
4/23/2018	290	2
4/30/2018	150	<1
5/7/2018	160	19
5/14/2018	980	2
5/21/2018	2000	1
5/29/2018	310	1
6/4/2018	580	<1
6/11/2018	240	6
6/18/2018	2400	3
6/25/2018	3400	3
7/2/2018	200	4
7/9/2018	200	3
7/16/2018	2000	4
7/23/2018	1000	7
7/30/2018	1700	5
8/6/2018	1400	14
8/13/2018	24000++	5
8/21/2018	5500	12
8/27/2018	2400	9
9/4/2018	980	3
9/10/2018	870	<1



Appendix B Bact Data: Lopez Treatment Plant Raw		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
9/17/2018	490	2
9/24/2018	4100	3
10/1/2018	4600	3
10/9/2018	610	<1
10/15/2018	160	4
10/22/2018	90	2
10/29/2018	93	3
11/5/2018	56	4
11/14/2018	26	5
11/19/2018	48	11
11/26/2018	36	4
12/3/2018	53	7
12/10/2018	22	12
12/17/2018	23	4
12/24/2018	41	7
12/31/2018	38	5
1/7/2019	53	9.7
1/14/2019	86	24
1/22/2019	67	8
1/28/2019	27	6.3
2/4/2019	37	1
2/11/2019	11	2
2/19/2019	12	<1
2/25/2019	15	<1
3/4/2019	22	1
3/11/2019	8.5	<1
3/18/2019	8.5	<1
3/25/2019	8.6	<1
4/1/2019	12	<1
4/8/2019	40	1
4/15/2019	90	<1
4/22/2019	41	1
4/29/2019	34	1
5/6/2019	110	1
5/13/2019	140	9.8



Appendix B Bact Data: Lopez Treatment Plant Raw		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
5/20/2019	46	9.7
5/28/2019	160	58
6/3/2019	200	98
6/10/2019	110	4.1
6/17/2019	220	70
6/24/2019	78	6.2
7/1/2019	360	78
7/8/2019	170	29
7/18/2019	>24000	58
7/22/2019	1600	15
7/29/2019	790	6.3
8/5/2019	8200	2
8/12/2019	2000	16
8/19/2019	1600	2
8/26/2019	770	1
9/3/2019	920	2
9/9/2019	610	<1
9/16/2019	980	1
9/23/2019	460	<1
9/30/2019	340	1
10/7/2019	360	<1
10/15/2019	91	<1
10/21/2019	64	3.1
10/28/2019	120	<1
11/4/2019	41	<1
11/12/2019	36	1
11/18/2019	63	4.1
11/25/2019	47	4.1
12/2/2019	50	4.1
12/9/2019	400	62
12/16/2019	170	32
12/23/2019	410	46
12/30/2019	140	5.2
1/6/2020	93	4.1
1/13/2020	80	2



Appendix B Bact Data: Lopez Treatment Plant Raw		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
1/21/2020	46	2
1/28/2020	73	<1
2/3/2020	26	1
2/10/2020	62	2
2/18/2020	47	3.1
2/24/2020	46	2
3/3/2020	140	16
3/10/2020	64	1
3/17/2020	330	9.8
3/24/2020	150	8.4
3/30/2020	100	1
4/6/2020	66	1
4/13/2020	140	2
4/20/2020	56	<1
4/27/2020	58	1
5/4/2020	36	1
5/11/2020	27	2
5/18/2020	70	1
5/26/2020	72	3.1
6/1/2020	100	2
6/8/2020	110	5.2
6/15/2020	170	16
6/22/2020	100	3.1
6/29/2020	1000	2
7/6/2020	160	<1
7/13/2020	100	1
7/20/2020	2400	1
7/27/2020	130	<1
8/3/2020	1700	<1
8/10/2020	7600	1
8/17/2020	550	3.1
8/24/2020	1600	<1
9/1/2020	340	4.1
9/9/2020	370	6
9/15/2020	340	5.2



Appendix B Bact Data: Lopez Treatment Plant Raw		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
9/22/2020	130	1
9/29/2020	130	2
10/6/2020	150	6.3
10/14/2020	270	4.1
10/20/2020	160	<1
10/27/2020	160	4.1
11/2/2020	96	5.2
11/9/2020	99	6.3
11/16/20	130	3.0
11/23/20	240	6.2
11/30/20	46	8.6
12/7/20	77	11
12/14/20	140	16
12/21/20	170	28
12/28/20	170	28



Appendix B1 Bact Data: Lopez Creek

Appendix B Bact Data: Lopez Creek				
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)	Cryptosporidium (Oocyst/L)	<i>Giardia</i> (Cysts/L)
2/9/2016	460	2	ND	ND
5/23/2016	3400	8.6	----	----
8/10/2016	9800	7.4	----	----
11/9/2016	3200	70	----	----
2/14/2017	1100	38	ND	ND
5/23/2017	4600	50	----	----
8/15/2017	13000	17	----	----
11/15/2017	10000	23	----	----
2/27/2018	440	20	ND	ND
5/2/2018	2400	2400	----	----
8/1/2018	7700	13	----	----
11/6/2018	2400	26	----	----
2/20/2019	490	26	----	----
2/28/2019	----	----	ND	ND
5/1/2019	8700	61	----	----
8/7/2019	7700	17	----	----
11/19/2019	1200	27	----	----
2/4/2020	490	60	ND	ND
5/10/2020	4400	42	----	----
8/19/2020	13000	140	----	----
11/16/2020	2000	24	----	----



Appendix B1 Bact Data: Section C

Appendix B Bact Data: Section C		
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)
10/11/2017	7300	5
11/15/2017	580	11
12/13/2017	2400	2
2/14/2018	1200	1
3/15/2018	13000	3
4/11/2018	2400	1
5/16/2018	2400	5.2
6/13/2018	980	2
7/11/2018	6500	2
8/15/2018	2000	2
9/12/2018	2000	<1
3/13/2019	1300	11
4/10/2019	550	<1
5/8/2019	390	3.1
6/12/2019	24000	3.1
7/10/2019	3300	<1
8/14/2019	1400	2
9/11/2019	2400	<1
10/16/2019	820	3.1
11/6/2019	1400	7.4
12/11/2019	820	5
1/15/2020	410	4.1
2/13/2020	210	7.4
3/12/2020	550	9.8
4/11/2020	2400	11
5/14/2020	980	2
5/14/2020	980	2
6/10/2020	2400	1
7/8/2020	1700	2
7/8/2020	1700	2
8/12/2020	7300	1
9/15/2020	1100	1
10/14/2020	1600	6.3
11/16/2020	210	1



Appendix B1 Bact Data: Vasquez Creek Arm

Appendix B Bact Data: Vasquez Creek Arm				
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)	Cryptosporidium (Oocyst/L)	<i>Giardia</i> (Cysts/L)
5/23/2020	7300	520	-----	-----
Note due to the severe drought in 2016 Vasquez Creek was dry from 2016-May 2020. Vasquez Creek was still inspected quarterly from 2016-2020.				

Appendix B1 Bact Data: Wittenberg Creek Arm

Appendix B Bact Data: Wittenberg Creek Arm				
Date	Total Coliforms (MPN/100 mL)	<i>E. coli</i> (MPN/100 mL)	Cryptosporidium (Oocyst/L)	<i>Giardia</i> (Cysts/L)
2/14/2017	4600	65	ND	ND
2/21/2019	300	91	-----	-----
3/15/2019	-----	-----	ND	ND
Note due to the severe drought in 2016 Wittenberg Creek Arm was dry from 2016-2020 (except Feb 2017 and 2019). Wittenberg Creek Arm was still inspected quarterly from 2016-2020.				



Appendix B2 General Minerals Data: Arroyo Grande Creek

Appendix B General Minerals: Arroyo Grande Creek																					
Date	Aggressive Index mg/L	Total Alkalinity mg/L	Calcium mg/L	Chloride mg/L	Carbonate Alkalinity mg/L	Copper mg/L	Electrical Conductivity umohs/cm	Iron ug/L	Hardness mg/L	Bicarbonate Alkalinity mg/L	Langlier Index ---	MBAS mg/L	Magnesium ug/L	Manganese ug/L	Sodium ug/L	Hydroxide Alkalinity mg/L	pH-Field	Sulfate mg/L	Total Dissolved Solids mg/L	Temperature °C	Zinc mg/L
MCL (* secondary MCL)	—	—	—	500*	—	—	—	—	—	—	—	0.5*	—	—	—	—	—	500*	1000	—	—
DRL	—	—	—	—	—	—	—	—	—	—	—	0.1	—	—	—	—	—	0.5	—	—	—
2/9/2016	13	315	157	43	0	3.7	1100	160	422	315	0.85	<0.1	7.7	98	15	0	7.94	206	690	11.3	<5.0
5/23/2016	12	300	116	27	0	<5.0	838	180	351	300	-0.2	<0.1	15	160	38	0	---	74	530	15.5	<20
8/10/2016	12.8	277	105	4.64	5	<2.3	659	210	320	272	0.83	<0.1	14	170	28	0	7.8	43.1	430	20	5.1
11/9/2016	12.6	282	110	25.2	0	<5.0	862	470	359	282	0.42	<0.10	20.3	170	47	0	7.67	171	550	13.2	<20
2/14/2017	12.3	182	95	29.9	0	<5.0	760	380	378	182	0.095	<0.10	34	83	36	0	7.62	155	510	12	<5.0
5/23/2017	12.9	290	96	34.8	0	<5.0	1000	240	326	290	0.76	<0.10	21	110	44	0	8.04	206	740	15.8	<5.0
8/15/2017	12.5	294	96	27.9	0	<5.0	880	210	330	294	0.42	<0.10	57	140	38	0	7.63	140	590	16.5	<5.0
11/15/2017	13.1	301	133	28.7	0	<2.3	890	123	418	301	0.94	<0.10	20.8	839	43	0	8.1	140	610	12.8	<5.0
2/27/2018	13.1	335	140	33	0	<5.0	990	200	440	335	1.02	<0.10	24	84	45	0	8.47	168	660	7.2	<5.0
5/2/2018	13.4	337	150	34.3	0	<5.0	1000	150	480	337	1.28	<0.13	24	99	45	0	8.29	193	640	14.3	<5.0
2/20/2019	13.7	352	150	47	9	<5.0	1100	350	500	340	1.40	<0.10	28	160	58	0	8.61	200	810	8	<5.0
5/1/2019	13.1	302	110	28	0	<5.0	910	320	400	300	0.90	<0.10	28	140	57	0	8.01	150	630	17.1	<5.0
8/7/2019	12.9	306	120	29	0	<10	850	330	390	310	0.79	<0.10	22	160	40	0	7.91	110	580	15.7	16
11/19/2019	13.2	318	130	29	0	<10	860	210	420	320	0.91	<0.10	23	76	44	0	6.66	110	530	8.1	<15
2/4/2020	13.3	337	140	32	0	<10	960	100	440	340	1	<0.10	24	110	46	0	8.24	140	630	8.2	<15
Min	12.0	182	95	4.6	0	3.7	659	100	320	182	-0.2	<0.10	7.7	76	15	0.0	6.7	43	430	7.2	<5.0
Max	13.7	352	157	47	9.0	3.7	1100	470	500	340	1.4	<1.0	57	839	58	0.0	8.6	206	810	20	16
Average	12.9	301	123	30	0.9	3.7	910	242	398	301	0.8	0	24	173	41	0.0	7.9	147	608	13	10
Median	13.0	302	120	29	0	3.7	890	210	400	301	0.9	0	23	140	44	0.0	8.0	150	610	13	33
n	15	15	15	15	15	1	15	15	15	15	15	0	15	15	15	15	14	15	15	15	15



Appendix B2 General Minerals Data: Clapboard Canyon Creek

Appendix B General Minerals: Clapboard Canyon Creek																					
	Aggressive Index	Total Alkalinity	Calcium	Chloride	Carbonate Alkalinity	Copper	Electrical Conductivity	Iron	Hardness	Bicarbonate Alkalinity	Langlier Index	MBAS	Magnesium	Manganese	Sodium	Hydroxide Alkalinity	pH-Field	Sulfate	Total Dissolved Solids	Temperature	Zinc
Date	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	umohs/cm	ug/L	mg/L	mg/L	---	mg/L	ug/L	ug/L	ug/L	mg/L		mg/L	mg/L	°C	mg/L
MCL (* secondary MCL)	—	—	—	500*	—	—	—	—	—	—	—	0.5*	—	—	—	—	—	500*	1000	—	—
DRL	—	—	—	—	—	—	—	—	—	—	—	0.1	—	—	—	—	—	0.5	—	—	—
2/14/2017	11.7	117	77	26.3	0	<5.0	740	78	348	117	0.38	<0.10	38	11	36	0	7.33	212	510	16.8	<5.0
8/15/2017	12.2	214	81	32.4	0	<5.0	940	1500	423	241	0.20	<0.10	54	340	41	0	7.55	245	660	19.8	<5.0
11/15/2017	12.7	319	135	33.4	0	---	1100	---	547	319	0.76	<0.10	51	---	---	0	7.65	275	770	22.5	<5.0
2/20/2019	12.4	140	84	29.0	0	<5.0	850	110	360	140	0.24	<0.10	37	16	41	0	7.93	270	610	12.3	6
5/1/2019	12.4	222	100	26.0	0	< 5.0	900	490	420	220	0.33	<0.10	41	230	40	0	7.43	230	610	23.4	<10
8/7/2019	13.7	248	89	21.0	88	< 10	770	130	380	160	2.10	<0.10	39	46	29	0	9.14	150	510	27.8	17
Min	11.7	117	77	21	0	<10	740	78	348	117	-0.4	<0.10	37	11	29	0	7.3	150	510	12.3	6.0
Max	13.7	319	135	33	88	<5.0	1100	1500	547	319	2.1	<0.10	54	340	41	0	9.1	275	770	27	17
Average	12.5	210	94	28	14	0	883	461	413	199	0.5	0	43	128	37	0	7.8	230	611	20	11
Median	12.4	218	86	27	0	0	875	130	400	190	0.3	0	40	46	40	0	7.6	237	610	21	11
n	6	6	6	6	6	5	6	5	6	6	6	6	6	5	5	6	6	6	6	6	6



Appendix B2 General Minerals Data: Influent to Terminal

Appendix B General Minerals: Influent to Terminal																					
Date	Aggressive Index	Total Alkalinity	Calcium	Chloride	Carbonate Alkalinity	Copper	Electrical Conductivity	Iron	Hardness	Bicarbonate Alkalinity	Langlier Index	MBAS	Magnesium	Manganese	Sodium	Hydroxide Alkalinity	pH-Field	Sulfate	Total Dissolved Solids	Temperature	Zinc
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	umohs/cm	ug/L	mg/L	mg/L	---	mg/L	ug/L	ug/L	ug/L	mg/L		mg/L	mg/L	°C	mg/L
MCL (* secondary MCL)	—	—	—	500*	—	—	—	—	—	—	—	0.5*	—	—	—	—	—	500*	1000	—	—
DRL	—	—	—	—	—	—	—	—	—	—	—	0.1	—	—	—	—	—	0.5	—	—	—
2/9/2016	12.7	299	91	24	0	4.8	880	58	439	299	0.54	<0.1	51.8	57	33	0	7.92	143	530	10	<5.0
5/23/2016	13.3	303	100	24	62	21	895	140	457	241	1.27	<0.1	51	140	35	0	8.57	150	570	19.5	4
8/10/2016	13.4	330	101	25	52	7.3	953	61	488	278	1.51	<0.1	57.4	46	33	0	8.54	157	560	22.3	<1.9
11/9/2016	13.0	334	98	25	82	66	955	73	479	252	0.98	<0.10	56.6	960	32	0	8.63	158	640	18.4	<20
2/14/2017	12.8	257	90	21	0	<5.0	830	8600	435	257	0.62	<0.10	51	9000	36	0	7.99	154	520	13.5	47
5/23/2017	12.4	209	55	3	0	5.6	680	23	322	209	0.36	<0.10	45	15	30	0	7.96	123	470	16.7	<5.0
8/15/2017	12.4	237	57	18	0	<5.0	750	70	369	237	0.38	<0.10	52	500	26	0	7.71	130	480	17.1	<5.0
11/15/2017	12.9	238	86	19	0	3.8	740	19	360	238	0.85	<0.10	35.2	35	27	0	8.20	139	500	16.6	5.2
2/27/2018	12.1	248	86	19	0	5.7	780	29	370	248	0.10	<0.10	37	59	27	0	7.80	141	480	12.1	5.3
5/2/2018	12.9	249	90	19	0	<5.0	760	57	380	249	0.80	<0.13	37	28	26	0	8.14	137	440	20.4	<5.0
8/1/2018	13.2	271	90	20	23	6.1	790	26	390	248	1.27	<0.13	39	95	28	0	8.45	145	560	16.9	<5.0
11/6/2018	13.2	242	96	20	32	11	830	56	410	242	1.14	<0.13	40	95	28	0	8.44	146	660	17.6	6.6
2/4/2019	13.0	274	96	21	0	<5.0	830	63	410	270	0.81	<0.10	40	55	28	0	8.18	150	540	11.9	<5.0
5/6/2019	12.7	248	87	17	0	<5.0	740	28	370	250	0.31	<0.10	37	29	27	0	7.74	120	500	12.9	<5.0
8/5/2019	13.2	250	87	18	0	<10	730	27	370	250	1.20	<0.10	38	330	26	0	8.42	130	480	20.2	<15
11/4/2019	12.7	267	93	19	0	<10	780	38	390	270	0.57	<0.10	40	100	29	0	7.87	140	510	15.8	<15
2/3/2020	12.8	258	91	17	0	<10	770	41	380	260	0.98	<0.10	37	50	29	0	8.03	130	510	11	<15
5/9/2020	13.0	262	89	16	0	<10	790	27	390	260	1.5	<0.10	39	44	26	0	8.61	130	470	16.7	<15
8/3/2020	13.4	267	91	16	27	<10	780	47	390	240	1.50	<0.10	40	89	26	0	8.57	140	510	23.7	<20
11/2/2020	13.3	287	89	16	36	<10	800	37	392	250	1.30	<0.10	41	113	30	0	8.54	150	570	17.4	<15
Min	12.1	209	55	3.0	0	3.8	680	19.0	322	209	0.1	<0.10	35.2	15	26	0	7.7	120	440	10	4.0
Max	13.4	334	101	25	82	66	955	8600	488	299	1.5	<0.10	57.4	9000	36	0	8.6	158	660	23	47
Average	12.9	266	88	18	15	14	803	476	399	252	0.9	<0.10	43.3	592	29	0	8.2	140	525	16	13
Median	13.0	260	90	18	0	6.1	785	44.0	390	250	0.9	<0.10	40.0	74	28	0	8.2	140	510	16	5.3
n	20	20	20	20	20	9	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20



County of San Luis Obispo
 Lopez Lake and Terminal Reservoir
 2016-2020 Watershed Sanitary Survey

Appendix B2 General Minerals : Lopez Creek

Appendix B General Minerals: Lopez Creek																					
Date	Aggressive Index	Total Alkalinity	Calcium	Chloride	Carbonate Alkalinity	Copper	Electrical Conductivity	Iron	Hardness	Bicarbonate Alkalinity	Langlier Index	MBAS	Magnesium	Manganese	Sodium	Hydroxide Alkalinity	pH-Field	Sulfate	Total Dissolved Solids	Temperature	Zinc
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	umohs/cm	ug/L	mg/L	mg/L	----	mg/L	ug/L	ug/L	ug/L	mg/L		mg/L	mg/L	°C	mg/L
MCL (* secondary MCL)	—	—	—	500*	—	—	—	—	—	—	—	0.5*	—	—	—	—	—	500*	1000	—	—
DRL	—	—	—	—	—	—	—	—	—	—	—	0.1	—	—	—	—	—	0.5	—	—	—
2/9/2016	13	304	80.3	14	48	<2.26	850	23	474	256	0.84	<0.1	66.5	2.6	56	0	8.22	142	520	12.5	<5.0
5/23/2016	13	330	97	12	0	<10	882	<30	448	330	0.20	<0.1	50	<10	15	0		144	540	15.7	<20
8/10/2016	13	325	92.3	13	27	<2.3	830	53	493	298	1.05	<0.1	63.8	4.1	14	0	8.16	127	510	18.6	<1.9
11/9/2016	13	313	99	13	0	<5.0	789	220	475	313	0.90	<0.10	55.4	7.9	14	0	8.1	127	570	15.9	<20
2/14/2017	13	204	79	11	0	<5.0	630	82	347	204	0.27	<0.10	37	6.5	15	0	7.8	104	390	12.7	<5.0
5/23/2017	13	294	48	12	0	<5.0	790	71	396	294	0.49	<0.10	67	<5.0	16	0	8.05	132	530	14.9	<5.0
8/15/2017	13	319	80	12	0	<5.0	850	33	435	319	0.34	<0.10	22	<5.0	16	0	7.82	130	550	7	<5.0
11/15/2017	13	299	103	12	0	<2.3	850	18.4	462	299	1.11	<0.10	49.6	1.48	16	0	8.31	136	550	15.1	<5.0
2/27/2018	13	312	96	11	0	<5.0	840	15	440	312	0.99	<0.10	48	<5.0	14	0	8.56	133	510	10	<5.0
5/2/2018	13	304	98	11	0	<5.0	820	18	440	304	0.99	<0.13	48	<5.0	14	0	8.23	130	510	14.6	<5.0
8/1/2018	13	317	98	12	0	<5.0	820	30	460	317	1.13	<0.13	51	<5.0	15	0	8.25	134	590	18.5	<5.0
11/6/2018	13	328	100	11	0	<5.0	850	28	460	328	0.88	<0.13	51	<5.0	15	0	8.08	127	720	14.3	<5.0
2/20/2019	13	230	72	10	25	<5.0	620	60	319	205	0.75	<0.10	34	<5.0	13	0	8.37	98	400	9.2	<5.0
5/1/2019	13	292	92	11	0	<5.0	774	48	422	292	1.01	<0.10	47	<5.0	16	0	8.22	123	480	17.4	<5.0
8/7/2019	13	314	97	11	0	<5.0	806	49	449	314	1.10	<0.10	50	<5.0	15	0	8.23	128	540	16.2	8.2
11/19/2019	13	294	103	11	0	<5.0	825	33	471	294	0.30	<0.10	52	<5.0	15	0	7.59	125	510	12.2	6.6
2/4/2020	13	307	96	10.0	0	<10	820	15	440	310	0.92	<0.10	48	<5.0	14	0	8.29	130	530	9.6	16
5/10/2020	13	305	95	9.0	0	<10	790	50	440	300	0.04	<0.10	48	<5.0	14	0	7.09	120	470	19.4	<15
8/19/2020	13	326	99	9.0	0	<10	810	140	460	330	1.20	<0.10	50	6	19	0	8.26	110	540	20.1	<15
11/16/2020	13	338	95	9.0	25	<10	330	39	446	313	0.94	<0.10	51	<5.0	16	0	8.15	130	530	14.3	<20
Min	13.0	204.0	48.0	9.0	0.0	<2.3	330.0	15.0	319.1	204.0	0.0	<0.10	22.0	<5.0	13.5	0.0	7.1	98.0	390.0	7.0	6.6
Max	13.0	338.0	103.0	13.6	48.0	<10	880	220.0	493.0	330.0	1.2	<0.10	67.0	7.9	56.0	0	8.6	144.0	720.0	20.1	16.0
Average	13.0	302.8	90.9	11.2	6.3	0	780	54.0	438.9	296.6	0.8	0	49.5	4.7	17.1	0	8.1	126.5	524.5	14.4	10.3
Median	13.0	309.5	96.0	11.3	0	0	820	39.0	447.0	307.0	0.9	0	50.0	4.9	15.0	0	8.2	129.0	530.0	14.8	8.2
n	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20



Appendix B2 General Minerals Data: Lopez WTP Raw

Appendix B General Minerals : Lopez WTP Raw																					
	Aggressive Index	Total Alkalinity	Calcium	Chloride	Carbonate Alkalinity	Copper	Electrical Conductivity	Iron	Hardness	Bicarbonate Alkalinity	Langlier Index	MBAS	Magnesium	Manganese	Sodium	Hydroxide Alkalinity	pH-Field	Sulfate	Total Dissolved Solids	Temperature	Zinc
Date	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	umohs/cm	ug/L	mg/L	mg/L	---	mg/L	ug/L	ug/L	ug/L	mg/L		mg/L	mg/L	°C	mg/L
MCL (* secondary MCL)	—	—	—	500*	—	—	—	—	—	—	—	0.5*	—	—	—	—	—	500*	1000	—	—
DRL	—	—	—	—	—	—	—	—	—	—	—	0.1	—	—	—	—	—	0.5	—	—	—
5/2/2016	13.3	302	97	24.2	60	89	866	19	461	242	1.32	<0.10	53	14	33	0	8.43	145	600	20.0	<5.0
5/1/2017	12.9	266	68	22.7	0	36	820	<5.0	373	266	0.90	<0.10	49	8	31	0	8.18	139	480	19.4	<5.0
5/7/2018	13.1	254	90	19.1	20	56	770	<5.0	380	234	1.13	<0.10	38	10	27	0	8.33	138	450	20.0	<5.0
5/6/2019	12.9	261	86	19.0	0	44	740	<5.0	370	260	0.88	<0.10	37	16	28	0	8.15	130	500	18.2	<5.0
5/4/2020	13	261	92	16.0	0	50	780	<10	390	260	0.99	<0.10	39	10	28	0	8.22	130	510	18.0	<15
Min	12.9	254	68	16	0	36	740	<5.0	370	234	0.88	<0.10	37	7.5	27	0	8.15	130	450	18	<5
Max	13.3	302	97	24	60	89	866	19	461	266	1.3	<0.10	53	16	33	0	8.43	145	600	20	<25
Average	13.0	268	86	20	16	55	795	19	394	252	1.0	0	43	11	29	0	8.26	136	508	19	0
Median	13	261	90	19	0	50	780	19	380	260	0.99	0	39	10	28	0	8.22	138	500	19	0
n	5	5	5	5	5	5	5	5	5	5	5	5	5	6	5	5	5	5	5	5	5



Appendix B2 General Minerals Data: Lopez WTP Treated

Appendix B General Minerals: Lopez WTP Treated																					
	Aggressive Index	Total Alkalinity	Calcium	Chloride	Carbonate Alkalinity	Copper	Electrical Conductivity	Iron	Hardness	Bicarbonate Alkalinity	Langlier Index	MBAS	Magnesium	Manganese	Sodium	Hydroxide Alkalinity	pH-Field	Sulfate	Total Dissolved Solids	Temperature	Zinc
Date	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	umohs/cm	ug/L	mg/L	mg/L	---	mg/L	ug/L	ug/L	ug/L	mg/L		mg/L	mg/L	°C	mg/L
MCL (* secondary MCL)	—	—	—	500*	—	—	—	—	—	—	—	0.5*	—	—	—	—	—	500*	1000	—	—
DRL	—	—	—	—	—	—	—	—	—	—	—	0.1	—	—	—	—	—	0.5	—	—	—
5/2/2016	13.2	339	91	32.0	80	29	886	<10	448	259	1.20	<0.10	48	<5.0	40	0	8.28	143	590	20.6	<20
5/1/2017	12.8	251	73	35.0	0	42	850	<5.0	379	251	0.81	<0.10	39	<5.0	35	0	8.10	137	510	20.0	<5.0
5/7/2018	12.5	233	92	36.0	0	29	800	<5.0	430	233	0.59	<0.10	44	<5.0	30	0	7.82	138	490	20.0	<5.0
5/6/2019	12.6	241	85	34.0	0	22	790	<5.0	360	241	0.63	<0.10	37	<5.0	31	0	7.88	130	490	18.3	<10
5/4/2020	12.6	235	91	32.0	0	22	820	<10	390	235	0.61	<0.10	39	<5.0	30	0	7.91	130	490	17.7	<15
Min	12.5	233	73	32	0	22	790	<5.0	360	233	0.59	<0.10	37	<5.0	30	0	7.82	130	490	17	<5.0
Max	13.2	339	92	36	80	42	886	<10	448	259	1.2	<0.10	48	<5.0	40	0	8.28	143	590	20	<20
Average	12.7	259	86	33	16	28	829	0	401	243	0.76	0	41	0	33	0	8.00	136	514	19	0
Median	12.6	241	91	34	0	29	820	0	390	241	0.63	0	39	0	31	0	7.91	137	490	20	0
n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5



Appendix B2 General Minerals Data: Vasquez Creek

Appendix B General Minerals: Vasquez Creek																					
	Aggressive Index	Total Alkalinity	Calcium	Chloride	Carbonate Alkalinity	Copper	Electrical Conductivity	Iron	Hardness	Bicarbonate Alkalinity	Langlier Index	MBAS	Magnesium	Manganese	Sodium	Hydroxide Alkalinity	pH-Field	Sulfate	Total Dissolved Solids	Temperature	Zinc
Date	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	umohs/cm	ug/L	mg/L	mg/L	---	mg/L	ug/L	ug/L	ug/L	mg/L		mg/L	mg/L	°C	mg/L
MCL (* secondary MCL)	—	—	—	500*	—	—	—	—	—	—	—	0.5*	—	—	—	—	—	500*	1000	—	—
DRL	—	—	—	—	—	—	—	—	—	—	—	0.1	—	—	—	—	—	0.5	—	—	—
5/22/2020	13.4	320	97	14.0	41	<10	800	23	440	280	1.40	<0.10	47	<5.0	12	0	8.5	100	500	17.8	<15
Min	13.4	320	97	14	41	<10	800	23	440	280	1.4	<0.10	47	<5.0	12	0	8.5	100	500	17.8	<15
Max	13.4	320	97	14	41	<10	800	23	440	280	1.4	<0.10	47	<5.0	12	0	8.5	100	500	17.8	<15
Average	13.4	320	97	14	41	0	800	23	440	280	1.4	0	47	0	12	0	8.5	100	500	17.8	0
Median	13.4	320	97	14	41	0	800	23	440	280	1.4	0	47	0	12	0	8.5	100	500	17.8	0
n	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



Appendix B2 General Minerals Data: Wittenberg Creek Arm

Appendix B General Minerals: Wittenberg Creek Arm																					
	Aggressive Index	Total Alkalinity	Calcium	Chloride	Carbonate Alkalinity	Copper	Electrical Conductivity	Iron	Hardness	Bicarbonate Alkalinity	Langlier Index	MBAS	Magnesium	Manganese	Sodium	Hydroxide Alkalinity	pH-Field	Sulfate	Total Dissolved Solids	Temperature	Zinc
Date	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	umohs/cm	ug/L	mg/L	mg/L	---	mg/L	ug/L	ug/L	ug/L	mg/L		mg/L	mg/L	°C	mg/L
MCL (* secondary MCL)	—	—	—	500*	—	—	—	—	—	—	—	0.5*	—	—	—	—	—	500*	1000	—	—
DRL	—	—	—	—	—	—	—	—	—	—	—	0.1	—	—	—	—	—	0.5	—	—	—
2/14/2017	12.7	200	86	14.7	0	<5	710	47	353	200	0.54	<0.1	34	9	28	0	8.06	142	440	12.7	<5.0
2/20/2020	12.8	230	80	14.0	0	<5	740	60	340	230	0.82	<0.1	35	10	30	0	8.18	150	500	10.1	<5.0
Min	12.7	200	80	14	0	<5	710	47	340	200	0.54	<0.1	34	9	28	0	8.06	142	440	10.1	<5.0
Max	12.8	230	86	14.7	0	<5	740	60	353	230	0.82	<0.1	35	10	30	0	8.18	150	500	12.7	<5.0
Average	12.7	215	83	14.4	0	0	725	53	346	215	0.68	0	35	9.5	29	0	8.12	146	470	11.4	0
Median	12.8	215	83	14.4	0	0	725	53	346	215	0.68	0	35	9.5	29	0	8.12	146	470	11.4	0
n	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2



Appendix B3 Metals: Arroyo Grande Creek

Appendix B Metals: Arroyo Grande Creek														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
2/9/2016	----	4	----	----	----	----	----	0.221	----	----	----	----	----	----
5/23/2016	120	4.6	31	<1.0	<0.5	<25	<1.0	0.300	<1.0	<0.5	----	<1.0	<0.5	<1.0
8/10/2016	----	5.6	----	----	----	----	----	0.175	----	----	----	----	----	----
11/9/2016	----	3.6	----	----	----	----	----	0.187	----	----	----	----	----	----
2/14/2017	----	7.8	----	----	----	----	----	0.450	----	----	----	----	----	----
5/23/2017	110	6.2	35	<1.0	<0.5	<25	<1.0	0.752	<0.2	<0.5	----	<1.0	<0.5	<1.0
8/15/2017	----	5.6	----	----	----	----	----	0.441	----	----	----	----	----	----
11/15/2017	----	4.6	----	----	----	----	----	0.362	----	----	----	----	----	----
2/27/2018	----	3.7	----	----	----	----	----	0.432	----	----	----	----	----	----
5/2/2018	47	9.6	32	<1.0	<1.0	<25	<5.0	0.394	<0.2	<5.0	----	<2.0	<5.0	<1.0
2/20/2019	----	3.5	----	----	----	----	----	0.330	----	----	----	----	----	----
2/22/2019	----	7.6	----	----	----	----	----	----	----	----	----	----	----	----
5/1/2019	120	5.6	39	<1.0	<1.0	<5.0	<5.0	0.260	<0.20	<5.0	<0.50	<1.0	<5.0	<1.0
8/7/2019	160	5.6	31	<1.0	----	----	<10	0.380	----	<10	----	----	----	----
11/19/2019	----	4.3	----	----	----	----	----	0.360	----	----	----	----	----	----
2/4/2020	----	4.7	----	----	----	----	----	0.330	----	----	----	----	----	----
Min	47	3.5	31	<1.0	<0.5	<5.0	<1.0	0.17	<0.2	<0.50	<0.50	<1.0	<0.50	<1.0
Max	160	9.6	39	<1.0	<1.0	<25	<10	0.75	<1.0	<10	<0.50	<2.0	<0.50	<1.0
Average	111	5.4	33	0	0	0	0	0.35	0	0	0	0	0	0
Median	120	5.1	32	0	0	0	0	0.36	0	0	0	0	0	0
n	5	20	5	5	4	4	5	19	4	5	1	4	4	4



Appendix B3 Metals: Clapboard Canyon Creek Arm

Appendix B Metals: Clapboard Canyon Creek Arm														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
2/14/2017	-----	2.2	-----	-----	-----	-----	-----	0.555	-----	-----	-----	-----	-----	-----
8/15/2017	-----	13	-----	-----	-----	-----	-----	0.561	-----	-----	-----	-----	-----	-----
11/15/2017	-----	-----	-----	-----	-----	-----	-----	0.596	-----	-----	-----	-----	-----	-----
5/19/2020	40	4.2	30	<1.0	1.1	<25	<5.0	0.480	<0.20	11	<0.50	<1.0	5.3	<1.0
Min	40	2.2	30	<1	<1.1	<25	<5.0	0.480	<0.20	11	<0.50	<1.0	5.3	<1.0
Max	40	13	30	<1	<1.1	<25	<5.0	0.596	<0.20	11	<0.50	<1.0	5.3	<1.0
Average	40	6.4	30	0	0	0	0	0.548	0	11	0	0	5.3	0
Median	40	4.2	30	0	0	0	0	0.558	0	11	0	0	5.3	0
n	1	3	1	1	1	1	1	4	1	1	1	1	1	1



Appendix B3 Metals: Influent to Terminal

Appendix B Metals: Influent to Terminal														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
1/4/2016	----	5.5	----	----	----	----	----	----	----	----	----	----	----	----
2/1/2016	----	4.6	----	----	----	----	----	0.403	----	----	----	----	----	----
3/7/2016	----	4.5	----	----	----	----	----	----	----	----	----	----	----	----
4/5/2016	----	5.6	----	----	----	----	----	----	----	----	----	----	----	----
5/9/2016	36	5.1	35	<1.0	<0.5	<25	<1.0	0.487	<0.2	<5.0	----	<1.0	<5.0	<1.0
6/6/2016	----	6.2	----	----	----	----	----	----	----	----	----	----	----	----
7/6/2016	----	6.7	----	----	----	----	----	----	----	----	----	----	----	----
8/1/2016	----	7.4	----	----	----	----	----	0.434	----	----	----	----	----	----
9/6/2016	----	8.2	----	----	----	----	----	----	----	----	----	----	----	----
10/3/2016	----	8.8	----	----	----	----	----	----	----	----	----	----	----	----
11/7/2016	----	7.9	----	----	----	----	----	0.435	----	----	----	----	----	----
2/14/2017	----	----	----	----	----	----	----	0.315	----	----	----	----	----	----
3/6/2017	----	5.9	----	----	----	----	----	----	----	----	----	----	----	----
5/8/2017	<20	3.5	35	<1.0	<0.5	<25	<1.0	0.364	<0.2	<5.0	----	<1.0	<5.0	<1.0
8/7/2017	----	4.1	----	----	----	----	----	----	----	----	----	----	----	----
8/28/2017	----	----	----	----	----	----	----	0.387	----	----	----	----	----	----
11/6/2017	----	6.8	----	----	----	----	----	----	----	----	----	----	----	----
11/13/2017	----	----	----	----	----	----	----	0.373	----	----	----	----	----	----
2/27/2017	----	----	----	----	----	----	----	0.424	----	----	----	----	----	----



Appendix B Metals: Influent to Terminal														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
3/5/2018	----	4.8	----	----	----	----	----	----	----	----	----	----	----	----
5/7/2018	27	8.4	27	<1.0	<1.0	<25	<2.0	0.378	<0.2	<5.0	----	<1.0	<5.0	<1.0
8/1/2018	----	----	----	----	----	----	----	0.419	----	----	----	----	----	----
8/6/2018	----	7	----	----	----	----	----	----	----	----	----	----	----	----
11/6/2018	----	----	----	----	----	----	----	<0.10	----	----	----	----	----	----
1/7/2019	----	----	35	<1.0	<1.0	----	<5.0	----	----	6.6	----	----	----	----
2/4/2019	35	----	----	----	----	----	----	0.380	----	----	----	----	----	----
5/6/2019	59	4.0	30	<1.0	<1.0	<25	<5.0	0.290	<0.20	<5.0	<0.50	<1.0	<5.0	<1.0
8/5/2019	45	----	----	----	----	----	----	0.320	----	----	----	----	----	----
11/4/2019	53	----	----	----	----	----	----	0.400	----	----	----	----	----	----
2/3/2020	41	----	----	----	----	----	----	0.360	----	----	----	----	----	----
2/18/2020	----	----	34	<1.0	<1.0	----	<10	----	----	<10	----	----	----	----
5/9/2020	23	4.8	32	<1.0	<1.0	<25	<10	0.350	<0.20	<10	<4.0	<1.0	<5.0	<1.0
8/3/2020	38	----	----	----	----	----	----	0.350	----	----	----	----	----	----
11/9/2020	< 20	----	----	----	----	----	----	0.170	----	----	----	----	----	----
Min	<20	3.5	27	<1	<0.5	<25	<1.0	0.170	<0.2	<5	0	<1	<5	<1
Max	59	8.8	35	<1	<1	<25	<10	0.487	<0.2	<5	0	<1	<5	<1
Average	39	6	32	0	0	0	0	0.406	0	0	0	0	0	0
Median	38	5.7	34	0	0	0	0	0.371	0	0	0	0	0	0
n	10	20	7	7	7	7	7	17	5	5	0	5	5	5



Appendix B3 Metals: Lopez Creek

Appendix B Metals: Lopez Creek														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
2/9/2016	----	1.3	----	----	----	----	----	0.299	----	----	----	----	----	----
5/23/2016	<20	1.2	36	<1.0	<0.5	<25	<1.0	0.300	<0.2	<5.0	----	<1.0	<5.0	<1.0
8/10/2016	----	2.6	----	----	----	----	----	0.299	----	----	----	----	----	----
11/9/2016	----	<1	----	----	----	----	----	0.332	----	----	----	----	----	----
2/14/2017	----	<1	----	----	----	----	----	0.305	----	----	----	----	----	----
5/23/2017	32	1.1	40	<1.0	<0.5	<25	<1.0	0.601	<0.2	<5.0	----	<1.0	<5.0	<1.0
8/15/2017	----	1.4	----	----	----	----	----	0.373	----	----	----	----	----	----
11/15/2017	----	<2.0	----	----	----	----	----	0.313	----	----	----	----	----	----
2/27/2018	----	<2.0	----	----	----	----	----	0.407	----	----	----	----	----	----
5/2/2018	8.1	1.2	36	<1.0	<1.0	<25	----	0.341	<0.2	<5.0	----	<1.0	<5.0	<1.0
8/1/2018	----	<2.0	----	----	----	----	----	0.383	----	----	----	----	----	----
11/6/2018	----	----	----	----	----	----	----	<0.10	----	----	----	----	----	----
2/20/2019	----	<1	----	----	----	----	----	0.220	----	----	----	----	----	----
5/1/2019	32	1.1	40	<1.0	<1.0	<25	<5.0	0.250	<0.2	<5.0	<0.5	<1.0	<5.0	<1.0
8/7/2019	----	1.2	----	----	----	----	----	0.320	----	----	----	----	----	----
11/19/2019	----	1.1	----	----	----	----	----	0.350	----	----	----	----	----	----
2/3/2020	----	1.0	----	----	----	----	----	0.310	----	----	----	----	----	----
5/10/2020	38	1	38	<1.0	<1.0	<25	<1.0	0.310	<0.2	<10	<4.0	<1.0	<5.0	<1.0
8/19/2020	----	1.0	----	----	----	----	----	0.340	----	----	----	----	----	----



Appendix B Metals: Lopez Creek														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
11/16/2020	39	1.2	41	<1.0	<1.3	-----	<1.0	0.180	-----	<5.0	-----	-----	-----	-----
Min	<20	<1.0	36	<1	<0.5	<25	<1	0.285	<0.2	<5	<0.5	<1.0	<5.0	<1.0
Max	39	3	41	<1	<1.0	<25	<1	0.530	<0.2	<10	<4	<1.0	<5.0	<1.0
Average	29	1.3	2.3	0	0	0	0	0.328	0	0	0	0	0	0
Median	32	1.2	39	0	0	0	0	0.313	0	0	0	0	0	0
n	6	19	6	6	6	5	6	20	5	6	2	5	5	5



Appendix B3 Metals: Lopez WTP Raw

Appendix B Metals: Lopez WTP Raw														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
1/4/2016	-----	6.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2/1/2016	-----	5.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3/7/2016	-----	5.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4/5/2016	-----	5.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
5/2/2016	<20	5.0	39	<1.0	<0.5	<25	<1.0	0.935	<0.20	<5.0	-----	<1.0	<5.0	<1.0
6/6/2016	-----	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
7/5/2016	-----	4.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8/1/2016	-----	4.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
9/6/2016	-----	6.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10/3/2016	-----	6.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
11/7/2016	-----	6.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2/6/2017	-----	5.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
5/1/2017	<20	5.0	36	<1.0	<0.5	<25	<1.0	0.461	<0.20	5.8	-----	<1.0	<5.0	<1.0
8/4/2017	-----	4.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
11/6/2017	-----	5.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2/5/2018	-----	4.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
5/7/2018	8.6	4.2	27	<1.0	<1.0	-----	<2.0	0.381	-----	<5.0	-----	<2.0	<5.0	-----
5/25/2018	-----	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8/6/2018	-----	4.4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



Appendix B Metals: Lopez WTP Raw														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
11/5/2018	----	----	----	----	----	----	----	----	----	----	----	----	----	----
2/4/2019	----	6.6	----	----	----	----	----	----	----	----	----	----	----	----
4/1/2019	< 10	5.6	30	<1.0	<1.0	<25	<5.0	0.32	<0.20	<5.0	<4.0	<1.0	<5.0	<1.0
5/6/2019	< 10	5.8	28	<1.0	<1.0	----	<5.0	----	----	<5.0	----	----	----	----
6/3/2019	33	----	----	----	----	----	----	----	----	----	----	----	----	----
6/26/2019	12	----	----	----	----	----	----	----	----	----	----	----	----	----
8/5/2019	----	4.4	----	----	----	----	----	----	----	----	----	----	----	----
10/7/2019	32	----	----	----	----	----	----	----	----	----	----	----	----	----
11/4/2019	----	6.2	----	----	----	----	----	----	----	----	----	----	----	----
2/3/2020	----	5.3	----	----	----	----	----	----	----	----	----	----	----	----
4/6/2020	<20	5.1	30	<1.0	<1.0	<25	<10	0.32	<0.20	<10	<1.0	<1.0	<5.0	<1.0
5/4/2020	<20	5	----	----	----	----	----	----	----	----	----	----	----	----
8/3/2020	----	5.8	----	----	----	----	----	----	----	----	----	----	----	----
11/2/2020	----	6.2	----	----	----	----	----	----	----	----	----	----	----	----
12/7/2020	<20	----	----	----	----	----	----	----	----	----	----	----	----	----
Min	<10	4.2	27	<1	<0.5	<25	<1	0.320	<0.2	<5	<1.0	<1	<5	<1
Max	33	6.6	39	<1	<1.0	<25	<10	0.935	<0.2	<10	<4.0	<2.0	<5	<1
Average	21	5.3	31	0	0	0	0	0.483	0	0	0	0	0	0
Median	22	5.3	30	0	0	0	0	0.381	0	0	0	0	0	0
n	11	29	6	6	6	5	6	5	4	6	2	5	5	5



Appendix B3 Metals: Lopez WTP Treated

Appendix B Metals: Lopez WTP Treated														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
1/4/2016	-----	4.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1/11/2016	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2/1/2016	-----	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2/8/2016	20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3/7/2016	-----	3.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3/14/2016	20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4/5/2016	-----	4.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4/11/2016	26	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
5/2/2016	27	2.9	33	<0.10	<0.5	<25	<1.0	0.228	<0.2	-----	-----	<1.0	<5.0	<1.0
6/6/2016	-----	2.2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
6/13/2016	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
7/5/2016	-----	2.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
7/11/2016	21	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8/1/2016	-----	6.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8/8/2016	27	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
9/6/2016	-----	4.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
9/12/2016	30	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10/3/2016	-----	3.8	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10/11/2016	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



Appendix B Metals: Lopez WTP Treated														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
11/7/2016	-----	5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
11/14/2016	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
12/12/2016	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1/9/2017	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2/6/2017	-----	3.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2/14/2017	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3/13/2017	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4/10/2017	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
5/1/2017	<20	3.7	33	<0.10	<0.5	<25	<1.0	0.415	<0.2	-----	-----	<1.0	<5.0	<1.0
6/12/2017	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
7/10/2017	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8/4/2017	-----	1.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
9/11/2017	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10/10/2017	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
11/6/2017	-----	2.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
11/13/2017	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
12/11/2017	13	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1/8/2018	14	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2/13/2018	14	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3/12/2018	21	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



Appendix B Metals: Lopez WTP Treated														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
4/9/2018	21	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2/5/2018	-----	2.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
5/7/2018	14	2.0	26	<0.10	<1.0	-----	<5.0	0.326	-----	<5.0	-----	2.2	<5.0	-----
5/25/2018	-----	3.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
6/11/2018	6.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
7/9/2018	14	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8/6/2018	-----	4.1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8/13/2018	<5.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
9/10/2018	<10	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10/9/2018	<10	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
11/5/2018	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
11/14/2018	12	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
12/3/2018	17	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1/14/2019	32	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1/28/2019	47	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2/4/2019	36	5.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2/25/2019	37	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3/4/2019	37	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4/1/2019	20	4.3	28	<1.0	<1.0	<25	<5.0	0.3	<0.20	<5.0	<4.0	<1.0	<5.0	<1.0
5/6/2019	44	4.3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



Appendix B Metals: Lopez WTP Treated														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
6/3/2019	35	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
7/1/2019	21	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8/5/2019	< 20	4.2	30	<1.0	-----	-----	<10	-----	-----	<10	-----	-----	-----	-----
9/3/2019	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10/7/2019	< 20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
11/4/2019	< 20	4.0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
11/25/2019	< 20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
12/2/2019	36	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
1/6/2020	22	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
2/3/2020	< 20	4.6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
3/3/2020	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
4/6/2020	<20	4.1	28	<1.0	<1.0	<25	<10	0.31	<0.20	<10	<1.0	<1.0	<5.0	<1.0
5/4/2020	<20	3.9	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
6/1/2020	< 20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
7/6/2020	< 20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
7/13/2020	< 20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
8/3/2020	< 20	4.5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
9/9/2020	<50	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
10/6/2020	<20	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
11/2/2020	24	5.7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



Appendix B Metals: Lopez WTP Treated														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
12/7/2020	23	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Min	<50	1.7	23	<1	<1	<25	<10	0.337	<0.20	<5.0	<1.0	2.2	<0.50	<1.0
Max	47	6	29	<1	<1	<25	<10	0.499	<0.20	<10	<1.0	2.2	<0.50	<1.0
Average	24	4	29	ND	ND	ND	ND	ND	0	0	0	2.2	0	0
Median	21	4	29	ND	ND	ND	ND	ND	0	0	0	2.2	0	0
n	63	28	6	6	5	5	6	5	5	6	2	5	5	5



Appendix B3 Metals: Vasquez Creek Arm

Appendix B Metals: Vasquez Creek Arm														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
5/22/2020	23	1.3	31	<1.0	<1.0	<25	<10	0.26	<0.20	<10	<4.0	<1.0	<5.0	<1.0
Min	23	1.3	31	<1	<1	<25	<10	0.260	<0.2	<10	<4	<1	<5	<1
Max	23	1.3	31	<1	<1	<25	<10	0.260	<0.2	<10	<4	<1	<5	<1
Average	23	1.3	31	0	0	0	0	0.260	0	0	0	0	0	0
Median	23	1.3	31	0	0	0	0	0.260	0	0	0	0	0	0
n	1	1	1	1	1	1	1	1	1	1	1	1	1	1



Appendix B3 Metals: Wittenberg Creek Arm

Appendix B Metals: Wittenberg Creek Arm														
	Aluminum	Arsenic	Barium	Beryllium	Cadmium	Cyanide	Chromium	Fluoride	Mercury	Nickel	Perchlorate	Antimony	Selenium	Thallium
Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL	1000	10	1000	4	5	150	50	2	2	100	6	6	50	2
DRL	5	0	100	1	1	100	10	0.1	1	10	4	6	5	1
2/14/2017	-----	<1.0	-----	-----	-----	-----	-----	0.439	-----	-----	-----	-----	-----	-----
2/20/2019	45	1.3	-----	-----	-----	-----	-----	0.370	-----	-----	-----	-----	-----	-----
Min	45	<1.0	-----	-----	-----	-----	-----	0.370	-----	-----	-----	-----	-----	-----
Max	45	1	-----	-----	-----	-----	-----	0.439	-----	-----	-----	-----	-----	-----
Average	45	1.3	-----	-----	-----	-----	-----	0.405	-----	-----	-----	-----	-----	-----
Median	45	1.3	-----	-----	-----	-----	-----	0.405	-----	-----	-----	-----	-----	-----
n	1	2	0	0	0	0	0	2	0	0	0	0	0	0



Appendix B4 Nutrients: Arroyo Grande Creek

Appendix B Nutrients: Arroyo Grande Creek					
	Nitrite as N	Nitrate as N	Total Kjeldahl Nitrogen	Total Nitrogen	Total Phosphate as P
Date	ug/L	ug/L	mg/L	mg/L	mg/L
MCL	100	10000	----	----	----
DRL	400	400	----	----	----
2/9/2016	<100	<100	0.41	0.41	0.58
5/23/2016	<100	<100	0.58	0.58	0.62
8/10/2016	<100	<100	0.25	0.25	0.52
11/9/2016	<100	<100	0.43	0.43	0.68
2/14/2017	<100	1590	0.73	0.89	0.84
5/23/2017	<100	<100	0.38	0.38	0.525
8/15/2017	<100	<100	0.24	0.24	0.74
11/15/2017	<100	<100	0.23	0.23	0.62
2/27/2018	<100	<100	0.64	0.64	1.08
5/2/2018	<100	<100	0.634	0.63	0.694
2/20/2019	<100	280	<1.0	1	<0.02
5/1/2019	<100	290	<1.0	1.1	0.77
8/7/2019	<100	< 100	----	----	0.9
11/19/2019	<100	390	0.2	----	0.73
2/4/2020	<100	260	0.32	<1.0	0.33
Min	<100	<100	<0.2	0.2	<0.02
Max	<100	1590	1	1	1
Average	0	190	0.4	0.6	0.7
Median	0	<100	0.4	0.5	0.7
n	15	15	14	14	15



Appendix B4 Nutrients: Clapboard Canyon Creek Arm

Appendix B Nutrients: Clapboard Canyon Creek Arm					
	Nitrite as N	Nitrate as N	Total Kjeldahl Nitrogen	Total Nitrogen	Total Phosphate as P
Date	ug/L	ug/L	mg/L	mg/L	mg/L
MCL	100	10000	----	----	----
DRL	400	400	----	----	----
2/14/2017	<0.10	920	0.56	1.5	0.44
8/15/2017	<0.10	<100	2.4	2.4	0.92
11/15/2017	<0.10	<100	0.92	0.92	0.7
2/20/2019	< 0.10	110	< 1.0	1.5	0.41
5/1/2019	< 0.10	180	< 1.0	< 1.0	0.38
8/7/2019	< 0.10	< 100	----	----	0.45
9/27/2019	----	----	1.1	----	----
Min	<100	<100	<0.2	<0.2	0.15
Max	<100	110	2.4	2.4	0.9
Average	0	201	1.3	1.6	0.6
Median	0	110	0.9	1.5	0.4
n	6	6	6	5	6



Appendix B4 Nutrients: Influent to Terminal

Appendix B Nutrients: Influent to Terminal					
	Nitrite as N	Nitrate as N	Total Kjeldahl Nitrogen	Total Nitrogen	Total Phosphate as P
Date	ug/L	ug/L	mg/L	mg/L	mg/L
MCL	100	10000	----	----	----
DRL	400	400	----	----	----
2/9/2016	<100	280	0.61	0.89	0.45
5/9/2016	<100	1220	0.68	1.9	0.30
8/8/2016	<100	116	0.6	0.72	0.54
11/14/2016	<100	181	0.82	1	0.67
2/14/2017	<100	660	4.5	5.2	0.22
5/8/2017	<100	139	0.52	0.66	0.31
8/28/2017	<100	<100	0.85	0.85	0.55
11/13/2017	<100	<100	0.58	0.58	0.34
2/27/2018	<100	196	2.55	2.75	0.40
5/7/2018	<100	<100	0.769	0.77	0.42
8/1/2018	<100	<100	<1.0	<1.0	0.48
11/6/2018	<100	127	<1.0	<1.0	0.48
2/4/2019	<100	<100	----	----	----
5/6/2019	<100	210	----	----	0.39
8/5/2019	<100	<100	----	----	----
11/4/2019	<100	800	----	----	----
2/3/2020	<100	430	----	----	----
4/27/2020	<100	140	0.43	< 1.0	0.29
5/9/2020	<100	100	0.34	< 1.0	0.40
6/1/2020	<100	300	0.48	< 1.0	0.46



Appendix B Nutrients: Influent to Terminal					
	Nitrite as N	Nitrate as N	Total Kjeldahl Nitrogen	Total Nitrogen	Total Phosphate as P
Date	ug/L	ug/L	mg/L	mg/L	mg/L
MCL	100	10000	----	----	----
DRL	400	400	----	----	----
7/6/2020	<100	<100	0.65	< 1.0	0.42
8/3/2020	<100	130	0.78	< 1.0	0.32
9/9/2020	<100	100	0.66	< 1.0	0.41
10/14/2020	<100	<100	0.56	< 1.0	0.38
11/9/2020	<100	<100	----	----	0.42
12/7/2020	<100	<100	----	----	----
Min	<100	<100	0.39	0.55	0.27
Max	<100	1222	4.5	5.2	0.7
Average	0	320	0.96	1.5	0.41
Median	0	180	0.65	0.87	0.41
n	26	26	20	20	21



Appendix B4 Nutrients: Lopez Creek

Appendix B Nutrients: Lopez Creek					
	Nitrite as N	Nitrate as N	Total Kjeldahl Nitrogen	Total Nitrogen	Total Phosphate as P
Date	ug/L	ug/L	mg/L	mg/L	mg/L
MCL	100	10000	----	----	----
DRL	400	400	----	----	----
2/9/2016	<100	<100	<0.2	<0.20	0.20
5/23/2016	<100	<100	0.32	0.32	0.16
8/10/2016	<100	<100	<0.2	<0.20	0.21
11/9/2016	<100	<100	<0.2	<0.2	0.12
2/14/2017	<100	232	0.2	0.43	0.17
5/23/2017	<100	<100	<0.2	<0.20	0.16
8/15/2017	<100	<100	<0.2	<0.2	0.18
11/15/2017	<100	<100	0.31	0.31	0.18
2/27/2018	<100	<100	1.04	1.04	0.17
5/2/2018	<100	<100	0.35	0.35	0.17
8/1/2018	<100	<100	<1.0	<1.0	0.18
11/6/2018	<100	<100	<1.0	<1.0	0.12
2/20/2019	<100	<100	1.5	1.5	0.12
5/1/2019	<100	150	< 1.0	< 1.0	0.16
8/7/2019	<100	<100	----	----	0.17
11/19/2019	<100	320	< 1.0	----	0.20
2/4/2020	110	230	<0.20	< 1.0	0.19
5/10/2020	<100	<100	<0.20	<0.20	0.18
8/19/2020	<100	<100	<0.20	<1	0.20
11/16/2020	<100	<100	<0.20	----	0.17
Min	<100	<100	<0.2	<0.20	0.12
Max	110	320	1.50	1.50	0.21
Average	<100	46	0.62	0.66	0.17
Median	<100	<100	0.34	0.39	0.17
n	20	20	19	17	20



Appendix B4 Nutrients: Lopez Water Treatment Plant Raw

Appendix B Nutrients: Lopez Water Treatment Plant Raw					
	Nitrite as N	Nitrate as N	Total Kjeldahl Nitrogen	Total Nitrogen	Total Phosphate as P
Date	ug/L	ug/L	mg/L	mg/L	mg/L
MCL	100	10000	----	----	----
DRL	400	400	----	----	----
5/2/2016	<100	<100	----	----	----
5/1/2017	<100	100	----	----	----
5/7/2018	<100	<100	----	----	----
5/6/2019	<100	<100	----	----	----
5/4/2020	<100	<100	----	----	----
Min	<100	<100	----	----	----
Max	<100	100	----	----	----
Average	0	<100	----	----	----
Median	0	<100	----	----	----
n	5	5	----	----	----



Appendix B4 Nutrients: Vasquez Creek Arm

Appendix B Nutrients: Vasquez Creek Arm					
	Nitrite as N	Nitrate as N	Total Kjeldahl Nitrogen	Total Nitrogen	Total Phosphate as P
Date	ug/L	ug/L	mg/L	mg/L	mg/L
MCL	100	10000	----	----	----
DRL	400	400	----	----	----
5/22/2020	<100	<100	<0.20	<1.0	0.16
Min	<100	<100	<0.20	<1.0	0.16
Max	<100	<100	<0.20	<1.0	0.16
Average	0	0	0	0	0.16
Median	0	0	0	0	0.16
n	1	1	1	1	1



Appendix B4 Nutrients: Wittenberg Creek Arm

Appendix B Nutrients: Wittenberg Creek Arm					
	Nitrite as N	Nitrate as N	Total Kjeldahl Nitrogen	Total Nitrogen	Total Phosphate as P
Date	ug/L	ug/L	mg/L	mg/L	mg/L
MCL	100	10000	----	----	----
DRL	400	400	----	----	----
2/14/17	<100	540	0.22	0.76	0.07
2/20/2019	<100	190	<1.0	<1.0	0.11
Min	<100	190	<1.0	<1.0	0.07
Max	<100	560	0.22	0.76	0.11
Average	0	360	0.22	0.76	0.09
Median	0	360	0.22	0.75	0.09
n	2	2	2	2	2



Appendix B5 Limnology: Influent to Plant

Appendix B Limnology: Influent to Plant														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
1/4/2016	----	8.54	6.0	8.13	12.0	1.14	50	0	0	140	0	15	0	71
1/11/2016	----	8.52	5.5	8.15	13.0	1.50	81	0	3	870	0	120	0	670
1/20/2016	----	11.50	6.0	8.62	14.0	1.45	120	0	15	1100	0	360	0	600
1/25/2016	----	12.40	6.0	8.35	14.0	1.75	330	0	10	1300	0	470	0	510
2/1/2016	----	11.10	4.5	8.52	14.0	1.78	630	0	13	2500	0	1100	0	760
2/8/2016	----	9.99	6.0	8.24	14.0	1.18	360	0	13	2000	0	1100	0	510
2/16/2016	----	9.58	6.0	8.55	16.0	0.93	420	0	10	4400	0	3100	0	870
2/22/2016	----	9.48	4.5	8.53	16.1	0.77	0	0	0	9000	0	8000	0	990
2/29/2016	----	9.25	5.5	8.51	16.0	1.75	0	0	0	19000	0	17000	0	1700
3/7/2016	----	8.51	4.5	8.50	15.9	0.97	20	0	10	1500	0	50	0	1400
3/14/2016	----	8.93	8.0	8.48	16.0	0.86	45	0	13	860	0	190	0	610
3/21/2016	----	8.83	7.0	8.51	17.6	1.05	81	15	0	2200	0	270	0	1800
3/28/2016	----	8.68	5.5	8.54	18.1	1.52	180	0	0	1300	0	510	210	360
4/4/2016	----	----	----	8.35	19.0	4.51	270	0	3	12000	9700	550	0	1700
4/5/2016	----	10.01	4.5	8.39	19.3	4.51	50	0	5	4800	2900	460	0	1300
4/11/2016	----	5.79	5.5	8.45	19.7	0.59	240	0	0	670	0	76	5	340
4/18/2016	----	8.46	3.5	8.43	20.2	1.10	0	33	3	2200	38	230	370	1600
4/25/2016	----	8.28	7.0	8.43	19.8	1.17	0	0	0	2600	0	1500	570	500



Appendix B Limnology: Influent to Plant														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
5/2/2016	----	9.03	3.0	8.43	19.7	1.62	60	0	15	920	110	410	70	240
5/9/2016	----	8.47	7.0	8.39	20.0	2.26	560	0	8	1400	190	100	90	450
5/16/2016	----	8.05	2.5	8.48	20.0	2.26	120	0	13	2000	1000	35	88	706
5/23/2016	----	7.38	3.0	7.38	20.8	1.42	140	0	5	2200	110	160	830	980
5/31/2016	----	9.20	6.0	8.52	21.0	2.58	180	23	28	1800	360	150	150	860
6/6/2016	----	2.71	2.5	8.30	21.6	2.35	81	13	40	2000	910	30	220	730
6/13/2016	----	1.69	6.0	8.13	21.8	1.15	0	28	43	2900	390	120	120	2200
6/20/2016	----	1.51	5.5	8.16	21.9	1.82	40	55	48	3100	460	120	290	2100
6/27/2016	----	3.59	5.0	8.19	22.3	2.88	220	120	98	2600	1000	81	240	790
7/5/2016	----	2.78	8.0	8.30	23.0	3.06	0	0	0	3100	2300	0	670	76
7/11/2016	----	5.01	7.7	8.34	24.0	1.96	0	53	88	3700	1400	91	360	1700
7/18/2016	----	4.25	5.5	8.49	24.5	1.36	0	170	60	4900	0	150	220	4300
7/25/2016	----	6.07	7.0	8.38	25.0	1.37	0	63	38	6300	350	110	330	5400
8/1/2016	----	3.12	7.0	8.44	26.0	1.15	0	43	50	4200	250	230	68	3500
8/8/2016	----	5.42	7.0	8.36	25.2	2.19	0	110	40	8700	6000	120	240	2100
8/15/2016	----	3.49	4.5	8.47	24.2	1.94	0	180	130	5500	1700	360	180	2900
8/22/2016	----	2.63	7.0	8.39	24.9	2.28	0	150	100	5200	2400	250	150	2100
8/29/2016	----	3.20	7.0	8.40	24.1	2.14	0	120	100	7800	4800	450	140	2100
9/6/2016	----	3.52	7.0	8.43	23.0	4.94	15	0	0	800	15	310	8	450
9/12/2016	----	3.86	6.0	8.31	22.7	1.10	0	0	0	1600	50	390	5	1200



Appendix B Limnology: Influent to Plant														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
9/19/2016	----	2.66	7.0	8.20	22.8	1.57	15	0	0	3700	91	1100	10	2500
9/26/2016	----	1.76	3.5	8.19	22.7	1.53	0	0	0	2100	120	960	28	980
10/3/2016	----	3.18	3.0	8.22	22.0	2.85	0	0	0	27000	8500	7000	0	12000
10/11/2016	----	5.12	7.0	8.31	21.0	3.11	0	50	20	4300	0	1200	100	3000
10/17/2016	----	5.04	6.0	8.18	20.0	3.20	0	0	0	14000	5700	2600	40	5400
10/24/2016	----	6.18	3.0	8.40	19.2	3.20	0	160	0	50000	15000	2400	0	32000
10/31/2016	----	5.95	6.0	8.34	18.4	4.11	0	0	0	47000	6700	650	0	40000
11/3/2016	----	----	----	8.22	18.5	----	20	0	0	46000	10000	360	0	36000
11/7/2016	----	3.51	6.0	8.19	18.6	3.87	81	0	0	17000	4800	81	40	12000
11/14/2016	----	7.30	7.0	8.24	17.4	2.82	120	20	0	15000	0	20	0	15000
11/21/2016	----	0.89	10.0	7.89	17.4	3.93	0	0	0	13000	400	0	0	13000
11/23/2016	----	----	----	8.07	15.7	----	380	0	0	8200	0	20	20	7800
11/28/2016	----	1.33	7.5	7.91	15.2	2.33	40	0	0	4600	0	20	0	4500
12/5/2016	----	4.44	5.0	7.94	17.5	2.19	81	0	0	12000	0	0	81	12000
12/12/2016	----	4.02	6.0	7.97	15.4	2.14	81	0	0	15000	0	100	0	15000
12/19/2016	----	4.44	6.5	7.85	12.7	1.70	0	0	0	16000	0	120	0	16000
12/27/2016	----	6.25	2.0	7.90	12.7	2.07	40	0	0	19000	0	140	0	19000
1/3/2017	----	7.13	7.0	8.09	12.5	2.40	2300	0	0	6600	88	44	0	4200
1/9/2017	----	4.59	7.0	8.14	19.1	2.00	0	0	0	3900	130	33	0	3700
1/17/2017	----	6.74	6.0	8.07	12.6	2.10	130	0	0	3400	0	44	0	3200



Appendix B Limnology: Influent to Plant														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
1/23/2017	----	6.95	4.0	8.07	12.1	2.70	0	0	0	1600	44	22	0	1500
1/30/2017	----	6.60	2.0	7.89	11.9	7.90	0	0	0	810	110	0	0	700
2/6/2017	----	3.50	7.0	8.16	18.8	1.60	0	0	0	370	0	0	0	370
2/14/2017	----	7.22	5.5	8.22	13.9	1.30	0	0	0	55	0	11	0	44
2/22/2017	----	4.11	4.0	8.02	16.4	1.00	0	0	0	230	55	0	0	180
2/27/2017	----	6.03	3.0	8.10	13.9	0.73	0	0	0	99	0	0	0	99
3/6/2017	----	5.93	3.8	8.13	13.3	0.52	0	0	0	130	0	0	0	130
3/13/2017	----	7.30	5.5	7.58	15.2	0.52	0	0	0	77	0	22	0	55
3/20/2017	----	8.00	6.0	8.08	16.4	0.57	0	0	0	11	0	11	0	0
3/27/2017	----	5.84	4.8	8.07	15.7	0.39	0	3	5	10	0	3	0	0
4/3/2017	----	6.97	6.5	8.41	17.4	0.93	0	0	0	0	0	0	0	0
4/10/2017	----	4.36	4.0	8.08	17.0	0.42	0	0	0	1400	0	0	40	1400
4/17/2017	----	6.09	7.0	8.18	17.3	1.50	88	0	0	4600	0	0	0	4500
4/24/2017	----	5.34	6.0	8.55	16.9	0.52	0	0	0	160	0	0	0	160
5/1/2017	----	4.73	2.0	8.18	17.4	0.50	0	0	0	590	0	0	20	570
5/8/2017	----	5.69	1.9	8.07	19.4	0.53	0	0	20	240	0	0	20	200
5/15/2017	----	4.66	7.0	8.13	19.4	0.42	99	0	11	280	0	0	0	160
5/22/2017	----	6.49	4.0	8.10	19.4	0.97	99	0	0	3000	1400	1400	0	110
5/30/2017	----	6.66	7.0	8.34	17.6	0.13	0	0	0	9000	7100	1900	0	0
6/5/2017	----	6.94	7.0	8.43	20.6	1.61	16	0	4	10000	8100	2300	0	45



Appendix B Limnology: Influent to Plant														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
6/12/2017	----	6.38	3.0	8.84	18.0	1.58	0	0	1	14000	11000	2600	0	300
6/19/2017	----	5.60	4.0	8.37	19.5	0.87	88	0	6	1300	10	860	0	320
6/26/2017	----	5.80	4.0	8.51	22.2	0.68	170	0	33	3700	0	3400	0	120
7/3/2017	----	4.99	7.0	8.19	17.5	0.81	16	0	89	1600	0	1500	0	36
7/10/2017	----	----	----	----	21.3	2.30	0	0	37	2000	18	2000	3	1
7/10/2017	----	5.20	4.0	8.27	19.4	1.60	0	0	150	2900	30	2700	0	62
7/12/2017	----	----	----	----	22.1	----	0	0	81	1200	0	1100	0	30
7/12/2017	----	----	----	----	24.0	----	0	0	84	1300	160	1000	0	80
7/17/2017	----	3.90	5.5	8.33	22.3	0.60	0	0	34	290	70	180	0	11
7/19/2017	----	----	----	----	21.2	----	44	0	160	840	0	620	1	10
7/24/2017	----	4.23	7.0	8.40	22.4	0.50	72	0	14	600	70	380	0	62
7/31/2017	----	3.84	7.0	8.33	22.8	0.66	12	0	27	350	10	210	0	91
8/7/2017	----	6.10	7.0	8.14	24.3	1.20	0	0	86	410	200	90	0	30
8/28/2017	----	6.30	7.0	8.21	23.9	2.10	0	2	210	960	730	2	0	20
9/6/2017	----	8.40	7.0	8.33	25.0	2.30	16	5	600	680	0	20	0	34
9/11/2017	----	4.40	7.0	8.00	23.1	1.60	0	0	240	500	260	0	0	0
9/20/2017	----	5.80	7.0	7.90	22.3	1.20	84	2	21	380	220	0	0	56
9/25/2017	----	4.00	10.0	7.89	21.4	2.70	88	33	270	510	0	1	0	120
10/2/2017	----	5.40	22.0	8.09	20.6	2.80	0	0	370	1000	400	0	0	250
10/10/2017	----	7.10	10.0	8.12	20.1	3.00	0	0	300	410	110	0	0	0



Appendix B Limnology: Influent to Plant

	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
10/16/2017	----	6.40	20.0	8.01	19.5	3.10	0	1	320	530	210	0	0	0
10/23/2017	----	5.20	10.0	8.04	20.4	3.50	0	0	520	680	0	0	0	160
10/31/2017	----	6.00	7.0	8.37	19.0	2.30	0	1	260	370	110	1	0	0
11/6/2017	----	6.50	7.0	7.98	19.4	1.90	0	0	190	360	170	0	0	1
11/13/2017	----	6.50	2.0	7.98	19.7	2.20	0	66	530	670	0	0	0	71
11/20/2017	----	6.30	9.0	8.10	17.9	2.40	10	0	270	350	70	0	0	0
11/27/2017	----	9.20	10.0	8.19	17.9	2.40	15	0	410	600	170	0	0	0
12/4/2017	----	----	30.0	8.28	17.4	3.00	8	1	170	190	10	0	0	0
12/11/2017	----	5.30	7.0	7.87	16.0	1.60	0	7	88	200	96	0	0	12
12/18/2017	----	6.80	7.0	7.70	18.0	1.80	0	0	240	550	280	30	0	0
12/26/2017	----	8.10	35.0	7.90	17.2	2.40	0	2	120	360	0	4	0	240
1/2/2018	----	8.34	7.0	8.18	15.5	1.20	0	0	0	0	0	0	0	0
1/8/2018	----	8.00	10.0	7.80	14.3	1.30	0	0	40	40	0	0	0	0
1/16/2018	----	4.90	5.5	7.96	13.5	0.97	0	0	0	75	0	50	0	25
1/22/2018	----	4.80	5.5	7.84	13.5	0.78	0	3	0	190	170	15	0	5
1/29/2018	----	5.80	5.0	7.88	14.6	0.54	0	0	4	63	0	2	0	57
2/5/2018	----	7.80	4.0	7.80	14.8	1.10	32	0	0	120	0	69	0	19
2/13/2018	----	7.44	10.0	8.00	13.2	0.50	500	0	0	720	90	110	0	18
2/20/2018	----	8.03	7.0	8.01	13.6	0.69	2300	0	3	3900	90	1500	0	16
2/27/2018	----	9.50	7.0	8.03	14.8	0.82	6600	0	4	19000	200	12000	0	12



Appendix B Limnology: Influent to Plant														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
3/5/2018	----	7.53	7.0	8.06	15.0	1.47	130	1	0	8000	160	7700	0	30
3/12/2018	----	9.11	7.0	7.99	14.6	1.80	360	1	1	630	30	110	0	130
3/19/2018	----	6.37	4.0	8.18	14.6	0.50	100	0	1	490	42	87	0	260
3/26/2018	----	6.50	6.0	8.39	16.9	0.40	980	3	0	1400	130	47	0	250
4/2/2018	----	6.80	4.0	8.27	17.0	0.09	200	0	1	600	45	170	0	180
4/9/2018	----	6.50	5.5	7.88	19.1	2.80	18	3	0	1400	120	1100	0	110
4/16/2018	----	7.00	3.0	8.37	17.7	0.92	64	0	4	1100	92	920	0	42
4/23/2018	----	6.20	4.0	8.41	18.2	0.71	110	0	33	12000	11000	240	0	270
4/30/2018	----	5.20	4.0	8.38	18.1	1.10	0	0	14	3600	1600	440	0	1500
5/7/2018	----	6.80	4.0	8.33	20.0	1.20	40	0	21	2200	780	1100	0	220
5/14/2018	----	5.52	4.0	8.27	20.0	0.73	180	5	6	2300	36	1800	0	250
5/21/2018	----	4.80	4.0	8.27	20.0	0.99	18	0	0	630	32	580	0	0
5/29/2018	----	4.70	4.0	8.23	19.5	0.53	0	0	0	360	36	310	0	12
6/4/2018	----	6.80	4.0	8.26	19.6	0.50	0	0	0	620	30	580	0	9
6/11/2018	----	6.70	4.0	8.26	20.0	1.10	60	0	0	680	45	560	0	12
6/18/2018	----	4.60	4.0	8.15	20.8	3.00	110	0	3	560	10	260	0	180
6/25/2018	----	5.00	4.0	8.19	21.7	0.81	48	1	4	790	160	470	0	110
7/2/2018	----	7.20	3.0	8.26	20.1	0.81	6	1	4	1100	130	700	0	300
7/9/2018	----	5.50	4.0	8.25	21.5	0.83	54	1	1	1100	210	670	0	160
7/16/2018	----	5.40	3.0	8.34	23.1	1.20	0	0	0	8400	45	7600	0	800



Appendix B Limnology: Influent to Plant														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
7/23/2018	----	6.80	4.0	8.39	23.4	1.40	0	1	4	17000	0	17000	0	370
7/30/2018	----	5.00	4.0	8.37	22.7	2.80	140	0	0	1600	0	1300	0	170
8/6/2018	----	6.10	2.0	8.22	24.9	1.10	42	0	1	1800	440	1400	0	4
8/13/2018	----	5.60	3.5	8.31	23.0	0.83	0	0	0	2000	1400	540	0	4
8/21/2018	----	6.70	3.0	8.42	24.4	1.20	6	0	0	2200	0	1400	0	720
8/27/2018	----	4.40	3.5	8.33	24.5	2.20	18	0	1	4700	0	4600	0	85
9/4/2018	----	6.50	3.0	8.31	24.7	0.69	48	0	6	520	0	420	0	41
9/10/2018	----	5.90	4.0	8.31	23.5	0.45	0	1	4	72	0	30	0	37
9/17/2018	----	4.80	4.0	8.27	21.2	0.52	0	7	6	440	0	400	0	27
9/24/2018	----	4.40	2.0	8.26	21.4	0.72	0	0	4	37	0	30	0	3
10/1/2018	----	3.60	4.0	8.28	21.1	0.64	0	10	21	240	24	92	0	96
10/9/2018	----	4.70	4.0	8.25	19.8	1.00	0	0	40	110	0	0	0	72
10/15/2018	----	4.60	7.0	8.15	19.0	0.44	0	14	10	190	110	6	0	49
10/22/2018	----	5.30	4.2	8.22	20.1	1.23	0	4	3	140	140	0	0	0
10/29/2018	----	5.10	3.0	8.13	19.5	0.72	0	4	3	32	0	0	0	25
11/5/2018	----	4.10	2.0	8.15	19.2	0.77	0	7	1	100	60	30	0	6
11/14/2018	----	1.20	4.0	8.04	16.8	0.73	0	0	10	40	0	0	0	30
11/19/2018	----	2.70	4.0	7.86	16.5	0.41	0	4	0	170	0	150	0	14
11/26/2018	----	3.10	4.0	7.94	16.1	0.39	0	4	0	110	10	90	0	6
12/3/2018	----	3.60	3.0	3.12	14.9	0.48	0	9	3	43	0	30	0	1



Appendix B Limnology: Influent to Plant														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
12/10/2018	----	5.20	3.0	7.94	14.8	0.33	0	21	1	61	0	20	0	19
12/17/2018	----	5.10	2.5	7.92	14.1	0.40	0	1	0	190	0	120	0	70
12/24/2018	----	6.80	4.0	8.01	14.3	0.55	0	74	0	1200	0	0	0	1100
12/31/2018	----	8.20	4.0	7.96	13.4	0.50	0	16	0	40	0	24	0	0
1/7/2019	----	6.60	4	8.1	12.3	0.38	0	28	0	55	0	0	0	27
1/14/2019	----	----	4	8.1	12.9	6.80	0	13	4	44	0	10	0	17
1/22/2019	----	9.00	4	8.2	12.8	0.47	0	16	0	53	0	1	0	36
1/28/2019	----	8.64	4	8.1	13.6	0.47	0	28	0	300	40	15	0	220
2/4/2019	----	8.17	4	8.3	13.1	0.52	0	24	4	140	0	40	0	69
2/11/2019	----	8.10	2.5	8.1	12.3	0.66	0	24	3	130	0	72	0	34
2/19/2019	----	8.25	4	8.1	13.3	0.51	0	10	10	70	0	2	0	48
2/25/2019	----	----	2.5	8.1	12.5	0.43	0	6	2	18	0	0	0	10
3/4/2019	----	8.57	3	8.1	13.2	0.39	0	4	4	22	0	0	0	14
3/11/2019	----	6.71	3	8.1	13.2	0.49	0	10	7	70	0	1	0	52
3/18/2019	----	7.00	3	8.1	13.5	0.30	0	16	0	100	0	0	0	85
3/25/2019	----	6.41	4	8.1	14.8	0.29	0	10	14	100	0	1	0	76
4/1/2019	----	7.62	4	8.0	14.7	0.31	0	13	16	53	0	0	0	24
4/8/2019	----	6.20	3.5	8.2	16.6	0.28	0	0	10	85	0	36	0	39
4/15/2019	----	6.40	4	8.2	17.5	0.34	0	10	10	280	0	0	0	260
4/22/2019	----	5.70	3.5	8.2	17.3	0.43	0	3	1	85	30	16	0	35
4/29/2019	----	6.30	4	8.2	17.7	0.50	0	17	8	120	70	23	0	4



Appendix B Limnology: Influent to Plant														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
5/6/2019	----	6.40	3.5	8.2	17.9	0.52	0	13	7	180	110	7	0	48
5/13/2019	----	6.40	3	8.2	18.2	0.52	0	10	13	110	30	1	0	54
5/20/2019	----	6.15	4	8.3	18.7	0.55	0	3	6	310	170	7	0	120
5/28/2019	----	5.20	4	8.0	19.5	0.47	0	0	3	4	0	1	0	0
6/3/2019	----	7.90	3.5	8.2	18.2	0.67	120	6	4	1400	820	0	0	440
6/10/2019	----	5.70	4	8.2	19.5	1.40	240	3	7	270	0	0	0	21
6/17/2019	----	4.08	4	8.1	19.7	0.44	81	2	38	170	7	0	0	44
6/24/2019	----	5.20	4	8.2	20.8	0.52	0	4	41	66	7	0	0	14
7/1/2019	----	4.70	4	8.3	20.0	2.90	0	4	2	43	14	0	0	23
7/8/2019	----	4.50	2	7.9	22.0	1.00	0	0	31	140	75	30	0	0
7/15/2019	----	4.30	4	8.0	21.8	2.20	0	2	8	78	0	0	0	68
7/22/2019	----	4.37	4	8.2	24.5	0.41	0	6	16	61	21	4	0	14
7/29/2019	----	4.10	3.5	8.2	20.9	1.20	0	0	30	250	7	120	0	90
8/5/2019	----	3.92	4	8.4	21.6	0.56	1	7	0	21	0	0	0	13
8/12/2019	----	4.26	3.5	8.3	22.1	1.30	0	8	21	4100	0	4100	0	21
8/19/2019	----	3.00	4	8.1	23.0	1.40	44	3	0	4600	0	4400	0	150
8/26/2019	----	4.10	4	7.9	21.9	0.90	160	7	2	4300	0	2900	0	1200
9/3/2019	----	6.30	2	8.0	23.7	0.78	0	7	7	690	0	560	0	120
9/9/2019	----	3.90	3.5	8.2	23.2	0.45	0	6	10	430	0	320	0	90
9/16/2019	----	3.90	3	8.2	21.5	0.37	0	0	0	120	21	10	0	84
9/23/2019	----	3.70	3.5	8.2	21.8	0.49	0	0	0	190	0	180	0	12
9/30/2019	----	3.60	4	8.2	22.6	0.35	0	1	0	150	15	120	0	12
10/7/2019	----	5.20	2.5	7.8	21.8	0.40	0	0	21	1300	92	110	0	88
10/15/2019	----	4.70	4	8.2	19.7	0.99	0	6	9	5500	110	5300	0	60



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Appendix B Limnology: Influent to Plant

	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
10/21/2019	----	6.31	4	8.4	19.4	1.00	0	1	10	3400	0	3400	0	6
10/28/2019	----	4.96	4	8.3	20.0	1.20	0	3	13	1700	10	1700	0	0
11/4/2019	----	5.30	4	8.2	18.2	1.40	0	3	9	430	0	420	0	1
11/12/2019	----	3.80	4	8.1	18.5	0.72	0	11	0	780	0	770	0	0
11/18/2019	----	3.20	2.5	8.2	16.7	1.60	0	20	5	190	130	38	0	3
11/25/2019	----	3.50	4	7.9	16.3	0.64	0	23	3	66	0	30	0	10
12/2/2019	----	5.10	2.5	7.9	16.7	0.70	0	10	0	76	0	5	0	60
12/9/2019	----	5.80	2	7.9	15.0	0.50	0	8	0	10	0	0	0	3
12/16/2019	----	5.80	1.5	7.7	15.3	0.59	45	0	0	110	0	0	0	60
12/23/2019	----	6.97	3.5	7.9	14.4	0.62	0	0	0	260	220	0	0	35
12/30/2019	----	8.53	4	8.0	13.4	0.56	0	7	7	14	0	0	0	0
1/6/2020	----	7.45	4	8.1	13.3	0.49	0	14	7	28	0	7	0	0
1/13/2020	----	7.53	4	7.8	12.8	0.66	0	7	0	20	0	3	0	10
1/21/2020	----	7.86	4	7.7	12.4	1.00	0	7	0	60	0	3	0	50
1/28/2020	----	7.32	2	8.1	11.8	1.10	2	17	0	150	50	0	0	78
2/3/2020	----	7.89	2	8.2	12.6	0.51	0	0	22	57	0	0	0	35
2/10/2020	----	8.20	2.5	8.0	12.7	0.42	0	0	0	180	0	0	0	180
2/18/2020	----	8.01	4	7.9	12.5	0.58	12	0	0	41	0	0	0	29
2/24/2020	----	6.59	3	8.1	13.3	0.43	0	10	0	10	0	0	0	0
3/3/2020	----	7.20	3	8.5	13.7	0.68	0	15	0	60	45	0	0	0
3/10/2020	----	6.42	3.5	7.8	15.2	0.77	0	0	7	280	0	35	0	240
3/17/2020	----	6.72	4	8.0	14.5	0.39	0	5	0	79	0	7	0	67
3/24/2020	----	5.94	2.5	8.0	13.5	0.52	0	0	0	200	15	0	0	180
3/30/2020	----	5.92	2.7	8.1	14.0	0.41	12	2	0	29	0	3	0	12



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Appendix B Limnology: Influent to Plant

	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
4/6/2020	----	8.00	3	8.2	15.2	0.46	0	5	0	260	0	0	0	250
4/13/2020	----	8.60	4	7.9	15.4	0.34	0	0	0	70	0	0	0	70
4/20/2020	----	5.90	4	8.2	15.1	0.50	0	0	0	60	0	0	0	60
4/27/2020	----	7.20	1.5	8.2	16.3	0.33	0	0	0	160	0	5	0	160
5/4/2020	----	7.54	3	8.2	17.2	0.50	0	7	0	120	0	0	0	110
5/11/2020	----	6.32	4	8.3	18.8	0.46	0	7	0	12	0	0	0	5
5/18/2020	----	6.26	3.5	8.2	18.0	0.56	12	2	0	270	0	70	0	190
5/26/2020	----	5.40	2.5	8.2	20.1	0.58	0	5	0	65	0	0	0	60
6/1/2020	----	6.01	1.8	8.3	20.0	0.68	0	4	2	28	0	2	0	20
6/8/2020	----	3.96	3	8.1	19.6	0.67	0	0	7	260	70	0	0	180
6/15/2020	----	5.27	3	8.2	19.9	1.80	0	7	27	52	0	6	0	12
6/22/2020	----	5.13	3	8.2	20.2	0.79	0	7	0	40	0	4	7	22
6/29/2020	----	4.03	4	8.2	21.8	0.91	0	7	10	110	0	89	33	32
6/29/2020	----	----	----	8.28	20.5	----	4	10	0	96	0	10	10	0
7/6/2020	----	3.85	4	8.3	21.5	0.64	0	17	0	52	0	8	7	20
7/13/2020	----	3.90	2.5	8.4	21.9	0.71	5	12	5	40	0	5	0	13
7/20/2020	----	3.98	4	8.4	22.6	0.59	3	30	0	49	0	5	5	6
7/27/2020	----	5.43	1.8	8.4	20.9	0.78	0	10	0	310	0	300	0	0
8/3/2020	----	3.87	4	8.4	22.1	0.89	0	7	2	1300	0	1300	7	20
8/10/2020	----	3.56	2	8.3	23.2	0.43	0	0	0	28	0	0	2	26
8/17/2020	----	3.28	3	8.4	22.3	0.59	0	5	5	250	0	75	0	170
8/24/2020	----	4.55	4	8.3	23.6	0.73	0	5	0	55	0	50	0	0
9/1/2020	----	7.48	2.2	8.4	23.3	0.91	0	0	0	50	50	0	0	0
9/9/2020	----	5.61	4	8.5	23.7	0.43	0	0	0	340	0	15	10	320



Appendix B Limnology: Influent to Plant

	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
9/15/2020	----	4.71	3	8.5	23.4	1.20	0	5	0	230	100	25	0	100
9/22/2020	----	7.58	4	8.5	22.6	1.00	0	10	0	340	200	5	0	120
9/29/2020	----	7.21	2	8.5	22.0	0.72	0	0	0	390	250	0	0	140
10/6/2020	----	6.45	2.5	8.5	22.4	1.10	10	0	0	1400	1200	0	0	160
10/14/2020	----	6.84	2.5	8.4	22.3	1.50	10	0	0	260	50	0	0	200
10/20/2020	----	7.04	3.5	8.5	22.5	1.20	0	0	0	5	0	0	5	0
10/27/2020	----	5.74	2.5	8.4	21.8	1.00	520	0	0	520	0	0	0	0
11/2/2020	----	5.07	2.5	8.3	19.6	0.96	0	0	0	680	0	0	0	680
11/9/2020	----	3.79	3	8.2	18.3	0.88	0	0	0	2200	0	2000	0	180
11/16/2020	----	4.94	3	8.37	17.0	1.7	0	0	0	480	100	200	0	180
11/23/2020	----	4.38	3	8.2	15.2	1.1								
11/30/2020	----	7.21	2.00	8.2	15.1	0.9	0	0	0	330	0	0	0	330
12/7/2020	----	6.85	2.00	8.2	14.6	0.9	0	10	0	220	0	100	20	85
12/14/2020	----	6.76	4.00	8.3	13.5	0.8	0	5	0	55	0	5	5	40
12/21/2020	----	8.66	1.00	8.3	13.6	0.8	0	20	0	300	0	35	10	240
12/28/2020		6.45	1.00	8.3	12.7	0.8	0	10	0	220	0	0	0	210
Min	----	0.9	1.00	3.1	11.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max	----	12.4	35.00	8.8	26.0	7.9	6600	180	600	50000	15000	17000	830	40000
Average	----	5.9	4.81	8.2	18.5	1.3	82	9	29	2587	527	652	23	1267
Median	----	5.9	4.00	8.2	19.0	0.9	0	0	2	430	0	30	0	78
n	----	256	259.00	263.0	267.0	261.0	267	267	267	267	267	267	267	267



Appendix B5 Limnology: Lopez Lake 2

Appendix B Limnology: Lopez Lake 2														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
3/15/2017	5	9.66	4	8.4	15	2.2	0	0	0	330	0	88	0	240
4/5/2017	5	7.95	4	8.38	16.50	3.5	0	0	0	300	0	300	0	0
4/12/2017	5	7.42	5.5	8.1	16	2.3	0	0	0	110	0	110	0	0
4/19/2017	10	9.85	4	8.4	16	3.8	0	66	0	3600	0	3400	0	130
4/26/2017	10	11.19	3.5	8.8	18	2.5	0	20	40	790	0	730	0	0
5/3/2017	10	10.10	7	8.8	19	2.1	0	0	0	460	0	420	40	0
5/10/2017	10	8.29	3.5	8.2	19	1.7	0	61	0	420	0	280	61	20
5/17/2017	10	7.93	3.9	8.4	18	2.8	0	22	0	180	0	160	0	0
5/24/2017	5	6.42	4	8.2	20	1.6	0	22	0	22	0	0	0	0
5/31/2017	10	7.09	5	8.3	20	2.0	0	55	0	400	260	0	0	88
6/7/2017	10	7.86	7	8.5	20	3.0	0	0	0	4000	2800	120	0	32
6/14/2017	10	9.70	7	8.8	21	7.8	270	9	0	26000	22000	60	28	3800
6/21/2017	5	10.00	7	8.8	22	5.5	12	10	0	10000	10000	17	0	100
6/28/2017	10	9.00	7	9.0	22	6.6	0	3	3	5500	5300	150	11	56
7/5/2017	5	9.00	4	8.9	21.70	5.6	0	28	11	8900	8400	350	0	61
7/12/2017	5	11.00	10	8.9	23	16.0	0	27	28	41000	40000	120	18	590
7/19/2017	5	10.00	5.5	9.0	23	12.0	0	18	37	55000	54000	420	11	480
Min	5	6.42	3.5	8.1	15	1.63	0	0	0	22	0	0	0	0
Max	10	11.2	10	9.0	23	16.0	270	66	40	55000	54000	3400	61	3800
Average	8	8.97	5	8.6	19	4.76	17	20	7	9236	8398	396	10	329
Median	10	9.00	5	8.5	20	2.95	0	18	0	790	0	150	0	56
n	17	17	17	17	17	17	17	17	17	17	17	17	17	17



Appendix B5 Limnology: Lopez Lake 3

Appendix B Limnology: Lopez Lake 3														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
2/15/2017	10	7.1	2.0	8.1	13.0	24.0	0	22	0	66	0	0	0	44
3/15/2017	20	9.2	4.0	8.36	14.8	2.1	0	0	0	210	0	55	0	150
4/5/2017	20	7.6	4.0	8.4	16.4	3.1	0	40	0	670	0	460	0	160
4/12/2017	20	7.0	4.0	8.1	16.2	2.4	0	11	11	380	0	350	0	0
4/19/2017	25	9.9	5.0	8.4	16.4	3.5	0	22	11	2000	0	2000	0	0
4/26/2017	25	10.6	3.5	8.7	17.6	2.8	0	20	0	850	0	810	20	0
5/3/2017	25	8.2	7.0	8.5	17.4	2.1	0	0	20	1200	0	1200	40	0
5/10/2017	25	7.8	3.5	8.2	18.7	2.1	0	40	0	400	0	280	40	40
5/17/2017	25	7.9	3.0	8.4	18.2	2.0	0	0	0	77	0	77	0	0
5/24/2017	20	6.0	3.0	8.2	19.5	1.4	0	22	0	22	0	0	0	0
5/31/2017	25	6.5	4.0	8.3	19.4	1.9	11	0	0	1100	990	11	11	99
6/7/2017	25	7.6	7.0	8.4	20.3	2.4	16	0	0	2000	960	48	0	1000
6/14/2017	25	9.4	5.7	8.7	20.4	9.6	170	6	0	23000	19000	0	0	3800
6/21/2017	20	10.0	6.5	8.8	21.9	5.1	36	4	1	9300	9200	21	3	18
6/28/2017	25	8.9	5.5	8.9	22.1	6.9	0	6	6	8200	8000	150	10	36
7/5/2017	20	8.9	4.0	8.8	21.6	5.6	0	7	3	7700	7300	280	0	80
7/12/2017	20	10.0	6.0	8.9	22.6	7.3	0	7	0	19000	18000	180	7	660
7/19/2017	20	8.0	5.5	9.0	22.8	9.8	0	4	63	45000	44000	360	31	340
7/26/2017	20	9.1	7.0	9.1	22.6	5.1	0	31	52	7800	7000	120	41	580
8/2/2017	20	6.5	4.5	8.7	22.5	4.0	0	36	45	4100	4000	0	26	40
8/9/2017	20	6.8	6.5	8.7	22.8	3.9	0	47	150	620	340	26	44	8
8/16/2017	20	5.3	7.5	8.9	22.4	3.7	0	34	290	1600	1000	18	120	110



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Appendix B Limnology: Lopez Lake 3														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
8/23/2017	20	5.7	7.0	8.8	22.5	4.0	0	150	440	3000	2200	22	34	160
8/30/2017	20	4.7	7.0	8.6	22.4	3.3	0	12	79	4100	3800	7	58	180
9/6/2017	20	6.2	4.0	8.7	23.7	2.5	0	37	160	390	0	63	0	130
9/13/2017	20	5.9	2.0	8.6	23.4	1.9	0	24	110	680	310	5	0	230
9/20/2017	15	5.1	2.0	8.7	21.9	2.1	0	5	32	370	310	0	0	25
9/27/2017	15	6.2	5.5	8.5	20.7	2.6	0	51	88	790	450	11	0	190
10/11/2017	15	6.7	4.0	8.4	19.2	1.8	0	6	70	240	90	5	0	66
11/15/2017	15	7.3	2.5	8.3	16.6	1.8	0	3	16	98	64	0	0	15
12/13/2017	15	7.4	5.5	8.2	12.9	2.8	0	1	7	170	130	5	0	25
1/11/2018	15	11.0	4.5	8.3	12.6	2.0	0	0	5	940	20	800	0	120
2/14/2018	10	11.0	7.0	8.5	12.4	3.8	0	10	24	9000	220	8700	0	16
3/15/2018	15	10.7	7.0	8.6	13.0	2.4	----	----	----	----	----	----	----	----
4/4/2018	15	10.0	7.0	8.5	15.4	2.3	0	11	6	1000	420	38	0	560
4/11/2018	15	10.5	5.5	8.7	16.9	3.0	0	65	15	1300	0	250	0	920
4/18/2018	15	8.6	3.5	8.6	16.8	2.4	20	30	10	220	0	10	0	150
4/25/2018	15	9.8	6.5	8.6	17.7	2.6	0	47	27	620	410	99	0	37
5/2/2018	15	8.3	2.0	8.6	17.5	2.3	0	71	17	480	100	180	0	110
5/9/2018	15	9.0	4.0	8.6	18.6	2.5	0	21	40	400	96	220	14	12
5/16/2018	15	8.3	4.5	8.7	18.6	2.5	20	26	24	120	10	0	0	38
5/23/2018	15	7.5	5.5	8.6	19.1	2.8	0	4	57	620	560	1	0	0
5/30/2018	15	7.7	4.0	8.6	19.2	2.7	0	1	44	3200	3200	3	0	0
6/6/2018	15	8.8	3.5	8.7	19.8	4.2	0	6	33	10000	9900	1	0	14
6/13/2018	15	8.1	2.5	8.7	20.4	4.2	0	8	81	840	730	14	0	3
6/20/2018	15	7.6	4.0	8.7	20.3	4.0	0	18	42	1000	970	14	0	2



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Appendix B Limnology: Lopez Lake 3														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
6/27/2018	10	7.7	4.0	8.7	21.0	3.7	0	16	69	590	480	4	0	19
7/3/2018	10	7.5	6.5	8.7	21.6	3.1	0	20	17	390	350	0	0	0
7/11/2018	10	8.2	6.0	8.8	22.5	2.8	0	0	37	750	570	0	0	140
7/18/2018	10	7.2	3.5	8.8	22.5	3.3	0	54	120	1400	1200	0	0	0
7/25/2018	10	7.9	3.5	8.8	23.1	3.4	0	9	24	960	900	0	0	31
8/1/2018	10	6.6	2.5	8.8	22.7	4.6	0	170	0	2300	1900	110	0	52
8/8/2018	10	7.2	4.0	8.7	22.4	4.3	0	74	120	720	160	140	0	230
8/15/2018	10	7.0	4.0	8.9	22.7	3.1	0	40	34	470	110	3	0	280
8/22/2018	10	6.9	3.0	8.8	22.8	3.1	0	1	26	140	0	0	0	110
8/29/2018	10	6.4	5.0	8.7	22.2	2.7	0	3	17	190	0	0	0	170
9/5/2018	10	6.8	5.0	8.7	22.0	2.4	0	9	11	67	15	0	0	32
9/12/2018	5	6.8	3.0	8.7	21.6	3.0	0	6	29	130	20	0	0	79
9/19/2018	5	6.6	4.0	8.6	20.6	2.6	0	18	18	330	30	0	0	260
9/26/2018	5	7.1	3.0	8.7	20.2	2.1	0	7	7	32	0	0	0	18
10/10/2018	5	6.2	2.5	8.6	19.7	2.2	0	30	20	150	0	0	0	100
2/19/2019	10	8.6	2.5	8.23	11.4	4.7	0	13	14	66	0	6	33	33
3/13/2019	15	9.9	3.5	8.37	12.6	3.4	0	47	51	200	0	13	89	89
4/3/2019	20	10.1	3	8.56	15.5	2.7	0	4	4	120	8	41	60	60
4/10/2019	20	10.8	4	8.8	16.5	2.5	14	18	69	230	0	69	56	56
4/24/2019	20	9.8	3.5	8.6	18	2.2	34	27	12	600	400	110	20	20
5/1/2019	20	9.5	4	8.63	18	3.1	0	78	48	1400	1200	3	78	78
5/8/2019	20	10.1	4	8.8	18.6	3.9	58	40	30	3600	3300	90	120	120
5/15/2019	20	9.8	4	8.93	19.3	6.8	0	10	0	28000	28000	6	24	24
5/22/2019	20	10.6	7	8.78	18.5	11	0	18	7	55000	55000	17	33	33



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Appendix B Limnology: Lopez Lake 3														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
5/29/2019	20	9.3	4	8.72	18.2	4.9	65	100	87	7200	5700	900	350	350
6/5/2019	20	9.0	4	8.79	19.5	8.8	35	150	150	18000	18000	60	110	110
6/12/2019	20	4.1	4	8.75	19.5	5.8	17	23	33	1700	1600	10	31	31
6/19/2019	20	9.1	4	8.88	21.2	4.5	11	200	170	930	320	7	220	220
6/26/2019	20	8.6	5.5	8.88	21.2	3.5	79	130	370	810	140	21	66	66
7/3/2019	20	6.9	4	8.86	21.4	3.4	34	130	140	800	450	11	40	40
7/10/2019	20	7.6	4	8.91	21.6	3.7	20	100	120	1100	800	20	52	52
7/17/2019	20	6.2	4	8.98	22	4.2	52	280	290	1200	420	74	71	71
7/24/2019	20	5.8	4	8.85	22.4	3.6	23	110	140	400	14	75	40	40
7/31/2019	20	6.8	2.5	8.9	22.4	5.6	28	170	180	730	210	55	84	84
8/7/2019	20	7.1	1.5	8.95	22.3	3	11	98	130	650	250	75	83	83
8/14/2019	20	7.6	1.5	8.76	22.2	3.1	33	87	200	990	390	88	180	180
8/21/2019	20	7.9	4	8.77	22.4	3.3	42	75	190	940	420	38	170	170
8/28/2019	15	7.1	3	8.8	22.5	2.9	18	55	140	800	470	62	51	51
9/4/2019	----	----	4	----	----	2.9	18	61	130	830	520	50	52	52
9/11/2019	15	6.1	4	8.9	22.3	2.7	0	3	33	5300	5100	91	32	32
9/18/2019	15	6.0	4	8.6	21.9	2.5	0	7	18	1400	280	4	1100	1100
9/25/2019	15	6.2	4	8.96	21.6	2.3	0	1	23	420	240	0	150	150
10/2/2019	15	5.4	4	8.4	20.4	2.5	0	16	7	280	90	0	170	170
10/9/2019	15	6.5	4	8.69	19.3	2.6	0	1	17	120	10	9	84	84
10/16/2019	15	6.2	3	8.71	18	2.7	0	16	7	220	10	0	190	190
10/23/2019	15	7.3	4	8.69	17.9	2.9	0	21	20	210	0	10	160	160
10/30/2019	15	7.1	4	8.48	17.1	3.2	0	1	8	160	10	1	140	140
11/6/2019	15	6.3	4	8.5	15.8	2.7	0	16	6	34	0	1	11	11



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Appendix B Limnology: Lopez Lake 3														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
12/11/2019	15	5.8	4	8.24	13.5	2.6	0	33	0	150	0	0	120	120
1/15/2020	15	7.9	3.5	8.4	11.5	2.8	0	30	0	85	0	0	55	55
2/13/2020	15	9.4	2.8	8.47	11.2	2.9	17	580	0	1700	0	0	1100	1100
3/11/2020	15	10.5	3	8.43	13.7	2.2	22	460	40	1300	50	22	660	660
4/11/2020	15	9.1	3	8.59	14.3	3.1	0	60	920	2300	350	35	940	940
4/19/2020	15	11.5	4	8.78	15.8	3.8	0	95	0	3600	30	3200	310	310
4/29/2020	15	8.3	2.5	8.58	18.9	2.1	0	17	220	950	540	47	30	30
5/6/2020	15	11.1	4	8.71	19.6	5.2	0	42	110	32000	32000	51	160	160
5/14/2020	15	9.5	4	8.77	19.8	10	0	130	5	58000	57000	210	200	200
5/22/2020	10	8.4	4	8.77	19.6	7.1	9	240	42	18000	17000	390	260	260
5/27/2020	10	9.8	4	8.82	20.7	6.6	0	28	37	29000	26000	400	2300	2300
6/4/2020	15	9.4	4	8.81	20.9	4.9	0	0	400	3500	0	110	2600	2600
6/10/2020	10	8.8	3	8.83	20.4	3.7	0	93	210	1900	0	41	880	880
6/17/2020	10	7.9	3	8.84	20.9	3.9	30	40	260	1300	150	65	380	380
6/24/2020	10	7.0	4	8.76	21.5	4.4	0	9	150	14000	13000	140	320	320
7/1/2020	10	6.4	4	8.69	21.7	4.4	0	55	50	2400	1600	180	220	220
7/8/2020	15	6.9	4	8.65	21.8	5.7	10	95	50	9400	8400	420	55	55
7/15/2020	10	7.9	4	8.04	22.1	6.8	10	10	40	8200	7300	480	240	240
7/22/2020	10	7.5	7	8.85	22.3	7.1	0	340	30	11000	10000	280	440	440
7/29/2020	10	6.9	4	8.78	22.3	5.9	0	520	40	16000	14000	260	670	670
8/5/2020	10	6.5	4	8.78	22.1	4.6	0	420	71	31000	28000	150	2200	2200
8/12/2020	10	8.2	4	8.77	22.1	3.6	0	180	36	3800	1200	510	1600	1600
8/19/2020	10	4.7	4	8.88	23.8	3.6	0	130	170	2700	1200	220	930	930
8/26/2020	10	4.9	4	8.79	23.2	3.4	17	26	110	4100	2600	9	1100	1100



Appendix B Limnology: Lopez Lake 3

	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
9/1/2020	5	4.1	3.5	8.7	22.3	3	25	120	65	6400	4800	5	1400	1400
9/9/2020	5	6.9	7	8.77	22.3	3.9	5	30	5	2800	1100	30	1600	1600
9/15/2020	5	7.4	2	8.77	21.1	2.9	5	70	40	4000	1100	5	2700	2700
9/22/2020	5	6.3	3	8.77	20.8	3.2	5	50	50	5300	50	0	5100	5100
9/29/2020	5	8.4	3	8.77	21	2.9	5	60	30	9700	0	0	9600	9600
10/14/2020	5	8.5	3	8.71	20.5	2.8	15	80	20	4200	100	0	4000	4000
11/16/2020	5	6.8	1	8.65	15.7	2.7	0	30	0	6300	300	30	5900	5900
Min	5	4	1	8	11	1	0	0	0	22	0	0	0	0
Max	25	12	8	9	24	24	170	580	920	58000	57000	8700	9600	9600
Average	15	8	4	9	20	4	8	61	70	4944	4038	213	425	515
Median	15	8	4	9	20	3	0	27	33	995	345	22	37	110
n	124	124	125	124	124	125	124	124	124	124	124	124	124	124



Appendix B5 Limnology: Lopez Lake 4

Appendix B Limnology: Lopez Lake 4														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
1/12/2016	----	9.4	5.0	8.00	10.4	4.2	0	96	3	310	0	8	0	210
2/10/2016	----	10.5	5.0	8.26	11.5	4.1	0	490	13	1000	0	0	0	510
3/15/2016	----	11.7	9.0	8.39	15.1	4.3	0	380	3	810	0	400	0	23
4/5/2016	----	10.1	5.5	8.34	17.6	3.6	0	25	0	280	0	190	0	66
4/12/2016	----	9.2	5.5	8.47	17.3	4.0	290	0	5	1800	718	180	8	560
4/20/2016	----	8.1	5.5	8.72	17.8	4.3	0	340	3	1600	380	30	710	110
4/27/2016	----	6.9	6.0	8.36	17.7	4.3	0	390	10	1700	1100	13	190	30
5/4/2016	----	8.5	7.0	8.51	18.5	4.6	0	23	13	1300	880	5	50	350
5/11/2016	----	9.7	5.5	8.65	19.4	5.8	30	8	40	3400	2600	200	140	420
5/18/2016	----	9.6	7.0	8.56	20.0	9.7	81	15	38	2700	1400	50	106	1100
5/26/2016	----	8.3	7.0	8.65	19.7	5.6	0	2200	14	7700	1400	42	750	3400
6/1/2016	----	9.7	7.0	8.70	20.3	5.0	25	30	190	1700	430	200	110	700
6/1/2016	----	8.0	7.0	8.70	20.3	3.3	81	81	240	2500	500	380	130	1100
6/8/2016	----	6.6	7.0	8.64	21.0	3.4	81	110	81	6900	0	490	150	6000
6/15/2016	----	8.8	3.0	8.70	20.9	3.7	0	170	240	3800	430	150	130	2700
6/22/2016	----	6.6	2.0	8.63	22.1	11.6	0	0	0	130	0	0	0	130
2/15/2017	25	7.6	4.0	8.15	11.7	2.5	0	0	0	44	0	0	0	44
3/15/2017	35	6.7	2.8	8.06	12.0	3.0	0	0	0	480	0	480	0	0
4/5/2017	35	6.7	4.5	8.22	15.6	2.7	0	11	0	150	0	140	0	0
4/12/2017	35	7.5	3.0	8.14	16.1	3.7	0	11	0	670	0	610	0	55
4/19/2017	40	6.2	3.0	8.25	16.1	2.8	0	0	0	930	0	930	0	0
4/26/2017	40	5.0	7.0	8.10	15.3	2.3	0	0	0	1600	0	1600	0	0
5/3/2017	40	3.8	3.0	8.15	15.8	2.0	0	20	40	440	0	340	40	0
5/10/2017	40	3.3	4.0	7.72	16.1	1.7	22	0	0	110	0	44	0	44



Appendix B Limnology: Lopez Lake 4														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
5/17/2017	40	2.6	5.0	7.94	16.2	1.7	0	0	0	22	0	22	0	0
5/24/2017	35	2.8	3.0	7.99	17.5	2.0	11	0	0	170	160	0	0	0
5/31/2017	40	1.9	4.0	7.99	17.3	1.8	0	0	0	290	120	31	0	140
6/7/2017	40	4.5	3.8	7.89	16.8	3.2	40	2	0	4100	3300	42	4	680
6/14/2017	40	5.4	3.0	8.12	17.8	4.2	0	3	0	930	720	4	0	200
6/21/2017	35	3.8	3.0	7.94	18.5	1.6	0	0	0	63	60	3	0	0
6/28/2017	40	5.7	4.5	7.96	17.7	2.9	0	24	3	720	540	69	0	80
7/5/2017	35	3.7	15.0	8.44	20.4	3.0	0	1	0	3200	3100	23	0	130
7/12/2017	35	2.4	5.0	8.22	20.0	2.9	0	1	10	2500	2500	0	0	0
7/19/2017	35	4.4	7.0	8.35	20.8	4.2	0	10	35	4200	3600	96	23	490
7/26/2017	35	5.6	7.0	8.71	21.8	4.0	0	29	19	4400	4300	0	31	70
8/2/2017	35	0.7	6.5	8.67	22.1	3.1	0	37	140	550	320	3	43	8
8/9/2017	35	2.3	7.0	8.34	21.9	2.9	0	89	200	1400	1000	22	11	33
8/16/2017	35	5.2	7.0	8.78	22.2	3.6	0	190	500	3900	3000	38	17	180
8/23/2017	35	4.6	7.0	8.80	22.4	3.0	0	12	81	4500	4100	5	38	270
8/30/2017	35	1.4	3.7	8.60	22.4	1.7	0	21	92	200	20	14	0	51
9/6/2017	35	0.8	3.5	8.46	22.5	1.7	0	10	19	210	120	0	0	62
9/13/2017	35	4.8	1.9	8.28	22.2	1.8	0	19	57	290	140	2	2	74
9/20/2017	30	5.5	5.5	8.67	21.9	2.0	0	91	130	840	410	50	0	160
9/27/2017	30	6.5	4.0	8.52	20.7	1.8	0	4	74	210	70	7	0	52
10/11/2017	30	7.2	2.5	8.43	19.2	1.5	0	6	26	79	30	1	0	16
11/15/2017	30	7.0	4.0	8.31	16.5	2.8	0	7	6	80	60	0	0	7
12/13/2017	30	11.0	2.0	8.19	12.9	1.7	0	0	0	1200	0	920	0	270
1/11/2018	30	10.6	6.5	8.31	12.6	3.1	0	13	7	9400	230	9100	4	0
3/15/2018	30	8.1	6.5	8.37	12.1	3.1	0	3	1	330	88	24	0	210
4/4/2018	30	6.9	5.0	8.34	13.9	2.4	0	5	4	270	0	30	0	230



Appendix B Limnology: Lopez Lake 4

	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
4/11/2018	30	5.6	2.5	8.33	14.0	2.1	0	60	10	100	0	0	0	30
4/18/2018	30	5.9	5.5	8.29	15.4	2.2	0	54	20	570	430	46	0	22
4/25/2018	30	7.9	0.5	8.32	15.9	3.3	0	38	16	310	48	190	0	17
5/2/2018	30	8.7	3.0	8.56	17.5	2.4	0	23	18	240	80	120	0	4
5/9/2018	30	4.3	4.5	8.58	18.4	2.5	20	9	16	80	32	3	0	0
5/16/2018	30	4.5	5.5	8.41	17.7	2.4	0	3	58	390	330	0	0	0
5/23/2018	30	7.4	3.5	8.33	18.3	2.4	0	7	21	980	950	1	0	4
5/30/2018	30	8.4	3.5	8.54	19.1	3.3	0	6	34	3600	3600	0	0	13
6/6/2018	30	4.8	2.5	8.62	19.8	3.1	0	10	28	220	180	1	0	4
6/13/2018	30	2.7	4.0	8.74	19.2	3.5	0	17	22	140	100	1	0	3
6/20/2018	30	7.6	4.0	8.39	19.5	3.2	0	7	50	890	800	19	0	16
6/27/2018	25	7.1	6.5	8.65	21.0	2.7	0	16	13	350	320	0	0	0
7/3/2018	25	4.8	7.0	8.67	21.6	2.5	0	6	30	150	15	3	0	94
7/11/2018	25	6.6	3.5	8.59	21.9	2.9	0	11	51	530	390	0	0	81
7/18/2018	25	7.1	4.0	8.73	22.4	3.8	0	6	92	1800	1500	0	0	170
7/25/2018	25	6.4	2.5	8.76	23.1	4.4	0	61	61	1400	1100	41	0	96
8/1/2018	25	7.1	3.0	8.76	22.7	4.2	0	150	120	560	140	100	0	56
8/8/2018	25	6.4	4.0	8.66	22.4	3.2	0	23	45	260	60	0	0	130
8/15/2018	25	6.7	2.0	8.90	22.7	3.2	0	10	34	150	30	0	0	76
8/22/2018	25	6.5	4.0	8.79	22.8	2.2	0	0	26	230	0	0	0	210
8/29/2018	25	6.4	5.0	8.66	22.2	2.5	0	0	18	140	45	0	0	72
9/5/2018	25	6.6	3.0	8.64	22.0	2.6	0	9	3	60	10	3	0	39
9/12/2018	20	6.6	2.5	8.72	21.6	2.4	0	17	28	260	90	0	0	120
9/19/2018	20	6.6	3.5	8.57	20.6	2.5	0	0	9	9	0	1	0	160
9/26/2018	20	6.9	2.5	8.67	20.2	2.0	0	14	23	130	0	0	0	97
10/10/2018	20	6.2	2.5	8.60	19.7	3.9	0	28	19	240	0	3	0	190



Appendix B Limnology: Lopez Lake 4

	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
11/14/2018	15	5.7	3.5	8.47	15.4	3.1	0	10	0	140	0	0	0	130
12/12/2018	20	5.7	3.5	8.27	13.5	3.0	0	10	0	0	0	0	0	0
1/10/2019	15	8.1	2.0	8.23	12	3.4	0	3	0	0	21	3	0	15
2/19/2019	25	8.1	1.8	8.22	11	4.7	0	17	16	16	91	6	0	52
3/13/2019	30	10.0	3.0	8.42	13	3.3	0	9	41	41	120	16	0	54
4/3/2019	35	6.6	2.4	8.26	13	2.2	0	0	4	4	20	0	0	0
4/10/2019	35	7.6	2.0	8.39	14	2.0	18	3	17	17	130	3	0	85
4/24/2019	35	6.9	2.0	8.19	15	2.2	14	20	37	37	120	7	0	24
5/1/2019	35	3.4	2.0	8.08	15	2.4	0	16	17	17	130	0	0	50
5/8/2019	35	2.8	2.0	8.19	16	3.5	0	6	13	13	240	3	0	130
5/15/2019	35	1.7	2.0	8.34	16	3.1	0	1	0	0	300	3	0	0
5/22/2019	35	2.2	2.0	8.21	17	3.0	0	0	4	4	830	0	0	6
5/29/2019	35	4.3	3.0	8.48	17	2.3	0	4	18	18	420	280	0	86
6/5/2019	35	2.0	3.0	8.29	17	4.1	11	18	37	37	460	11	0	49
6/12/2019	35	0.2	2.5	8.28	17	4.2	9	26	19	19	980	4	0	10
6/19/2019	35	1.0	2.0	8.38	19	3.8	3	13	8	8	120	11	0	80
6/26/2019	35	0.6	5.5	8.41	19	3.5	54	72	210	210	470	4	0	11
7/3/2019	35	0.2	3.0	8.48	20	3.6	0	78	120	120	540	7	0	40
7/10/2019	35	1.1	2.0	8.72	21	3.5	18	88	170	170	420	7	0	20
7/17/2019	35	1.8	2.5	8.81	22	3.0	41	140	99	99	390	23	0	91
7/24/2019	35	1.9	4.0	8.66	22	3.0	0	51	21	21	200	62	0	38
7/31/2019	35	4.2	2.0	8.77	22	5.3	0	27	18	18	370	77	0	120
8/7/2019	35	7.0	1.5	8.95	22	2.9	0	41	46	46	510	65	0	110
8/14/2019	35	2.1	1.8	8.48	21	3.0	66	66	110	110	730	55	0	130
8/21/2019	35	8.0	4.0	8.77	22	3.0	8	78	110	110	730	24	0	130
8/28/2019	30	7.0	4.0	8.80	23	2.7	0	25	150	150	680	55	0	44



Appendix B Limnology: Lopez Lake 4

	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
9/4/2019	----	----	4.0	----	----	2.1	10	50	88	88	240	38	0	58
9/11/2019	30	6.0	3.5	8.90	22	2.6	0	16	17	17	3800	89	18	49
9/18/2019	30	5.6	3.5	8.61	22	4.3	0	9	16	16	690	1	0	320
9/25/2019	30	5.6	2.0	8.94	21	2.1	0	0	6	6	280	3	0	160
10/2/2019	30	5.1	4.0	8.44	20	2.4	0	23	4	4	150	10	0	110
10/9/2019	30	6.2	4.0	8.70	19	2.7	0	4	10	10	270	4	0	240
10/16/2019	30	6.2	2.5	8.71	18	2.8	0	14	12	12	120	0	0	84
10/23/2019	30	7.1	4.0	8.70	18	2.4	0	14	11	11	500	0	0	470
10/30/2019	30	6.8	2.5	8.51	17	3.1	0	11	5	5	41	7	0	18
11/6/2019	30	6.2	3.5	8.50	16	2.9	0	11	5	5	24	0	0	8
12/11/2019	30	5.7	3.5	8.26	14	2.5	0	15	0	0	140	0	0	120
1/15/2020	30	7.7	3.0	8.41	12	2.6	0	30	0	0	50	0	0	20
2/13/2020	30	9.4	2.0	8.47	11	3.9	80	0	0	0	530	30	0	420
3/11/2020	30	8.0	2.5	8.33	13	1.6	0	27	40	40	460	55	0	320
4/11/2020	30	7.3	2.0	8.50	14	2.3	0	15	210	210	610	25	0	360
4/19/2020	30	7.1	4.0	8.51	15	2.1	0	10	0	0	740	710	0	12
4/29/2020	30	5.3	3.5	8.31	15	2.7	0	5	60	60	950	20	15	50
5/6/2020	30	8.4	3.0	6.42	17	5.3	0	5	47	47	21000	24	0	100
5/14/2020	30	4.7	2.5	8.48	19	3.2	0	23	0	0	640	70	0	73
5/22/2020	25	2.6	2.5	8.36	18	2.8	0	19	0	0	320	88	0	160
5/27/2020	25	5.1	2.5	8.59	19	3.8	0	14	19	19	11000	640	0	1100
6/4/2020	30	5.2	3.0	8.62	20	2.9	0	55	110	110	2500	50	700	1600
6/10/2020	25	4.2	3.0	8.63	20	3.3	0	89	250	250	1300	19	460	500
6/17/2020	25	7.5	3.0	8.83	21	4.0	50	180	110	110	1200	30	400	180
6/24/2020	25	6.4	2.5	8.74	21	3.8	0	200	150	150	3600	130	240	78
7/1/2020	25	5.9	4.0	8.66	22	4.0	5	55	35	35	2500	220	340	240



Appendix B Limnology: Lopez Lake 4

	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
7/8/2020	30	6.0	4.0	8.62	22	4.5	0	25	55	55	5100	970	220	240
7/15/2020	25	7.8	4.0	8.87	22	6.5	0	10	0	0	7300	470	130	20
7/22/2020	25	7.0	6.0	8.85	22	5.5	0	61	130	130	9900	240	220	580
7/29/2020	25	7.2	4.0	8.78	22	5.6	0	230	91	91	13000	140	330	430
8/5/2020	25	7.4	4.0	8.78	22	4.7	0	300	40	40	19000	210	130	1900
8/12/2020	25	5.7	1.5	8.77	22	3.3	0	150	0	0	3200	350	120	1100
8/19/2020	25	4.2	1.5	8.79	23	3.0	0	75	19	19	1600	220	98	770
8/26/2020	25	3.0	3.5	8.61	23	2.9	0	7	55	55	2500	2	140	760
9/1/2020	20	4.3	3.0	8.69	22	3.1	0	45	5	5	4000	10	260	2500
9/9/2020	20	5.4	4.0	8.76	22	3.7	20	35	20	20	2600	10	5	1700
9/15/2020	20	6.2	2.0	8.74	21	2.6	0	15	25	25	3800	0	10	3200
9/22/2020	20	4.8	2.5	8.75	21	3.3	0	15	20	20	6600	10	75	6200
9/29/2020	20	7.2	3.0	8.74	21	2.6	5	5	15	15	3000	5	25	2800
10/14/2020	20	8.4	1.5	8.70	20	3.0	0	20	40	40	8700	10	0	8100
11/16/2020	20	6.5	1.0	8.66	16	2.8	0	10	0	0	4800	10	0	3600
12/8/2020	20	6.2	0.0	8.37	13	3.2	0	40	0	530	50	30	0	410
Min	15	0.15	0	6.42	10.4	1.5	0	0	0	0	0	0	0	0
Max	40	11.67	15	8.95	23.2	11.6	290	2200	500	9400	21000	9100	750	8100
Average	30	6	4	8	19	3	8	58	43	719	1430	161	46	454
Median	30	6.21	3.5	8.51	19.4	3	0	15	18	135	350	12	0	85.5
n	127	143	144	143	143	144	144	144	144	144	144	144	144	144



Appendix B5 Limnology: Lopez Lake 5

Appendix B Limnology: Lopez Lake 5														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
1/12/2016	----	9.1	4.5	8.00	10.4	4.0	0	38	3	140	0	0	0	100
2/10/2016	----	10.0	3.5	8.23	11.4	3.8	0	390	10	690	0	0	0	300
3/15/2016	----	10.9	6.5	8.35	14.7	4.1	0	330	0	1600	810	410	0	5
4/5/2016	----	9.6	8.0	8.30	16.6	4.1	0	0	3	920	0	0	0	920
4/12/2016	----	5.3	9.0	8.25	16.4	4.3	280	0	3	2700	1424	140	10	860
4/20/2016	----	7.4	7.5	8.71	17.7	5.1	0	240	3	820	230	8	310	33
4/27/2016	----	6.8	6.0	8.36	17.6	4.7	0	490	0	1300	680	13	63	13
5/4/2016	----	8.4	7.0	8.49	18.4	5.3	160	5	13	1800	840	170	43	570
5/11/2016	----	7.7	6.5	8.54	18.9	4.9	130	0	20	2200	1100	33	81	840
5/18/2016	----	8.6	6.8	8.52	19.8	8.2	81	0	18	1700	830	43	68	610
5/26/2016	----	7.4	3.5	8.60	19.5	4.5	0	1700	0	4700	340	130	250	2300
6/1/2016	----	7.8	6.5	8.65	20.0	4.4	0	50	110	1700	240	170	110	1000
6/8/2016	----	5.3	7.0	8.63	21.0	3.1	60	55	210	6100	0	110	71	5800
6/15/2016	----	5.0	3.0	8.66	20.7	3.7	0	140	33	3200	340	140	98	2300
6/22/2016	----	7.5	6.5	8.52	21.3	3.6	0	220	180	2700	770	86	98	1400
6/29/2016	----	6.2	7.5	8.71	22.3	3.8	0	180	180	3000	310	14	300	1900
7/6/2016	----	6.7	7.0	8.74	22.1	4.4	0	63	310	2100	0	190	290	1400
7/13/2016	----	7.3	7.0	8.73	21.9	4.2	0	150	160	3500	200	190	150	2700
7/20/2016	----	7.2	7.0	8.69	22.0	3.8	0	220	130	4100	200	300	200	3000
7/27/2016	----	7.8	7.0	8.75	22.5	4.1	0	242	190	4700	380	260	190	3400
8/3/2016	----	5.5	10.0	8.67	22.7	3.8	0	150	280	5200	380	280	180	3500
8/10/2016	----	6.3	7.0	8.66	22.0	4.1	0	200	120	4600	970	340	210	3600
8/18/2016	----	5.8	5.0	8.61	21.9	3.9	0	180	190	4100	38	280	170	3200
8/22/2016	----	5.2	6.5	8.61	21.5	3.2	0	340	260	4300	0	380	240	3100



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Appendix B Limnology: Lopez Lake 5														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
8/31/2016	----	6.0	6.5	8.59	21.5	4.2	23	50	210	2300	130	130	120	1700
9/7/2016	----	6.6	3.0	8.54	21.0	4.1	78	18	3	2100	230	130	50	1700
9/12/2016	----	8.0	6.0	8.42	21.1	3.6	0	170	0	2000	130	58	370	1300
9/21/2016	----	5.5	3.0	8.59	20.8	3.1	170	0	35	9800	25	300	270	9100
9/28/2016	----	5.5	6.5	8.59	20.3	3.9	0	81	0	1800	0	61	20	1600
10/12/2016	----	5.0	3.5	8.54	18.8	4.5	40	160	0	10000	0	180	20	10000
11/9/2016	----	7.5	3.5	8.47	17.3	5.3	320	81	0	10000	0	0	0	9300
12/14/2016	10	8.2	7.0	8.48	13.5	31.0	0	33	0	2600	710	0	0	2400
1/13/2017	20	5.6	2.0	8.19	11.8	8.6	0	0	0	460	11	180	11	440
2/15/2017	40	5.1	4.0	8.30	11.0	2.9	0	0	0	88	0	11	0	55
3/15/2017	50	4.5	2.0	8.02	11.5	2.6	0	0	0	220	0	33	0	0
4/5/2017	50	4.7	3.0	7.90	12.4	3.3	0	0	0	280	0	220	0	0
4/12/2017	50	4.3	4.0	7.84	13.3	3.5	0	0	11	280	0	260	0	55
4/19/2017	55	3.9	3.5	7.89	12.0	3.0	0	0	0	570	0	220	0	0
4/26/2017	55	2.3	7.0	7.85	12.5	2.5	0	0	0	650	0	570	0	0
5/3/2017	55	1.8	3.0	7.90	12.1	2.5	0	20	0	690	0	650	40	220
5/10/2017	55	1.7	3.0	7.54	13.2	1.7	0	0	40	130	0	360	0	0
5/17/2017	55	0.3	6.5	7.77	13.7	1.7	0	0	0	130	0	130	0	0
5/24/2017	50	0.4	5.5	7.72	14.8	1.6	0	0	0	0	0	130	0	0
5/31/2017	55	0.4	6.5	7.80	13.7	1.4	24	0	0	160	0	0	0	52
6/7/2017	55	2.3	3.0	7.78	13.7	1.5	0	0	0	1600	0	83	0	150
6/14/2017	55	2.9	4.0	7.97	13.7	1.9	0	4	0	1100	1400	0	0	210
6/21/2017	50	2.0	6.5	7.72	14.8	1.4	0	0	0	60	850	1	0	0
6/28/2017	55	4.0	7.5	7.85	14.5	1.5	0	10	0	28	60	0	0	0
7/5/2017	50	2.4	15.0	8.04	15.1	1.6	0	0	0	2000	15	3	4	30
7/12/2017	50	1.4	5.5	7.84	14.6	1.9	0	0	1	480	2000	19	0	40



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Appendix B Limnology: Lopez Lake 5														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
7/19/2017	50	2.5	7.0	7.93	15.6	1.6	0	1	19	390	420	6	10	60
7/26/2017	50	2.1	100.0	8.08	16.0	2.1	0	0	10	420	210	96	7	3
8/2/2017	50	0.3	100.0	7.90	15.5	1.5	0	24	1	580	410	0	17	0
8/9/2017	50	0.2	90.0	7.80	16.5	1.4	0	4	18	630	520	0	21	6
8/16/2017	50	0.2	60.0	8.14	15.2	1.6	0	41	27	950	560	11	14	0
8/23/2017	50	0.2	100.0	8.10	16.8	1.5	0	24	38	940	850	5	0	2
8/30/2017	50	0.2	7.0	7.95	17.4	1.7	0	30	17	160	900	0	0	100
9/6/2017	50	1.5	5.5	8.28	21.4	1.3	0	2	10	130	0	18	0	0
9/13/2017	50	1.1	1.6	7.84	17.6	1.9	0	10	4	500	120	0	0	150
9/20/2017	45	5.0	4.5	8.42	20.0	2.0	0	26	46	750	290	5	0	90
9/27/2017	45	6.5	3.5	8.52	20.6	1.6	0	13	130	870	450	49	0	93
10/11/2017	45	6.7	1.5	8.40	19.2	1.7	0	1	83	130	680	3	0	39
11/15/2017	45	6.9	4.0	8.31	16.5	3.3	0	4	1	120	90	1	0	10
12/13/2017	45	8.8	2.0	8.19	12.9	1.4	0	0	6	450	100	0	0	120
1/11/2018	45	9.2	5.5	8.08	11.3	2.5	0	1	0	460	20	300	0	20
2/14/2018	40	7.6	5.0	8.29	12.1	2.4	0	1	4	5300	190	5100	0	20
3/15/2018	45	5.9	5.0	8.33	11.8	3.0	----	----	----	----	----	----	----	----
4/4/2018	45	5.9	4.5	8.14	12.3	2.4	0	0	0	98	80	0	0	12
4/11/2018	45	4.2	2.5	8.21	12.7	2.3	0	9	7	230	0	28	0	190
4/18/2018	45	3.7	5.0	8.08	13.4	2.6	0	30	10	40	0	0	0	10
4/25/2018	45	2.6	1.2	8.01	13.9	2.6	0	47	14	340	260	19	0	1
5/2/2018	45	1.9	3.0	8.04	14.3	2.8	0	54	8	180	80	14	0	24
5/9/2018	45	1.3	4.0	7.93	15.0	2.6	0	47	24	220	140	4	0	1
5/16/2018	45	1.0	3.0	7.99	15.0	2.9	0	0	6	9	0	0	0	0
5/23/2018	45	0.8	2.5	7.91	15.5	2.8	0	4	3	8	0	0	0	1
5/30/2018	45	1.2	3.0	7.99	16.1	2.2	0	1	11	90	78	0	0	0



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Appendix B Limnology: Lopez Lake 5														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
6/6/2018	45	0.6	2.5	8.04	16.8	1.2	0	1	1	110	100	0	0	0
6/13/2018	60	0.4	3.0	7.89	13.0	1.6	0	1	4	44	39	0	0	0
6/20/2018	45	0.8	4.0	8.00	17.0	2.9	0	3	1	4	0	0	0	0
6/27/2018	40	0.7	4.0	8.08	18.5	2.8	0	4	18	58	30	4	0	2
7/3/2018	40	0.4	7.0	8.17	19.3	1.3	0	6	1	10	0	0	0	3
7/11/2018	40	0.3	45	8.17	19.1	1.3	0	4	7	0	0	0	0	15
7/18/2018	40	0.4	30	8.15	19.3	1.5	0	4	7	12	0	0	0	1
7/25/2018	40	0.3	20	8.17	19.3	1.5	0	0	1	380	0	210	0	170
8/1/2018	40	2.2	7.0	8.29	20.2	2.0	0	6	26	83	30	0	0	21
8/8/2018	40	0.6	2.0	8.39	21.6	2.7	0	52	69	230	0	59	0	51
8/15/2018	40	----	----	----	----	----	----	----	----	----	----	----	----	----
8/22/2018	40	1.1	7.0	8.47	21.6	2.8	0	3	40	91	0	0	0	48
8/29/2018	40	6.3	4.5	8.66	22.2	2.2	0	11	11	110	0	0	0	87
9/5/2018	40	6.6	3.0	8.61	22.0	2.6	0	17	24	130	45	16	0	27
9/12/2018	35	6.4	2.5	8.71	21.6	2.6	0	6	7	38	10	15	0	15
9/19/2018	35	6.4	50	8.57	20.6	2.6	0	7	20	180	40	0	0	110
9/26/2018	35	6.3	2.5	8.69	20.2	1.8	0	0	4	4	0	0	0	1
10/10/2018	35	6.5	1.8	8.62	19.6	2.1	0	13	9	130	0	0	0	110
11/14/2018	30	6.1	1.5	8.47	15.4	3.7	0	33	14	190	0	4	0	140
12/12/2018	35	5.8	1.0	8.30	13.5	3.1	0	4	0	160	0	0	0	160
1/10/2019	30	6.8	2.0	8.2	11.5	2.9	0	0	0	6	0	0	0	6
2/19/2019	40	8.0	2.5	8.2	11.3	5.1	0	9	27	50	0	3	0	11
3/13/2019	45	7.3	3.0	8.2	11.9	3.4	0	23	26	91	0	7	0	35
4/3/2019	50	6.0	1.9	8.1	12.4	2.1	0	0	3	12	0	9	0	0
4/10/2019	50	6.1	2.5	8.3	12.7	1.9	21	6	19	93	0	0	0	47
4/24/2019	50	4.6	2.0	8.0	13.0	2.0	0	11	11	49	0	1	0	26



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Appendix B Limnology: Lopez Lake 5														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
5/1/2019	50	3.2	1.0	8.0	13.0	1.6	0	19	24	74	0	1	0	30
5/8/2019	50	2.0	2.0	8.0	13.1	1.9	0	0	18	46	0	4	0	24
5/15/2019	50	1.8	2.0	8.2	13.4	2.4	0	0	0	640	640	1	0	0
5/22/2019	50	1.3	2.0	8.0	13.0	2.6	0	0	0	690	690	0	0	0
5/29/2019	50	1.7	2.0	8.0	13.3	2.2	0	17	11	120	38	36	0	14
6/5/2019	50	0.3	2.0	7.9	13.6	2.9	13	7	4	770	720	18	0	8
6/12/2019	50	0.1	3.0	8.0	13.9	2.0	0	14	4	220	160	1	0	45
6/19/2019	50	0.1	3.0	8.0	15.8	1.9	0	33	21	74	20	0	0	0
6/26/2019	50	0.1	5.0	8.0	15.5	1.0	0	17	23	56	0	1	0	15
7/3/2019	50	0.1	3.5	8.0	14.8	1.5	0	40	15	110	0	3	0	50
7/10/2019	50	0.1	3.5	8.1	15.1	1.4	3	41	36	96	0	6	0	10
7/17/2019	50	0.1	2.0	8.3	16.7	1.6	3	28	65	120	0	3	0	26
7/24/2019	50	0.1	4.0	8.3	17.9	3.6	0	91	20	160	0	16	0	38
7/31/2019	50	0.1	4.0	8.2	16.5	2.3	0	20	18	100	0	10	0	52
8/7/2019	50	0.1	4.5	8.4	18.4	1.7	0	18	21	170	88	14	0	28
8/14/2019	50	0.1	2.5	8.0	16.7	2.4	6	41	120	350	56	53	0	76
8/21/2019	50	0.2	5.0	8.2	17.5	2.1	0	28	37	220	60	11	0	84
8/28/2019	45	0.1	6.5	8.4	20.9	2.1	0	28	55	280	150	18	0	32
9/4/2020	----	----	4.0	----	----	1.2	0	14	42	110	0	14	0	39
9/11/2019	45	5.7	3.5	8.9	22.2	2.8	0	1	34	4300	4100	95	35	36
9/18/2019	45	5.7	3.5	8.6	21.8	2.6	0	0	18	900	710	45	0	130
9/25/2019	45	4.0	2.0	8.9	21.0	2.2	0	0	6	66	30	9	0	21
10/2/2019	45	5.3	3.5	8.5	20.4	2.4	0	9	0	200	0	0	0	190
10/9/2019	45	6.0	3.5	8.7	19.3	2.6	0	13	14	140	40	6	0	63
10/16/2019	45	6.2	3.0	8.7	18.0	2.7	0	3	2	77	0	11	0	61
10/23/2019	45	6.1	3.5	8.7	17.8	3.0	0	1	12	130	0	0	0	120



Appendix B Limnology: Lopez Lake 5														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
10/30/2019	45	7.1	3.0	8.5	17.0	3.4	0	11	0	180	0	0	0	170
11/6/2019	45	6.0	3.5	8.5	15.7	2.8	0	11	7	30	0	0	0	12
12/11/2019	45	6.0	3.5	8.3	13.5	2.4	0	15	0	140	0	0	0	120
1/15/2020	45	7.6	3.5	8.4	11.4	2.5	0	10	3	33	0	0	0	20
2/13/2020	45	8.8	2.0	8.5	11.2	3.5	12	200	0	820	0	60	0	550
3/11/2020	45	7.4	1.5	8.3	12.6	1.6	0	7	0	230	20	59	0	140
4/11/2020	45	6.4	2.0	8.4	13.8	1.8	0	30	340	440	0	15	0	60
4/19/2020	45	5.9	2.5	8.4	14.1	1.7	0	0	0	320	0	220	0	100
4/29/2020	45	4.7	3.5	8.2	14.4	1.8	0	5	10	840	750	50	0	20
5/6/2020	45	3.7	2.0	8.2	14.6	2.4	0	0	5	1600	1600	0	0	46
5/14/2020	45	2.2	1.0	8.1	14.8	3.6	0	14	5	340	280	42	0	0
5/22/2020	45	1.0	1.8	8.1	15.7	2.7	0	10	0	70	0	42	0	18
5/27/2020	40	0.9	1.5	8.2	17.0	4.0	0	0	0	1100	690	210	0	230
6/4/2020	40	1.2	2.5	8.3	18.0	2.9	0	29	130	1000	0	29	0	860
6/10/2020	45	0.1	3.0	8.2	17.5	2.9	9	33	37	230	0	14	140	0
6/17/2020	40	0.3	3.5	8.4	19.2	4.0	0	25	54	520	0	25	350	64
6/24/2020	40	0.1	2.5	8.4	19.3	1.6	0	63	9	760	460	91	100	32
7/1/2020	40	1.1	4.0	8.5	21.0	3.8	0	25	100	540	100	75	210	25
7/8/2020	40	0.1	4.0	8.4	20.3	4.9	0	20	15	1400	1000	140	140	40
7/15/2020	45	0.1	3.5	8.3	18.7	3.6	0	81	20	1300	900	150	100	10
7/22/2020	40	2.4	5.5	8.5	21.1	5.2	0	110	20	1500	860	81	71	400
7/29/2020	40	2.9	4.0	8.6	21.7	5.9	0	270	71	5400	4000	100	310	610
8/5/2020	40	2.7	3.0	8.6	21.3	6.2	0	10	0	6800	6200	71	40	450
8/12/2020	40	4.3	1.5	8.6	21.7	3.2	0	0	0	1600	46	320	45	800
8/19/2020	40	0.5	1.5	8.5	21.3	2.1	0	0	9	1200	100	190	37	880
8/26/2020	40	0.4	2.0	8.4	21.4	1.8	7	17	0	460	0	0	190	250



Appendix B Limnology: Lopez Lake 5														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
9/1/2020	40	3.9	2.0	8.7	22.2	2.8	0	22	0	150	120	6	0	0
9/9/2020	35	4.8	3.2	8.8	22.3	3.1	5	25	10	4300	920	1	15	3300
9/15/2020	35	4.5	2.0	8.8	20.8	2.9	10	10	15	2200	0	5	10	2100
9/22/2020	35	5.1	2.5	8.8	20.7	3.2	0	30	15	5300	380	5	90	4800
9/29/2020	35	5.5	1.8	8.7	20.7	2.6	0	5	5	3700	75	15	0	3600
10/14/2020	35	6.1	1.0	8.6	20.2	2.8	5	25	20	4300	1300	15	15	2900
11/16/2020	35	6.3	2.0	8.7	15.5	2.8	0	0	10	770	0	0	20	740
12/8/2020	35	6.4	0.0	8.4	12.9	2.5	0	85	0	680	0	45	10	540
Min	10	0.05	0	7.5	10	1.00	0	0	0	0	0	0	0	0
Max	60	10	100	8.9	23	31	320	1700	340	10000	6200	5100	370	10000
Average	45	3.9	7	8.3	17	3.0	9	52	32	1213	311	99	38	677
Median	45	4.5	3.5	8.3	17	2.6	0	11	10	385	30	14	0	50
n	130	160	161	160	160	161	160	160	160	160	160	160	160	160



Appendix B5 Limnology: Lopez Lake 6

Appendix B Limnology: Lopez Lake 6														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
1/12/2016	----	8.5	3.8	7.99	10.3	3.8	0	93	3	240	0	0	0	150
2/10/2016	----	9.7	3.5	8.23	11.4	3.5	0	510	13	1100	0	5	0	600
3/15/2016	----	10.3	6.0	8.33	14.6	4.1	0	260	0	1100	480	370	0	23
4/5/2016	----	7.5	9.0	8.22	16.1	4.8	0	43	0	210	53	96	0	20
4/12/2016	----	3.6	5.5	8.16	15.8	4.6	88	0	8	850	25	76	0	650
4/20/2016	----	2.6	5.0	8.36	16.4	4.6	0	40	0	220	38	8	130	8
4/27/2016	----	5.9	5.8	8.32	17.5	4.5	0	410	0	1100	600	15	40	18
5/4/2016	----	3.2	3.5	8.19	17.3	3.3	40	0	5	790	76	63	35	560
5/11/2016	----	1.8	3.8	8.19	17.5	4.1	120	0	10	1000	0	73	48	750
5/18/2016	----	1.6	5.0	8.12	18.0	4.4	81	0	13	1100	63	35	55	810
5/26/2016	----	1.6	2.0	8.22	18.3	4.1	0	53	0	220	81	0	35	50
6/1/2016	----	1.9	3.0	8.35	19.0	4.0	0	30	91	1300	140	110	76	820
6/8/2016	----	0.8	4.0	8.23	19.5	3.2	40	43	100	900	0	25	50	620
6/15/2016	----	0.7	5.5	8.38	20.1	3.4	81	63	18	3900	0	53	48	3600
6/22/2016	----	0.7	4.5	8.25	20.2	3.4	126	130	91	1600	0	130	71	0
6/29/2016	----	0.4	5.5	8.37	21.1	3.4	0	140	220	1800	0	78	83	1300
7/6/2016	----	6.1	7.0	8.73	22.1	3.8	0	440	300	5300	850	0	170	3500
7/13/2016	----	2.3	5.5	8.56	21.4	4.2	0	100	88	1600	0	120	200	1100
7/20/2016	----	6.1	5.5	8.64	21.8	4.0	0	73	81	2800	0	120	110	2500
7/27/2016	----	1.4	5.5	8.49	21.7	4.1	0	170	240	3200	100	290	190	2200
8/3/2016	----	1.8	6.3	8.42	22.2	4.0	0	200	260	3900	300	240	150	2700
8/10/2016	----	5.5	7.0	8.64	22.0	3.6	0	190	110	4400	320	300	170	3400
8/18/2016	----	6.0	7.0	8.60	21.9	4.0	0	240	200	3800	280	360	120	2600



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Appendix B Limnology: Lopez Lake 6														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
8/22/2016	----	5.9	6.5	8.60	21.5	3.9	0	130	88	1900	0	230	136	1300
8/31/2016	----	4.0	4.0	8.55	21.3	3.3	0	220	150	3700	0	370	190	2800
9/7/2016	----	5.8	4.5	8.55	21.0	4.1	110	13	3	1100	76	130	25	790
9/12/2016	----	6.1	3.0	8.40	21.1	4.1	30	33	3	1300	0	110	35	1100
9/21/2016	----	5.3	6.0	8.50	20.5	2.9	0	60	33	780	0	25	3	660
9/28/2016	----	4.9	2.5	8.59	20.3	3.2	210	0	0	10000	0	300	130	9400
10/12/2016	----	5.1	4.0	8.55	18.8	3.4	0	230	43	4000	0	360	240	3100
11/9/2016	----	5.1	4.0	8.49	17.3	4.6	120	40	0	12000	0	81	20	12000
12/14/2016	25	4.6	3.5	8.39	1.3	5.5	200	40	0	9800	200	120	0	9200
1/13/2017	35	6.7	8.0	8.20	11.4	13.0	0	0	0	1300	22	11	0	1300
2/15/2017	55	4.7	2.0	8.27	10.8	7.1	0	0	0	360	0	11	0	350
3/15/2017	65	4.5	2.8	8.09	11.1	4.0	0	0	0	88	0	0	0	88
4/5/2017	65	3.3	2.0	8.10	11.4	3.3	0	0	0	40	0	40	0	0
4/12/2017	65	3.0	2.0	7.74	11.5	2.9	0	0	0	66	0	66	0	0
4/19/2017	70	2.4	4.0	7.86	11.3	3.3	0	0	0	110	0	110	0	0
4/26/2017	70	2.7	2.5	7.91	11.4	3.0	0	0	0	300	0	280	20	0
5/3/2017	70	1.5	7.0	7.96	11.4	2.3	0	40	0	180	0	140	0	0
5/10/2017	70	1.1	3.5	7.56	11.5	1.5	0	40	0	340	0	300	0	0
5/17/2017	70	1.2	3.5	7.82	11.6	1.0	0	0	0	66	0	66	0	0
5/24/2017	65	0.2	5.5	7.72	12.1	0.8	0	0	0	0	0	0	0	0
5/31/2017	70	0.2	3.5	7.83	11.8	1.8	0	0	0	11	0	11	0	0
6/7/2017	70	0.3	7.0	7.83	11.8	0.8	0	0	0	48	0	8	0	40
6/14/2017	70	1.2	2.5	8.05	12.0	1.2	20	0	0	450	360	0	0	72
6/21/2017	65	1.9	3.0	7.72	11.9	1.0	0	3	0	300	280	0	0	18
6/28/2017	70	2.0	5.5	7.91	11.8	1.5	0	0	0	730	720	6	1	6



Appendix B Limnology: Lopez Lake 6														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
7/5/2017	65	3.3	10.0	8.00	12.1	0.8	0	0	0	1	0	1	0	0
7/12/2017	65	1.7	11.0	7.81	12.1	2.0	0	3	7	2700	2700	14	1	28
7/19/2017	65	1.2	6.0	7.95	12.4	2.3	0	4	8	1000	960	3	0	30
7/26/2017	65	2.0	9.0	8.01	12.6	1.2	0	6	6	340	240	44	11	30
8/2/2017	65	1.8	7.0	7.99	12.4	1.7	0	0	1	440	410	14	9	4
8/9/2017	65	0.3	80.0	7.77	12.4	1.2	0	0	1	790	780	6	0	0
8/16/2017	65	0.2	60.0	8.09	12.4	1.2	0	0	10	510	470	6	16	6
8/23/2017	65	0.2	65.0	7.93	12.8	1.0	0	0	7	810	770	10	12	10
8/30/2017	65	0.2	100.0	7.82	12.6	0.8	0	5	0	840	830	2	0	2
9/6/2017	65	0.2	10.0	7.88	15.2	0.9	0	42	18	120	0	4	0	59
9/13/2017	65	----	7.0	----	----	0.8	0	2	0	96	70	0	0	24
9/20/2017	60	1.7	25.0	7.99	14.4	0.9	0	0	2	140	120	0	0	20
9/27/2017	60	0.5	75.0	7.84	13.3	0.9	0	12	3	140	100	0	0	23
10/11/2017	60	1.4	20.0	7.73	13.4	1.8	0	6	7	360	340	3	0	0
11/15/2017	60	1.1	4.0	7.93	15.4	9.8	0	10	3	57	40	1	0	3
12/13/2017	60	6.3	7.0	8.17	12.9	4.4	0	4	7	150	130	0	0	7
1/11/2018	60	8.2	2.0	8.12	11.2	1.6	0	0	0	73	0	40	0	33
2/14/2018	55	7.7	5.5	8.23	11.9	2.3	0	0	0	2000	250	1700	0	10
3/15/2018	60	7.3	4.0	8.26	11.7	2.5	----	----	----	----	----	----	----	----
4/4/2018	60	5.2	3.5	8.05	12.1	2.7	0	0	0	150	150	0	0	4
4/11/2018	60	5.1	4.5	8.13	12.3	4.8	0	2	5	130	0	31	0	94
4/18/2018	60	3.5	1.9	8.00	12.3	3.3	0	0	0	0	0	0	0	0
4/25/2018	60	3.3	3.5	7.94	12.5	2.8	0	7	4	210	200	1	0	0
5/2/2018	60	2.6	1.2	7.94	12.7	2.3	0	7	6	130	80	28	0	6
5/9/2018	60	1.8	2.5	7.86	12.8	2.1	0	8	13	63	40	1	0	1



Appendix B Limnology: Lopez Lake 6														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
5/16/2018	60	0.8	5.0	7.91	12.6	2.4	0	0	0	0	0	0	0	0
5/23/2018	60	0.5	2.5	7.81	13.1	1.9	0	0	3	23	20	0	0	0
5/30/2018	60	0.5	3.0	7.81	13.1	1.8	0	1	3	66	62	0	0	0
6/6/2018	60	0.6	2.0	7.85	13.5	1.3	0	1	0	110	100	0	0	0
6/13/2018	45	0.9	3.0	8.05	16.8	2.6	0	0	0	97	96	1	0	0
6/20/2018	60	0.4	2.0	7.84	13.3	1.2	0	0	1	81	80	0	0	0
6/27/2018	55	0.4	4.0	7.77	13.8	1.0	0	1	10	26	12	3	0	0
7/3/2018	55	0.3	6.5	7.88	14.8	1.2	0	1	1	38	24	0	0	12
7/11/2018	55	0.3	7.0	7.89	14.2	1.7	0	0	1	13	0	0	0	12
7/18/2018	55	0.4	45.0	7.82	14.4	1.2	0	0	0	420	15	300	0	110
7/25/2018	55	0.4	45.0	7.95	15.6	1.2	0	0	0	150	15	0	0	130
8/1/2018	55	0.3	30.0	7.87	14.2	1.0	0	0	14	15	0	1	0	0
8/8/2018	55	0.4	10.0	7.86	15.7	0.9	0	7	35	46	0	4	0	0
8/15/2018	55	0.3	20.0	8.01	14.7	1.4	0	0	13	25	0	0	0	12
8/22/2018	55	0.3	30.0	7.94	15.2	1.2	0	0	1	37	0	0	0	36
8/29/2018	55	0.3	10.0	7.78	14.8	1.1	0	0	4	19	0	0	0	15
9/5/2018	55	0.4	50.0	7.81	15.0	1.0	0	7	11	38	0	2	0	18
9/12/2018	50	0.2	10.0	8.07	16.9	2.1	0	6	1	34	0	0	0	27
9/26/2018	50	2.2	50.0	8.50	19.5	1.1	0	0	4	0	0	0	0	48
10/10/2018	50	4.7	3.5	8.62	19.4	3.6	0	20	4	25	0	0	0	1
11/14/2018	45	6.2	1.5	8.47	15.4	3.4	0	37	4	110	0	12	0	60
12/12/2018	50	5.9	1.0	8.27	13.5	3.4	0	10	1	120	0	0	0	110
1/10/2019	45	7.0	2.0	8.17	11.4	3.10	0	1	0	2	0	1	0	0
2/19/2019	55	7.8	2.5	8.24	11.3	8.40	0	4	8	45	0	3	0	30
3/13/2019	60	6.2	2.5	8.11	11.2	3.70	0	3	11	48	0	0	0	34



Appendix B Limnology: Lopez Lake 6														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
4/3/2019	65	4.5	2.0	8.04	11.6	2.40	0	1	1	2	0	0	0	0
4/10/2019	65	4.8	2.0	8.13	11.9	2.40	0	5	21	47	0	3	0	18
4/24/2019	65	3.9	2.0	7.99	12.1	1.60	0	3	13	53	10	3	0	24
5/1/2019	65	3.2	1.5	7.99	12.2	1.30	0	6	19	40	0	0	0	15
5/8/2019	65	2.1	2.0	7.99	12.1	1.40	0	4	13	45	0	7	0	21
5/15/2019	65	1.3	2.0	8.15	12.0	2.00	0	0	0	240	240	0	0	0
5/22/2019	65	1.4	2.0	7.90	12.3	1.80	0	0	0	280	280	0	0	0
5/29/2019	65	1.5	1.5	7.95	12.2	2.00	0	7	16	50	0	4	0	23
6/5/2019	65	0.5	2.0	7.79	12.3	2.30	5	1	11	110	60	6	0	25
6/12/2019	65	0.0	2.0	7.88	12.3	1.70	0	14	6	46	0	6	0	20
6/19/2019	65	0.1	1.5	7.82	12.9	1.10	6	28	16	66	15	1	0	0
6/26/2019	65	0.1	2.0	7.82	12.5	0.88	0	6	26	43	0	0	0	11
7/3/2019	65	0.1	4.0	7.86	12.6	3.40	0	6	4	21	0	1	0	10
7/10/2019	65	0.1	4.0	8.02	12.6	1.30	0	8	10	28	0	2	0	8
7/17/2019	65	0.1	4.0	8.10	12.7	10.00	0	8	10	61	0	7	0	36
7/24/2019	65	0.1	4.0	7.96	12.6	1.80	0	20	10	74	0	10	0	34
7/31/2019	65	0.1	20.0	7.96	12.6	2.00	0	11	9	64	0	9	0	35
8/7/2019	65	0.0	5.5	7.98	12.7	1.00	0	11	10	85	14	10	0	40
8/14/2019	65	0.1	3.5	7.82	12.8	2.40	0	18	28	120	0	22	0	54
8/28/2019	65	0.1	45.0	7.82	12.6	1.20	0	18	25	140	50	16	0	26
9/4/2019	60	0.1	4.0	7.97	13.3	0.79	0	8	10	40	0	10	0	12
9/11/2019	60	0.1	3.5	8.15	16.2	0.84	0	0	3	250	240	0	3	5
9/18/2019	60	0.0	4.0	7.78	14.0	0.78	0	0	3	3	0	0	0	0
9/25/2019	60	0.0	2.0	8.04	13.6	1.50	0	1	0	63	40	0	0	22
10/2/2019	60	0.0	4.0	7.76	13.8	1.30	0	9	0	410	0	0	0	400



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Appendix B Limnology: Lopez Lake 6														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
10/9/2019	60	0.0	7.0	7.94	12.8	1.20	0	0	8	20	0	0	0	12
10/16/2019	60	0.8	3.0	8.22	15.0	9.20	0	9	7	47	0	10	0	21
10/23/2019	60	0.3	4.0	8.27	15.5	3.20	0	0	0	210	0	0	0	210
10/30/2019	60	6.6	2.0	8.55	17.0	2.80	0	3	3	19	0	0	0	13
11/6/2019	60	6.0	2.5	8.50	15.7	2.60	0	6	4	21	0	0	0	11
12/11/2019	60	5.9	3.5	8.27	13.5	2.50	0	18	0	98	0	0	0	81
1/15/2020	60	6.9	3.5	8.38	11.4	3.40	0	0	0	17	0	0	0	17
2/13/2020	60	8.7	1.5	8.49	11.1	3.40	0	25	0	1900	0	12	0	1900
3/11/2020	60	7.0	1.5	8.33	12.4	1.70	2	0	0	400	0	95	0	300
4/11/2020	60	5.8	1.0	8.35	13.6	2.20	0	0	0	300	0	100	0	200
4/19/2020	60	0.2	3.0	8.28	13.7	2.20	0	7	0	67	0	52	0	8
4/29/2020	60	4.4	1.0	8.17	13.9	1.80	0	10	15	50	0	15	0	10
5/6/2020	60	2.9	1.0	8.12	14.0	2.90	0	0	0	150	75	0	0	75
5/14/2020	60	2.0	1.0	8.07	14.0	2.10	0	0	0	95	90	5	0	0
5/22/2020	60	1.3	1.6	8.00	14.1	2.30	0	0	0	9	0	9	0	0
5/27/2020	55	0.8	1.0	7.92	14.4	2.30	0	0	14	1900	1700	56	0	170
6/4/2020	55	0.2	2.0	7.95	14.6	1.80	0	14	72	190	0	7	0	95
6/10/2020	60	0.0	2.0	7.96	14.1	1.80	0	29	5	110	0	5	28	40
6/17/2020	55	0.1	1.5	8.03	14.8	1.30	0	20	5	220	0	5	110	84
6/24/2020	55	0.1	1.5	7.95	14.6	1.30	0	18	9	120	0	18	18	61
7/1/2020	55	0.1	4.0	8.14	16.9	1.60	0	25	20	180	30	5	60	45
7/8/2020	55	0.1	4.0	8.03	16.2	1.60	0	35	30	170	50	30	25	0
7/15/2020	60	0.1	2.5	8.00	14.5	1.70	0	30	30	340	0	130	30	120
7/22/2020	55	0.1	4.5	8.13	16.9	1.40	0	10	71	260	0	81	61	40
7/29/2020	55	0.6	3.0	8.04	16.6	1.80	0	10	0	290	0	170	71	40



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Appendix B Limnology: Lopez Lake 6														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
8/5/2020	55	0.3	1.5	8.00	15.3	1.60	0	0	0	3400	3300	20	40	50
8/12/2020	55	0.8	60.0	8.03	16.1	2.70	0	0	0	580	180	18	63	320
8/19/2020	55	0.4	3.0	8.05	16.0	4.20	0	0	0	440	0	150	14	280
8/26/2020	55	0.4	3.5	7.92	14.7	3.00	0	2	2	110	0	2	12	96
9/1/2020	55	0.6	100.0	7.96	16.8	1.40	0	12	0	13	0	0	0	1
9/9/2020	50	0.5	50.0	8.00	16.4	4.50	0	0	0	2400	100	20	15	2300
9/15/2020	50	4.1	7.0	8.72	20.7	6.20	5	5	0	1800	350	5	10	1400
9/22/2020	50	3.0	4.0	8.52	19.9	5.10	0	0	0	1400	0	5	0	1400
9/29/2020	50	0.7	3.0	8.38	19.6	3.50	15	0	0	420	0	0	5	400
10/14/2020	50	4.9	1.0	8.57	20.1	3.20	10	10	0	3100	600	0	15	2500
11/16/2020	50	6.3	3	8.64	15.5	3.6	0	0	0	480	0	0	10	470
12/8/2020	50	6.8	0	8.37	12.9	2.86	0	60	0	580	0	50	10	460
Min	25	0	0	8	1	1	0	0	0	0	0	0	0	0
Max	70	10	100	9	22	13	210	510	300	12000	3300	1700	240	12000
Average	59	3	10	8	15	3	8	30	19	808	136	55	20	537
Median	60	1	4	8	14	2	0	4	3	150	0	6	0	26
n	129	159	160	159	159	160	159	159	159	159	159	159	159	159



Appendix B5 Limnology: Lopez Lake Intake 7

Appendix B Limnology: Lopez Lake 7														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
1/12/2016	----	7.8	4.2	7.97	10.3	4.2	0	----	0	----	----	----	----	----
2/10/2016	----	10.0	3.2	8.22	11.3	3.2	0	----	18	----	----	----	----	----
3/15/2016	----	2.2	3.3	8.03	13.3	3.9	0	----	0	----	----	----	----	----
4/5/2016	----	4.4	6.0	8.08	15.2	4.5	0	----	0	----	----	----	----	----
4/12/2016	----	1.9	5.0	8.06	15.2	5.0	20	----	10	----	----	----	----	----
4/20/2016	----	1.4	4.0	8.26	15.8	4.8	0	----	0	----	----	----	----	----
4/27/2016	----	0.7	7.5	7.95	15.9	4.6	0	----	0	----	----	----	----	----
5/4/2016	----	0.9	2.0	8.02	16.8	3.5	81	----	0	----	----	----	----	----
5/11/2016	----	0.6	2.0	8.07	16.8	3.1	130	----	8	----	----	----	----	----
5/18/2016	----	0.1	4.0	7.94	16.2	3.5	40	----	3	----	----	----	----	----
5/26/2016	----	0.1	2.5	8.03	16.4	2.3	0	----	0	----	----	----	----	----
6/1/2016	----	0.1	2.5	8.08	16.7	2.1	0	----	38	----	----	----	----	----
6/8/2016	----	0.1	4.0	8.08	16.7	2.0	0	----	35	----	----	----	----	----
6/15/2016	----	0.1	6.3	8.04	17.2	1.4	81	----	20	----	----	----	----	----
6/22/2016	----	0.0	6.5	8.10	17.2	1.2	0	----	18	----	----	----	----	----
6/29/2016	----	0.0	7.0	8.02	17.1	1.4	0	----	30	----	----	----	----	----
7/6/2016	----	0.1	52.0	8.17	18.7	3.2	0	----	0	----	----	----	----	----
7/13/2016	----	0.1	5.5	8.26	18.9	1.6	0	----	91	----	----	----	----	----
7/20/2016	----	0.1	7.0	8.17	17.6	5.9	0	----	140	----	----	----	----	----
7/27/2016	----	0.1	7.0	8.26	19.5	3.3	0	----	48	----	----	----	----	----
8/3/2016	----	0.1	10.0	8.34	20.5	4.0	0	----	180	----	----	----	----	----
8/10/2016	----	0.1	5.5	8.21	20.7	9.5	0	----	98	----	----	----	----	----
8/18/2016	----	0.2	50.0	8.31	19.8	3.2	0	86	91	----	----	----	----	----
8/22/2016	----	6.0	6.0	8.35	20.6	3.7	0	150	100	----	----	----	----	----



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Appendix B Limnology: Lopez Lake 7														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
8/31/2016	----	3.0	5.5	8.60	21.5	4.4	0	120	120	----	----	----	----	----
9/7/2016	----	5.8	7.0	8.50	21.1	4.4	30	3	3	----	----	----	----	----
9/12/2016	----	4.0	3.0	8.49	21.0	4.1	40	5	0	----	----	----	----	----
9/21/2016	----	----	6.0	8.38	20.9	3.3	0	110	13	----	----	----	----	----
9/28/2016	----	4.0	7.0	8.48	20.3	3.0	85	0	0	----	----	----	----	----
10/12/2016	----	4.8	10.0	8.55	20.2	4.1	0	140	40	----	----	----	----	----
11/9/2016	----	5.2	3.5	8.55	18.8	4.6	283	0	0	----	----	----	----	----
12/14/2016	40	3.9	3.0	8.53	17.2	5.6	0	81	0	----	----	----	----	----
1/13/2017	50	6.0	4.0	8.35	13.1	10.0	0	0	0	----	----	----	----	----
2/15/2017	70	3.4	2.0	8.24	11.2	6.9	0	0	0	----	----	----	----	----
3/15/2017	80	2.7	2.5	8.14	10.8	3.7	0	0	0	----	----	----	----	----
4/5/2017	80	2.1	1.6	8.07	11.0	3.6	0	0	0	----	----	----	----	----
4/12/2017	80	1.6	3.0	8.04	11.2	3.5	0	0	0	----	----	----	----	----
4/19/2017	85	1.4	7.0	7.77	11.2	74.5	0	0	0	----	----	----	----	----
4/26/2017	85	1.7	3.0	7.95	11.2	2.5	0	0	0	----	----	----	----	----
5/3/2017	85	0.9	4.0	7.95	11.3	1.5	0	0	0	----	----	----	----	----
5/10/2017	85	0.8	3.5	8.00	11.3	0.9	0	0	0	----	----	----	----	----
5/17/2017	85	0.9	4.0	7.66	11.3	0.8	0	11	0	----	----	----	----	----
5/24/2017	80	0.2	6.0	7.93	11.4	0.6	0	0	0	----	----	----	----	----
5/31/2017	85	0.2	4.0	7.78	11.4	1.1	0	0	0	----	----	----	----	----
6/7/2017	85	0.2	6.7	8.03	11.4	50.3	0	0	0	----	----	----	----	----
6/14/2017	85	0.7	2.8	7.81	11.6	1.0	0	0	0	----	----	----	----	----
6/21/2017	80	1.2	4.0	8.12	11.6	0.9	0	0	0	----	----	----	----	----
6/28/2017	85	1.5	6.0	7.71	11.6	1.8	0	0	0					
Min	----	0.16	1.6	8.0	11.6	0.55	0	0	0	0	0	0	0	0



Appendix B Limnology: Lopez Lake 7														
	Depth	Dissolved Oxygen	Odor	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L	TON		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
Max	---	6.0	50	8.6	21	74	283	150	180	0	0	0	0	0
Average	---	2.4	6	8.2	15	7.8	17	27	34	0	0	0	0	0
Median	---	1.7	4	8.1	12	3.5	0	0	14	0	0	0	0	0
n	---	25	26	26	25	26	26	26	22	0	0	0	0	0



Appendix B5 Limnology: Lopez Lake Section E

Appendix B Limnology: Lopez Lake Section E													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
1/12/2016	5.0	9.2	7.87	10.3	3.8	0	110	15	410	0	0	0	290
2/10/2016	5.0	10.6	8.20	11.7	3.2	0	510	8	1400	0	43	0	870
3/15/2016	4.0	10.8	8.25	15.0	4.4	0	200	30	630	0	250	0	150
4/5/2016	4.0	9.3	8.19	16.9	4.7	0	45	5	210	0	58	3	100
4/12/2016	3.0	9.2	8.38	17.7	4.7	0	320	5	390	0	3	0	63
4/20/2016	4.0	8.3	8.61	18.0	4.0	0	160	0	830	430	33	180	38
4/27/2016	4.0	7.7	8.14	18.0	4.6	0	270	0	1200	860	5	86	13
5/4/2016	2.0	9.7	8.32	18.6	5.7	120	0	8	1800	880	150	53	570
5/11/2016	1.0	9.9	8.59	19.8	9.0	0	0	10	1700	1200	91	68	350
5/18/2016	1.5	10.1	8.42	20.3	11.2	100	0	20	4800	3400	28	120	1200
5/26/2016	2.0	9.3	8.50	19.9	8.5	0	1600	0	4300	560	28	520	1600
6/1/2016	3.0	10.3	8.52	20.4	7.1	60	76	270	3300	1100	130	100	1600
6/8/2016	5.0	8.8	8.52	21.5	3.8	0	3	130	9000	----	38	0	8700
6/15/2016	5.0	6.4	8.59	20.9	4.1	120	120	180	7100	870	600	180	5000
6/22/2016	5.0	9.4	8.49	22.5	4.1	60	110	255	4800	500	93	160	3600
6/29/2016	4.0	8.0	8.58	22.6	4.2	0	220	160	3100	450	120	120	2000
7/6/2016	4.0	7.2	8.68	22.4	4.3	0	320	540	4100	680	140	310	2100
7/13/2016	4.0	6.9	8.66	22.0	5.0	0	160	180	3500	330	230	170	2500
7/20/2016	5.0	8.0	8.50	22.1	4.3	0	98	18	1100	560	38	33	340
7/27/2016	5.0	8.7	8.62	22.8	4.6	0	200	150	4000	360	320	140	2800
8/3/2016	3.0	8.5	8.47	23.0	5.5	0	230	250	5300	500	330	220	3700
8/10/2016	4.0	6.3	8.54	22.0	4.4	40	220	250	7700	2800	260	230	3900
8/18/2016	3.5	6.8	8.30	21.9	5.0	0	190	280	5100	380	400	230	3700



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Appendix B Limnology: Lopez Lake Section E													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
8/22/2016	4.0	6.7	8.42	21.6	4.5	0	210	220	4500	380	350	220	3100
8/31/2016	6.0	5.6	8.59	21.7	4.1	0	160	150	3400	350	520	170	2000
9/7/2016	4.5	6.6	8.53	21.1	4.1	71	10	0	2100	100	93	50	1800
9/12/2016	4.0	7.1	8.46	21.1	3.7	60	0	0	650	0	110	68	410
9/21/2016	3.0	8.1	8.55	20.8	4.8	0	140	48	1700	76	18	190	1200
9/28/2016	4.0	6.4	8.55	20.3	2.8	56	71	0	8500	640	130	380	7200
10/12/2016	4.0	5.4	8.60	18.8	4.1	0	20	20	2200	0	100	0	2100
11/9/2016	2.5	6.0	8.45	17.4	3.5	40	0	0	6300	0	0	0	6300
12/14/2016	3.0	7.7	8.59	13.6	6.9	120	200	0	13000	810	120	320	12000
1/13/2017	1.0	8.9	8.15	11.7	30.7	0	110	0	2800	22	130	0	2500
2/15/2017	1.5	7.6	8.03	13.1	20.9	0	33	0	33	0	0	0	0
3/15/2017	4.0	9.5	8.27	15.3	2.4	0	22	0	540	0	88	0	430
4/5/2017	6.0	7.2	8.30	16.7	3.2	0	0	20	260	0	240	0	0
4/12/2017	7.5	7.2	8.05	16.5	2.0	0	22	11	230	0	150	0	44
4/19/2017	7.0	8.3	8.36	16.8	2.3	0	88	0	630	0	540	0	0
4/26/2017	5.0	10.5	8.79	17.9	3.7	0	0	0	990	0	950	40	0
5/3/2017	5.5	9.6	8.70	20.2	1.9	0	100	61	750	0	460	120	0
5/10/2017	5.5	8.2	8.19	19.1	2.0	0	140	20	690	0	400	120	0
5/17/2017	5.0	8.5	8.48	18.4	1.9	0	99	0	290	0	150	0	44
5/24/2017	6.0	7.0	8.23	20.0	1.2	0	11	0	140	0	22	0	110
5/31/2017	6.0	7.7	8.40	19.8	1.7	0	180	0	200	0	11	0	11
6/7/2017	5.5	8.0	8.54	20.7	2.7	400	0	0	8800	7500	160	0	750
6/14/2017	3.0	9.8	8.79	20.9	10.4	490	21	0	50000	33000	4	15	16000
6/21/2017	3.0	10.9	8.88	22.5	12.2	6	60	0	14000	14000	17	0	0
6/28/2017	2.5	8.4	8.98	22.6	7.9	0	44	7	13000	13000	120	0	72



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Appendix B Limnology: Lopez Lake Section E													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
7/5/2017	4.0	9.8	8.84	22.1	7.3	0	13	0	22000	22000	340	0	11
7/12/2017	2.0	12.0	8.96	23.4	18.0	0	91	270	48000	47000	360	37	610
7/19/2017	2.5	10.0	9.03	23.1	10.0	0	34	75	39000	39000	17	23	60
7/26/2017	3.0	9.1	9.08	23.0	8.4	0	220	390	18000	16000	300	37	370
8/2/2017	4.0	7.7	8.82	22.9	5.4	0	86	350	3800	3100	5	120	180
8/9/2017	3.0	6.7	8.73	23.3	4.8	0	290	650	1200	200	11	4	12
8/16/2017	4.0	6.4	8.99	22.5	3.6	0	99	490	2700	1800	23	180	76
8/23/2017	4.0	6.3	8.76	22.8	3.9	0	180	420	3700	2900	22	29	140
8/30/2017	3.0	5.3	8.56	22.7	3.4	0	17	130	2100	1700	0	48	220
9/6/2017	4.0	5.6	8.58	24.0	3.0	0	130	150	480	0	84	0	120
9/13/2017	6.0	7.0	8.58	23.7	2.2	0	41	79	440	20	2	2	300
9/20/2017	6.0	5.1	8.55	22.0	2.0	0	12	84	420	220	0	2	100
9/27/2017	7.5	6.5	8.42	20.8	1.7	0	33	100	500	280	6	0	80
10/11/2017	7.0	7.6	8.37	19.4	1.3	0	3	36	250	180	1	0	29
11/15/2017	6.0	8.2	8.29	16.8	1.4	0	3	0	48	24	0	0	21
12/13/2017	7.0	8.2	8.19	12.9	1.8	0	0	6	130	110	0	0	16
1/11/2018	5.0	10.0	8.12	12.4	2.0	0	25	28	920	0	770	0	100
2/14/2018	4.0	11.6	8.35	12.5	2.7	0	4	0	7300	160	7100	0	24
3/15/2018	5.0	11.1	8.41	13.5	2.2	0	9	9	390	72	260	0	33
4/4/2018	10.0	10.0	8.39	15.9	3.2	0	10	25	580	230	31	0	280
4/11/2018	4.5	10.5	8.60	17.1	3.6	0	100	64	1200	0	54	0	1000
4/18/2018	5.0	9.9	8.57	16.9	2.2	0	20	10	90	10	0	0	50
4/25/2018	4.0	9.8	8.56	18.1	2.9	0	100	27	1200	870	120	0	56
5/2/2018	5.5	9.5	8.57	18.5	1.6	0	8	1	410	230	120	0	54
5/9/2018	5.5	8.9	8.56	19.1	3.0	0	16	32	390	160	170	4	7



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	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
5/16/2018	4.5	8.4	8.62	19.2	2.4	0	0	13	110	48	40	0	10
5/23/2018	6.0	8.4	8.55	19.4	2.2	0	13	51	530	460	3	0	3
5/30/2018	5.0	8.4	8.56	19.7	3.6	0	4	81	2200	2100	7	4	2
6/6/2018	3.0	9.0	8.66	20.3	4.8	0	4	48	14000	14000	3	0	46
6/13/2018	3.0	9.4	8.74	21.0	5.5	0	17	110	2400	2300	3	0	15
6/20/2018	5.0	8.6	8.70	20.6	4.2	0	18	120	1100	850	11	0	61
6/27/2018	4.0	8.8	8.66	21.4	4.2	0	8	72	660	500	7	0	75
7/3/2018	5.0	8.1	8.67	22.0	3.2	0	14	23	490	190	0	0	260
7/11/2018	5.5	8.7	8.73	22.9	3.2	0	28	51	910	700	0	0	130
7/18/2018	5.0	7.8	8.77	22.8	3.0	0	3	4	3300	3300	0	0	1
7/25/2018	4.5	8.5	8.78	23.7	9.5	0	0	9	2300	2200	0	0	47
8/1/2018	4.0	7.9	8.80	23.0	4.3	0	52	95	2500	2100	79	0	160
8/8/2018	4.0	8.5	8.69	22.8	4.8	0	290	92	670	110	100	0	76
8/15/2018	4.0	8.1	8.91	23.0	4.1	0	9	10	350	110	60	0	170
8/22/2018	5.0	7.0	8.78	22.9	3.0	0	13	18	240	0	0	0	210
8/29/2018	6.0	7.2	8.63	22.4	2.8	0	0	0	250	35	0	0	220
9/5/2018	5.0	7.6	8.63	22.2	2.2	0	48	44	260	110	3	0	58
9/12/2018	5.0	7.5	8.69	21.7	2.2	0	4	14	100	70	0	0	13
9/19/2018	5.0	7.4	8.54	20.7	3.5	0	10	20	84	0	0	0	54
9/26/2018	6.0	7.4	8.66	20.3	2.2	0	7	0	11	10	0	0	140
11/14/2018	4.0	7.3	8.48	15.4	2.8	0	31	28	270	0	10	0	140
12/12/2018	6.0	6.8	8.23	13.3	3.5	0	82	4	90	0	6	0	80
1/10/2019	7.0	8.5	8.18	11.7	2.7	0	3	0	3	0	0	0	0
2/19/2019	5.0	9.3	8.24	11.7	3.9	0	11	0	62	0	23	0	28
3/13/2019	4.0	10.0	8.32	12.9	3.5	0	43	54	160	0	17	0	51



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Appendix B Limnology: Lopez Lake Section E													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
4/3/2019	3.5	11.4	8.38	16.2	3.2	0	24	27	100	16	27	6	0
4/10/2019	6.0	10.9	8.73	16.9	2.8	50	89	53	340	0	51	0	100
4/24/2019	5.0	9.8	8.39	18.7	2.5	40	9	20	760	470	130	0	93
5/1/2019	6.0	10.0	8.35	18.5	3.0	60	79	31	3100	2800	13	0	74
5/8/2019	4.0	10.1	8.68	19.0	3.0	34	91	35	3700	3300	90	0	140
5/15/2019	4.0	11.0	8.67	19.8	8.3	0	21	11	30000	30000	17	0	56
5/22/2019	2.5	11.4	8.57	18.7	11.0	0	0	1	56000	56000	0	0	28
5/29/2019	3.0	10.5	8.61	18.8	5.5	110	190	130	8000	6700	710	0	160
6/5/2019	3.0	10.7	8.59	20.3	11.0	69	150	240	54000	53000	82	0	130
6/12/2019	4.0	11.1	9.02	21.5	12.0	17	52	140	28000	28000	48	0	13
6/19/2019	4.0	10.8	8.70	21.7	5.2	86	110	640	3400	2400	7	0	140
6/26/2019	3.5	9.3	8.74	21.7	5.3	21	280	620	970	14	8	0	29
7/3/2019	6.0	7.4	8.66	21.6	4.7	18	140	160	970	600	3	0	47
7/10/2019	4.5	8.2	8.88	22.0	5.5	8	340	380	2600	1800	14	0	62
7/17/2019	4.0	6.4	8.72	22.3	3.6	62	260	340	990	190	110	0	29
7/24/2019	4.0	7.0	8.65	23.0	3.3	61	150	260	1300	720	110	0	48
7/31/2019	4.0	8.5	8.94	22.7	6.2	26	200	270	840	110	74	0	160
8/7/2019	4.0	9.0	8.88	22.8	5.2	4	120	390	1900	1100	160	44	91
8/14/2019	4.5	8.5	8.77	22.7	4.5	46	110	220	940	400	51	0	110
8/20/2019	4.0	8.1	8.51	22.6	3.4	28	160	230	980	350	47	0	160
8/28/2019	5.0	7.9	8.43	22.7	3.6	28	120	220	1100	600	68	0	92
9/4/2019	5.0	8.1	8.53	23.2	3.6	28	160	260	1400	770	100	0	71
9/11/2019	5.0	7.0	8.90	22.5	2.5	0	0	4	3800	3600	120	14	13
9/18/2019	6.0	6.9	8.29	22.0	2.4	0	7	0	1300	990	4	0	330
9/25/2019	5.0	7.2	8.61	21.6	2.8	0	10	9	620	540	1	0	64



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Appendix B Limnology: Lopez Lake Section E													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
10/2/2019	5.0	6.4	8.12	20.4	2.2	0	4	21	71	30	0	0	16
10/9/2019	4.5	7.5	8.49	19.4	2.7	0	11	29	130	30	40	0	20
10/16/2019	5.0	7.0	8.67	18.1	2.8	0	11	25	94	0	0	0	58
10/23/2019	6.0	7.8	8.33	17.9	2.7	0	13	14	230	0	0	0	200
10/30/2019	5.0	8.0	8.29	17.2	3.0	0	3	14	24	0	7	0	0
11/6/2019	5.0	6.9	8.50	15.8	2.8	0	21	4	25	0	0	0	0
12/11/2019	6.0	8.2	8.22	13.9	1.8	0	20	0	170	0	0	0	150
1/15/2020	7.0	9.0	8.28	11.4	2.4	0	47	0	86	0	2	0	37
2/13/2020	6.0	10.0	8.45	11.4	2.6	12	140	0	700	0	10	0	540
3/12/2020	5.0	10.6	8.38	13.7	2.7	27	850	2	1500	0	65	0	520
4/11/2020	5.5	9.9	8.63	15.4	2.9	0	160	1800	3500	100	100	0	1400
4/19/2020	4.0	11.8	8.70	16.0	3.2	5	170	0	3600	50	3200	0	140
4/29/2020	5.0	9.6	8.60	20.1	2.4	0	40	120	5800	5100	270	15	210
5/6/2020	4.0	10.6	8.56	19.3	6.0	0	9	93	34000	34000	10	0	110
5/14/2020	4.0	11.5	8.80	20.2	15.0	0	61	94	87000	87000	75	0	260
5/22/2020	4.0	10.6	8.78	20.1	9.2	30	190	170	17000	16000	220	0	630
5/27/2020	4.0	10.3	8.78	20.9	9.0	0	56	61	3700	3200	23	0	360
6/4/2020	4.0	11.4	8.84	21.2	5.5	22	72	780	2200	70	72	610	560
6/10/2020	3.5	10.3	8.88	20.8	5.1	15	57	2000	3300	40	38	380	810
6/17/2020	4.0	8.5	8.85	21.3	6.4	15	100	760	1800	200	80	500	140
6/24/2020	4.0	7.5	8.73	21.9	4.1	0	230	180	2300	1700	50	0	99
7/1/2020	4.0	6.9	8.53	21.8	5.2	35	160	180	4100	2600	640	350	90
7/8/2020	4.0	7.4	8.66	21.9	6.2	15	30	55	6400	5400	440	240	240
7/15/2020	3.5	9.1	8.85	22.4	6.0	40	71	71	20000	19000	350	240	320
7/22/2020	3.5	8.4	8.88	22.5	12.0	390	160	200	37000	35000	40	460	720



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Appendix B Limnology: Lopez Lake Section E													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
7/29/2020	2.0	8.1	8.81	22.5	30.0	0	540	81	15000	13000	210	730	600
8/5/2020	3.0	6.9	8.81	22.4	6.2	0	540	130	14000	12000	71	110	1400
8/12/2020	4.0	7.0	8.81	22.4	4.6	0	200	36	4900	2400	900	130	1200
8/19/2020	4.0	9.4	8.86	24.3	3.0	0	84	65	1600	690	260	42	500
8/26/2020	4.5	6.9	8.75	23.4	3.2	0	40	80	2900	1500	290	42	970
9/1/2020	4.0	5.3	8.70	22.4	2.6	5	160	0	2400	800	10	25	1400
9/9/2020	3.0	7.1	8.77	22.4	3.1	0	140	15	3300	150	5	55	2900
9/15/2020	4.0	7.6	8.78	21.1	2.9	5	45	20	9300	0	0	0	9200
9/22/2020	4.5	8.0	8.78	21.0	2.7	300	30	15	2100	50	10	100	1600
9/29/2020	4.0	8.7	8.73	21.1	2.7	10	20	20	4000	0	5	0	3900
10/14/2020	8.0	8.8	8.67	20.5	2.6	0	70	25	3700	850	10	35	2700
11/16/2020	3.5	7.7	8.63	15.8	1.9	20	10	0	6500	1000	30	0	5400
12/8/2020	5	7.1	8.38	23.7	3.1	0.0	130	0	790	100	50	0	510
Min	1	5.1	7.87	10.3	1.2	0	0	0	3	0	0	0	0
Max	10	12.	9.08	24.3	30	490	1600	2000	87000	87000	7100	730	16000
Average	4	8.4	8.57	19.7	4.8	21	104	121	5665	4298	174	57	928
Median	4	8.3	8.59	20.8	3.6	0	52	28	1600	350	40	0	140
n	161	161	161	161	161	161	161	161	161	160	161	161	161



Appendix B5 Limnology: Lopez Lake Section F

Appendix B Limnology: Lopez Lake Section F													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Feet	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
1/12/2016	5.0	9.7	8.00	10.3	4.3	0	13	3	30	0	0	0	15
2/10/2016	5.0	10.1	8.24	11.9	3.2	0	350	10	1200	0	30	0	800
3/15/2016	3.0	11.5	8.39	15.1	4.4	0	170	3	510	0	180	0	160
4/5/2016	5.0	9.9	8.34	17.5	3.6	0	33	0	390	60	110	0	180
4/12/2016	4.0	9.5	8.49	17.5	3.3	0	250	0	430	110	10	0	53
4/20/2016	4.0	8.2	8.72	17.8	4.2	0	160	5	920	420	0	290	40
4/27/2016	4.0	7.1	8.36	17.9	4.5	0	290	0	1300	930	3	63	10
5/4/2016	4.0	8.8	8.50	18.4	4.6	93	0	15	2200	1500	66	48	450
5/11/2016	2.5	9.8	8.66	19.5	4.9	126	0	23	3400	1900	93	110	1100
5/18/2016	2.5	10.0	8.57	20.2	9.8	101	0	15	4300	2900	55	83	1200
5/26/2016	4.0	9.0	8.65	19.7	6.1	0	710	0	1600	770	0	88	81
6/1/2016	4.0	9.6	8.66	20.2	6.1	140	91	250	4000	1200	86	150	2100
6/8/2016	5.0	8.1	8.63	21.0	3.4	0	8	50	6200	0	20	0	6100
6/15/2016	4.5	6.8	8.69	20.9	2.8	100	120	96	6700	490	370	110	5400
6/22/2016	5.0	8.9	8.62	22.0	4.2	0	76	170	4300	690	230	130	3000
6/29/2016	5.0	7.5	8.70	22.2	3.1	0	190	120	2300	370	78	100	1400
7/6/2016	4.0	6.4	8.76	22.1	3.9	0	320	540	2800	1000	14	200	700
7/13/2016	4.5	6.9	8.75	21.9	4.5	0	120	200	4200	270	420	110	3000
7/20/2016	5.0	7.7	8.69	22.0	4.9	0	110	8	1100	480	33	35	430
7/27/2016	4.0	8.5	8.75	22.7	3.8	0	160	140	4000	460	420	150	2700
8/3/2016	4.0	8.0	8.66	22.8	4.5	0	200	43	4800	590	360	190	3400
8/10/2016	4.0	6.0	8.69	22.1	3.2	0	200	240	8000	2500	330	200	4500
8/18/2016	4.0	7.0	8.59	21.4	4.1	0	190	200	4300	130	510	210	3100
8/22/2016	4.5	6.5	8.61	21.5	3.5	0	180	240	5000	0	360	230	4000



Appendix B Limnology: Lopez Lake Section F													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Feet	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
8/31/2016	6.0	5.3	8.60	21.4	3.5	0	140	150	3600	250	380	140	2500
9/7/2016	4.5	6.8	8.55	21.1	4.1	60	0	0	1600	50	60	45	1400
9/12/2016	4.0	6.9	8.42	21.0	4.8	60	0	0	1000	0	71	76	810
9/21/2016	4.0	8.3	8.59	20.8	3.5	0	180	120	1500	150	13	190	860
9/28/2016	4.0	6.3	8.59	20.1	3.0	56	0	42	7900	0	180	210	7400
10/12/2016	4.5	5.7	8.55	18.9	3.0	100	20	0	4700	1600	1100	20	1900
11/9/2016	3.0	6.0	8.51	17.5	3.8	0	0	0	7600	0	40	0	7600
12/14/2016	3.0	7.8	8.67	13.6	6.2	200	0	0	7500	1200	200	81	5800
1/13/2017	0.5	8.6	8.16	11.8	34.6	0	110	0	2600	22	110	22	2300
2/15/2017	0.5	7.5	8.17	13.5	22.4	0	11	0	66	0	11	0	44
3/15/2017	4.0	9.9	8.43	15.1	1.7	0	11	0	150	0	33	0	110
4/5/2017	4.5	8.3	8.40	16.6	4.7	0	100	0	360	0	260	0	0
4/12/2017	7.0	7.8	8.18	16.2	4.0	0	22	11	290	0	250	0	0
4/19/2017	5.5	10.4	8.50	16.6	3.3	0	77	0	2400	0	2200	0	44
4/26/2017	5.5	10.5	8.77	17.7	3.3	0	0	0	1500	0	1500	0	0
5/3/2017	7.0	10.2	8.78	19.5	1.8	0	20	20	360	0	260	61	0
5/10/2017	6.0	8.0	8.30	18.6	1.7	0	81	40	750	0	280	140	200
5/17/2017	5.0	8.5	8.53	18.1	1.9	0	55	0	380	0	220	0	110
5/24/2017	9.0	6.5	8.25	19.9	1.4	0	11	0	33	0	22	0	0
5/31/2017	7.0	7.1	8.36	19.5	1.9	0	88	0	370	160	0	0	120
6/7/2017	6.0	9.0	8.49	20.5	2.6	60	0	0	4700	3500	190	0	980
6/14/2017	3.5	9.9	8.80	20.9	7.8	120	26	0	58000	51000	2	0	6700
6/21/2017	4.0	10.6	8.76	22.0	7.3	6	17	1	12000	12000	1	0	90
6/28/2017	3.0	9.1	8.96	22.1	5.6	0	16	6	10000	10000	130	0	24
7/5/2017	4.0	9.3	8.86	21.7	5.3	0	37	11	9000	8700	230	0	80
7/12/2017	2.0	11.0	8.93	22.8	14.0	0	65	37	40000	39000	140	14	610



Appendix B Limnology: Lopez Lake Section F													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Feet	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
7/19/2017	2.0	10.0	8.96	22.5	11.0	0	28	34	44000	43000	430	1	430
7/26/2017	4.0	9.5	9.09	22.7	4.9	0	190	100	23000	22000	420	17	210
8/2/2017	5.5	6.9	8.73	22.9	3.0	0	29	89	5300	4200	2	41	900
8/9/2017	3.0	7.6	8.75	23.1	3.4	0	95	240	950	340	31	75	170
8/16/2017	5.0	5.8	8.98	22.5	2.7	0	17	130	1400	1100	17	48	63
8/23/2017	3.5	6.5	8.83	22.4	3.7	0	210	530	4300	3300	19	60	190
8/30/2017	4.5	5.1	8.60	22.4	3.0	0	12	130	5200	4800	16	72	210
9/6/2017	5.5	6.7	8.75	24.0	2.5	0	60	89	360	50	94	0	70
9/13/2017	5.0	6.7	8.60	23.3	2.2	0	29	140	750	290	0	0	290
9/20/2017	7.5	5.1	8.61	21.9	2.2	0	7	60	580	240	0	0	280
9/27/2017	7.5	6.1	8.51	20.7	1.7	0	35	66	600	310	6	0	180
10/11/2017	6.0	7.3	8.40	19.3	1.4	0	6	28	520	450	0	0	36
11/15/2017	7.0	7.8	8.30	16.9	2.0	0	6	16	200	170	1	0	3
12/13/2017	6.0	7.9	8.17	13.0	2.6	0	1	6	300	280	0	0	16
1/11/2018	5.0	11.0	8.26	12.9	1.9	0	0	5	1000	0	960	0	73
2/14/2018	3.0	11.3	8.43	12.7	3.4	0	9	1	9400	360	9000	0	66
3/15/2018	5.0	11.6	8.53	13.1	1.8	0	10	0	440	100	280	0	46
4/4/2018	5.0	10.0	8.50	15.4	2.6	0	14	3	740	400	27	0	300
4/11/2018	5.0	10.7	8.70	17.0	2.7	0	54	13	1500	0	65	0	1400
4/18/2018	5.0	9.1	8.63	16.9	2.2	0	40	0	130	0	0	0	90
4/25/2018	4.5	10.0	8.62	17.7	2.2	0	47	26	670	440	100	0	58
5/2/2018	5.5	9.0	8.34	17.7	1.6	0	14	1	370	190	140	0	22
5/9/2018	5.0	9.0	8.60	19.0	2.8	0	38	75	460	100	210	6	28
5/16/2018	6.0	8.8	8.70	19.0	2.1	0	37	11	150	88	13	0	3
5/23/2018	6.0	8.6	8.56	19.1	2.9	0	3	150	1400	1200	0	0	4



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	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Feet	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
5/30/2018	5.0	8.1	8.57	19.2	3.5	0	0	85	2700	2600	0	0	8
6/6/2018	4.0	9.7	8.67	20.1	5.0	0	16	85	7100	7000	7	0	33
6/13/2018	4.0	9.3	8.77	20.7	4.0	0	31	120	1400	1200	11	0	26
6/20/2018	5.0	8.2	8.71	20.3	3.3	0	17	55	1100	1000	7	0	24
6/27/2018	4.5	8.5	8.64	21.2	3.0	0	11	56	850	710	0	0	80
7/3/2018	5.0	8.0	8.68	21.7	2.9	0	14	18	640	600	0	0	12
7/11/2018	5.0	8.2	8.77	22.5	3.2	0	23	58	740	650	0	0	9
7/18/2018	5.0	7.5	8.76	22.6	2.7	0	0	100	1050	930	0	0	0
7/25/2018	4.5	8.0	8.77	23.1	3.7	0	0	170	1400	1200	0	0	61
8/1/2018	4.0	7.4	8.79	22.8	3.9	0	47	60	2400	2000	110	0	180
8/8/2018	4.0	8.1	8.68	22.4	4.6	0	310	180	700	130	100	0	3
8/15/2018	4.0	7.7	8.92	22.9	3.1	0	9	3	300	100	28	0	160
8/22/2018	5.0	7.3	8.79	22.8	2.9	0	4	19	110	0	0	0	90
8/29/2018	5.0	6.9	8.70	22.4	1.9	0	3	3	84	30	0	0	48
9/5/2018	5.0	7.2	8.65	21.9	2.0	0	78	53	330	30	24	0	150
9/12/2018	5.5	6.9	8.73	21.6	3.5	0	1	20	66	10	0	0	35
9/19/2018	5.0	6.6	8.57	20.6	2.3	0	20	28	120	10	0	0	60
9/26/2018	5.0	7.0	8.70	20.2	2.9	0	10	11	13	0	0	0	88
10/10/2018	6.0	6.8	8.62	19.9	2.6	0	10	23	120	0	0	0	87
11/14/2018	4.0	6.6	8.46	15.5	3.5	0	89	16	160	0	5	0	52
12/12/2018	6.0	6.1	8.27	13.6	2.5	0	20	0	110	0	0	0	80
1/10/2019	5.0	8.6	8.20	11.90	3.2	0	8	3	11	0	0	0	0
2/19/2019	4.5	8.8	8.23	11.70	5.7	0	14	18	49	0	10	0	7
3/13/2019	4.0	10.2	8.39	12.80	3.4	0	50	55	160	0	26	0	33
4/3/2019	4.0	11.1	8.59	15.80	3.0	0	0	12	110	32	47	0	16
4/10/2019	5.0	11.1	8.81	16.70	2.6	47	3	52	230	0	51	0	74



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Appendix B Limnology: Lopez Lake Section F													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Feet	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
4/24/2019	4.0	9.9	8.53	18.20	2.7	34	28	36	950	720	110	0	20
5/1/2019	4.5	10.0	8.62	18.10	2.9	45	43	40	3800	3500	18	0	130
5/8/2019	5.0	10.2	8.80	18.90	3.7	51	88	240	5800	4900	170	0	330
5/15/2019	3.5	11.4	8.95	19.40	9.9	0	28	4	29000	29000	6	0	56
5/22/2019	3.0	11.5	8.77	18.50	10.0	0	27	1	49000	49000	10	0	40
5/29/2019	3.0	10.6	8.76	18.50	6.8	89	110	150	15000	13000	960	0	220
6/5/2019	3.0	10.0	8.71	19.60	7.8	10	31	78	54000	54000	100	0	96
6/12/2019	3.0	11.0	9.03	21.40	6.8	40	120	90	34000	34000	31	0	130
6/19/2019	4.0	10.7	8.90	21.30	4.4	28	180	260	1600	1100	17	0	41
6/26/2019	4.5	9.6	8.89	21.30	4.9	68	110	490	1600	900	18	0	40
7/3/2019	6.0	7.1	8.85	21.30	3.1	27	100	110	1300	970	14	0	80
7/10/2019	4.0	8.8	8.81	22.00	3.8	24	210	370	1400	650	17	0	81
7/17/2019	5.0	6.1	8.96	21.90	3.6	55	230	310	1300	600	69	0	46
7/24/2019	5.0	6.6	8.85	22.60	4.0	21	120	230	1500	900	81	0	120
7/31/2019	4.0	7.6	8.93	22.40	5.3	20	110	240	1400	820	82	0	95
8/7/2019	4.0	8.4	8.99	22.50	3.1	10	140	310	1100	400	140	12	44
8/14/2019	4.5	8.8	8.77	22.60	3.3	60	99	230	1100	330	120	0	230
8/21/2019	5.0	8.1	8.76	22.50	2.8	44	140	260	1300	680	43	0	130
8/28/2019	5.0	7.3	8.80	22.50	3.5	18	170	240	1400	840	89	0	80
9/4/2019	5.0	7.6	8.78	22.90	2.7	18	170	180	1300	670	120	0	150
9/11/2019	5.0	6.9	8.90	22.40	2.8	3	13	7	5600	5300	180	35	86
9/18/2019	5.5	6.8	8.57	22.00	2.1	50	7	0	1300	1200	62	0	50
9/25/2019	5.0	6.7	8.93	21.60	2.3	0	6	23	610	280	4	0	300
10/2/2019	5.0	5.6	8.38	20.30	2.1	0	0	22	130	0	0	0	110
10/9/2019	5.0	6.9	8.61	19.20	2.7	0	17	30	110	40	9	0	12
10/16/2019	5.0	6.8	8.72	18.00	2.9	0	0	18	67	30	9	0	10



County of San Luis Obispo
 Lopez Lake and Terminal Reservoir
 2016-2020 Watershed Sanitary Survey

Appendix B Limnology: Lopez Lake Section F													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Feet	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
10/23/2019	5.5	7.8	8.66	18.00	2.3	0	13	23	230	0	0	0	190
10/30/2019	5.0	7.2	8.43	17.00	3.8	0	10	9	68	0	6	0	43
11/6/2019	5.0	6.6	8.50	15.90	3.0	0	16	8	150	0	0	0	130
12/11/2019	5.0	6.3	8.27	14.00	2.1	0	30	0	160	0	5	0	120
1/15/2020	6.0	8.3	8.40	11.60	2.5	0	140	0	150	0	0	0	10
2/13/2020	5.5	9.6	8.49	11.70	2.7	0	17	0	660	0	15	0	630
3/12/2020	4.5	10.5	8.41	14.00	3.2	62	1100	170	2200	50	25	0	760
4/11/2020	4.5	10.8	8.74	14.90	5.2	30	120	920	3400	100	20	0	2200
4/19/2020	5.0	11.6	8.78	15.80	3.3	2	170	0	2500	100	2000	0	280
4/29/2020	5.0	9.7	8.66	19.90	2.4	0	15	250	9800	9400	90	55	5
5/6/2020	4.0	11.1	8.70	19.60	5.5	0	0	110	73000	73000	37	0	98
5/14/2020	3.5	11.2	8.81	20.20	15.0	0	56	19	25000	24000	150	0	510
5/22/2020	4.0	10.6	8.81	19.90	8.2	200	0	180	18000	17000	200	0	740
5/27/2020	4.0	10.2	8.83	20.70	9.6	0	130	61	22000	20000	480	0	1200
6/4/2020	4.0	11.1	8.82	21.00	5.0	74	86	740	1900	0	57	390	540
6/10/2020	4.5	9.3	8.88	21.10	4.7	47	72	720	2000	100	40	440	610
6/17/2020	4.0	8.9	8.84	21.00	4.8	30	35	280	1000	200	70	280	130
6/24/2020	4.5	7.2	8.76	21.60	4.2	0	510	320	6600	5400	77	0	330
7/1/2020	3.5	6.8	8.68	21.70	8.5	0	65	240	2400	1800	69	160	26
7/8/2020	3.0	7.3	8.65	21.80	5.2	10	40	15	9000	7900	590	240	250
7/15/2020	2.0	9.0	8.90	22.20	16.0	30	130	51	36000	35000	240	270	340
7/22/2020	3.0	8.0	8.87	22.30	22.0	200	170	50	51000	50000	290	200	270
7/29/2020	3.0	7.7	8.82	22.30	7.0	0	480	51	29000	27000	180	200	1200
8/5/2020	3.5	7.0	8.80	22.10	5.2	10	460	20	27000	24000	140	40	1900
8/12/2020	4.0	8.5	8.82	22.30	4.6	9	440	46	4600	1200	570	110	2200
8/19/2020	3.5	6.4	8.91	23.90	3.5	0	190	170	2900	1600	310	84	500



Appendix B Limnology: Lopez Lake Section F													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	Feet	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
8/26/2020	4.5	6.9	8.80	23.20	2.9	25	17	130	9700	2400	13	190	6900
9/1/2020	4.0	4.8	8.71	22.20	3.0	20	220	40	4200	1700	0	5	2200
9/9/2020	4.0	6.9	8.77	22.30	2.9	0	15	45	2400	100	5	35	2200
9/15/2020	4.0	7.6	8.77	21.10	2.9	0	65	15	4600	600	0	0	3900
9/22/2020	4.5	7.9	8.78	20.80	2.3	10	20	15	2900	300	25	90	2400
9/29/2020	4.0	8.6	8.77	21.00	2.9	5	20	40	4900	200	1	15	4600
10/14/2020	8.0	8.5	8.70	20.60	2.8	0	85	50	3000	550	10	15	2300
11/16/2020	5	8.0	8.65	16.9	2.8	0	30	0	4000	1000	50	0	2900
12/8/2020	4	6.4	8.37	12.9	3.0	0	90	0	670	150	50	0	360
Min	1	5	8.00	10.3	1.4	0	0	0	11	0	0	0	0
Max	9	12	9.09	24.0	34.6	200	1100	920	73000	73000	9000	440	7600
Average	5	8	8.65	19.5	4.4	17.	87	91	5931	4659	199	41	839
Median	5	8	8.68	20.6	3.3	0	34	35	1400	400	39	0	130
n	162	162	162	162	162	162	162	162	162	162	162	162	162



Appendix B5 Limnology: Lopez Lake Section G

Appendix B Limnology: Lopez Lake Section G													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
1/12/2016	4.5	8.5	7.85	10.3	3.6	0	25	5	45	0	15	0	0
2/10/2016	4.0	11.7	8.29	12.5	4.2	0	570	15	2500	0	78	0	1800
3/15/2016	4.0	10.5	8.25	14.7	4.3	0	130	3	390	0	250	0	5
4/5/2016	5.0	9.5	8.24	17.1	4.4	0	50	5	390	30	190	3	120
4/12/2016	4.0	9.9	8.46	17.6	3.2	0	280	3	350	0	5	0	58
4/20/2016	3.5	8.3	8.71	18.5	3.8	0	110	0	1800	1500	5	96	28
4/27/2016	4.0	8.0	8.34	18.0	3.8	0	280	0	1400	1000	8	120	13
5/4/2016	3.0	9.7	8.49	18.6	5.4	81	0	8	1300	520	140	55	470
5/11/2016	2.0	9.9	8.62	19.5	7.1	93	0	18	4000	2400	98	140	1200
5/18/2016	2.0	10.9	8.54	20.4	19.2	60	0	20	3600	2000	190	140	1200
5/26/2016	4.0	9.8	8.62	19.9	6.4	0	2000	14	5000	340	580	420	1600
6/1/2016	3.0	9.4	8.63	20.2	7.5	60	60	240	4000	1300	200	120	2000
6/8/2016	5.0	8.8	8.60	21.1	4.0	0	3	55	5800	40	23	0	5600
6/15/2016	4.0	7.3	8.69	21.0	3.9	0	120	110	7400	680	140	130	6200
6/22/2016	4.0	9.1	8.55	22.1	4.4	0	98	150	5000	430	140	100	4100
6/29/2016	4.5	8.2	8.69	22.5	3.7	0	170	170	2200	380	140	130	1200
7/6/2016	4.0	7.2	8.72	22.3	4.8	0	420	340	4400	850	14	370	2400
7/13/2016	3.0	7.3	8.71	22.0	5.5	0	140	170	3700	420	237	130	2600
7/20/2016	5.0	8.4	8.66	22.2	5.5	0	100	10	1200	520	40	53	430
7/27/2016	4.0	8.6	8.69	22.8	4.8	0	160	200	4300	440	330	160	3000
8/3/2016	3.5	8.5	8.61	22.8	4.5	0	210	300	4500	460	323	220	3000
8/10/2016	3.5	6.8	8.66	22.2	5.3	0	140	200	6400	1800	380	180	3700
8/18/2016	4.0	6.8	8.55	21.9	5.3	0	260	290	5000	0	610	250	3600



Appendix B Limnology: Lopez Lake Section G													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
8/22/2016	4.0	7.2	8.60	21.7	4.8	0	220	330	4100	0	430	160	3000
8/31/2016	5.0	5.2	8.48	21.5	4.6	0	200	200	4200	250	420	180	2900
9/7/2016	4.0	7.0	8.58	21.2	4.7	86	0	0	2700	0	66	110	2400
9/12/2016	3.0	7.2	8.49	21.1	4.8	110	15	0	1600	0	76	58	1300
9/21/2016	4.5	8.3	8.57	21.0	4.3	0	100	13	1400	50	13	210	990
9/28/2016	3.0	8.0	8.64	20.7	2.5	250	0	0	9700	0	210	170	9100
10/12/2016	3.5	6.3	8.56	18.9	3.8	61	140	0	12000	0	5500	0	6500
11/9/2016	2.0	8.2	8.56	17.8	4.7	81	0	0	7200	0	40	0	7100
12/14/2016	4.0	6.4	8.47	13.8	5.9	570	0	0	15000	1000	360	40	13000
1/13/2017	0.5	8.6	8.03	11.9	70.6	0	44	0	2700	22	66	0	2600
2/15/2017	0.5	7.7	8.18	13.5	26.6	0	22	0	66	0	0	0	44
3/15/2017	3.5	9.6	8.36	15.5	2.1	0	0	0	330	0	99	0	230
4/5/2017	4.5	8.6	8.43	16.5	3.8	0	20	0	630	0	610	0	0
4/12/2017	4.5	8.5	8.54	16.6	4.6	0	0	11	2100	0	2100	0	0
4/19/2017	5.5	11.2	8.60	16.6	3.9	0	22	0	2400	0	2400	0	0
4/26/2017	6.0	10.4	8.75	17.8	3.6	0	0	20	1000	0	1000	0	0
5/3/2017	6.5	10.6	8.77	20.4	1.6	0	20	40	300	0	200	40	0
5/10/2017	6.0	8.5	8.27	19.0	1.9	0	100	0	750	0	320	120	200
5/17/2017	5.0	9.1	8.51	18.7	1.8	0	66	0	140	0	77	0	0
5/24/2017	5.0	7.5	8.33	19.9	1.7	0	55	0	99	0	0	0	44
5/31/2017	5.5	8.0	8.41	19.8	2.1	0	22	0	88	0	44	0	22
6/7/2017	5.0	7.7	8.48	20.5	6.2	90	0	0	8100	7400	94	0	570
6/14/2017	4.0	9.0	8.63	20.6	5.4	200	19	0	21000	17000	0	2	3500
6/21/2017	3.0	11.7	8.58	22.3	10.7	18	38	0	18000	18000	0	0	60
6/28/2017	3.0	9.1	8.94	22.3	7.3	0	9	4	15000	15000	100	0	0



Appendix B Limnology: Lopez Lake Section G													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
7/5/2017	3.0	9.5	8.79	21.9	7.4	0	28	4	7600	7200	400	0	14
7/12/2017	3.0	11.0	8.92	23.0	7.7	0	30	61	14000	14000	20	30	260
7/19/2017	2.0	10.0	8.97	22.9	9.2	0	30	96	22000	22000	16	17	0
7/26/2017	2.5	10.0	9.10	22.8	6.6	0	300	290	14000	13000	440	0	110
8/2/2017	3.0	8.3	8.82	22.8	7.6	0	170	420	10000	9100	7	160	330
8/9/2017	5.0	7.6	8.74	23.1	4.0	0	150	430	2100	1200	27	82	180
8/16/2017	4.5	7.3	8.99	22.6	3.8	0	200	550	2200	1300	14	54	77
8/23/2017	3.5	7.1	8.81	22.7	4.2	0	240	600	3000	2100	14	29	81
8/30/2017	4.0	5.9	8.63	22.6	3.2	0	22	110	6500	5800	2	91	520
9/6/2017	5.0	7.1	8.73	24.0	2.4	0	120	270	580	40	64	0	86
9/13/2017	5.0	7.4	8.60	23.7	2.0	0	10	110	560	140	0	0	300
9/20/2017	7.0	5.6	8.59	22.1	2.1	0	7	62	320	170	0	4	77
9/27/2017	9.0	6.4	8.49	20.9	1.6	0	70	70	670	300	13	0	220
10/11/2017	7.0	7.7	8.37	19.5	1.4	0	3	34	490	350	1	0	99
11/15/2017	7.0	8.1	8.28	17.2	1.3	0	0	0	220	200	1	0	18
12/13/2017	6.0	7.0	8.12	13.1	2.0	0	4	3	230	210	1	0	13
1/11/2018	6.5	11.0	8.16	12.5	2.0	0	0	13	1100	0	830	0	260
2/14/2018	3.5	12.1	8.40	12.7	2.9	0	13	29	13000	480	12000	0	140
3/15/2018	5.0	12.2	8.49	13.4	2.2	0	7	9	770	94	480	0	180
4/4/2018	4.5	11.0	8.51	15.7	3.0	0	13	8	660	330	18	0	290
4/11/2018	5.0	10.9	8.70	17.1	2.9	0	100	15	1900	0	280	0	1500
4/18/2018	5.0	9.7	8.61	16.9	2.0	0	40	0	150	0	0	0	110
4/25/2018	4.0	11.0	8.63	17.9	2.4	0	85	32	880	590	160	0	15
5/2/2018	5.0	9.4	8.58	18.0	2.7	0	28	4	760	500	160	0	64
5/9/2018	5.0	9.4	8.59	18.8	2.4	0	35	54	510	120	250	4	43



Appendix B Limnology: Lopez Lake Section G													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
5/16/2018	5.0	8.8	8.69	19.1	1.9	0	45	10	220	80	17	0	72
5/23/2018	5.0	8.7	8.58	19.3	3.3	0	3	61	930	860	0	0	7
5/30/2018	5.0	8.9	8.58	19.4	2.9	0	6	54	5300	5200	0	0	1
6/6/2018	3.5	9.6	8.70	20.1	5.1	0	7	140	17000	17000	1	0	5
6/13/2018	4.0	9.7	8.75	20.7	4.0	0	21	94	1000	900	4	0	16
6/20/2018	4.0	8.9	8.72	20.6	3.6	0	27	110	1100	890	3	0	96
6/27/2018	4.5	8.6	8.64	21.2	3.2	0	11	77	1100	790	10	0	200
7/3/2018	5.0	8.2	8.63	21.8	3.6	0	21	2	570	500	0	0	500
7/11/2018	5.5	8.7	8.74	22.5	3.7	0	28	72	1200	980	4	0	90
7/18/2018	5.0	8.0	8.75	22.7	2.6	0	10	66	980	860	30	0	18
7/25/2018	4.0	8.4	8.75	23.4	4.2	0	1	11	3800	3700	30	0	75
8/1/2018	4.0	8.1	8.77	22.9	4.3	0	38	79	3100	2700	100	0	140
8/8/2018	4.0	8.5	8.69	22.7	4.9	0	48	66	780	530	74	0	62
8/15/2018	4.0	8.5	8.91	23.0	3.1	0	50	3	350	10	38	0	260
8/22/2018	5.0	7.2	8.79	22.8	2.9	0	26	21	160	0	0	0	110
8/29/2018	6.0	7.9	8.67	22.5	3.2	0	13	16	130	30	0	0	72
9/5/2018	5.0	7.6	8.64	22.0	2.1	0	51	42	260	90	11	0	66
9/12/2018	4.0	7.7	8.71	21.6	2.5	0	10	34	120	10	0	0	66
9/19/2018	5.5	7.4	8.59	20.8	2.7	0	0	14	170	0	0	0	160
9/26/2018	6.0	7.4	8.69	20.3	2.6	0	7	13	12	0	0	0	22
10/10/2018	5.0	7.9	8.51	20.0	1.8	0	4	5	130	10	0	0	110
11/14/2018	4.0	7.4	8.41	15.7	3.0	0	66	16	120	0	3	0	31
12/12/2018	6.5	6.5	8.23	13.6	2.5	0	30	1	50	0	0	0	10
1/10/2019	6.0	9.0	8.18	12.1	3.6	0	11	0	11	0	0	0	0
2/19/2019	4.5	9.2	8.23	11.7	4.4	0	6	3	46	0	10	0	27



Appendix B Limnology: Lopez Lake Section G													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
3/13/2019	4.0	10.8	8.44	12.7	3.6	0	54	53	160	0	6	0	52
4/3/2019	4.0	11.8	8.62	16.0	2.8	0	1	10	430	170	47	0	200
4/10/2019	4.0	11.1	8.80	16.7	2.3	33	6	60	250	0	57	0	93
4/24/2019	5.0	9.9	8.45	18.8	2.6	26	34	40	980	720	130	0	34
5/1/2019	5.0	10.0	8.60	18.5	3.2	44	65	54	3600	3300	3	0	84
5/8/2019	5.0	10.1	8.78	19.0	3.2	160	71	41	5100	4600	73	0	200
5/15/2019	3.5	11.7	8.94	19.6	14.0	0	33	1	28000	28000	11	0	42
5/22/2019	3.0	11.7	8.71	18.7	12.0	16	35	14	71000	71000	130	0	27
5/29/2019	2.0	10.4	8.74	18.7	9.5	81	120	230	14000	12000	910	0	330
6/5/2019	3.0	11.0	8.66	19.8	10.0	50	110	64	25000	25000	79	0	160
6/12/2019	4.0	10.9	9.00	21.4	5.6	21	95	60	16000	16000	18	0	210
6/19/2019	4.0	9.9	8.83	21.3	4.4	34	120	130	550	90	22	0	150
6/26/2019	4.5	10.9	8.84	21.4	5.0	110	220	700	1400	300	11	0	20
7/3/2019	5.0	7.2	8.80	21.4	4.1	68	290	300	1400	60	13	0	50
7/10/2019	4.0	8.6	8.89	22.0	4.3	31	120	290	3800	3300	23	0	43
7/17/2019	5.0	6.6	8.90	22.1	4.2	38	260	350	1400	630	54	0	40
7/24/2019	4.0	7.2	8.78	22.6	3.1	21	170	260	1100	420	71	0	130
7/31/2019	4.0	7.9	8.90	22.4	5.6	38	210	240	1600	930	54	0	120
8/7/2019	4.0	8.6	8.95	22.6	3.6	11	200	280	1100	320	120	0	180
8/14/2019	5.5	8.8	8.75	22.7	3.4	35	120	280	1100	280	90	0	280
8/21/2019	5.0	8.1	8.69	22.4	3.1	55	150	24	890	360	79	0	220
8/28/2019	5.0	7.9	8.70	22.6	3.2	31	150	230	1500	940	74	0	110
9/4/2019	5.0	8.2	8.72	23.1	2.7	28	160	240	1100	500	64	0	100
9/11/2019	4.5	7.0	8.89	22.5	3.1	0	6	4	5300	5100	91	30	36
9/18/2019	4.5	6.7	8.46	22.0	2.3	0	9	9	1400	930	18	0	450



Appendix B Limnology: Lopez Lake Section G													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
9/25/2019	5.0	7.9	8.84	21.9	2.4	0	9	31	240	170	4	0	31
10/2/2019	6.5	6.2	8.27	20.5	2.2	0	9	11	56	0	0	0	36
10/9/2019	5.0	7.2	8.57	19.5	2.6	0	1	13	130	0	9	0	110
10/16/2019	5.0	7.2	8.67	18.2	2.8	0	0	6	240	10	7	0	220
10/23/2019	5.0	8.4	8.55	18.0	2.1	0	4	16	370	0	0	0	350
10/30/2019	5.0	7.7	8.34	17.2	3.3	0	7	1	48	0	0	0	40
11/6/2019	4.0	6.8	8.49	16.0	2.6	0	13	5	19	0	0	0	1
12/11/2019	5.5	6.6	8.23	13.8	2.2	0	25	0	210	0	5	0	180
1/15/2020	6.0	9.0	8.30	11.5	2.6	0	42	0	82	0	0	0	40
2/13/2020	5.5	9.4	8.47	11.4	2.3	0	170	15	980	0	40	0	750
3/12/2020	4.5	10.6	8.39	14.4	2.4	10	200	220	1600	100	65	0	970
4/11/2020	4.5	10.8	8.74	15.2	4.6	0	340	1300	2200	0	5	0	530
4/19/2020	5.0	12.5	8.78	16.1	3.2	2	120	0	3700	70	3000	0	480
4/29/2020	5.0	10.1	8.66	20.0	3.3	0	40	160	7000	6600	45	0	120
5/6/2020	4.0	11.2	8.76	19.5	5.4	0	23	160	61000	61000	23	0	56
5/14/2020	3.5	12.1	8.81	20.0	11.0	0	56	9	28000	28000	56	0	300
5/22/2020	3.0	9.6	8.76	19.7	5.0	84	120	19	10000	9600	84	0	180
5/27/2020	4.5	10.3	8.81	20.8	7.8	0	110	23	22000	21000	280	0	630
6/4/2020	3.0	11.7	8.82	21.1	4.9	29	43	370	1000	0	43	320	200
6/10/2020	4.0	12.5	8.93	21.1	5.0	57	220	1000	2300	0	40	550	410
6/17/2020	4.0	9.0	8.85	21.1	4.7	30	50	300	1100	200	60	330	140
6/24/2020	4.0	7.4	8.67	21.7	3.8	0	340	110	2700	2000	39	0	180
7/1/2020	4.5	6.8	8.66	21.8	3.7	5	85	110	2500	1600	50	530	85
7/8/2020	3.0	7.4	8.65	21.9	5.8	10	65	75	12000	9900	1200	210	270
7/15/2020	4.0	9.3	8.89	22.4	15.0	30	91	81	58000	57000	360	170	320



Appendix B Limnology: Lopez Lake Section G													
	Visibility	Dissolved Oxygen	pH-Field	Temperature	Turbidity	Golden Algae	Cryptomonads	Dinoflagellates	Total Algae Counts	Blue-greens	Diatoms	Flagellates	Greens
Date	ft.	mg/L		°C	NTU	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL	cells/mL
7/22/2020	4.0	8.1	8.85	22.3	6.4	10	290	50	32000	30000	240	340	770
7/29/2020	3.5	8.9	8.82	22.4	7.4	0	420	40	28000	26000	180	480	940
8/5/2020	3.5	6.8	8.81	22.3	6.2	0	430	81	18000	14000	150	300	2800
8/12/2020	4.0	9.2	8.80	22.3	4.4	0	160	46	4800	1400	960	82	2100
8/19/2020	3.0	9.4	8.87	24.1	3.8	0	110	160	2800	1300	290	75	890
8/26/2020	5.0	6.9	8.80	23.3	3.0	2	17	110	2600	1500	10	130	790
9/1/2020	4.5	6.1	8.71	22.3	3.3	5	120	160	3500	1400	0	10	1800
9/9/2020	4.0	7.2	8.77	22.6	3.8	0	65	100	1500	100	5	50	1200
9/15/2020	4.0	7.1	8.74	21.1	2.8	5	75	5	3000	320	0	40	2600
9/22/2020	4.0	8.0	8.75	20.9	2.9	15	25	55	12000	0	15	240	12000
9/29/2020	4.0	8.7	8.74	21.0	3.1	0	40	40	4800	50	0	15	4700
10/14/2020	9.0	9.9	8.71	21.1	2.7	0	0	60	2400	0	0	0	2300
11/16/2020	4.0	7.4	8.60	15.9	2.2	0	10	0	1400	0	40	10	1300
12/8/2020	4.0	6.70	8.34	11.8	3.0	0	120	0	1200	400	55	30	550
Min	1	5	7.85	10.3	1.3	0	0	0	11	0	0	0	0
Max	9	13	9.10	24.1	70	570	2000	1300	71000	71000	12000	550	13000
Average	4	9	8.62	19.6	4.8	18.4	96	100	5381	3931	269	51	925
Median	4	9	8.66	20.7	3.7	0	43	33	1500	325	40	0	170
n	162	162	162	162	162	162	162	162	162	162	162	162	162



Appendix B6 Algal Toxin Screening: Lopez Lake Section E

Appendix B Algal Toxin: Lopez Lake Section E			
Date	Cylondropermopsin (ng/L)	Microcystin (ng/L)	Blue Green Algae Count (cells/mL)
7/8/2020	<0.50	<0.50	5400
7/15/2020	<0.50	<0.50	19000
7/22/2020	<0.50	<0.50	35000
7/29/2020	<0.50	<0.50	13000
8/5/2020	<0.50	<0.50	12000
8/12/2020	<0.50	<0.50	2400
Minimum	<0.50	<0.50	2400
Maximum	<0.50	<0.50	35000
Average	0	0	14467
Median	0	0	12500
n	6	6	6



Appendix B6 Algal Toxin Screening: Lopez Lake Section F

Appendix B Algal Toxin: Lopez Lake Section F			
Date	Cylondropermopsin(ng/L)	Microcystin (ng/L)	Blue Green Algae Count (cells/mL)
5/1/2019	<0.50	<0.50	3500
5/8/2019	<0.50	<0.50	4900
5/15/2019	<0.50	<0.50	29000
5/22/2019	<0.50	<0.50	49000
5/29/2019	<0.50	<0.50	13000
6/5/2019	<0.50	<0.50	54000
6/12/2019	<0.50	<0.50	34000
6/19/2019	<0.50	<0.50	1100
6/26/2019	<0.50	<0.50	900
7/3/2019	<0.50	<0.50	970
7/10/2019	<0.50	<0.50	650
9/11/2019	<0.50	<0.50	5300
4/29/2020	<0.50	<0.50	9400
5/6/2020	<0.50	<0.50	73000
5/14/2020	<0.50	<0.50	24000
5/22/2020	<0.50	<0.50	17000
5/27/2020	<0.50	<0.50	20000
6/24/2020	<0.50	<0.50	5400
7/8/2020	<0.50	<0.50	7900
7/15/2020	<0.50	<0.50	35000
7/22/2020	<0.50	<0.50	50000
7/29/2020	<0.50	<0.50	27000
8/5/2020	<0.50	<0.50	24000
8/12/2020	<0.50	<0.50	1200
8/26/2020	<0.50	<0.50	2400



Appendix B Algal Toxin: Lopez Lake Section F			
Date	Cylondrospermopsin(ng/L)	Microcystin (ng/L)	Blue Green Algae Count (cells/mL)
Minimum	<0.50	<0.50	650
Maximum	<0.50	<0.50	73000
Average	0	0	19705
Median	0	0	13000
n	25	25	25



Appendix B6 Algal Toxin Screening: Lopez Lake Section G

Appendix B Algal Toxin: Lopez Lake: Section G			
Date	Cylondro(ng/L)	Microcystin (ng/L)	Blue Green Algae Count (cells/mL)
7/8/2020	<0.50	<0.50	9900
7/15/2020	<0.50	<0.50	57000
7/22/2020	<0.50	<0.50	30000
7/29/2020	<0.50	<0.50	26000
8/5/2020	<0.50	<0.50	14000
8/12/2020	<0.50	<0.50	1400
Minimum	<0.50	<0.50	1400
Maximum	<0.50	<0.50	57000
Average	0	0	23050
Median	0	0	20000
n	6	6	6



Appendix B6 Algal Toxin Screening: Lopez Lake Intake 5

Appendix B Algal Toxin: Lopez Lake: Intake 5			
Date	Cylondro(ng/L)	Microcystin (ng/L)	Blue Green Algae Count (cells/mL)
5/1/2019	<0.50	<0.50	0
5/8/2019	<0.50	<0.50	0
5/15/2019	<0.50	<0.50	640
5/22/2019	<0.50	<0.50	690
5/29/2019	<0.50	<0.50	38
6/5/2019	<0.50	<0.50	720
6/12/2019	<0.50	<0.50	160
6/19/2019	<0.50	<0.50	20
6/26/2019	<0.50	<0.50	0
7/3/2019	<0.50	<0.50	0
7/10/2019	<0.50	<0.50	0
9/11/2019	<0.50	<0.50	4100
4/29/2020	<0.50	<0.50	750
5/6/2020	<0.50	<0.50	1600
5/14/2020	<0.50	<0.50	280
5/22/2020	<0.50	<0.50	0
5/27/2020	<0.50	<0.50	690
6/24/2020	<0.50	<0.50	460
7/8/2020	<0.50	<0.50	1000
7/15/2020	<0.50	<0.50	900
7/22/2020	<0.50	<0.50	860
7/29/2020	<0.50	<0.50	4000
8/5/2020	<0.50	<0.50	6200
8/12/2020	<0.50	<0.50	46
8/26/2020	<0.50	<0.50	0
Minimum	<0.50	<0.50	0
Maximum	<0.50	<0.50	6200
Average	0	0	926
Median	0	0	460
n	25	25	25



Appendix B6 Algal Toxin Screening: Lopez Terminal Section B

Appendix B Algal Toxin: Lopez Terminal Section B			
Date	Cylondro(ng/L)	Microcystin (ng/L)	Blue Green Algae Count (cells/mL)
5/28/2019	<0.50	<0.50	2000
6/3/2019	<0.50	<0.50	21
10/6/2020	<0.50	<0.50	2000
Minimum	<0.50	<0.50	21
Maximum	<0.50	<0.50	2000
Average	0	0	1340
Median	0	0	2000
n	3	3	3

Appendix B6 Algal Toxin Screening: Lopez Project Influent to Plant (WQ-01)

Appendix B Algal Toxin: Lopez Project WQ-01			
Date	Cylondro(ng/L)	Microcystin (ng/L)	Blue Green Algae Count (cells/mL)
10/22/2018	<0.50	<0.50	140
Minimum	<0.50	<0.50	140
Maximum	<0.50	<0.50	140
Average	0	0	140
Median	0	0	140
n	1	1	1



Appendix C1: Pesticide Product Use by Year 2016-2020

2016 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
ABBA ULTRA MITICIDE/INSECTICIDE	36.0	1.4	----
ACIDIPHACTANT	466.0	14.4	----
ACTARA	105.0	3.7	----
ACTIGARD 50WG (CA &	115.2	0.3	3.9
ACTIGARD 50WG (CA)	78.4	0.3	1.6
ACTIGARD 50WG (CA, H	8.8	----	0.4
AMINE 4 2,4-D WEED K	170.0	31.9	----
ARMOR INSECT GROWTH REGULATOR	1.3	4.3	----
AZERA(R)	68.9	20.9	----
BELT SC INSECTICIDE	27.3	0.5	----
BRANDT LIME SULFUR	0.8	0.5	----
BRAVO ULTREX	24.5	4.3	----
BRAVO WEATHER STIK	315.1	60.6	----
CABRIO(R) EG FUNGICI	106.2	6.7	29.1
CHATEAU(R) HERBICIDE	56.4	----	21.4
CHEMINOVA MALATHION	27.6	6.5	----
CHOICE WEATHER MASTE	14.5	1.1	----
CHOICE WEATHER MASTER	8.0	0.4	----
CUEVA FUNGICIDE CONC	61.0	78.3	----
DACTHAL FLOWABLE	104.9	145.2	----
DELEGATE WG	26.0	0.6	----
DIBROM 8 EMULSIVE	50.0	7.3	----
DIPEL DF BIOLOGICAL INSECTICIDE	5.0	----	----
DIURON 4L HERBICIDE	1.4	1.4	----
DUPONT ASANA XL INSE	16.0	1.0	----
DUPONT AVAUNT INSECT	59.7	1.6	----
DUPONT CORAGEN (CA)	257.6	10.1	----
DUPONT CORAGEN INSEC	185.9	7.5	----
DUPONT EXIREL INSECT	25.5	3.2	----
DUPONT FONTELIS FUNG	90.3	14.2	----
DUPONT GLEAN XP HERB	260.0	----	4.5
DUPONT KOCIDE 3000 F	46.0	----	46.0
DUPONT LANNATE SP IN	3.3	----	3.3
DUSTING SULFUR	466.0	----	6990.0



2016 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
DYNE-AMIC	16.2	2.0	----
ENDIGO ZC	114.4	4.1	----
ENDURA(R) FUNGICIDE	47.0	1.9	----
ENTRUST	20.0	0.4	----
ENTRUST SC	14.0	0.9	----
EPI-MEK 0.15 EC	61.4	3.6	----
EPI-MEK 0.15 EC MITICIDE/INSECTICIDE	10.0	0.8	----
ET HERBICIDE/DEFOLIANT	4.2	0.1	----
FERROXX	140.0	-----	2400.0
FIRST CHOICE SLUGGO SNAIL AND SLUG BAIT	2.0	-----	20.0
FLAME	5.0	0.4	----
FLINT FUNGICIDE	14.0	0.3	----
FORFEIT 280	72.4	41.2	----
FULFILL	213.3	4.2	2.7
GLY STAR PLUS	151.0	107.0	----
GOAL 2XL	21.8	2.3	----
GOALTENDER	73.3	7.4	----
GOWAN MALATHION 8	4.9	0.8	----
GOWAN MALATHION 8 FL	16.2	2.5	----
GRAMOXONE SL 2.0	28.1	14.0	----
GRANDEVO (CA)	106.0	29.3	41.8
HERBIMAX	40.5	5.4	----
IAP HI SUPREME SPRAY OIL	82.0	145.0	----
IAP ORGANIC SUMMER 415 SPRAY OIL	12.0	7.5	----
IAP SUMMER 415 SPRAY OIL	22.0	5.5	----
IMIDACLOPRID 4F	12.0	0.8	----
INTREPID 2F	374.8	26.3	----
JAVELIN WG	62.5	5.9	9.8
JMS STYLET-OIL	28.0	44.3	----
KERB SC	44.3	14.6	----
LAMBDA-CY 1EC	16.9	0.5	----
LAMBDA-CY AG	62.5	1.5	----
LEAF LIFE GAVICIDE G	52.4	733.6	----
LEVERAGE 360 (CA) IN	46.5	1.1	----
LEVERAGE 360 INSECTI	125.1	2.9	----
LI 700	324.4	32.6	----



2016 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
LUNA SENSATION (CA)	16.9	1.0	----
MAKAZE (CA)	19.5	24.4	----
MALATHION 8 AQUAMUL	270.5	42.2	----
MANZATE PRO-STICK	40.4	----	80.8
MELOCON WG	16.2	8.1	0.0
MICROTHIOL DISPERSS	236.5	----	709.0
MILLER MIST-CONTROL	6.5	0.7	----
MILSTOP (CA)	85.4	21.9	147.5
MONTANA 4F	111.8	7.0	----
MONTEREY SUPER 7	2.0	0.5	----
MOVENTO	709.9	34.1	----
MOVENTO (CA)	47.5	1.7	----
M-PEDE	70.4	53.1	----
MULTI-SPRED	50.7	10.6	----
MUSTANG	779.1	25.6	----
MUSTANG 1.5 EW INSECTICIDE	10.0	0.3	----
NEEMIX 4.5	109.5	6.7	----
NEEMIX 4.5 BOTANICAL AGRICULTURAL INSECTICIDE	1.9	0.7	----
NO FOAM A	10.5	0.8	----
NUFARM LAMBDA-CYHALO	309.5	8.8	----
NUFARM WEEDAR 64 BROADLEAF HERBICIDE	120.0	30.0	----
PHT 440 SUPREME SPRA	37.0	74.0	----
PHT AD-BUFF (CA)	34.0	1.1	----
PHT ENTRY	1287.4	54.0	----
PHT ENTRY (CA)	47.2	0.7	----
POAST(R) HERBICIDE	3.6	1.1	----
POUNCE 25 WP	40.9	2.9	----
PREFAR 4-E	107.6	161.4	----
PREVICUR FLEX FUNGIC	40.4	10.1	----
PRISTINE FUNGICIDE	21.0	2.3	----
PRISTINE(R) FUNGICID	233.0	----	174.8
PROCURE 480SC (015/0	33.8	2.1	----
PROVINCE	47.5	1.2	----
PYGANIC CROP PROTECT	215.0	30.7	----
QUADRIS	139.4	15.1	----



2016 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
QUADRIS (CA & HI)	35.4	3.7	----
QUADRIS (CA)	184.2	20.9	----
QUADRIS (CA, HI, NY	16.2	2.0	----
QUEST (CA)	16.2	2.0	----
QUINTEC	480.0	15.2	----
RADIANT SC	373.4	25.9	----
RALLY 40 WSP	99.1	3.1	----
RALLY 40W AGRICULTURAL FUNGICIDE IN WATER SOLUBLE POUCHES	3.5	0.2	----
RAMIK OATS KILLS GRO	74.0	----	296.0
REAPER 0.15 EC	42.5	4.0	----
REAPER ADVANCE (CA)	5.8	0.5	----
REAPER CLEARFORM	16.1	1.4	----
REAPER CLEARFORM (CA	47.7	5.2	----
REASON 500 SC (CA) F	195.4	11.3	----
RED-TOP SPRAY SULFUR	12.0	----	12.0
REGALIA	68.2	52.3	----
REGALIA (CA)	59.2	31.0	----
REIGN	52.8	7.9	----
REVUS (CA & HI)	105.7	6.6	----
REVUS (CA & NY)	80.6	5.0	----
REVUS (CA, HI, & NY)	8.8	0.5	----
RO-NEET HERBICIDE	36.1	24.2	----
ROUNDUP POWERMAX HER	102.6	37.1	----
SERENADE SOIL	13.5	20.3	----
SHARK EW	52.8	0.8	----
SONATA	82.6	61.6	----
SPREADER 90	375.0	16.0	----
SULFUR DF	184.0	----	1840.0
TEBUSTAR 45WSP	46.0	----	11.5
TELONE II	144.9	1602.7	----
THIOLUX	558.0	----	1674.0
THIOLUX DRY FLOWABLE MICRONIZED SULFUR	3.5	----	25.0
TRILOGY	5.0	85.9	----
ULTRA PRO	4.7	0.6	----
VANGARD WG	3.5	0.4	----



2016 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
VANGARD WG (CA)	29.0	----	18.1
VENOM(R) INSECTICIDE	270.5	5.9	8.7
VENUE HERBICIDE	8.0	0.1	----
VIVANDO(R) FUNGICIDE	75.0	7.5	----
WARRIOR II WITH ZEON	267.4	3.8	----
WRANGLER (CA)	233.5	24.5	----
ZAMPRO(R) FUNGICIDE	49.9	5.5	----
Total	15629	4409	14572

2017 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
2, 4-D AMINE 4 HERBICIDE	0.0	224.1	----
ABBA ULTRA	41.4	2.6	----
ACTIGARD 50WG	110.4	0.5	0.7
ACTIGARD 50WG (CA)	4.5	----	----
ACTIGARD 50WG (OLD V	77.2	----	4.8
ACTIVATOR 90	236.0	5.5	----
AGRI-MEK SC MITICIDE/INSECTICIDE	10.0	0.3	----
ALIAS 4F	159.0	19.9	----
AMERICOP 40 DF	233.0	----	233.0
ASANA(R) XL	5.3	0.4	----
ASSAIL 30SG	81.5	0.5	13.6
ASSAIL 70 WP	24.6	0.1	2.0
AZERA(R)	32.1	10.7	----
BADGE X2	52.4	13.1	----
BELT SC INSECTICIDE	10.0	0.2	----
BESIEGE	42.9	3.0	----
BRAVO ULTREX	15.6	2.7	----
BRAVO WEATHER STIK	262.7	49.3	----
CABRIO(R) EG FUNGICI	71.9	2.7	44.3
CAPAROL 4L	57.4	22.9	----
CHATEAU(R) HERBICIDE	76.9	----	57.7



2017 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
CHEMINOVA MALATHION	25.6	4.8	----
CHOICE WEATHER MASTER	14.0	1.3	----
CONTINGENT	129.4	32.4	----
COPPER SULFUR DUST	98.7	----	1823.6
CUPROFIX ULTRA 40 DI	5.1	----	6.6
DACTHAL FLOWABLE	88.8	149.7	----
DELEGATE WG	70.0	3.3	----
DUPONT AVAUNT INSECT	118.8	1.9	10.7
DUPONT CORAGEN INSEC	388.8	17.9	----
DUPONT EXIREL INSECT	47.3	6.5	----
DUPONT FONTELIS FUNG	19.9	3.7	----
DUPONT GLEAN XP HERB	236.0	----	4.9
DUSTING SULFUR	466.0	----	4660.0
DYNE-AMIC	710.5	41.1	----
ENDIGO ZC	94.4	3.4	----
ENDURA(R) FUNGICIDE	9.0	----	5.1
ENTRUST SC	17.4	0.5	----
FERROXX	50.0	----	1000.0
FORFEIT 280	14.0	3.5	----
FREEWAY	15.5	0.4	----
FULFILL	245.7	4.4	6.6
GLY STAR PLUS	135.0	62.5	----
GLY-4 PLUS HERBICIDE	15.0	5.0	----
GOAL 2XL	52.5	26.2	----
GOALTENDER	40.0	3.8	----
GRAMOXONE SL 2.0	3.5	1.8	----
GRAMOXONE SL 2.0 (HI	129.4	64.7	----
GRANDEVO (CA)	21.1	7.9	----
HERBIMAX	42.8	5.5	----
HIGH CALCIUM HYDRATE	52.4	6.6	----
IAP 415 SUMMER SPRAY OIL	22.0	110.0	----
IAP ORGANIC SUMMER 415 SPRAY OIL	55.0	55.0	----
IAP SUMMER 415 SPRAY OIL	35.0	42.0	----
INTREPID 2F	46.7	3.5	----
JAVELIN WG	16.8	1.4	8.7
JMS STYLET-OIL	14.0	14.0	----



2017 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
KALIGREEN	11.0	4.1	----
KERB SC	25.0	9.4	----
KOCIDE 3000	14.0	----	14.0
LAMBDA-CY 1EC	28.0	0.8	----
LAMBDA-CY AG	65.8	1.8	----
LEAF LIFE GAVICIDE G	89.4	807.6	----
LEVERAGE 360 INSECTI	116.6	2.7	----
LIFELINE	129.4	80.8	----
LOROX DF	25.2	----	33.4
LUNA EXPERIENCE	14.0	0.8	----
LUNA SENSATION	14.0	0.8	----
MACHO 2.0 FL	4.0	0.1	----
MACHO 4.0	241.8	15.8	----
MALATHION 8 AQUAMUL	317.6	46.4	----
MANZATE PRO-STICK	39.9	----	79.8
METTLE 125 ME (CA &	19.0	0.7	0.0
MICROTHIOL DISPERSS	733.5	----	2200.5
MILESTONE	1.5	0.1	----
MILLER MIST-CONTROL	12.0	1.2	----
MILSTOP (CA)	26.0	3.4	75.0
MONTEREY SUPER 7	3.5	0.9	----
MOVENTO	550.5	30.5	----
MOVENTO (CA & NY)	84.8	3.2	----
M-PEDE	11.0	8.3	----
MUSTANG	670.0	22.3	----
MUSTANG 1.5 EW INSECTICIDE	91.0	3.0	----
MUSTANG INSECTICIDE	35.0	1.2	----
NEEMIX 4.5	63.9	4.1	----
NEEMIX 4.5 BOTANICAL AGRICULTURAL INSECTICIDE	137560.0	1.3	----
NUFARM LAMBDA-CYHALO	129.1	3.7	----
NUFARM WEEDAR 64 BROADLEAF HERBICIDE	64.0	16.0	----
OROBOOST	22.0	1.9	----
PERM-UP 25DF	98.7	3.7	42.9
PERM-UP 3.2 EC	162.9	9.8	----



2017 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
PHT 415 SUPREME SPRA	15.3	15.3	----
PHT 415 SUPREME SPRAY OIL	94.0	200.0	----
PHT AD-MAX 90	52.5	6.6	----
PHT ENTRY	923.4	41.1	----
PLANT HEALTH TECHNOL	7.6	0.5	----
POUNCE 25 WP	36.8	2.7	6.4
PREFAR 4-E	94.4	141.6	----
PREMIUM MSO - METHYL	224.9	28.1	----
PRINCEP 4L	40.3	40.3	----
PRINCEP CALIBER 90 HERBICIDE	60.0	----	264.0
PRISTINE(R) FUNGICID	233.0	----	262.1
PROCURE 480SC (015/0	14.0	0.9	----
PROWL(R) H2O HERBICI	79.5	29.8	----
PYGANIC CROP PROTECT	116.6	14.8	----
QUADRIS	309.8	36.6	----
QUADRIS (CA, HI, & N	58.7	6.9	----
QUADRIS (CA, HI, NY,	12.5	1.5	----
QUADRIS FLOWABLE FUNGICIDE	12.0	1.4	----
QUEST (CA)	76.9	19.2	----
QUINTEC	233.0	10.9	----
RADIANT SC	312.8	20.7	----
RALLY 40 WSP	101.3	2.9	2.7
REAPER 0.15 EC	8.2	1.0	----
REAPER ADVANCE (CA)	38.2	2.4	----
REAPER CLEARFORM (CA	90.8	9.5	----
REASON 500 SC FUNGIC	142.6	8.7	----
RED-TOP SPRAY SULFUR	12.0	----	21.0
REVUS	274.0	17.1	----
REVUS (CA)	87.5	5.4	----
RO-NEET HERBICIDE	121.8	74.4	----
ROUNDUP POWERMAX HER	371.2	226.0	----
SEQUOIA (CA)	14.0	0.2	----
SHARK EW	236.0	3.7	----
SIVANTO PRIME	59.9	6.5	----
SPREADER 90	14.0	0.9	----
SPRET	233.0	14.6	----



2017 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
SWITCH 62.5WG (CA)	3.5	----	3.1
TEBUSTAR 45WSP	214.0	----	53.5
TELONE II	112.0	1533.6	----
TRILOGY	3.0	31.0	----
TRIO-W (CA)	42.0	13.1	----
ULTRA PRO	10.8	1.4	----
VANGARD WG (CA)	19.0	----	11.9
VENOM(R) INSECTICIDE	113.6	1.4	11.5
VENUE HERBICIDE	14.0	0.3	----
VIVANDO(R) FUNGICIDE	15.5	1.9	----
WARRIOR II WITH ZEON	218.0	3.2	----
WEEVIL-CIDE TABLETS	63.0	0.2	----
WRANGLER	74.0	0.9	----
ZAMPRO(R) FUNGICIDE	18.5	2.0	----
Total	14801	4711	10964



2018 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
ABBA ULTRA	107.4	6.5	-----
ACTARA	105	4.1	-----
ACTIGARD 50WG	104.7	0.2	2.76
ACTIVATOR 90	1008.89	71.5	-----
ADMIRE PRO SYSTEMIC	52.28	4.1	-----
ADMIRE PRO SYSTEMIC PROTECTANT	16	0.4	-----
AGRI-MEK SC MITICIDE/INSECTICIDE	10	0.3	-----
AMERICOP 40 DF	233	-----	233
ASANA(R) XL	110.29	8.0	-----
ASSAIL 70 WP	177.04	1.5	6.16
BELAY(R) 50 WDG INSE	18.4	0.3	-----
BELAY(R) INSECTICIDE	38.41	1.2	-----
BESIEGE	22.83	1.6	-----
BESIEGE (CA, NY, & P	42	2.9	-----
BRAVO ULTREX	18.4	3.2	-----
BRAVO WEATHER STIK	150.94	28.3	-----
CABRIO(R) EG FUNGICI	97.13	4.6	59.66
CAPAROL 4L	66.39	25.8	-----
CAPAROL 4L (CA)	39.6	15.8	-----
CHATEAU(R) HERBICIDE	23.92	-----	17.94
DACTHAL FLOWABLE	117.11	203.8	-----
DIBROM 8 EMULSIVE	69.7	8.7	-----
DOUBLE NICKEL LC	4.5	2.5	-----
DREXEL MALATHION 5EC	3.47	0.7	-----
DUPONT AVAUNT INSECT	97.01	1.8	7.04
DUPONT CORAGEN INSEC	371.99	15.9	-----
DUPONT EXIREL INSECT	156.85	23.3	-----
DUPONT FONTELIS FUNG	78.86	14.6	-----
DUPONT GLEAN XP HERB	219	-----	4.11
DUSTING SULFUR	699	-----	6990
DYNE-AMIC	29.33	3.7	0
ENDURA(R) FUNGICIDE	6	-----	3.38
ENTRUST SC NATURALYT	17.35	0.5	-----
ESTEEM 0.86 EC INSECT GROWTH REGULATOR	35	4.4	-----
FREEWAY	219	6.8	-----



2018 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
FULFILL	22.9	0.2	2.55
GLY STAR PLUS	130	62.5	-----
GOALTENDER	166.84	37.6	-----
GRAMOXONE SL 2.0	76.89	38.5	-----
GRANDEVO (CA)	17.6	6.1	-----
HERBIMAX	59.92	12.6	-----
IAP 415 SUMMER SPRAY OIL	70	265.0	-----
IAP SUMMER 415 SPRAY OIL	35	70.0	-----
INITIATE 720 FLOWABL	61.02	11.4	-----
INTREPID 2F	122.02	10.1	-----
JAVELIN WG BIOLOGICA	34	2.9	15.75
LAMBDA-CY 1EC	53.46	1.5	-----
LAMBDA-CY AG	8.12	0.2	-----
LEAF LIFE GAVICIDE G	174.42	1535.0	-----
LEVERAGE 360 INSECTI	140.66	3.3	-----
LUNA EXPERIENCE	233	10.9	-----
LUNA SENSATION	154.05	9.0	-----
MACHO 4.0	158.72	10.2	-----
MALATHION 8 AQUAMUL	229.24	33.4	-----
MICROTHIOL DISPERSS	937	-----	2806
MOVENTO	582.42	28.0	-----
MOVENTO (CA & NY)	153.41	6.0	-----
MUSTANG	794.23	26.3	-----
MUSTANG 1.5 EW INSECTICIDE	25	0.8	-----
MUSTANG INSECTICIDE	45	1.5	-----
NORDOX 75 WG	70	-----	180
NUFARM LAMBDA-CYHALO	36.28	1.1	-----
PERM-UP 25DF	82.2	0.5	59.76
PERM-UP 3.2 EC	197.46	11.5	-----
PHT 415 SUPREME SPRAY OIL	86	75.0	-----
PHT ENTRY	851.26	32.7	-----
PLANT HEALTH TECHNOL	8.4	0.8	-----
PRINCEP 4L	75	37.5	-----
PROCLAIM	131.03	4.2	1.5
PROWL(R) H2O HERBICI	118.33	59.3	-----
PYGANIC CROP PROTECT	71.2	8.5	-----



2018 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
QUADRIS	181.94	21.4	-----
QUADRIS (CA, HI, & P	50.86	5.7	-----
QUADRIS FLOWABLE FUNGICIDE	195.85	23.3	-----
QUINTEC	466	22.9	-----
RADIANT SC	279.01	20.7	-----
RALLY 40 WSP	327.41	3.0	58.25
REAPER 0.15 EC	5.8	0.5	-----
REAPER CLEARFORM (CA	96.97	10.1	-----
REASON 500 SC FUNGIC	105.3	6.7	-----
RED-TOP SPRAY SULFUR	7	-----	13
RELY 280 HERBICIDE	76.89	38.4	-----
REVUS	254.41	15.8	-----
RO-NEET HERBICIDE	33.5	22.4	-----
ROUNDUP POWERMAX HER	157.68	89.2	-----
ROUNDUP WEATHERMAX H	3.05	1.5	-----
SEQUOIA (CA)	143.29	2.2	0
SIVANTO PRIME	69.4	7.0	-----
SIVANTO PRIME (CA)	234.61	25.1	-----
SPRET	233	7.3	-----
TEBUSTAR 45 WSP	12	0.5	-----
TELONE II	115.8	1389.6	-----
TRIO-W (CA)	88.24	27.1	-----
ULTRA PRO	18.65	2.3	-----
VELUM ONE	14.75	0.8	-----
VENOM(R) INSECTICIDE	114.41	1.2	9.22
VINTRE	12	1.5	-----
WARRIOR II WITH ZEON	161.6	2.4	-----
WEEVIL-CIDE TABLETS	2	-----	60
WRANGLER	295.4	30.0	-----
ZAMPRO(R) FUNGICIDE	47.5	5.2	-----
Total	14583	4665	10530



2019 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
ABBA ULTRA	13.1	0.8	----
ABBA ULTRA MITICIDE/INSECTICIDE	51.3	3.0	----
ABOUND FLOWABLE FUNGICIDE	117.1	13.8	----
ACTARA	70.0	2.6	----
ACTIGARD 50WG	105.1	0.1	5.0
ACTIGARD 50WG PLANT ACTIVATOR	65.5	0.3	0.2
ACTIVATOR 90	260.0	59.8	----
ADMIRE PRO SYSTEMIC	14.0	1.1	----
ADMIRE PRO SYSTEMIC PROTECTANT	78.6	3.0	----
AGRI-MEK SC MITICIDE/INSECTICIDE	10.0	0.3	----
ALION HERBICIDE	52.5	1.4	----
AMERICOP 40 DF	233.0	----	233.0
ASANA XL INSECTICIDE	16.0	1.1	----
ASANA(R) XL	58.8	3.9	----
ASSAIL 70 WP	78.8	0.9	0.5
ASSAIL 70WP INSECTICIDE	84.2	0.8	0.8
AVAUNT INSECTICIDE	9.0	----	2.0
AZA-DIRECT	0.5	2.5	----
AZERA INSECTICIDE	3.0	1.3	----
AZERA(R) INSECTICIDE	4.5	1.8	----
BELEAF 50 SG INSECTICIDE	60.1	1.0	----
BESIEGE	9.5	0.7	----
BESIEGE INSECTICIDE	25.2	1.8	----
BRAVO WEATHER STIK	115.3	22.6	----
CABRIO EG FUNGICIDE	95.8	8.8	19.9
CABRIO(R) EG FUNGICI	37.5	3.5	6.9
CAPAROL 4L	59.3	23.6	----
CELITE 610	1.5	0.6	----
CORAGEN INSECT CONTROL	41.9	2.3	----
CUEVA FUNGICIDE CONCENTRATE	2.5	2.5	----
DACTHAL FLOWABLE	41.0	71.8	----
DACTHAL FLOWABLE HERBICIDE	54.2	94.9	----
DREXEL MALATHION 5EC	18.0	3.6	----
DU PONT AVAUNT INSECTICIDE	26.6	0.7	----
DUPONT AVAUNT INSECT	8.5	0.2	----



2019 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
DUPONT CORAGEN INSEC	79.5	3.1	----
DUPONT CORAGEN INSECT CONTROL	139.0	5.4	----
DUPONT EXIREL INSECT	11.8	1.7	----
DUPONT EXIREL INSECT CONTROL	20.0	2.8	----
DUPONT EXPRESS HERBICIDE (WITH TOTALSOL SOLUBLE GRANULES)	260.0	0.4	----
DUPONT FONTELIS FUNG	3.5	0.6	----
DUPONT FONTELIS FUNGICIDE	5.2	0.9	----
DUPONT MATRIX SG HER	52.5	----	13.1
DYNE-AMIC	225.7	18.8	----
ELEVATE 50 WDG FUNGICIDE	12.0	----	12.0
ENDIGO ZC	12.4	0.4	----
ENDURA(R) FUNGICIDE	35.0	----	24.1
ENTRUST SC	4.0	0.1	----
ENTRUST SC NATURALYT	8.0	0.6	----
ESTEEM 0.86 EC INSECT GROWTH REGULATOR	35.0	4.4	----
EXIREL INSECT CONTROL	39.7	4.4	----
FERROXX	35.0	----	700.0
FORFEIT 280	12.0	5.0	----
FULFILL	41.3	0.7	1.4
GLY STAR PLUS	50.0	25.0	----
GOAL 2XL	52.5	13.1	----
GOALTENDER	84.5	9.6	----
GOWAN MALATHION 8 FLOWABLE	24.0	3.8	----
GRANDEVO	5.1	1.9	----
HERBIMAX	47.9	6.0	----
IAP 415 SUMMER SPRAY OIL	37.0	55.0	----
IAP HI SUPREME SPRAY OIL	40.0	84.0	----
IAP SUMMER 415 SPRAY OIL	63.0	80.0	----
IMIDACLOPRID 4F	159.0	19.9	----
INTREPID 2F	117.2	8.6	----
JAVELIN WG BIOLOGICA	2.5	0.4	----
JAVELIN WG BIOLOGICAL INSECTICIDE	1.5	0.3	----
JET-AG	3.5	2.1	----
JMS STYLET-OIL	12.0	12.0	----



2019 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
LEAF LIFE GAVICIDE G	37.0	74.0	----
LEAF LIFE GAVICIDE GREEN 415	67.7	689.9	----
LEVERAGE 360 INSECTI	129.8	3.1	----
LEVERAGE 360 INSECTICIDE	56.6	1.3	----
LOROX DF	78.1	9.8	----
LUNA SENSATION	204.9	11.5	----
MAESTRO 4EC SELECTIVE HERBICIDE	260.0	260.0	----
MALATHION 8 AQUAMUL	89.1	13.9	----
MANZATE PRO-STICK	46.0	----	92.0
MICROTHIOL DISPERSS	809.5	2.8	2396.0
MILLER MIST-CONTROL	10.0	1.0	----
MILSTOP BROAD SPECTRUM FOLIAR FUNGICIDE	1.5	----	5.0
MOVENTO	381.3	15.4	----
M-PEDE INSECTICIDE M	3.5	2.0	----
M-PEDE INSECTICIDE-MITICIDE-FUNGICIDE	2.5	1.3	----
MSO CONCENTRATE	52.5	6.6	----
MUSTANG	23.7	0.8	----
MUSTANG (CA & NY)	300.6	9.9	----
MUSTANG 1.5 EW INSECTICIDE	25.0	0.8	----
MUSTANG INSECTICIDE	382.0	12.3	----
NORDOX 75 WG	70.0	----	200.0
NOVASOURCE SURROUND	1.5	7.5	----
NUFARM WEEDAR 64 BROADLEAF HERBICIDE	120.0	30.0	----
OROBOOST	0.5	0.8	----
ORONDIS ULTRA	172.5	10.6	----
OXIDATE 2.0	8.0	7.3	----
PERM-UP 25 DF INSECTICIDE	51.0	4.9	----
PERM-UP 25DF	7.9	----	6.3
PERM-UP 3.2 EC	35.5	2.0	----
PERM-UP 3.2 EC INSECTICIDE	67.4	3.6	----
PHT 415 SUPREME SPRAY OIL	10.0	20.0	----
PHT ENTRY	634.9	15.8	----
PRESIDIO FUNGICIDE	18.6	0.4	----
PREVICUR FLEX FUNGIC	81.0	20.3	----
PRINCEP CALIBER 90 HERBICIDE	40.0	----	160.0



2019 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
PRISTINE FUNGICIDE	12.0	1.9	----
PROCLAIM INSECTICIDE	13.0	0.2	2.4
PROCURE 480SC	25.3	1.4	----
PROWL(R) H2O HERBICI	42.7	16.0	----
PYGANIC CROP PROTECT	7.8	0.8	----
PYGANIC CROP PROTECTION EC 1.4 II	25.7	3.2	----
PYGANIC CROP PROTECTION EC 5.0 II	27.6	2.9	----
QUADRIS (CA, HI, & P	110.7	13.0	----
QUADRIS FLOWABLE FUNGICIDE	46.2	5.2	----
QUADRIS TOP FUNGICIDE	16.5	1.8	----
QUINTEC	171.0	8.0	----
RADIANT SC	164.5	11.8	----
RALLY 40 WSP	16.9	0.5	----
RALLY 40WSP	258.8	0.8	72.8
REAPER 0.15 EC	33.3	2.1	----
REAPER ADVANCE	9.8	0.6	----
REAPER CLEARFORM	49.7	5.3	----
REAPER CLEARFORM (CA	57.7	6.0	----
REASON 500 SC FUNGIC	5.2	0.3	----
REASON 500 SC FUNGICIDE	21.0	1.2	----
RELY 280	52.5	32.8	----
RELY 280 HERBICIDE	52.5	32.8	----
REVUS	207.4	13.0	----
RO-NEET HERBICIDE	78.8	52.8	----
ROUNDUP POWERMAX HER	135.8	52.6	----
ROUNDUP POWERMAX HERBICIDE	17.0	8.5	----
SHARK EW	52.5	0.8	----
SIVANTO 200 SL	61.7	5.3	----
SIVANTO PRIME	105.1	10.6	----
SOVRAN FUNGICIDE	12.0	0.6	----
SPREADER 90	551.0	27.4	----
SUPPRESS HERBICIDE EC	8.8	32.6	----
SYL-COAT	11.5	0.5	----
TEBUCON 45 DF FUNGICIDE	159.0	----	39.8
TELONE II	147.8	1773.1	----



2019 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
TRI-FOL	4.0	0.1	-----
TRI-FOL(R)	4.0	0.2	-----
TRILOGY	1.5	0.8	-----
ULTRA PRO	47.9	10.7	-----
VENOM INSECTICIDE	161.0	2.8	0.7
VENOM(R) INSECTICIDE	45.1	0.6	1.5
VINTRE	36.0	5.1	-----
WARRIOR II WITH ZEON TECHNOLOGY	44.0	0.6	-----
WEEVIL-CIDE TABLETS	4.0	-----	510.0
WILBUR-ELLIS DUSTING SULFUR	233.0	-----	2330.0
WILLOWOOD IMIDACLOPRID 4SC	59.3	3.7	-----
WRANGLER INSECTICIDE	25.5	1.6	-----
ZAMPRO FUNGICIDE	30.0	3.3	-----
ZAMPRO(R) FUNGICIDE	16.5	1.8	-----
Total	11412	4105	6835



2020 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
ABBA ULTRA MITICIDE/INSECTICIDE	55.36	3.4	----
ACTARA	21	0.3	3.8
ACTIGARD 50WG PLANT ACTIVATOR	10.26	0.1	----
ACTIGARD 50WG PLANT ACTIVATOR	147.75	0.5	3.8
ACTIVATOR 90	514	46.8	----
ADMIRE PRO SYSTEMIC PROTECTANT	99.1	5.6	----
AGRI-MEK SC MITICIDE/INSECTICIDE	80	1.5	----
ASANA XL INSECTICIDE	44.5	3.1	----
ASSAIL 70WP INSECTICIDE	137.55	1.8	----
AVAUNT INSECTICIDE	3.5	0.0	0.8
BAYTHROID XL	4	0.1	----
BELEAF 50 SG INSECTICIDE	85.69	1.6	1.0
BESIEGE INSECTICIDE	84.98	6.0	----
BIFENTURE EC AGRICULTURAL INSECTICIDE	5	0.2	----
BRAVO ULTREX	31.48	----	44.1
BRAVO WEATHER STIK	3	0.6	----
BROADSPRED GREEN	13.5	0.3	----
BUZZ ULTRA-DF	174	----	26.1
CABRIO EG FUNGICIDE	94.79	2.0	75.3
CAPAROL 4L	109.08	43.6	----
CHAMP WG	52.4	26.2	----
CORAGEN INSECT CONTROL	31	1.3	----
DACTHAL FLOWABLE HERBICIDE	51.07	84.5	----
DEADLINE M-PS MINI PELLETS	16	----	200.0
DU PONT AVAUNT INSECTICIDE	88.98	2.4	----
DUPONT CORAGEN INSECT CONTROL	112.65	5.8	----
DUPONT EXIREL INSECT CONTROL	42.72	6.6	----
DUPONT FONTELIS FUNGICIDE	67.42	11.6	----
DUPONT GLEAN XP HERBICIDE	220	0.6	----
DUPONT MATRIX SG HERBICIDE	52.47	----	13.1
DYNE-AMIC	180.25	10.4	----
ECOZIN PLUS 1.2% ME	30	9.0	----
ELEVATE 50 WDG FUNGICIDE	14	----	14.0
ENDURA FUNGICIDE	24	----	16.3
ENTRUST SC	116.45	4.2	----
ET HERBICIDE/DEFOLIANT	3.42	0.1	----



2020 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
EVERGREEN CROP PROTECTION EC 60-6	68.27	6.7	-----
EXIREL INSECT CONTROL	7.8	1.0	-----
FERROXX	35	-----	450.0
FLAME	57.42	7.2	-----
FORFEIT 280	109.89	68.7	-----
FULFILL	23.28	0.5	-----
GAUNTLET	1.5	0.1	-----
GLY STAR PLUS	70	35.0	-----
GOALTENDER	84.77	12.8	-----
GRANDEVO	4	-----	12.0
GRANDEVO WDG	38.84	14.6	-----
HERBIMAX	81	10.1	-----
IAP 415 SUMMER SPRAY OIL	30	50.0	-----
IAP SUMMER 415 SPRAY OIL	35	35.0	-----
INITIATE 720 FLOWABLE FUNGICIDE	76.26	14.3	-----
INTEGRO MAGIC SULFUR DUST	233	0.0	2330.0
INTREPID 2F	53.92	4.9	-----
INVERTID 2F	174	13.6	-----
JAVELIN WG BIOLOGICAL INSECTICIDE	11.84	2.2	-----
KALIGREEN	4	0.0	12.0
KOCIDE 3000	233	0.0	233.0
LEAF LIFE GAVICIDE GREEN 415	219.42	1569.2	0.0
LEVERAGE 360 INSECTICIDE	137.75	3.3	-----
LOROX DF	51.8	4.8	-----
LUNA EXPERIENCE	14	0.8	-----
LUNA SENSATION	87.76	5.0	-----
MAESTRO 4EC SELECTIVE HERBICIDE	220	220.0	-----
MAKAZE	52.47	26.2	-----
MALATHION 8 AQUAMUL	116.11	16.7	-----
MANZATE PRO-STICK FUNGICIDE	25.25	-----	50.5
MICROTHIOL DISPERS	463.5	-----	1372.0
MILESTONE	120	3.8	-----
MILLER MIST-CONTROL	10	1.0	-----
MILLER NU FILM P	3	0.1	-----
MOVENTO	405.71	18.3	-----
MSO CONCENTRATE	52.47	6.6	-----



2020 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
NEEMIX 4.5	23.74	1.6	-----
ORGANIC JMS STYLET-OIL	14	14.0	-----
ORONDIS ULTRA	176.17	10.8	-----
OXYSTAR 2E	57.42	14.4	-----
PERM-UP 25 DF INSECTICIDE	55.6	-----	44.5
PERM-UP 3.2 EC INSECTICIDE	111.25	6.1	-----
PHT 415 SUPREME SPRAY OIL	122	594.0	-----
PHT ENTRY	396.85	38.1	-----
PLANT HEALTH TECHNOLOGIES VESTIS	35	0.4	-----
POUNCE 25 WP	152.26	14.3	-----
PRESIDIO FUNGICIDE	27.5	0.6	-----
PRIAXOR XEMIIUM BRAND FUNGICIDE	5.5	0.3	-----
PROCLAIM INSECTICIDE	94.1	3.5	-----
PROCURE 480SC	42.75	2.7	-----
PROGIBB LV PLUS PLANT GROWTH REGULATOR SOLUTION	16.6	1.0	-----
PROWL H2O HERBICIDE	52.47	52.5	-----
PYGANIC CROP PROTECTION EC 5.0 II	14.2	1.7	-----
QUADRIS FLOWABLE FUNGICIDE	90.77	10.7	-----
QUADRIS TOP FUNGICIDE	41.38	4.5	-----
QUINTEC	174	8.2	-----
RADIANT SC	184.13	12.4	-----
RALLY 40W AGRICULTURAL FUNGICIDE IN WATER-SOLUBLE POUCHES	14	0.4	-----
REAPER CLEARFORM	154.11	17.1	-----
REASON 500 SC FUNGICIDE	29.2	1.9	-----
REIGN	220	44.0	-----
REVUS	191.87	12.1	-----
RO-NEET HERBICIDE	50.88	34.1	-----
ROUNDUP POWERMAX HERBICIDE	116.47	58.2	-----
ROUNDUP WEATHERMAX HERBICIDE	17	8.5	-----
SAFARI 20 SG INSECTICIDE	6.5	-----	17.6
SEQUOIA	20.13	0.3	-----
SIVANTO PRIME	132.86	14.0	-----
SLUGGO SLUG & SNAIL BAIT	48.7	0.1	-----
SONATA	8	7.3	-----



2020 Pesticide Treated Amount by Product			
Product	Treated Amount (Acre)	Treated Amount (Gallons)	Treated Amount (Pounds)
SPREADER 90	377	18.6	-----
SUPPRESS HERBICIDE EC	6	18.0	-----
SWITCH 62.5WG	16	-----	14.0
TELONE II	62.82	753.8	-----
THIOLUX	174	-----	522.0
ULTRA PRO	81	14.8	-----
VENOM INSECTICIDE	164.83	3.8	5.1
VENUE HERBICIDE	52.47	1.6	-----
VINTRE	28	4.3	-----
VIVANDO FUNGICIDE	203	19.0	-----
WARRIOR II WITH ZEON TECHNOLOGY	187.17	2.8	-----
WEEDAR 64 BROADLEAF HERBICIDE	100	25.0	-----
WESTERN LIME - HIGH CALCIUM HYDRATED LIME	52.4	39.3	-----
WRANGLER INSECTICIDE	174	21.8	-----
XENTARI BIOLOGICAL INSECTICIDE DRY FLOWABLE	12	-----	24.0
ZAMPRO FUNGICIDE	105.92	11.6	-----
Total	10927	4357	5485



Appendix C2: Pesticide Use on Commodity by Year 2016-2020

2016 Commodity Pesticide Treated Amount	
Commodity	Treated Amount (Acre)
AVOCADO	172
BLACKBERRY	3
BROCCOLI	229
BRUSSEL SPROUT	377.2
CABBAGE	148.4
CILANTRO	183.29
GRAPE	0.5
GRAPE, WINE	4429.45
LEMON	478.4
LETTUCE LEAF	106.5
LETTUCE ROMAINE	359.8
MUSHROOM	8.2
NAPA CBG TGHT H	4605.18
NAPA CBG TGHT H ORGANIC	265.8
OAT	690
ORANGE	184
PEACH	0.25
PEPPER FRUITNG	1178.36
RANGELAND	120
RASPBERRY	4
SPINACH	1618.94
SPINACH ORGANIC	461.6
UNCULTIVATED AG	5.52
Total	15629



2017 Commodity Pesticide Treated Amount	
Commodity	Treated Amount (Acre)
AVOCADO	307.62
BROCCOLI	100.5
BRUSSEL SPROUT	252
CABBAGE	236.5
CILANTRO	195.2
CITRUS ORGANIC	17.35
GRAPE, WINE	4969.72
LEMON	500.4
LEMON ORGANIC	104.8
LETTUCE ROMAINE	523.5
MUSHROOM	6.21
NAPA CBG TGHT H	3545.77
OAT	708
ORANGE	275
PEPPER FRUITNG	930.57
RANGELAND	131.5
SPINACH	1908.23
UNCULTIVATED AG	0.01
ZUCCHINI ORGANIC	88
Total	14801

2018 Commodity Pesticide Treated Amount	
Commodity	Treated Amount (Acre)
AVOCADO	322.95
BOK CHOY LSE LF	243.1
BROCCOLI	236
BRUSSEL SPROUT	617.18
CABBAGE	414.14
CILANTRO	235.68
CITRUS	34.7
GRAPE, WINE	4868.24
LEMON	599.4
LEMON ORGANIC	52.4
NAPA CBG TGHT H	3545.02
OAT	438
ORANGE	135
PEPPER FRUITNG	921.18
SPINACH	1920.2
Total	14583



2019 Commodity Pesticide Treated Amount	
Commodity	Treated Amount (Acre)
AVOCADO	278.15
BOK CHOY LSE LF	83.75
BROCCOLI	71
CABBAGE	233.9
CABBAGE ORGANIC	51.5
CILANTRO	197.35
CILANTRO ORGANIC	4.5
GRAPE, WINE	3183.2
INDUSTRIAL HEMP	0.9
LEMON	356
LEMON ORGANIC	52.4
LETTUCE LEAF	594
NAPA CBG TGHT H	3402.11
NAPA CBG TGHT H ORGANIC	16
OAT	780
ORANGE	179
PEPPER FRUITNG	341.12
RANGELAND	120
SPINACH	1458.91
TOMATO ORGANIC	1
ZUCCHINI	7.5
Total	11412



2020 Commodity Pesticide Treated Amount	
Commodity	Treated Amount (Acre)
AVOCADO	424.5
BROCCOLI	304.8
CELERY ORGANIC	125
CILANTRO	204.98
CILANTRO ORGANIC	6
CITRUS ORGANIC	7
GF-FLWRNG PLANT	6.5
GRAPE, WINE	3221.52
KALE	265.55
LEMON	600.67
LEMON ORGANIC	104.8
LETTUCE LEAF	277.5
LETTUCE ROMAINE	20
NAPA CBG TGHT H	2290.25
OAT	1120
OF-FLOWER SEED	6.5
ORANGE	186
RANGELAND	100
SPINACH	1655.85
Total	10927



Appendix D1: Daily Rainfall Totals - Lopez Lake 2016-2020

Appendix D Rain Totals: 2016	
Date	Rain Total (inches)
Jan	6.72
Feb	0.69
Mar	4.16
Apr	0.58
May	0
Jun	0
Jul	0
Aug	0
Sep	0
Oct	2.59
Nov	1.81
Dec	3.56
Total	20.11

Appendix D Rain Totals: 2018	
Date	Rain Total (inches)
Jan	0.66
Feb	0.2
Mar	7.38
Apr	0.5
May	0.01
Jun	0.01
Jul	0
Aug	0
Sep	0
Oct	0.63
Nov	2.66
Dec	1.14
Total	13.19

Appendix D Rain Totals: 2017	
Date	Rain Total (inches)
Jan	12.49
Feb	9.06
Mar	1.69
Apr	1.83
May	0.38
Jun	0
Jul	0
Aug	0.09
Sep	0.15
Oct	0.07
Nov	0.3
Dec	0.05
Total	26.11

Appendix D Rain Totals: 2019	
Date	Rain Total (inches)
Jan	7.06
Feb	7.72
Mar	4.77
Apr	0.12
May	2.21
Jun	0.02
Jul	0
Aug	0
Sep	0.01
Oct	0
Nov	2.52
Dec	4.77
Total	29.2



Appendix D Rain Totals: 2020	
Date	Rain Total (inches)
Jan	0.63
Feb	0.18
Mar	5.24
Apr	2.72
May	0.48
Jun	0.12
Jul	0
Aug	0.28
Sep	0
Oct	0.02
Nov	0.7
Dec	0.08
Total	10.45



Appendix D2: Daily Rainfall Graphs – Lopez Lake 2016-2020

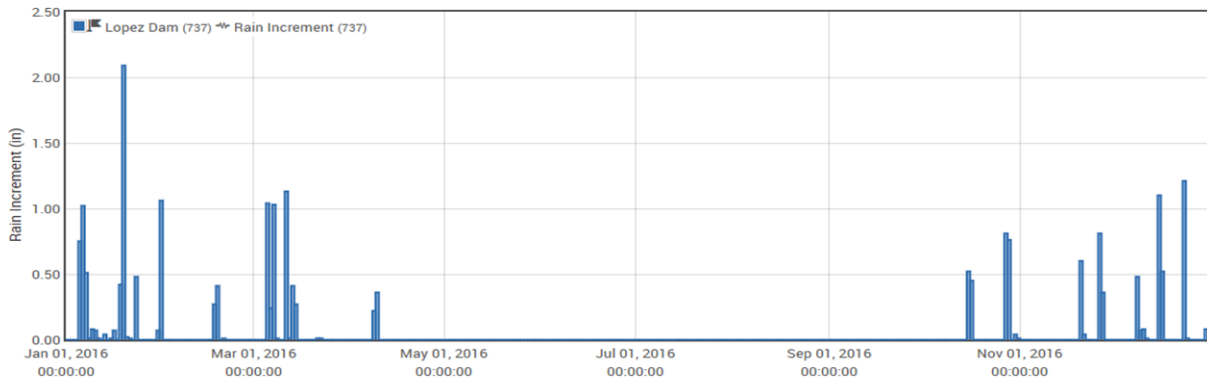


Figure : Rainfall 2016

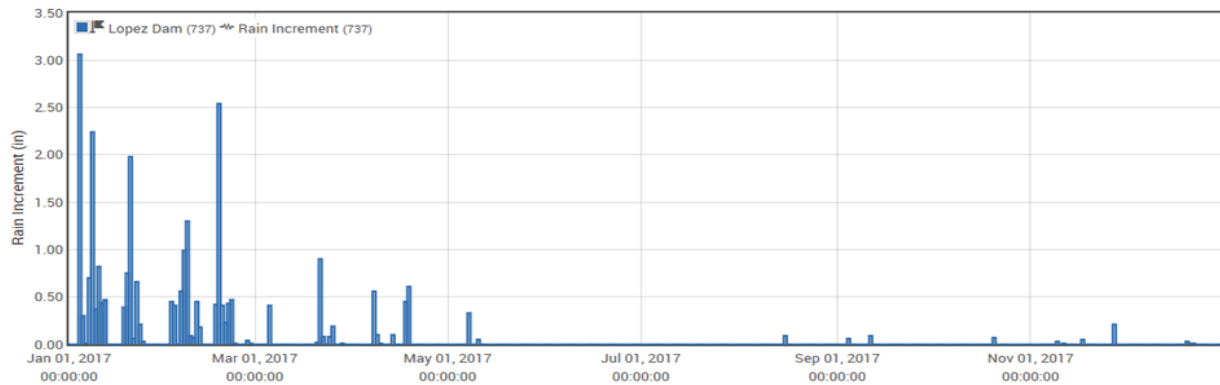


Figure 34 : Rainfall 2017

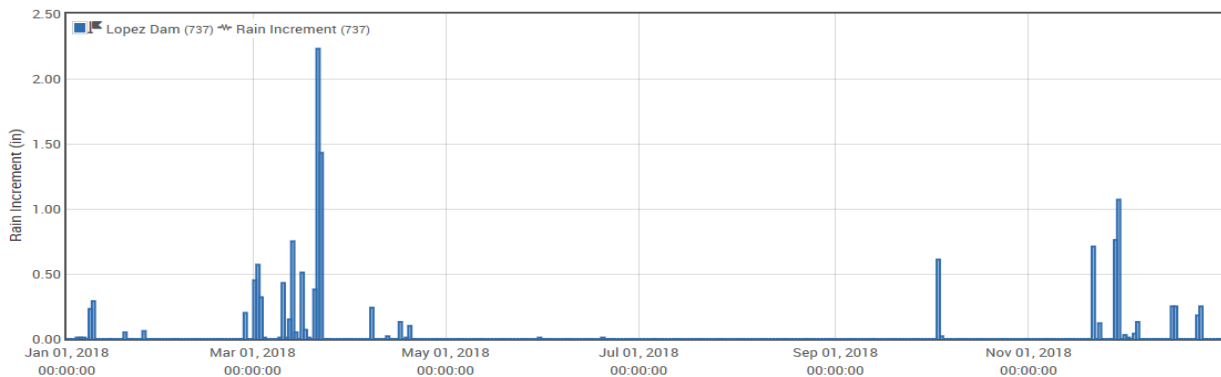


Figure 35: Rainfall 2018

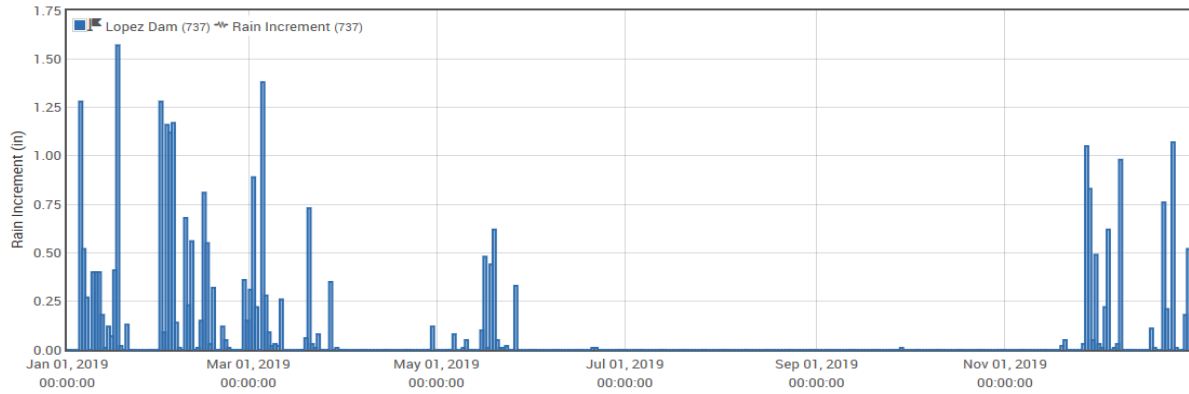


Figure 36: Rainfall 2019

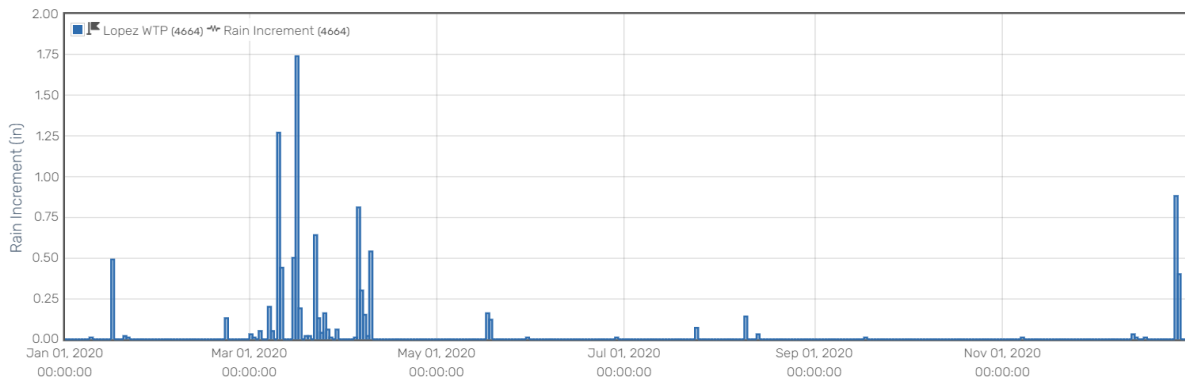


Figure 37: Rainfall 2020



Appendix E: Lake Elevation 2016-2020

Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
[1]	a	b	c	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]
01/01/16	2016	1	1	465.97	13873.2	28	-7.4	2.25	6.90	2.24	6.69	0.00	0.00	0.00	0.00	13.77
01/02/16	2016	1	2	465.94	13862.1	28	-11.1	2.00	6.90	2.24	6.69	0.00	0.00	0.00	0.00	13.00
01/03/16	2016	1	3	465.92	13854.7	28	-7.4	1.85	6.90	2.24	6.69	0.00	0.00	0.00	0.00	12.54
01/04/16	2016	1	4	465.91	13851.0	28	-3.7	1.85	6.90	2.24	6.69	0.00	0.00	0.00	0.00	12.54
01/05/16	2016	1	5	465.90	13847.3	28	-3.7	1.84	6.90	2.24	6.69	0.00	0.00	0.00	0.00	12.52
01/06/16	2016	1	6	465.95	13865.8	28	18.5	1.84	6.90	2.24	6.69	0.00	0.00	0.00	0.00	12.52
01/07/16	2016	1	7	466.11	13925.0	28	59.2	1.84	6.90	2.14	6.69	0.00	0.00	0.00	0.00	12.22
01/08/16	2016	1	8	466.12	13928.7	28	3.7	1.85	6.90	2.14	6.69	0.00	0.00	0.00	0.00	12.23
01/09/16	2016	1	9	466.13	13932.4	28	3.7	1.85	6.90	2.14	6.69	0.00	0.00	0.00	0.00	12.23
01/10/16	2016	1	10	466.13	13932.4	28	0.0	1.84	6.90	2.14	6.69	0.00	0.00	0.00	0.00	12.22
01/11/16	2016	1	11	466.13	13932.4	28	0.0	1.84	6.90	2.15	6.69	0.00	0.00	0.00	0.00	12.24
01/12/16	2016	1	12	466.13	13932.4	28	0.0	1.84	6.90	2.17	6.69	0.00	0.00	0.00	0.00	12.30
01/13/16	2016	1	13	466.13	13932.4	28	0.0	1.84	6.90	2.17	6.69	0.00	0.00	0.00	0.00	12.30
01/14/16	2016	1	14	466.13	13932.4	28	0.0	1.85	6.90	2.16	6.69	0.00	0.00	0.00	0.00	12.30
01/15/16	2016	1	15	466.12	13928.7	28	-3.7	1.85	6.90	2.16	6.69	0.00	0.00	0.00	0.00	12.29
01/16/16	2016	1	16	466.12	13928.7	28	0.0	1.85	6.90	2.16	6.69	0.00	0.00	0.00	0.00	12.30
01/17/16	2016	1	17	466.11	13925.0	28	-3.7	1.84	6.90	2.17	6.69	0.00	0.00	0.00	0.00	12.30
01/18/16	2016	1	18	466.11	13925.0	28	0.0	1.84	6.90	2.35	6.69	0.00	0.00	0.00	0.00	12.88
01/19/16	2016	1	19	466.13	13932.4	28	7.4	1.84	6.90	2.35	6.69	0.00	0.00	0.00	0.00	12.88
01/20/16	2016	1	20	466.64	14122.0	28	189.6	1.84	6.90	2.43	6.69	0.00	0.00	0.00	0.00	13.11
01/21/16	2016	1	21	466.74	14159.3	28	37.3	1.85	6.90	2.44	6.69	0.00	0.00	0.00	0.00	13.16
01/22/16	2016	1	22	466.79	14178.0	28	18.7	1.85	6.90	2.44	6.69	0.00	0.00	0.00	0.00	13.16
01/23/16	2016	1	23	466.84	14196.6	28	18.7	1.85	6.90	2.44	6.69	0.00	0.00	0.00	0.00	13.17
01/24/16	2016	1	24	466.86	14204.1	28	7.5	1.81	6.90	2.82	6.69	0.00	0.00	0.00	0.00	14.22



County of San Luis Obispo
 Lopez Lake and Terminal Reservoir
 2016-2020 Watershed Sanitary Survey

Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
01/25/16	2016	1	25	466.88	14211.6	28	7.5	1.81	6.90	2.64	6.69	0.00	0.00	0.00	0.00	13.66
01/26/16	2016	1	26	466.88	14211.6	28	0.0	1.84	6.90	2.84	6.69	0.00	0.00	0.00	0.00	14.37
01/27/16	2016	1	27	466.87	14207.9	28	-3.7	1.84	6.90	2.84	6.69	0.00	0.00	0.00	0.00	14.36
01/28/16	2016	1	28	466.86	14204.1	28	-3.7	1.84	6.90	2.83	6.69	0.00	0.00	0.00	0.00	14.34
01/29/16	2016	1	29	466.86	14204.1	28	0.0	1.84	6.90	2.83	6.69	0.00	0.00	0.00	0.00	14.33
01/30/16	2016	1	30	466.85	14200.4	28	-3.7	1.84	6.90	2.83	6.69	0.00	0.00	0.00	0.00	14.33
01/31/16	2016	1	31	466.87	14207.9	28	7.5	1.84	6.90	2.55	6.69	0.00	0.00	0.00	0.00	13.46
02/01/16	2016	2	1	467.05	14275.3	28	67.4	1.84	6.90	2.39	6.69	0.00	0.00	0.00	0.00	12.98
02/02/16	2016	2	2	467.08	14286.5	28	11.3	1.85	6.90	2.40	6.69	0.00	0.00	0.00	0.00	13.03
02/03/16	2016	2	3	467.10	14294.0	28	7.5	1.85	6.90	2.40	6.69	0.00	0.00	0.00	0.00	13.03
02/04/16	2016	2	4	467.12	14301.5	28	7.5	1.85	6.90	2.40	6.69	0.00	0.00	0.00	0.00	13.04
02/05/16	2016	2	5	467.13	14305.3	28	3.8	1.85	6.90	2.40	6.69	0.00	0.00	0.00	0.00	13.03
02/06/16	2016	2	6	467.13	14305.3	28	0.0	1.84	6.90	2.40	6.69	0.00	0.00	0.00	0.00	13.01
02/07/16	2016	2	7	467.13	14305.3	28	0.0	1.85	6.90	2.40	6.69	0.00	0.00	0.00	0.00	13.03
02/08/16	2016	2	8	467.12	14301.5	28	-3.8	1.85	6.90	2.40	6.69	0.00	0.00	0.00	0.00	13.04
02/09/16	2016	2	9	467.11	14297.8	28	-3.8	1.84	6.90	2.40	6.69	0.00	0.00	0.00	0.00	13.02
02/10/16	2016	2	10	467.12	14301.5	28	3.8	1.85	6.90	2.42	6.69	0.00	0.00	0.00	0.00	13.11
02/11/16	2016	2	11	467.12	14301.5	28	0.0	1.85	6.90	2.44	6.69	0.00	0.00	0.00	0.00	13.19
02/12/16	2016	2	12	467.12	14301.5	28	0.0	1.85	6.90	2.43	6.69	0.00	0.00	0.00	0.00	13.15
02/13/16	2016	2	13	467.13	14305.3	28	3.8	1.86	6.90	2.44	6.69	0.00	0.00	0.00	0.00	13.20
02/14/16	2016	2	14	467.13	14305.3	28	0.0	1.86	6.90	2.45	6.69	0.00	0.00	0.00	0.00	13.21
02/15/16	2016	2	15	467.11	14297.8	28	-7.5	1.86	6.90	2.65	6.69	0.00	0.00	0.00	0.00	13.81
02/16/16	2016	2	16	467.11	14297.8	28	0.0	1.85	6.90	2.75	6.69	0.00	0.00	0.00	0.00	14.13
02/17/16	2016	2	17	467.10	14294.0	28	-3.8	1.85	6.90	2.74	6.69	0.00	0.00	0.00	0.00	14.09
02/18/16	2016	2	18	467.17	14320.3	28	26.3	1.85	6.90	2.80	6.69	0.00	0.00	0.00	0.00	14.27
02/19/16	2016	2	19	467.17	14320.3	28	0.0	1.85	6.90	3.26	6.69	0.00	0.00	0.00	0.00	15.69



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
02/20/16	2016	2	20	467.16	14316.5	28	-3.8	1.86	6.90	2.94	6.69	0.00	0.00	0.00	0.00	14.73
02/21/16	2016	2	21	467.14	14309.0	28	-7.5	1.86	6.90	3.04	6.69	0.00	0.00	0.00	0.00	15.03
02/22/16	2016	2	22	467.13	14305.3	28	-3.8	1.86	6.90	3.04	6.69	0.00	0.00	0.00	0.00	15.03
02/23/16	2016	2	23	467.09	14290.3	28	-15.0	1.86	6.90	3.04	6.69	0.00	0.00	0.00	0.00	15.03
02/24/16	2016	2	24	467.08	14286.5	28	-3.8	1.85	6.90	4.16	6.69	0.00	0.00	0.00	0.00	18.44
02/25/16	2016	2	25	467.06	14279.0	28	-7.5	1.84	6.90	4.99	6.69	0.00	0.00	0.00	0.00	20.96
02/26/16	2016	2	26	467.00	14256.5	28	-22.5	1.84	6.90	4.99	6.69	0.00	0.00	0.00	0.00	20.97
02/27/16	2016	2	27	466.97	14245.3	28	-11.2	1.84	6.90	5.00	6.69	0.00	0.00	0.00	0.00	21.00
02/28/16	2016	2	28	466.93	14230.3	28	-15.0	1.84	6.90	5.01	6.69	0.00	0.00	0.00	0.00	21.01
02/29/16	2016	2	29	466.89	14215.3	28	-15.0	1.84	6.90	4.73	6.69	0.00	0.00	0.00	0.00	20.17
03/01/16	2016	3	1	466.86	14204.1	28	-11.2	1.84	6.90	4.51	6.69	0.00	0.00	0.00	0.00	19.49
03/02/16	2016	3	2	466.83	14192.9	28	-11.2	1.84	6.90	4.51	6.69	0.00	0.00	0.00	0.00	19.48
03/03/16	2016	3	3	466.80	14181.7	28	-11.2	1.84	6.90	4.00	6.69	0.00	0.00	0.00	0.00	17.92
03/04/16	2016	3	4	466.78	14174.2	28	-7.5	1.86	6.90	2.98	6.69	0.00	0.00	0.00	0.00	14.82
03/05/16	2016	3	5	466.77	14170.5	28	-3.7	1.86	6.90	2.34	6.69	0.00	0.00	0.00	0.00	12.89
03/06/16	2016	3	6	466.89	14215.3	28	44.9	1.86	6.90	2.28	6.69	0.00	0.00	0.00	0.00	12.70
03/07/16	2016	3	7	467.00	14256.5	28	41.2	1.86	6.90	2.52	6.69	0.00	0.00	0.00	0.00	13.44
03/08/16	2016	3	8	467.21	14335.3	28	78.8	1.87	6.90	1.40	6.69	0.00	0.00	0.00	0.00	10.04
03/09/16	2016	3	9	467.30	14369.2	28	33.8	1.87	6.90	2.01	6.69	0.00	0.00	0.00	0.00	11.90
03/10/16	2016	3	10	467.35	14388.0	28	18.8	1.87	6.90	2.01	6.69	0.00	0.00	0.00	0.00	11.91
03/11/16	2016	3	11	467.38	14399.3	28	11.3	1.87	6.90	2.01	6.69	0.00	0.00	0.00	0.00	11.91
03/12/16	2016	3	12	467.57	14470.9	28	71.6	1.88	6.90	2.01	6.69	0.00	0.00	0.00	0.00	11.93
03/13/16	2016	3	13	467.64	14497.3	28	26.4	1.88	6.90	2.01	6.69	0.00	0.00	0.00	0.00	11.94
03/14/16	2016	3	14	467.78	14550.3	28	52.9	1.88	6.90	2.02	6.69	0.00	0.00	0.00	0.00	11.94
03/15/16	2016	3	15	467.85	14576.8	28	26.5	1.87	6.90	2.01	6.69	0.00	0.00	0.00	0.00	11.92
03/16/16	2016	3	16	467.90	14595.8	28	19.0	1.85	6.90	2.01	6.69	0.00	0.00	0.00	0.00	11.86



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
03/17/16	2016	3	17	467.94	14610.9	28	15.2	1.84	6.90	2.02	6.69	0.00	0.00	0.00	0.00	11.84
03/18/16	2016	3	18	467.97	14622.3	28	11.4	1.84	6.90	2.02	6.69	0.00	0.00	0.00	0.00	11.84
03/19/16	2016	3	19	468.00	14633.7	28	11.4	1.85	6.90	2.01	6.69	0.00	0.00	0.00	0.00	11.85
03/20/16	2016	3	20	468.02	14641.3	28	7.6	1.85	6.90	2.01	6.69	0.00	0.00	0.00	0.00	11.85
03/21/16	2016	3	21	468.03	14645.1	28	3.8	1.85	6.90	2.14	6.69	0.00	0.00	0.00	0.00	12.24
03/22/16	2016	3	22	468.04	14648.9	28	3.8	1.86	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.79
03/23/16	2016	3	23	468.04	14648.9	28	0.0	1.86	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.77
03/24/16	2016	3	24	468.03	14645.1	28	-3.8	1.86	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.78
03/25/16	2016	3	25	468.03	14645.1	28	0.0	1.86	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.79
03/26/16	2016	3	26	468.03	14645.1	28	0.0	1.86	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.79
03/27/16	2016	3	27	468.03	14645.1	28	0.0	1.87	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.80
03/28/16	2016	3	28	468.02	14641.3	28	-3.8	1.86	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.79
03/29/16	2016	3	29	468.01	14637.5	28	-3.8	1.85	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.76
03/30/16	2016	3	30	468.02	14641.3	28	3.8	1.85	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.76
03/31/16	2016	3	31	467.99	14629.9	28	-11.4	1.86	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.75
04/01/16	2016	4	1	467.98	14626.1	28	-3.8	1.85	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.76
04/02/16	2016	4	2	467.97	14622.3	28	-3.8	1.85	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.76
04/03/16	2016	4	3	467.96	14618.5	28	-3.8	1.85	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.77
04/04/16	2016	4	4	467.95	14614.7	28	-3.8	1.86	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.76
04/05/16	2016	4	5	467.94	14610.9	28	-3.8	1.86	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.79
04/06/16	2016	4	6	467.92	14603.3	28	-7.6	1.86	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.80
04/07/16	2016	4	7	467.91	14599.5	28	-3.8	1.87	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.82
04/08/16	2016	4	8	467.91	14599.5	28	0.0	1.87	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.82
04/09/16	2016	4	9	467.93	14607.1	28	7.6	1.87	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.82
04/10/16	2016	4	10	467.95	14614.7	28	7.6	1.87	6.90	1.98	6.69	0.00	0.00	0.00	0.00	11.83
04/11/16	2016	4	11	467.98	14626.1	28	11.4	1.86	6.90	1.99	6.69	0.00	0.00	0.00	0.00	11.81



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
04/12/16	2016	4	12	467.93	14607.1	28	-19.0	1.86	6.90	1.99	6.69	0.00	0.00	0.00	0.00	11.81
04/13/16	2016	4	13	467.91	14599.5	28	-7.6	1.66	6.90	2.01	6.69	0.00	0.00	0.00	0.00	11.28
04/14/16	2016	4	14	467.89	14592.0	28	-7.6	1.87	6.90	2.62	6.69	0.00	0.00	0.00	0.00	13.78
04/15/16	2016	4	15	467.86	14580.6	28	-11.4	1.87	6.90	2.62	6.69	0.00	0.00	0.00	0.00	13.78
04/16/16	2016	4	16	467.84	14573.0	28	-7.6	1.88	6.90	2.62	6.69	0.00	0.00	0.00	0.00	13.80
04/17/16	2016	4	17	467.81	14561.7	28	-11.4	1.88	6.90	2.62	6.69	0.00	0.00	0.00	0.00	13.80
04/18/16	2016	4	18	467.79	14554.1	28	-7.6	1.88	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.78
04/19/16	2016	4	19	467.77	14546.5	28	-7.6	1.88	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.78
04/20/16	2016	4	20	467.76	14542.7	28	-3.8	1.88	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.79
04/21/16	2016	4	21	467.72	14527.6	28	-15.1	1.87	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.76
04/22/16	2016	4	22	467.69	14516.2	28	-11.3	1.88	6.90	2.62	6.69	0.00	0.00	0.00	0.00	13.81
04/23/16	2016	4	23	467.67	14508.7	28	-7.6	1.88	6.90	2.62	6.69	0.00	0.00	0.00	0.00	13.81
04/24/16	2016	4	24	467.63	14493.6	28	-15.1	1.88	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.80
04/25/16	2016	4	25	467.61	14486.0	28	-7.6	1.88	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.80
04/26/16	2016	4	26	467.59	14478.5	28	-7.6	1.88	6.90	2.62	6.69	0.00	0.00	0.00	0.00	13.81
04/27/16	2016	4	27	467.55	14463.4	28	-15.1	1.88	6.90	2.58	6.69	0.00	0.00	0.00	0.00	13.68
04/28/16	2016	4	28	467.52	14452.0	28	-11.3	1.88	6.90	2.58	6.69	0.00	0.00	0.00	0.00	13.69
04/29/16	2016	4	29	467.50	14444.5	28	-7.5	1.88	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.79
04/30/16	2016	4	30	467.48	14437.0	28	-7.5	1.88	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.78
05/01/16	2016	5	1	467.44	14421.9	28	-15.1	1.89	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.80
05/02/16	2016	5	2	467.42	14414.3	28	-7.5	1.89	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.80
05/03/16	2016	5	3	467.40	14406.8	28	-7.5	1.89	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.79
05/04/16	2016	5	4	467.37	14395.5	28	-11.3	1.88	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.79
05/05/16	2016	5	5	467.37	14395.5	28	0.0	1.89	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.80
05/06/16	2016	5	6	467.35	14388.0	28	-7.5	1.89	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.80
05/07/16	2016	5	7	467.32	14376.7	28	-11.3	1.89	6.90	2.61	6.69	0.00	0.00	0.00	0.00	13.80



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
05/08/16	2016	5	8	467.28	14361.6	28	-15.0	1.89	6.90	2.25	6.69	0.00	0.00	0.00	0.00	12.70
05/09/16	2016	5	9	467.26	14354.1	28	-7.5	1.89	6.90	2.02	6.69	0.00	0.00	0.00	0.00	12.00
05/10/16	2016	5	10	467.24	14346.6	28	-7.5	1.90	6.90	1.85	6.69	0.00	0.00	0.00	0.00	11.50
05/11/16	2016	5	11	467.22	14339.1	28	-7.5	1.91	6.90	1.52	6.69	0.00	0.00	0.00	0.00	10.51
05/12/16	2016	5	12	467.20	14331.6	28	-7.5	1.91	6.90	1.52	6.69	0.00	0.00	0.00	0.00	10.51
05/13/16	2016	5	13	467.18	14324.1	28	-7.5	1.91	6.90	1.52	6.69	0.00	0.00	0.00	0.00	10.51
05/14/16	2016	5	14	467.16	14316.5	28	-7.5	1.91	6.90	1.52	6.69	0.00	0.00	0.00	0.00	10.52
05/15/16	2016	5	15	467.14	14309.0	28	-7.5	1.91	6.90	1.52	6.69	0.00	0.00	0.00	0.00	10.52
05/16/16	2016	5	16	467.11	14297.8	28	-11.3	1.92	6.90	1.51	6.69	0.00	0.00	0.00	0.00	10.52
05/17/16	2016	5	17	467.09	14290.3	28	-7.5	1.92	6.90	1.52	6.69	0.00	0.00	0.00	0.00	10.53
05/18/16	2016	5	18	467.07	14282.8	28	-7.5	1.92	6.90	1.51	6.69	0.00	0.00	0.00	0.00	10.51
05/19/16	2016	5	19	467.05	14275.3	28	-7.5	1.92	6.90	1.51	6.69	0.00	0.00	0.00	0.00	10.51
05/20/16	2016	5	20	467.03	14267.8	28	-7.5	1.92	6.90	1.51	6.69	0.00	0.00	0.00	0.00	10.51
05/21/16	2016	5	21	467.01	14260.3	28	-7.5	1.92	6.90	1.51	6.69	0.00	0.00	0.00	0.00	10.52
05/22/16	2016	5	22	466.98	14249.0	28	-11.2	1.92	6.90	1.50	6.69	0.00	0.00	0.00	0.00	10.51
05/23/16	2016	5	23	466.95	14237.8	28	-11.2	1.92	6.90	1.50	6.69	0.00	0.00	0.00	0.00	10.51
05/24/16	2016	5	24	466.92	14226.6	28	-11.2	1.92	6.90	1.50	6.69	0.00	0.00	0.00	0.00	10.50
05/25/16	2016	5	25	466.91	14222.8	28	-3.7	1.92	6.90	1.50	6.69	0.00	0.00	0.00	0.00	10.50
05/26/16	2016	5	26	466.89	14215.3	28	-7.5	1.93	6.90	1.50	6.69	0.00	0.00	0.00	0.00	10.51
05/27/16	2016	5	27	466.86	14204.1	28	-11.2	1.93	6.90	1.50	6.69	0.00	0.00	0.00	0.00	10.51
05/28/16	2016	5	28	466.84	14196.6	28	-7.5	1.93	6.90	1.57	6.69	0.00	0.00	0.00	0.00	10.73
05/29/16	2016	5	29	466.81	14185.4	28	-11.2	1.93	6.90	1.71	6.69	0.00	0.00	0.00	0.00	11.17
05/30/16	2016	5	30	466.78	14174.2	28	-11.2	1.93	6.90	1.81	6.69	0.00	0.00	0.00	0.00	11.49
05/31/16	2016	5	31	466.77	14170.5	28	-3.7	1.93	6.90	2.07	6.69	0.00	0.00	0.00	0.00	12.29
06/01/16	2016	6	1	466.75	14163.0	28	-7.5	1.93	6.90	2.13	6.69	0.00	0.00	0.00	0.00	12.46
06/02/16	2016	6	2	466.72	14151.8	28	-11.2	2.03	6.90	2.15	6.69	0.00	0.00	0.00	0.00	12.80



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
06/03/16	2016	6	3	466.67	14133.2	28	-18.7	2.44	6.90	2.21	6.69	0.00	0.00	0.00	0.00	14.27
06/04/16	2016	6	4	466.64	14122.0	28	-11.2	2.78	6.90	2.25	6.69	0.00	0.00	0.00	0.00	15.43
06/05/16	2016	6	5	466.60	14107.0	28	-14.9	2.78	6.90	2.23	6.69	0.00	0.00	0.00	0.00	15.38
06/06/16	2016	6	6	466.57	14095.9	28	-11.2	3.12	6.90	2.19	6.69	0.00	0.00	0.00	0.00	16.29
06/07/16	2016	6	7	466.52	14077.2	28	-18.6	3.32	6.90	1.98	6.69	0.00	0.00	0.00	0.00	16.24
06/08/16	2016	6	8	466.48	14062.4	28	-14.9	3.31	6.90	2.18	6.69	0.00	0.00	0.00	0.00	16.85
06/09/16	2016	6	9	466.45	14051.2	28	-11.2	3.30	6.90	2.18	6.69	0.00	0.00	0.00	0.00	16.83
06/10/16	2016	6	10	466.40	14032.6	28	-18.6	3.30	6.90	2.17	6.69	0.00	0.00	0.00	0.00	16.80
06/11/16	2016	6	11	466.35	14014.0	28	-18.6	3.30	6.90	2.18	6.69	0.00	0.00	0.00	0.00	16.81
06/12/16	2016	6	12	466.31	13999.2	28	-14.9	3.30	6.90	2.18	6.69	0.00	0.00	0.00	0.00	16.83
06/13/16	2016	6	13	466.27	13984.3	28	-14.8	3.30	6.90	2.19	6.69	0.00	0.00	0.00	0.00	16.85
06/14/16	2016	6	14	466.24	13973.2	28	-11.1	3.30	6.90	2.17	6.69	0.00	0.00	0.00	0.00	16.79
06/15/16	2016	6	15	466.18	13950.9	28	-22.2	3.30	6.90	2.17	6.69	0.00	0.00	0.00	0.00	16.78
06/16/16	2016	6	16	466.15	13939.8	28	-11.1	3.30	6.90	2.17	6.69	0.00	0.00	0.00	0.00	16.79
06/17/16	2016	6	17	466.10	13921.3	28	-18.5	3.30	6.90	2.18	6.69	0.00	0.00	0.00	0.00	16.82
06/18/16	2016	6	18	466.04	13899.1	28	-22.2	3.31	6.90	2.24	6.69	0.00	0.00	0.00	0.00	17.02
06/19/16	2016	6	19	466.01	13888.0	28	-11.1	3.32	6.90	2.23	6.69	0.00	0.00	0.00	0.00	17.02
06/20/16	2016	6	20	465.97	13873.2	28	-14.8	3.32	6.90	2.20	6.69	0.00	0.00	0.00	0.00	16.95
06/21/16	2016	6	21	465.94	13862.1	28	-11.1	3.33	6.90	2.19	6.69	0.00	0.00	0.00	0.00	16.93
06/22/16	2016	6	22	465.86	13832.6	28	-29.5	3.27	6.90	2.18	6.69	0.00	0.00	0.00	0.00	16.73
06/23/16	2016	6	23	465.79	13806.8	28	-25.8	3.24	6.90	2.17	6.69	0.00	0.00	0.00	0.00	16.61
06/24/16	2016	6	24	465.73	13784.6	28	-22.1	3.33	6.90	2.19	6.69	0.00	0.00	0.00	0.00	16.93
06/25/16	2016	6	25	465.68	13766.2	28	-18.4	3.32	6.90	2.20	6.69	0.00	0.00	0.00	0.00	16.94
06/26/16	2016	6	26	465.61	13740.5	28	-25.8	3.33	6.90	2.20	6.69	0.00	0.00	0.00	0.00	16.97
06/27/16	2016	6	27	465.56	13722.1	28	-18.4	3.32	6.90	2.20	6.69	0.00	0.00	0.00	0.00	16.94
06/28/16	2016	6	28	465.52	13707.4	28	-14.7	3.33	6.90	2.22	6.69	0.00	0.00	0.00	0.00	17.03



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
06/29/16	2016	6	29	465.49	13696.3	28	-11.0	3.33	6.90	1.69	6.69	0.00	0.00	0.00	0.00	15.41
06/30/16	2016	6	30	465.44	13678.0	28	-18.4	3.33	6.90	1.92	6.69	0.00	0.00	0.00	0.00	16.10
07/01/16	2016	7	1	465.39	13659.6	28	-18.3	3.72	11.40	1.92	5.88	0.00	0.00	0.00	0.00	17.29
07/02/16	2016	7	2	465.34	13641.3	28	-18.3	3.94	12.09	1.92	5.90	0.00	0.00	0.00	0.00	17.99
07/03/16	2016	7	3	465.29	13623.0	28	-18.3	3.94	12.09	1.92	5.90	0.00	0.00	0.00	0.00	17.99
07/04/16	2016	7	4	465.23	13601.0	28	-22.0	3.94	12.08	1.92	5.90	0.00	0.00	0.00	0.00	17.98
07/05/16	2016	7	5	465.19	13586.4	28	-14.6	3.94	12.09	1.93	5.92	0.00	0.00	0.00	0.00	18.01
07/06/16	2016	7	6	465.14	13568.1	27	-18.3	4.06	12.47	1.95	5.98	0.00	0.00	0.00	0.00	18.46
07/07/16	2016	7	7	465.10	13553.5	27	-14.6	4.24	13.02	1.88	5.78	0.00	0.00	0.00	0.00	18.80
07/08/16	2016	7	8	465.06	13538.9	27	-14.6	4.25	13.03	1.88	5.78	0.00	0.00	0.00	0.00	18.81
07/09/16	2016	7	9	464.98	13509.7	27	-29.2	4.24	13.03	1.87	5.73	0.00	0.00	0.00	0.00	18.75
07/10/16	2016	7	10	464.91	13484.2	27	-25.5	4.24	13.01	1.85	5.68	0.00	0.00	0.00	0.00	18.69
07/11/16	2016	7	11	464.84	13458.7	27	-25.5	4.23	12.98	2.38	7.30	0.00	0.00	0.00	0.00	20.28
07/12/16	2016	7	12	464.78	13436.8	27	-21.8	4.24	13.00	2.29	7.02	0.00	0.00	0.00	0.00	20.02
07/13/16	2016	7	13	464.73	13418.6	27	-18.2	4.23	12.99	1.95	5.98	0.00	0.00	0.00	0.00	18.96
07/14/16	2016	7	14	464.68	13400.5	27	-18.2	4.23	12.97	1.94	5.95	0.00	0.00	0.00	0.00	18.92
07/15/16	2016	7	15	464.65	13389.6	27	-10.9	3.60	11.06	1.71	5.24	0.00	0.00	0.00	0.00	16.30
07/16/16	2016	7	16	464.58	13364.2	27	-25.4	4.22	12.94	1.87	5.75	0.00	0.00	0.00	0.00	18.68
07/17/16	2016	7	17	464.53	13346.0	27	-18.1	4.21	12.93	1.95	5.98	0.00	0.00	0.00	0.00	18.91
07/18/16	2016	7	18	464.47	13324.3	27	-21.7	4.21	12.92	2.26	6.95	0.00	0.00	0.00	0.00	19.86
07/19/16	2016	7	19	464.40	13299.0	27	-25.3	4.21	12.91	2.11	6.46	0.00	0.00	0.00	0.00	19.37
07/20/16	2016	7	20	464.35	13280.9	27	-18.1	4.20	12.90	2.14	6.57	0.00	0.00	0.00	0.00	19.47
07/21/16	2016	7	21	464.28	13255.6	27	-25.3	4.20	12.89	2.15	6.60	0.00	0.00	0.00	0.00	19.49
07/22/16	2016	7	22	464.21	13230.3	27	-25.3	4.21	12.92	2.15	6.59	0.00	0.00	0.00	0.00	19.51
07/23/16	2016	7	23	464.16	13212.2	27	-18.0	4.20	12.89	2.15	6.61	0.00	0.00	0.00	0.00	19.50
07/24/16	2016	7	24	464.09	13187.0	27	-25.2	4.20	12.88	2.15	6.59	0.00	0.00	0.00	0.00	19.47



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
07/25/16	2016	7	25	464.01	13158.2	27	-28.8	4.20	12.87	2.13	6.53	0.00	0.00	0.00	0.00	19.41
07/26/16	2016	7	26	463.98	13147.4	27	-10.8	4.19	12.85	2.12	6.52	0.00	0.00	0.00	0.00	19.37
07/27/16	2016	7	27	463.94	13133.0	27	-14.4	4.19	12.85	2.13	6.52	0.00	0.00	0.00	0.00	19.38
07/28/16	2016	7	28	463.88	13111.4	27	-21.6	4.19	12.85	2.10	6.45	0.00	0.00	0.00	0.00	19.30
07/29/16	2016	7	29	463.83	13093.5	27	-18.0	4.19	12.87	2.09	6.43	0.00	0.00	0.00	0.00	19.30
07/30/16	2016	7	30	463.77	13071.9	26	-21.5	4.19	12.87	2.08	6.37	0.00	0.00	0.00	0.00	19.24
07/31/16	2016	7	31	463.72	13054.0	26	-17.9	4.19	12.86	2.07	6.35	0.00	0.00	0.00	0.00	19.21
08/01/16	2016	8	1	463.66	13,032.5	26	-21.5	4.19	12.85	2.11	6.47	0.00	0.00	0.00	0.00	19.32
08/02/16	2016	8	2	463.62	13,018.2	26	-14.3	4.19	12.85	2.07	6.35	0.00	0.00	0.00	0.00	19.20
08/03/16	2016	8	3	463.55	12,993.1	26	-25.1	4.19	12.85	2.07	6.36	0.00	0.00	0.00	0.00	19.21
08/04/16	2016	8	4	463.51	12,978.8	26	-14.3	4.16	12.76	2.07	6.37	0.00	0.00	0.00	0.00	19.13
08/05/16	2016	8	5	463.44	12,953.8	26	-25.0	4.17	12.78	2.06	6.33	0.00	0.00	0.00	0.00	19.12
08/06/16	2016	8	6	463.39	12,935.9	26	-17.9	4.17	12.81	2.04	6.27	0.00	0.00	0.00	0.00	19.08
08/07/16	2016	8	7	463.33	12,914.5	26	-21.4	4.17	12.79	2.04	6.26	0.00	0.00	0.00	0.00	19.05
08/08/16	2016	8	8	463.29	12,900.3	26	-14.3	4.17	12.78	2.04	6.26	0.00	0.00	0.00	0.00	19.04
08/09/16	2016	8	9	463.22	12,875.3	26	-24.9	4.15	12.72	2.07	6.35	0.00	0.00	0.00	0.00	19.07
08/10/16	2016	8	10	463.16	12,854.0	26	-21.4	4.14	12.71	2.06	6.32	0.00	0.00	0.00	0.00	19.03
08/11/16	2016	8	11	463.10	12,832.6	26	-21.3	4.14	12.71	2.07	6.34	0.00	0.00	0.00	0.00	19.04
08/12/16	2016	8	12	463.04	12,811.3	26	-21.3	4.14	12.70	2.09	6.41	0.00	0.00	0.00	0.00	19.11
08/13/16	2016	8	13	462.98	12,790.0	26	-21.3	4.14	12.69	2.07	6.36	0.00	0.00	0.00	0.00	19.05
08/14/16	2016	8	14	462.93	12,772.3	26	-17.7	4.14	12.69	2.06	6.31	0.00	0.00	0.00	0.00	19.00
08/15/16	2016	8	15	462.88	12,754.5	26	-17.7	4.13	12.68	2.39	7.35	0.00	0.00	0.00	0.00	20.03
08/16/16	2016	8	16	462.81	12,729.7	26	-24.8	4.14	12.69	1.80	5.51	0.00	0.00	0.00	0.00	18.20
08/17/16	2016	8	17	462.75	12,708.5	26	-21.2	4.11	12.60	1.72	5.28	0.00	0.00	0.00	0.00	17.88
08/18/16	2016	8	18	462.70	12,690.8	26	-17.7	4.10	12.57	1.72	5.28	0.00	0.00	0.00	0.00	17.85
08/19/16	2016	8	19	462.65	12,673.2	26	-17.7	4.10	12.57	1.72	5.27	0.00	0.00	0.00	0.00	17.83



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
08/20/16	2016	8	20	462.59	12,652.0	26	-21.2	4.09	12.55	1.79	5.48	0.00	0.00	0.00	0.00	18.03
08/21/16	2016	8	21	462.53	12,630.8	26	-21.2	4.09	12.55	1.88	5.76	0.00	0.00	0.00	0.00	18.31
08/22/16	2016	8	22	462.48	12,613.2	26	-17.6	4.08	12.51	3.03	9.28	0.00	0.00	0.00	0.00	21.79
08/23/16	2016	8	23	462.40	12,585.0	25	-28.2	4.07	12.48	3.96	12.14	0.00	0.00	0.00	0.00	24.62
08/24/16	2016	8	24	462.33	12,560.4	25	-24.6	4.08	12.51	2.82	8.66	0.00	0.00	0.00	0.00	21.17
08/25/16	2016	8	25	462.27	12,539.3	25	-21.1	4.08	12.51	1.91	5.87	0.00	0.00	0.00	0.00	18.37
08/26/16	2016	8	26	462.22	12,521.7	25	-17.6	4.07	12.49	1.90	5.84	0.00	0.00	0.00	0.00	18.33
08/27/16	2016	8	27	462.18	12,507.7	25	-14.0	4.07	12.50	1.90	5.82	0.00	0.00	0.00	0.00	18.31
08/28/16	2016	8	28	462.13	12,490.1	25	-17.5	4.07	12.49	1.89	5.81	0.00	0.00	0.00	0.00	18.30
08/29/16	2016	8	29	462.06	12,465.6	25	-24.5	4.07	12.49	1.93	5.92	0.00	0.00	0.00	0.00	18.41
08/30/16	2016	8	30	462.00	12,444.6	25	-21.0	4.07	12.48	1.91	5.86	0.00	0.00	0.00	0.00	18.34
08/31/16	2016	8	31	461.93	12,420.1	25	-24.5	4.07	12.49	1.91	5.86	0.00	0.00	0.00	0.00	18.35
09/01/16	2016	9	1	461.87	12,399.1	25	-21.0	3.83	11.74	0.08	0.24	0.00	0.00	0.00	0.00	11.99
09/02/16	2016	9	2	461.83	12,385.1	25	-14.0	4.32	13.25	0.03	0.09	0.00	0.00	0.00	0.00	13.34
09/03/16	2016	9	3	461.78	12,367.7	25	-17.5	4.32	13.25	0.03	0.09	0.00	0.00	0.00	0.00	13.34
09/04/16	2016	9	4	461.74	12,353.7	25	-14.0	4.32	13.25	0.03	0.08	0.00	0.00	0.00	0.00	13.33
09/05/16	2016	9	5	461.71	12,343.2	25	-10.5	4.31	13.23	0.67	2.07	0.00	0.00	0.00	0.00	15.30
09/06/16	2016	9	6	461.68	12,332.8	25	-10.5	4.29	13.17	1.94	5.97	0.00	0.00	0.00	0.00	19.14
09/07/16	2016	9	7	461.59	12,301.4	25	-31.3	4.28	13.15	2.00	6.13	0.00	0.00	0.00	0.00	19.28
09/08/16	2016	9	8	461.54	12,284.0	25	-17.4	4.29	13.16	1.99	6.10	0.00	0.00	0.00	0.00	19.26
09/09/16	2016	9	9	461.48	12,263.2	25	-20.9	4.28	13.14	7.99	24.53	0.00	0.00	0.00	0.00	37.67
09/10/16	2016	9	10	461.42	12,242.3	25	-20.8	4.28	13.14	1.99	6.10	0.00	0.00	0.00	0.00	19.24
09/11/16	2016	9	11	461.36	12,221.5	25	-20.8	4.28	13.12	2.05	6.30	0.00	0.00	0.00	0.00	19.42
09/12/16	2016	9	12	461.30	12,200.7	25	-20.8	4.27	13.10	2.16	6.63	0.00	0.00	0.00	0.00	19.73
09/13/16	2016	9	13	461.25	12,183.4	25	-17.3	4.27	13.11	2.08	6.39	0.00	0.00	0.00	0.00	19.49
09/14/16	2016	9	14	461.19	12,162.6	25	-20.8	4.27	13.11	2.09	6.40	0.00	0.00	0.00	0.00	19.51



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
09/15/16	2016	9	15	461.12	12,138.4	25	-24.2	4.27	13.11	2.08	6.39	0.00	0.00	0.00	0.00	19.50
09/16/16	2016	9	16	461.07	12,121.1	25	-17.3	4.27	13.10	2.10	6.43	0.00	0.00	0.00	0.00	19.53
09/17/16	2016	9	17	460.99	12,093.5	24	-27.6	4.27	13.10	2.22	6.80	0.00	0.00	0.00	0.00	19.90
09/18/16	2016	9	18	460.93	12,072.8	24	-20.7	4.27	13.09	2.29	7.01	0.00	0.00	0.00	0.00	20.11
09/19/16	2016	9	19	460.87	12,052.1	24	-20.7	4.28	13.12	2.24	6.86	0.00	0.00	0.00	0.00	19.99
09/20/16	2016	9	20	460.82	12,034.9	24	-17.2	4.28	13.12	2.09	6.42	0.00	0.00	0.00	0.00	19.54
09/21/16	2016	9	21	460.75	12,010.8	24	-24.1	4.27	13.11	2.09	6.40	0.00	0.00	0.00	0.00	19.51
09/22/16	2016	9	22	460.72	12,000.5	24	-10.3	4.27	13.09	2.08	6.38	0.00	0.00	0.00	0.00	19.47
09/23/16	2016	9	23	460.65	11,976.4	24	-24.1	4.24	13.02	2.06	6.33	0.00	0.00	0.00	0.00	19.34
09/24/16	2016	9	24	460.58	11,952.4	24	-24.0	4.26	13.08	2.04	6.26	0.00	0.00	0.00	0.00	19.34
09/25/16	2016	9	25	460.51	11,928.4	24	-24.0	4.26	13.08	2.06	6.32	0.00	0.00	0.00	0.00	19.40
09/26/16	2016	9	26	460.44	11,904.4	24	-24.0	4.26	13.08	2.26	6.94	0.00	0.00	0.00	0.00	20.03
09/27/16	2016	9	27	460.39	11,887.3	24	-17.1	4.27	13.09	2.15	6.60	0.00	0.00	0.00	0.00	19.69
09/28/16	2016	9	28	460.33	11,866.8	24	-20.5	4.26	13.09	2.14	6.58	0.00	0.00	0.00	0.00	19.66
09/29/16	2016	9	29	460.29	11,853.1	24	-13.7	4.25	13.06	2.15	6.59	0.00	0.00	0.00	0.00	19.65
09/30/16	2016	9	30	460.22	11,829.2	24	-23.9	4.25	13.05	2.15	6.59	0.00	0.00	0.00	0.00	19.64
10/01/16	2016	10	1	460.16	11,808.7	24	-20.5	4.25	13.05	2.13	6.54	0.00	0.00	0.00	0.00	19.59
10/02/16	2016	10	2	460.10	11,788.3	24	-20.5	4.25	13.04	2.13	6.54	0.00	0.00	0.00	0.00	19.58
10/03/16	2016	10	3	460.02	11,761.0	24	-27.2	3.76	11.55	2.10	6.44	0.00	0.00	0.00	0.00	17.99
10/04/16	2016	10	4	459.98	11,747.4	24	-13.6	3.18	9.76	2.04	6.26	0.00	0.00	0.00	0.00	16.02
10/05/16	2016	10	5	459.90	11,720.2	24	-27.2	3.18	9.76	2.05	6.28	0.00	0.00	0.00	0.00	16.04
10/06/16	2016	10	6	459.83	11,696.4	24	-23.8	3.18	9.76	2.04	6.27	0.00	0.00	0.00	0.00	16.03
10/07/16	2016	10	7	459.80	11,686.3	24	-10.2	3.18	9.76	2.04	6.26	0.00	0.00	0.00	0.00	16.02
10/08/16	2016	10	8	459.74	11,665.9	24	-20.3	3.18	9.75	2.04	6.27	0.00	0.00	0.00	0.00	16.03
10/09/16	2016	10	9	459.68	11,645.6	24	-20.3	3.17	9.74	2.04	6.26	0.00	0.00	0.00	0.00	16.01
10/10/16	2016	10	10	459.63	11,628.7	24	-16.9	3.18	9.74	2.13	6.53	0.00	0.00	0.00	0.00	16.28



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
10/11/16	2016	10	11	459.61	11,621.9	24	-6.8	3.17	9.74	2.19	6.73	0.00	0.00	0.00	0.00	16.47
10/12/16	2016	10	12	459.56	11,605.0	23	-16.9	3.17	9.73	3.17	9.73	0.00	0.00	0.00	0.00	19.46
10/13/16	2016	10	13	459.51	11,588.1	23	-16.9	3.17	9.73	2.31	7.09	0.00	0.00	0.00	0.00	16.82
10/14/16	2016	10	14	459.46	11,571.2	23	-16.9	3.17	9.72	2.48	7.61	0.00	0.00	0.00	0.00	17.33
10/15/16	2016	10	15	459.41	11,554.3	23	-16.9	3.17	9.73	2.47	7.58	0.00	0.00	0.00	0.00	17.31
10/16/16	2016	10	16	459.45	11,567.8	23	13.5	3.17	9.73	2.46	7.56	0.00	0.00	0.00	0.00	17.29
10/17/16	2016	10	17	459.45	11,567.8	23	0.0	3.17	9.72	2.34	7.17	0.00	0.00	0.00	0.00	16.90
10/18/16	2016	10	18	459.39	11,547.6	23	-20.2	3.17	9.72	2.23	6.85	0.00	0.00	0.00	0.00	16.57
10/19/16	2016	10	19	459.32	11,524.0	23	-23.6	3.17	9.73	2.16	6.62	0.00	0.00	0.00	0.00	16.34
10/20/16	2016	10	20	459.26	11,503.8	23	-20.2	3.17	9.73	2.14	6.57	0.00	0.00	0.00	0.00	16.30
10/21/16	2016	10	21	459.21	11,487.0	23	-16.8	3.17	9.72	2.20	6.75	0.00	0.00	0.00	0.00	16.47
10/22/16	2016	10	22	459.17	11,473.5	23	-13.5	3.17	9.72	2.21	6.79	0.00	0.00	0.00	0.00	16.51
10/23/16	2016	10	23	459.13	11,460.1	23	-13.4	3.16	9.71	2.23	6.86	0.00	0.00	0.00	0.00	16.56
10/24/16	2016	10	24	459.08	11,443.3	23	-16.8	3.16	9.71	2.20	6.76	0.00	0.00	0.00	0.00	16.47
10/25/16	2016	10	25	459.04	11,429.8	23	-13.4	3.16	9.69	2.24	6.87	0.00	0.00	0.00	0.00	16.56
10/26/16	2016	10	26	458.99	11,413.1	23	-16.8	3.16	9.69	2.22	6.83	0.00	0.00	0.00	0.00	16.52
10/27/16	2016	10	27	458.96	11,403.0	23	-10.1	3.16	9.71	2.21	6.78	0.00	0.00	0.00	0.00	16.48
10/28/16	2016	10	28	458.98	11,409.7	23	6.7	3.16	9.71	2.24	6.87	0.00	0.00	0.00	0.00	16.58
10/29/16	2016	10	29	459.03	11,426.5	23	16.8	3.16	9.71	2.25	6.90	0.00	0.00	0.00	0.00	16.61
10/30/16	2016	10	30	459.08	11,443.3	23	16.8	3.16	9.70	2.15	6.60	0.00	0.00	0.00	0.00	16.30
10/31/16	2016	10	31	458.98	11,409.7	23	-33.5	3.03	9.29	2.15	6.60	0.00	0.00	0.00	0.00	15.88
11/01/16	2016	11	1	458.91	11386.3	23	-23.5	2.86	8.77	2.05	6.30	0.00	0.00	0.00	0.00	15.08
11/02/16	2016	11	2	458.86	11369.5	23	-16.7	2.86	8.79	1.85	5.66	0.00	0.00	0.00	0.00	14.45
11/03/16	2016	11	3	458.81	11352.8	23	-16.7	2.76	8.48	1.86	5.71	0.00	0.00	0.00	0.00	14.19
11/04/16	2016	11	4	458.78	11342.8	23	-10.0	2.86	8.79	1.70	5.21	0.00	0.00	0.00	0.00	14.00
11/05/16	2016	11	5	458.74	11329.4	23	-13.4	2.86	8.79	1.72	5.29	0.00	0.00	0.00	0.00	14.08



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
11/06/16	2016	11	6	458.71	11319.4	23	-10.0	2.86	8.79	1.73	5.29	0.00	0.00	0.00	0.00	14.08
11/07/16	2016	11	7	458.68	11309.4	23	-10.0	2.86	8.77	2.78	8.52	0.00	0.00	0.00	0.00	17.29
11/08/16	2016	11	8	458.62	11289.4	23	-20.0	2.85	8.74	3.98	12.23	0.00	0.00	0.00	0.00	20.97
11/09/16	2016	11	9	458.58	11276.0	23	-13.3	2.86	8.77	2.73	8.38	0.00	0.00	0.00	0.00	17.15
11/10/16	2016	11	10	458.53	11259.4	23	-16.7	2.86	8.78	1.94	5.95	0.00	0.00	0.00	0.00	14.73
11/11/16	2016	11	11	458.49	11246.1	23	-13.3	2.86	8.76	1.94	5.95	0.00	0.00	0.00	0.00	14.72
11/12/16	2016	11	12	458.46	11236.1	23	-10.0	2.85	8.76	1.96	6.01	0.00	0.00	0.00	0.00	14.77
11/13/16	2016	11	13	458.42	11222.8	23	-13.3	2.85	8.74	1.96	6.01	0.00	0.00	0.00	0.00	14.75
11/14/16	2016	11	14	458.39	11212.8	23	-10.0	2.53	7.77	2.07	6.34	0.00	0.00	0.00	0.00	14.11
11/15/16	2016	11	15	458.37	11206.2	23	-6.6	2.16	6.63	1.96	6.01	0.00	0.00	0.00	0.00	12.64
11/16/16	2016	11	16	458.34	11196.2	23	-10.0	2.16	6.63	1.96	6.01	0.00	0.00	0.00	0.00	12.64
11/17/16	2016	11	17	458.30	11182.9	23	-13.3	2.16	6.63	1.95	5.98	0.00	0.00	0.00	0.00	12.61
11/18/16	2016	11	18	458.25	11166.3	23	-16.6	2.16	6.62	1.95	5.98	0.00	0.00	0.00	0.00	12.60
11/19/16	2016	11	19	458.23	11159.7	23	-6.6	2.16	6.63	1.95	5.97	0.00	0.00	0.00	0.00	12.60
11/20/16	2016	11	20	458.18	11143.1	23	-16.6	2.16	6.64	1.95	5.97	0.00	0.00	0.00	0.00	12.61
11/21/16	2016	11	21	458.23	11159.7	23	16.6	2.16	6.64	2.00	6.13	0.00	0.00	0.00	0.00	12.77
11/22/16	2016	11	22	458.19	11146.4	23	-13.3	2.18	6.68	2.01	6.17	0.00	0.00	0.00	0.00	12.86
11/23/16	2016	11	23	458.17	11139.8	23	-6.6	2.20	6.75	2.01	6.16	0.00	0.00	0.00	0.00	12.91
11/24/16	2016	11	24	458.12	11123.2	23	-16.6	2.26	6.93	2.01	6.16	0.00	0.00	0.00	0.00	13.09
11/25/16	2016	11	25	458.09	11113.3	23	-9.9	2.48	7.62	2.01	6.16	0.00	0.00	0.00	0.00	13.78
11/26/16	2016	11	26	458.06	11103.4	22	-9.9	2.44	7.48	2.01	6.15	0.00	0.00	0.00	0.00	13.63
11/27/16	2016	11	27	458.13	11126.6	23	23.2	2.23	6.84	1.99	6.12	0.00	0.00	0.00	0.00	12.96
11/28/16	2016	11	28	458.10	11116.6	23	-9.9	2.27	6.98	2.59	7.94	0.00	0.00	0.00	0.00	14.92
11/29/16	2016	11	29	458.07	11106.7	22	-9.9	2.45	7.51	2.89	8.88	0.00	0.00	0.00	0.00	16.38
11/30/16	2016	11	30	458.03	11093.5	22	-13.2	2.40	7.36	2.21	6.79	0.00	0.00	0.00	0.00	14.15
12/01/16	2016	12	1	458.01	11086.9	22	-6.6	2.19	6.72	2.07	6.34	0.00	0.00	0.00	0.00	13.06



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
12/02/16	2016	12	2	457.98	11077.0	22	-9.9	2.99	9.17	1.88	5.76	0.00	0.00	0.00	0.00	14.93
12/03/16	2016	12	3	457.94	11063.7	22	-13.2	1.85	5.68	1.80	5.54	0.00	0.00	0.00	0.00	11.21
12/04/16	2016	12	4	457.91	11053.8	22	-9.9	1.85	5.69	1.72	5.28	0.00	0.00	0.00	0.00	10.97
12/05/16	2016	12	5	457.88	11044.0	22	-9.9	1.86	5.70	1.68	5.14	0.00	0.00	0.00	0.00	10.84
12/06/16	2016	12	6	457.87	11040.7	22	-3.3	1.85	5.69	1.71	5.26	0.00	0.00	0.00	0.00	10.95
12/07/16	2016	12	7	457.83	11027.5	22	-13.2	1.85	5.68	1.72	5.26	0.00	0.00	0.00	0.00	10.94
12/08/16	2016	12	8	457.82	11024.2	22	-3.3	1.86	5.70	1.71	5.25	0.00	0.00	0.00	0.00	10.95
12/09/16	2016	12	9	457.87	11040.7	22	16.5	1.86	5.70	1.71	5.24	0.00	0.00	0.00	0.00	10.94
12/10/16	2016	12	10	457.85	11034.1	22	-6.6	1.86	5.70	1.70	5.21	0.00	0.00	0.00	0.00	10.91
12/11/16	2016	12	11	457.85	11034.1	22	0.0	1.86	5.70	1.71	5.23	0.00	0.00	0.00	0.00	10.93
12/12/16	2016	12	12	457.83	11027.5	22	-6.6	1.86	5.70	1.70	5.22	0.00	0.00	0.00	0.00	10.91
12/13/16	2016	12	13	457.82	11024.2	22	-3.3	1.86	5.70	1.69	5.18	0.00	0.00	0.00	0.00	10.87
12/14/16	2016	12	14	457.80	11017.6	22	-6.6	1.85	5.69	1.69	5.19	0.00	0.00	0.00	0.00	10.88
12/15/16	2016	12	15	457.79	11014.3	22	-3.3	1.85	5.69	1.68	5.17	0.00	0.00	0.00	0.00	10.86
12/16/16	2016	12	16	457.92	11057.1	22	42.9	1.85	5.69	1.68	5.17	0.00	0.00	0.00	0.00	10.86
12/17/16	2016	12	17	457.91	11053.8	22	-3.3	1.85	5.68	1.68	5.16	0.00	0.00	0.00	0.00	10.84
12/18/16	2016	12	18	457.88	11044.0	22	-9.9	1.85	5.66	1.68	5.17	0.00	0.00	0.00	0.00	10.83
12/19/16	2016	12	19	457.86	11037.4	22	-6.6	1.84	5.66	1.78	5.45	0.00	0.00	0.00	0.00	11.11
12/20/16	2016	12	20	457.84	11030.8	22	-6.6	1.84	5.63	1.70	5.22	0.00	0.00	0.00	0.00	10.85
12/21/16	2016	12	21	457.83	11027.5	22	-3.3	1.83	5.63	1.70	5.22	0.00	0.00	0.00	0.00	10.84
12/22/16	2016	12	22	457.79	11014.3	22	-13.2	1.83	5.60	1.70	5.22	0.00	0.00	0.00	0.00	10.82
12/23/16	2016	12	23	457.76	11004.4	22	-9.9	1.36	4.18	1.70	5.23	0.00	0.00	0.00	0.00	9.41
12/24/16	2016	12	24	457.86	11037.4	22	32.9	0.74	2.26	1.70	5.22	0.00	0.00	0.00	0.00	7.48
12/25/16	2016	12	25	457.91	11053.8	22	16.5	0.70	2.13	1.71	5.24	0.00	0.00	0.00	0.00	7.37
12/26/16	2016	12	26	457.90	11050.5	22	-3.3	0.70	2.14	1.73	5.29	0.00	0.00	0.00	0.00	7.44
12/27/16	2016	12	27	457.89	11047.2	22	-3.3	0.70	2.15	1.80	5.54	0.00	0.00	0.00	0.00	7.69



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
12/28/16	2016	12	28	457.89	11047.2	22	0.0	0.72	2.22	1.68	5.14	0.00	0.00	0.00	0.00	7.36
12/29/16	2016	12	29	457.87	11040.7	22	-6.6	0.72	2.20	1.68	5.15	0.00	0.00	0.00	0.00	7.35
12/30/16	2016	12	30	457.89	11047.2	22	6.6	0.72	2.22	1.68	5.15	0.00	0.00	0.00	0.00	7.37
12/31/16	2016	12	31	457.89	11047.2	22	0.0	0.72	2.20	1.67	5.14	0.00	0.00	0.00	0.00	7.34
01/01/17	2017	1	1	457.90	11050.5	22	3.3	0.71	2.18	1.67	5.13	0.00	0.00	0.00	0.00	7.31
01/02/17	2017	1	2	457.89	11047.2	22	-3.3	0.71	2.17	1.67	5.14	0.00	0.00	0.00	0.00	7.31
01/03/17	2017	1	3	457.89	11047.2	22	0.0	0.72	2.19	1.82	5.58	0.00	0.00	0.00	0.00	7.77
01/04/17	2017	1	4	457.90	11050.5	22	3.3	0.36	1.10	1.72	5.28	0.00	0.00	0.00	0.00	6.39
01/05/17	2017	1	5	458.57	11272.7	23	222.1	0.00	0.00	1.74	5.33	0.00	0.00	0.00	0.00	5.33
01/06/17	2017	1	6	458.91	11386.3	23	113.6	0.00	0.00	1.74	5.32	0.00	0.00	0.00	0.00	5.32
01/07/17	2017	1	7	459.04	11429.8	23	43.6	0.00	0.00	0.78	2.40	0.00	0.00	0.00	0.00	2.40
01/08/17	2017	1	8	459.19	11480.2	23	50.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
01/09/17	2017	1	9	461.08	12124.6	25	644.3	0.28	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.85
01/10/17	2017	1	10	462.10	12479.6	25	355.0	1.46	4.48	0.00	0.00	0.00	0.00	0.00	0.00	4.48
01/11/17	2017	1	11	463.60	13011.0	26	531.4	1.87	5.73	0.00	0.00	0.00	0.00	0.00	0.00	5.73
01/12/17	2017	1	12	464.77	13433.2	27	422.2	1.88	5.78	0.00	0.00	0.00	0.00	0.00	0.00	5.78
01/13/17	2017	1	13	465.65	13755.2	28	322.0	1.89	5.80	0.05	0.15	0.00	0.00	0.00	0.00	5.95
01/14/17	2017	1	14	466.06	13906.5	28	151.3	1.89	5.81	0.05	0.16	0.00	0.00	0.00	0.00	5.97
01/15/17	2017	1	15	466.28	13988.0	28	81.5	1.90	5.82	0.05	0.16	0.00	0.00	0.00	0.00	5.98
01/16/17	2017	1	16	466.43	14043.8	28	55.7	1.90	5.82	0.06	0.17	0.00	0.00	0.00	0.00	6.00
01/17/17	2017	1	17	466.55	14088.4	29	44.7	1.90	5.82	0.20	0.62	0.00	0.00	0.00	0.00	6.45
01/18/17	2017	1	18	466.63	14118.2	29	29.8	1.90	5.83	0.04	0.14	0.00	0.00	0.00	0.00	5.96
01/19/17	2017	1	19	466.86	14204.1	29	85.9	1.90	5.84	0.31	0.95	0.00	0.00	0.00	0.00	6.79
01/20/17	2017	1	20	467.18	14324.1	29	119.9	1.91	5.87	0.51	1.55	0.00	0.00	0.00	0.00	7.42
01/21/17	2017	1	21	469.50	15208.7	31	884.6	1.93	5.93	0.46	1.41	0.00	0.00	0.00	0.00	7.35
01/22/17	2017	1	22	470.23	15492.5	31	283.8	1.61	4.93	0.42	1.29	0.00	0.00	0.00	0.00	6.21



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
01/23/17	2017	1	23	471.49	15988.5	32	496.1	1.95	5.98	0.68	2.09	0.00	0.00	0.00	0.00	8.08
01/24/17	2017	1	24	472.46	16407.4	33	418.9	1.96	6.02	0.49	1.51	0.00	0.00	0.00	0.00	7.53
01/25/17	2017	1	25	472.96	16606.9	34	199.5	1.97	6.03	0.65	1.98	0.00	0.00	0.00	0.00	8.01
01/26/17	2017	1	26	473.36	16768.4	34	161.5	1.97	6.04	1.00	3.08	0.00	0.00	0.00	0.00	9.11
01/27/17	2017	1	27	473.59	16862.0	34	93.6	1.97	6.04	0.98	2.99	0.00	0.00	0.00	0.00	9.04
01/28/17	2017	1	28	473.72	16915.2	34	53.2	1.97	6.04	1.01	3.09	0.00	0.00	0.00	0.00	9.13
01/29/17	2017	1	29	473.95	17009.6	34	94.5	1.97	6.04	1.04	3.19	0.00	0.00	0.00	0.00	9.23
01/30/17	2017	1	30	474.07	17059.1	35	49.5	1.97	6.04	1.06	3.24	0.00	0.00	0.00	0.00	9.28
01/31/17	2017	1	31	474.19	17108.8	35	49.7	1.97	6.04	1.57	4.82	0.00	0.00	0.00	0.00	10.86
02/01/17	2017	2	1	474.29	17150.3	35	41.5	1.97	6.03	2.12	6.51	0.00	0.00	0.00	0.00	12.54
02/02/17	2017	2	2	474.43	17208.6	35	58.3	1.96	6.02	2.26	6.93	0.00	0.00	0.00	0.00	12.95
02/03/17	2017	2	3	474.56	17262.9	35	54.3	1.97	6.05	2.26	6.94	0.00	0.00	0.00	0.00	12.98
02/04/17	2017	2	4	474.80	17363.6	35	100.7	1.98	6.07	2.30	7.06	0.00	0.00	0.00	0.00	13.13
02/05/17	2017	2	5	474.98	17439.5	35	75.9	1.98	6.08	2.34	7.18	0.00	0.00	0.00	0.00	13.26
02/06/17	2017	2	6	475.73	17759.4	36	319.9	1.99	6.11	2.38	7.30	0.00	0.00	0.00	0.00	13.41
02/07/17	2017	2	7	477.69	18623.2	38	863.8	2.02	6.20	2.34	7.17	0.00	0.00	0.00	0.00	13.37
02/08/17	2017	2	8	481.62	20475.9	41	1,852.7	2.06	6.33	2.14	6.57	0.00	0.00	0.00	0.00	12.90
02/09/17	2017	2	9	483.18	21256.0	43	780.1	2.07	6.36	1.90	5.83	0.00	0.00	0.00	0.00	12.19
02/10/17	2017	2	10	483.88	21614.3	44	358.3	2.08	6.38	0.31	0.95	0.00	0.00	0.00	0.00	7.34
02/11/17	2017	2	11	484.42	21894.2	44	279.9	2.08	6.40	0.28	0.85	0.00	0.00	0.00	0.00	7.25
02/12/17	2017	2	12	484.88	22135.0	45	240.8	2.09	6.41	0.24	0.73	0.00	0.00	0.00	0.00	7.14
02/13/17	2017	2	13	485.24	22325.0	45	190.0	2.09	6.42	0.19	0.57	0.00	0.00	0.00	0.00	6.99
02/14/17	2017	2	14	485.53	22479.0	46	154.0	2.09	6.42	1.19	3.65	0.00	0.00	0.00	0.00	10.07
02/15/17	2017	2	15	485.76	22601.8	46	122.8	2.09	6.42	1.84	5.66	0.00	0.00	0.00	0.00	12.08
02/16/17	2017	2	16	485.97	22714.4	46	112.6	2.09	6.43	0.82	2.51	0.00	0.00	0.00	0.00	8.94
02/17/17	2017	2	17	486.34	22913.9	46	199.5	1.43	4.39	0.22	0.66	0.00	0.00	0.00	0.00	5.05



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
02/18/17	2017	2	18	488.30	23994.5	49	1,080.6	1.56	4.78	0.02	0.06	0.00	0.00	0.00	0.00	4.85
02/19/17	2017	2	19	489.20	24504.1	50	509.6	2.00	6.13	0.03	0.08	0.00	0.00	0.00	0.00	6.21
02/20/17	2017	2	20	490.02	24975.8	51	471.7	2.01	6.16	0.03	0.08	0.00	0.00	0.00	0.00	6.23
02/21/17	2017	2	21	491.14	25631.4	52	655.6	2.02	6.19	0.03	0.08	0.00	0.00	0.00	0.00	6.27
02/22/17	2017	2	22	492.42	26396.6	53	765.2	2.02	6.19	0.15	0.47	0.00	0.00	0.00	0.00	6.66
02/23/17	2017	2	23	493.26	26908.0	54	511.5	2.02	6.19	0.03	0.09	0.00	0.00	0.00	0.00	6.28
02/24/17	2017	2	24	493.72	27191.2	55	283.2	2.04	6.26	1.39	4.27	0.00	0.00	0.00	0.00	10.52
02/25/17	2017	2	25	494.12	27439.3	56	248.1	2.02	6.19	2.00	6.14	0.00	0.00	0.00	0.00	12.33
02/26/17	2017	2	26	494.46	27651.5	56	212.2	2.02	6.20	2.01	6.16	0.00	0.00	0.00	0.00	12.37
02/27/17	2017	2	27	494.74	27827.1	56	175.6	2.02	6.20	2.02	6.20	0.00	0.00	0.00	0.00	12.40
02/28/17	2017	2	28	494.94	27953.0	57	125.9	2.02	6.21	2.03	6.23	0.00	0.00	0.00	0.00	12.45
03/01/17	2017	3	1	495.17	28098.4	57	145.4	2.09	6.41	1.99	6.11	0.00	0.00	0.00	0.00	12.52
03/02/17	2017	3	2	495.33	28199.8	57	101.4	1.95	5.99	1.96	6.02	0.00	0.00	0.00	0.00	12.02
03/03/17	2017	3	3	495.49	28301.5	57	101.7	1.86	5.71	1.97	6.05	0.00	0.00	0.00	0.00	11.76
03/04/17	2017	3	4	495.63	28390.8	57	89.2	1.86	5.71	2.00	6.14	0.00	0.00	0.00	0.00	11.85
03/05/17	2017	3	5	495.78	28486.6	58	95.8	1.86	5.71	2.00	6.15	0.00	0.00	0.00	0.00	11.86
03/06/17	2017	3	6	495.93	28582.6	58	96.0	1.86	5.71	2.05	6.28	0.00	0.00	0.00	0.00	12.00
03/07/17	2017	3	7	496.04	28653.2	58	70.6	1.86	5.71	1.95	6.00	0.00	0.00	0.00	0.00	11.71
03/08/17	2017	3	8	496.14	28717.5	58	64.3	1.86	5.72	1.97	6.04	0.00	0.00	0.00	0.00	11.75
03/09/17	2017	3	9	496.23	28775.4	58	57.9	1.87	5.73	1.97	6.05	0.00	0.00	0.00	0.00	11.79
03/10/17	2017	3	10	496.33	28839.9	58	64.5	1.87	5.75	1.97	6.06	0.00	0.00	0.00	0.00	11.80
03/11/17	2017	3	11	496.42	28898.0	59	58.1	1.87	5.73	1.97	6.06	0.00	0.00	0.00	0.00	11.79
03/12/17	2017	3	12	496.49	28943.3	59	45.3	1.87	5.74	1.97	6.04	0.00	0.00	0.00	0.00	11.79
03/13/17	2017	3	13	496.56	28988.6	59	45.3	1.87	5.73	1.97	6.04	0.00	0.00	0.00	0.00	11.77
03/14/17	2017	3	14	496.62	29027.4	59	38.9	1.87	5.74	2.08	6.37	0.00	0.00	0.00	0.00	12.11
03/15/17	2017	3	15	496.70	29079.3	59	51.9	1.87	5.74	2.22	6.81	0.00	0.00	0.00	0.00	12.55



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
03/16/17	2017	3	16	496.76	29118.3	59	39.0	1.71	5.24	2.20	6.74	0.00	0.00	0.00	0.00	11.98
03/17/17	2017	3	17	496.83	29163.8	59	45.5	1.63	5.01	2.19	6.73	0.00	0.00	0.00	0.00	11.75
03/18/17	2017	3	18	496.88	29196.4	59	32.5	1.63	5.01	2.19	6.72	0.00	0.00	0.00	0.00	11.73
03/19/17	2017	3	19	496.93	29228.9	59	32.6	1.63	5.01	2.18	6.70	0.00	0.00	0.00	0.00	11.71
03/20/17	2017	3	20	496.99	29268.0	59	39.1	1.63	5.00	2.75	8.43	0.00	0.00	0.00	0.00	13.43
03/21/17	2017	3	21	497.08	29326.8	59	58.7	1.63	5.01	2.08	6.39	0.00	0.00	0.00	0.00	11.40
03/22/17	2017	3	22	497.26	29444.5	60	117.7	1.63	5.01	1.56	4.78	0.00	0.00	0.00	0.00	9.79
03/23/17	2017	3	23	497.38	29523.2	60	78.7	1.63	5.01	1.49	4.58	0.00	0.00	0.00	0.00	9.59
03/24/17	2017	3	24	497.45	29569.1	60	46.0	1.63	5.01	1.49	4.58	0.00	0.00	0.00	0.00	9.59
03/25/17	2017	3	25	497.51	29608.6	60	39.4	1.63	5.01	1.49	4.57	0.00	0.00	0.00	0.00	9.58
03/26/17	2017	3	26	497.62	29680.9	60	72.4	1.63	5.00	1.65	5.06	0.00	0.00	0.00	0.00	10.07
03/27/17	2017	3	27	497.67	29713.9	60	32.9	1.63	5.00	1.89	5.81	0.00	0.00	0.00	0.00	10.81
03/28/17	2017	3	28	497.72	29746.9	60	33.0	1.63	5.00	1.92	5.89	0.00	0.00	0.00	0.00	10.90
03/29/17	2017	3	29	497.82	29812.9	60	66.0	1.64	5.02	1.93	5.91	0.00	0.00	0.00	0.00	10.93
03/30/17	2017	3	30	497.86	29839.3	60	26.4	1.63	5.00	1.92	5.90	0.00	0.00	0.00	0.00	10.90
03/31/17	2017	3	31	497.86	29839.3	60	0.0	1.63	5.00	1.92	5.90	0.00	0.00	0.00	0.00	10.90
04/01/17	2017	4	1	497.89	29859.2	60	19.8	1.63	5.01	1.90	5.84	0.00	0.00	0.00	0.00	10.86
04/02/17	2017	4	2	497.93	29885.7	61	26.5	1.63	5.00	1.90	5.83	0.00	0.00	0.00	0.00	10.83
04/03/17	2017	4	3	497.97	29912.1	61	26.5	1.62	4.97	2.61	8.01	0.00	0.00	0.00	0.00	12.98
04/04/17	2017	4	4	498.01	29938.6	61	26.5	1.62	4.97	2.54	7.80	0.00	0.00	0.00	0.00	12.77
04/05/17	2017	4	5	498.04	29958.5	61	19.9	1.63	4.99	1.98	6.07	0.00	0.00	0.00	0.00	11.06
04/06/17	2017	4	6	498.07	29978.4	61	19.9	1.63	5.00	1.98	6.07	0.00	0.00	0.00	0.00	11.07
04/07/17	2017	4	7	498.10	29998.3	61	19.9	1.62	4.98	1.97	6.05	0.00	0.00	0.00	0.00	11.03
04/08/17	2017	4	8	498.23	30084.7	61	86.4	1.63	4.99	1.97	6.05	0.00	0.00	0.00	0.00	11.04
04/09/17	2017	4	9	498.30	30131.3	61	46.6	1.62	4.97	0.77	2.36	0.00	0.00	0.00	0.00	7.33
04/10/17	2017	4	10	498.36	30171.3	61	40.0	1.62	4.97	1.39	4.28	0.00	0.00	0.00	0.00	9.25



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(AF)
04/11/17	2017	4	11	498.38	30184.6	61	13.3	1.62	4.97	1.96	6.02	0.00	0.00	0.00	0.00	10.98
04/12/17	2017	4	12	498.42	30211.3	61	26.7	1.62	4.98	1.97	6.03	0.00	0.00	0.00	0.00	11.01
04/13/17	2017	4	13	498.47	30244.6	61	33.4	1.62	4.96	1.97	6.05	0.00	0.00	0.00	0.00	11.01
04/14/17	2017	4	14	498.50	30264.7	61	20.0	1.51	4.62	1.98	6.09	0.00	0.00	0.00	0.00	10.71
04/15/17	2017	4	15	498.53	30284.7	61	20.0	1.62	4.96	2.01	6.16	0.00	0.00	0.00	0.00	11.13
04/16/17	2017	4	16	498.55	30298.1	61	13.4	1.62	4.96	2.00	6.15	0.00	0.00	0.00	0.00	11.11
04/17/17	2017	4	17	498.60	30331.5	61	33.4	1.62	4.97	1.97	6.06	0.00	0.00	0.00	0.00	11.03
04/18/17	2017	4	18	498.70	30398.4	62	66.9	1.62	4.97	1.97	6.03	0.00	0.00	0.00	0.00	11.00
04/19/17	2017	4	19	498.77	30445.4	62	46.9	1.62	4.96	1.98	6.07	0.00	0.00	0.00	0.00	11.04
04/20/17	2017	4	20	498.82	30478.9	62	33.5	1.62	4.98	1.98	6.08	0.00	0.00	0.00	0.00	11.06
04/21/17	2017	4	21	498.83	30485.6	62	6.7	1.63	4.99	1.99	6.09	0.00	0.00	0.00	0.00	11.09
04/22/17	2017	4	22	498.84	30492.3	62	6.7	1.62	4.98	1.98	6.09	0.00	0.00	0.00	0.00	11.07
04/23/17	2017	4	23	498.87	30512.5	62	20.1	1.62	4.98	1.99	6.09	0.00	0.00	0.00	0.00	11.08
04/24/17	2017	4	24	498.89	30525.9	62	13.4	1.63	4.99	1.99	6.10	0.00	0.00	0.00	0.00	11.09
04/25/17	2017	4	25	498.91	30539.4	62	13.4	1.63	5.00	1.99	6.10	0.00	0.00	0.00	0.00	11.10
04/26/17	2017	4	26	498.92	30546.1	62	6.7	1.63	5.01	2.00	6.13	0.00	0.00	0.00	0.00	11.13
04/27/17	2017	4	27	498.94	30559.5	62	13.4	1.63	5.00	1.90	5.83	0.00	0.00	0.00	0.00	10.83
04/28/17	2017	4	28	498.94	30559.5	62	0.0	1.64	5.03	2.16	6.62	0.00	0.00	0.00	0.00	11.65
04/29/17	2017	4	29	498.93	30552.8	62	-6.7	1.64	5.03	2.31	7.09	0.00	0.00	0.00	0.00	12.12
04/30/17	2017	4	30	498.96	30573.0	62	20.2	1.64	5.02	2.40	7.37	0.00	0.00	0.00	0.00	12.39
05/01/17	2017	5	1	498.97	30579.7	62	6.7	1.65	5.06	2.39	7.34	0.00	0.00	0.00	0.00	12.40
05/02/17	2017	5	2	498.97	30579.7	62	0.0	1.65	5.06	2.46	7.54	0.00	0.00	0.00	0.00	12.60
05/03/17	2017	5	3	498.98	30586.4	62	6.7	1.64	5.05	2.48	7.60	0.00	0.00	0.00	0.00	12.64
05/04/17	2017	5	4	498.98	30586.4	62	0.0	1.64	5.05	2.42	7.41	0.00	0.00	0.00	0.00	12.46
05/05/17	2017	5	5	498.98	30586.4	62	0.0	1.64	5.02	2.35	7.20	0.00	0.00	0.00	0.00	12.22
05/06/17	2017	5	6	498.99	30593.2	62	6.7	1.64	5.02	2.34	7.18	0.00	0.00	0.00	0.00	12.20



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
05/07/17	2017	5	7	499.05	30633.6	62	40.4	1.64	5.02	2.98	9.16	0.00	0.00	0.00	0.00	14.18
05/08/17	2017	5	8	499.06	30640.3	62	6.7	1.64	5.02	2.99	9.17	0.00	0.00	0.00	0.00	14.19
05/09/17	2017	5	9	499.07	30647.0	62	6.7	1.64	5.03	3.45	10.60	0.00	0.00	0.00	0.00	15.63
05/10/17	2017	5	10	499.07	30647.0	62	0.0	1.64	5.02	3.47	10.64	0.00	0.00	0.00	0.00	15.66
05/11/17	2017	5	11	499.08	30653.8	62	6.7	1.64	5.03	3.56	10.92	0.00	0.00	0.00	0.00	15.95
05/12/17	2017	5	12	499.08	30653.8	62	0.0	1.64	5.02	3.76	11.54	0.00	0.00	0.00	0.00	16.57
05/13/17	2017	5	13	499.07	30647.0	62	-6.7	1.64	5.03	3.83	11.75	0.00	0.00	0.00	0.00	16.79
05/14/17	2017	5	14	499.07	30647.0	62	0.0	1.64	5.03	3.82	11.74	0.00	0.00	0.00	0.00	16.77
05/15/17	2017	5	15	499.06	30640.3	62	-6.7	1.64	5.03	3.81	11.69	0.00	0.00	0.00	0.00	16.72
05/16/17	2017	5	16	499.06	30640.3	62	0.0	1.64	5.02	3.81	11.70	0.00	0.00	0.00	0.00	16.72
05/17/17	2017	5	17	499.05	30633.6	62	-6.7	1.64	5.02	3.90	11.96	0.00	0.00	0.00	0.00	16.98
05/18/17	2017	5	18	499.05	30633.6	62	0.0	1.64	5.02	4.15	12.73	0.00	0.00	0.00	0.00	17.75
05/19/17	2017	5	19	499.05	30633.6	62	0.0	1.64	5.02	4.24	13.01	0.00	0.00	0.00	0.00	18.03
05/20/17	2017	5	20	499.02	30613.4	62	-20.2	1.64	5.02	4.24	13.00	0.00	0.00	0.00	0.00	18.03
05/21/17	2017	5	21	499.02	30613.4	62	0.0	1.64	5.03	4.28	13.14	0.00	0.00	0.00	0.00	18.16
05/22/17	2017	5	22	499.01	30606.6	62	-6.7	1.63	5.01	4.28	13.12	0.00	0.00	0.00	0.00	18.14
05/23/17	2017	5	23	498.99	30593.2	62	-13.5	1.63	5.01	4.25	13.05	0.00	0.00	0.00	0.00	18.06
05/24/17	2017	5	24	498.98	30586.4	62	-6.7	1.63	5.00	4.28	13.13	0.00	0.00	0.00	0.00	18.13
05/25/17	2017	5	25	498.98	30586.4	62	0.0	1.63	5.00	4.36	13.38	0.00	0.00	0.00	0.00	18.37
05/26/17	2017	5	26	498.98	30586.4	62	0.0	1.63	5.00	4.53	13.90	0.00	0.00	0.00	0.00	18.90
05/27/17	2017	5	27	498.97	30579.7	62	-6.7	1.63	5.00	4.53	13.90	0.00	0.00	0.00	0.00	18.89
05/28/17	2017	5	28	498.96	30573.0	62	-6.7	1.63	5.00	4.53	13.92	0.00	0.00	0.00	0.00	18.91
05/29/17	2017	5	29	498.93	30552.8	62	-20.2	1.63	5.01	4.49	13.79	0.00	0.00	0.00	0.00	18.80
05/30/17	2017	5	30	498.92	30546.1	62	-6.7	1.63	5.00	4.46	13.70	0.00	0.00	0.00	0.00	18.70
05/31/17	2017	5	31	498.91	30539.4	62	-6.7	1.63	5.00	4.47	13.72	0.00	0.00	0.00	0.00	18.72
06/01/17	2017	6	1	498.90	30532.6	62	-6.7	1.64	5.02	4.02	12.33	0.00	0.00	0.00	0.00	17.34



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
06/02/17	2017	6	2	498.88	30519.2	62	-13.4	1.64	5.04	4.34	13.31	0.00	0.00	0.00	0.00	18.36
06/03/17	2017	6	3	498.85	30499.1	62	-20.2	1.65	5.05	4.47	13.72	0.00	0.00	0.00	0.00	18.78
06/04/17	2017	6	4	498.83	30485.6	62	-13.4	1.65	5.06	4.35	13.36	0.00	0.00	0.00	0.00	18.42
06/05/17	2017	6	5	498.81	30472.2	62	-13.4	1.65	5.06	4.43	13.60	0.00	0.00	0.00	0.00	18.66
06/06/17	2017	6	6	498.79	30458.8	62	-13.4	1.65	5.05	4.44	13.63	0.00	0.00	0.00	0.00	18.68
06/07/17	2017	6	7	498.78	30452.1	62	-6.7	1.65	5.05	4.44	13.63	0.00	0.00	0.00	0.00	18.68
06/08/17	2017	6	8	498.76	30438.7	62	-13.4	1.65	5.05	4.44	13.61	0.00	0.00	0.00	0.00	18.66
06/09/17	2017	6	9	498.75	30432.0	62	-6.7	1.90	5.83	4.44	13.62	0.00	0.00	0.00	0.00	19.45
06/10/17	2017	6	10	498.73	30418.5	62	-13.4	2.63	8.08	4.44	13.63	0.00	0.00	0.00	0.00	21.71
06/11/17	2017	6	11	498.70	30398.4	62	-20.1	2.97	9.11	4.51	13.84	0.00	0.00	0.00	0.00	22.95
06/12/17	2017	6	12	498.67	30378.3	62	-20.1	2.86	8.79	4.67	14.34	0.00	0.00	0.00	0.00	23.13
06/13/17	2017	6	13	498.64	30358.3	61	-20.1	3.47	10.64	4.68	14.37	0.00	0.00	0.00	0.00	25.01
06/14/17	2017	6	14	498.60	30331.5	61	-26.8	3.78	11.60	4.67	14.33	0.00	0.00	0.00	0.00	25.92
06/15/17	2017	6	15	498.57	30311.4	61	-20.1	3.75	11.51	4.32	13.26	0.00	0.00	0.00	0.00	24.77
06/16/17	2017	6	16	498.55	30298.1	61	-13.4	3.78	11.61	4.69	14.38	0.00	0.00	0.00	0.00	25.99
06/17/17	2017	6	17	498.51	30271.3	61	-26.7	3.77	11.57	4.69	14.38	0.00	0.00	0.00	0.00	25.95
06/18/17	2017	6	18	498.48	30251.3	61	-20.0	3.77	11.57	4.69	14.38	0.00	0.00	0.00	0.00	25.95
06/19/17	2017	6	19	498.43	30217.9	61	-33.4	3.76	11.52	4.68	14.36	0.00	0.00	0.00	0.00	25.89
06/20/17	2017	6	20	498.39	30191.3	61	-26.7	3.76	11.54	4.66	14.31	0.00	0.00	0.00	0.00	25.84
06/21/17	2017	6	21	498.36	30171.3	61	-20.0	3.76	11.54	4.64	14.24	0.00	0.00	0.00	0.00	25.78
06/22/17	2017	6	22	498.33	30151.3	61	-20.0	3.76	11.54	4.89	15.00	0.00	0.00	0.00	0.00	26.53
06/23/17	2017	6	23	498.28	30118.0	61	-33.3	3.76	11.54	5.05	15.50	0.00	0.00	0.00	0.00	27.04
06/24/17	2017	6	24	498.24	30091.4	61	-26.6	3.76	11.53	5.05	15.49	0.00	0.00	0.00	0.00	27.02
06/25/17	2017	6	25	498.20	30064.8	61	-26.6	3.76	11.54	5.04	15.47	0.00	0.00	0.00	0.00	27.01
06/26/17	2017	6	26	498.18	30051.5	61	-13.3	3.76	11.53	5.04	15.46	0.00	0.00	0.00	0.00	26.99
06/27/17	2017	6	27	498.14	30024.9	61	-26.6	3.76	11.55	4.61	14.14	0.00	0.00	0.00	0.00	25.68



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
06/28/17	2017	6	28	498.10	29998.3	61	-26.6	3.77	11.56	4.01	12.30	0.00	0.00	0.00	0.00	23.86
06/29/17	2017	6	29	498.06	29971.8	61	-26.5	3.76	11.54	4.01	12.29	0.00	0.00	0.00	0.00	23.84
06/30/17	2017	6	30	498.01	29938.6	61	-33.2	3.76	11.55	4.00	12.29	0.00	0.00	0.00	0.00	23.83
07/01/17	2017	7	1	497.97	29912.14	61	-26.5	4.09	12.54	3.98	12.20	0.00	0.00	0.00	0.00	24.74
07/02/17	2017	7	2	497.94	29892.27	61	-19.9	4.56	14.00	4.30	13.20	0.00	0.00	0.00	0.00	27.20
07/03/17	2017	7	3	497.89	29859.18	60	-33.1	4.63	14.20	4.52	13.86	0.00	0.00	0.00	0.00	28.06
07/04/17	2017	7	4	497.86	29839.34	60	-19.8	4.64	14.23	4.51	13.84	0.00	0.00	0.00	0.00	28.06
07/05/17	2017	7	5	497.82	29812.90	60	-26.4	4.63	14.22	4.68	14.35	0.00	0.00	0.00	0.00	28.57
07/06/17	2017	7	6	497.77	29779.87	60	-33.0	4.63	14.21	4.79	14.69	0.00	0.00	0.00	0.00	28.89
07/07/17	2017	7	7	497.72	29746.87	60	-33.0	4.63	14.22	4.79	14.70	0.00	0.00	0.00	0.00	28.92
07/08/17	2017	7	8	497.67	29713.90	60	-33.0	4.63	14.21	4.63	14.19	0.00	0.00	0.00	0.00	28.41
07/09/17	2017	7	9	497.62	29680.95	60	-32.9	4.63	14.20	4.52	13.87	0.00	0.00	0.00	0.00	28.07
07/10/17	2017	7	10	497.59	29661.19	60	-19.8	4.53	13.89	4.50	13.82	0.00	0.00	0.00	0.00	27.71
07/11/17	2017	7	11	497.56	29641.45	60	-19.7	4.36	13.39	4.51	13.83	0.00	0.00	0.00	0.00	27.22
07/12/17	2017	7	12	497.51	29608.55	60	-32.9	4.36	13.38	4.49	13.77	0.00	0.00	0.00	0.00	27.16
07/13/17	2017	7	13	497.47	29582.26	60	-26.3	4.37	13.42	4.47	13.72	0.00	0.00	0.00	0.00	27.14
07/14/17	2017	7	14	497.44	29562.55	60	-19.7	4.37	13.41	4.50	13.82	0.00	0.00	0.00	0.00	27.22
07/15/17	2017	7	15	497.39	29529.72	60	-32.8	4.07	12.50	4.53	13.91	0.00	0.00	0.00	0.00	26.40
07/16/17	2017	7	16	497.34	29496.92	60	-32.8	4.08	12.52	4.53	13.90	0.00	0.00	0.00	0.00	26.42
07/17/17	2017	7	17	497.30	29470.69	60	-26.2	4.07	12.50	4.52	13.87	0.00	0.00	0.00	0.00	26.37
07/18/17	2017	7	18	497.26	29444.49	60	-26.2	3.95	12.13	4.50	13.80	0.00	0.00	0.00	0.00	25.93
07/19/17	2017	7	19	497.20	29405.21	60	-39.3	3.76	11.53	4.50	13.80	0.00	0.00	0.00	0.00	25.34
07/20/17	2017	7	20	497.17	29385.58	59	-19.6	3.76	11.54	4.49	13.78	0.00	0.00	0.00	0.00	25.32
07/21/17	2017	7	21	497.13	29359.43	59	-26.2	3.76	11.52	4.50	13.80	0.00	0.00	0.00	0.00	25.32
07/22/17	2017	7	22	497.08	29326.76	59	-32.7	3.75	11.51	4.50	13.80	0.00	0.00	0.00	0.00	25.30
07/23/17	2017	7	23	497.03	29294.12	59	-32.6	3.76	11.52	4.51	13.85	0.00	0.00	0.00	0.00	25.38



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
07/24/17	2017	7	24	496.98	29261.51	59	-32.6	3.76	11.54	4.54	13.93	0.00	0.00	0.00	0.00	25.47
07/25/17	2017	7	25	496.95	29241.95	59	-19.6	3.77	11.56	4.55	13.96	0.00	0.00	0.00	0.00	25.51
07/26/17	2017	7	26	496.91	29215.89	59	-26.1	3.60	11.04	4.55	13.97	0.00	0.00	0.00	0.00	25.01
07/27/17	2017	7	27	496.88	29196.36	59	-19.5	3.46	10.63	4.56	13.99	0.00	0.00	0.00	0.00	24.62
07/28/17	2017	7	28	496.84	29170.32	59	-26.0	3.44	10.54	4.55	13.97	0.00	0.00	0.00	0.00	24.51
07/29/17	2017	7	29	496.79	29137.81	59	-32.5	3.43	10.54	4.51	13.85	0.00	0.00	0.00	0.00	24.39
07/30/17	2017	7	30	496.75	29111.81	59	-26.0	3.42	10.51	4.51	13.84	0.00	0.00	0.00	0.00	24.34
07/31/17	2017	7	31	496.71	29085.84	59	-26.0	3.42	10.51	4.51	13.84	0.00	0.00	0.00	0.00	24.35
08/01/17	2017	8	1	496.65	29046.90	59	-38.9	3.26	10.00	4.52	13.88	0.00	0.00	0.00	0.00	23.88
08/02/17	2017	8	2	496.62	29027.45	59	-19.5	3.16	9.68	4.47	13.73	0.00	0.00	0.00	0.00	23.41
08/03/17	2017	8	3	496.60	29014.48	59	-13.0	3.15	9.66	4.33	13.28	0.00	0.00	0.00	0.00	22.94
08/04/17	2017	8	4	496.57	28995.05	59	-19.4	3.15	9.67	4.29	13.15	0.00	0.00	0.00	0.00	22.82
08/05/17	2017	8	5	496.52	28962.67	59	-32.4	3.15	9.67	4.29	13.16	0.00	0.00	0.00	0.00	22.83
08/06/17	2017	8	6	496.49	28943.26	59	-19.4	3.15	9.67	4.31	13.21	0.00	0.00	0.00	0.00	22.88
08/07/17	2017	8	7	496.46	28923.86	59	-19.4	3.16	9.70	1.38	4.23	0.00	0.00	0.00	0.00	13.92
08/08/17	2017	8	8	496.44	28910.92	59	-12.9	3.16	0.03	0.03	0.10	0.00	0.00	0.00	0.00	0.13
08/09/17	2017	8	9	496.42	28898.00	59	-12.9	3.16	9.70	0.02	0.07	0.00	0.00	0.00	0.00	9.77
08/10/17	2017	8	10	496.40	28885.08	58	-12.9	3.16	9.68	0.03	0.10	0.00	0.00	0.00	0.00	9.78
08/11/17	2017	8	11	496.38	28872.16	58	-12.9	3.16	9.69	0.03	0.10	0.00	0.00	0.00	0.00	9.78
08/12/17	2017	8	12	496.36	28859.24	58	-12.9	3.16	9.69	0.03	0.09	0.00	0.00	0.00	0.00	9.78
08/13/17	2017	8	13	496.34	28846.34	58	-12.9	3.16	9.69	0.03	0.09	0.00	0.00	0.00	0.00	9.78
08/14/17	2017	8	14	496.31	28826.98	58	-19.4	3.16	9.70	0.03	0.09	0.00	0.00	0.00	0.00	9.79
08/15/17	2017	8	15	496.30	28820.53	58	-6.5	3.16	9.70	0.00	0.00	0.00	0.00	0.00	0.00	9.70
08/16/17	2017	8	16	496.28	28807.63	58	-12.9	3.16	9.70	0.00	0.00	0.00	0.00	0.00	0.00	9.70
08/17/17	2017	8	17	496.26	28794.74	58	-12.9	3.16	9.70	0.00	0.00	0.00	0.00	0.00	0.00	9.70
08/18/17	2017	8	18	496.24	28781.85	58	-12.9	3.16	9.70	0.00	0.00	0.00	0.00	0.00	0.00	9.70



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
08/19/17	2017	8	19	496.22	28768.97	58	-12.9	3.16	9.68	0.00	0.00	0.00	0.00	0.00	0.00	9.68
08/20/17	2017	8	20	496.20	28756.09	58	-12.9	3.16	9.69	0.00	0.00	0.00	0.00	0.00	0.00	9.69
08/21/17	2017	8	21	496.18	28743.21	58	-12.9	3.16	9.69	0.00	0.00	0.00	0.00	0.00	0.00	9.69
08/22/17	2017	8	22	496.17	28736.77	58	-6.4	3.15	9.65	2.47	7.59	0.00	0.00	0.00	0.00	17.24
08/23/17	2017	8	23	496.14	28717.47	58	-19.3	3.14	9.63	4.05	12.42	0.00	0.00	0.00	0.00	22.05
08/24/17	2017	8	24	496.10	28691.75	58	-25.7	3.14	9.63	4.05	12.43	0.00	0.00	0.00	0.00	22.05
08/25/17	2017	8	25	496.07	28672.47	58	-19.3	3.27	10.05	4.05	12.43	0.00	0.00	0.00	0.00	22.47
08/26/17	2017	8	26	496.03	28646.77	58	-25.7	3.48	10.67	4.05	12.42	0.00	0.00	0.00	0.00	23.09
08/27/17	2017	8	27	495.99	28621.09	58	-25.7	3.47	10.65	4.05	12.41	0.00	0.00	0.00	0.00	23.06
08/28/17	2017	8	28	495.95	28595.43	58	-25.7	3.47	10.66	4.04	12.41	0.00	0.00	0.00	0.00	23.06
08/29/17	2017	8	29	495.91	28569.79	58	-25.6	3.47	10.64	4.04	12.41	0.00	0.00	0.00	0.00	23.05
08/30/17	2017	8	30	495.86	28537.76	58	-32.0	3.47	10.65	4.04	12.40	0.00	0.00	0.00	0.00	23.05
08/31/17	2017	8	31	495.82	28512.15	58	-25.6	3.47	10.65	4.03	12.38	0.00	0.00	0.00	0.00	23.03
09/01/17	2017	9	1	495.77	28480.17	58	-32.0	3.48	10.67	4.04	12.39	0.00	0.00	0.00	0.00	23.06
09/02/17	2017	9	2	495.73	28454.60	58	-25.6	3.48	10.69	4.04	12.40	0.00	0.00	0.00	0.00	23.09
09/03/17	2017	9	3	495.69	28429.05	58	-25.6	3.48	10.69	4.04	12.41	0.00	0.00	0.00	0.00	23.10
09/04/17	2017	9	4	495.67	28416.28	58	-12.8	3.48	10.69	4.04	12.41	0.00	0.00	0.00	0.00	23.10
09/05/17	2017	9	5	495.65	28403.51	58	-12.8	3.48	10.69	4.04	12.40	0.00	0.00	0.00	0.00	23.09
09/06/17	2017	9	6	495.60	28371.62	57	-31.9	3.47	10.66	4.04	12.39	0.00	0.00	0.00	0.00	23.05
09/07/17	2017	9	7	495.57	28352.49	57	-19.1	3.47	10.65	4.04	12.39	0.00	0.00	0.00	0.00	23.05
09/08/17	2017	9	8	495.52	28320.64	57	-31.9	3.47	10.64	4.04	12.38	0.00	0.00	0.00	0.00	23.02
09/09/17	2017	9	9	495.49	28301.54	57	-19.1	3.47	10.65	4.04	12.38	0.00	0.00	0.00	0.00	23.03
09/10/17	2017	9	10	495.46	28282.45	57	-19.1	3.46	10.62	4.04	12.38	0.00	0.00	0.00	0.00	23.00
09/11/17	2017	9	11	495.41	28250.65	57	-31.8	3.46	10.62	5.34	16.39	0.00	0.00	0.00	0.00	27.01
09/12/17	2017	9	12	495.37	28225.23	57	-25.4	3.46	10.61	5.97	18.32	0.00	0.00	0.00	0.00	28.93
09/13/17	2017	9	13	495.34	28206.18	57	-19.1	3.45	10.60	5.99	18.37	0.00	0.00	0.00	0.00	28.97



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
09/14/17	2017	9	14	495.29	28174.44	57	-31.7	3.45	10.59	5.99	18.38	0.00	0.00	0.00	0.00	28.97
09/15/17	2017	9	15	495.24	28142.74	57	-31.7	3.46	10.62	4.34	13.32	0.00	0.00	0.00	0.00	23.94
09/16/17	2017	9	16	495.18	28104.72	57	-38.0	3.45	10.59	6.03	18.51	0.00	0.00	0.00	0.00	29.09
09/17/17	2017	9	17	495.13	28073.07	57	-31.7	3.45	10.59	6.03	18.49	0.00	0.00	0.00	0.00	29.08
09/18/17	2017	9	18	495.09	28047.77	57	-25.3	3.45	10.59	6.02	18.47	0.00	0.00	0.00	0.00	29.06
09/19/17	2017	9	19	495.04	28016.16	57	-31.6	3.45	10.59	6.01	18.44	0.00	0.00	0.00	0.00	29.03
09/20/17	2017	9	20	494.97	27971.96	57	-44.2	3.45	10.60	6.01	18.44	0.00	0.00	0.00	0.00	29.03
09/21/17	2017	9	21	494.92	27940.42	57	-31.5	3.46	10.61	6.02	18.46	0.00	0.00	0.00	0.00	29.07
09/22/17	2017	9	22	494.89	27921.51	57	-18.9	3.46	10.63	6.01	18.43	0.00	0.00	0.00	0.00	29.06
09/23/17	2017	9	23	494.82	27877.42	56	-44.1	3.47	10.64	5.99	18.38	0.00	0.00	0.00	0.00	29.02
09/24/17	2017	9	24	494.76	27839.66	56	-37.8	3.47	10.65	6.00	18.41	0.00	0.00	0.00	0.00	29.06
09/25/17	2017	9	25	494.71	27808.23	56	-31.4	3.48	10.69	5.77	17.70	0.00	0.00	0.00	0.00	28.38
09/26/17	2017	9	26	494.65	27770.55	56	-37.7	3.45	10.58	5.53	16.97	0.00	0.00	0.00	0.00	27.55
09/27/17	2017	9	27	494.60	27739.17	56	-31.4	3.49	10.70	5.53	16.96	0.00	0.00	0.00	0.00	27.65
09/28/17	2017	9	28	494.55	27707.82	56	-31.3	3.49	10.72	5.53	16.96	0.00	0.00	0.00	0.00	27.68
09/29/17	2017	9	29	494.50	27676.50	56	-31.3	3.50	10.73	5.33	16.36	0.00	0.00	0.00	0.00	27.08
09/30/17	2017	9	30	494.45	27645.21	56	-31.3	3.49	10.72	5.20	15.97	0.00	0.00	0.00	0.00	26.69
10/01/17	2017	10	1	494.42	27626.44	56	-18.8	3.49	10.71	5.20	15.97	0.00	0.00	0.00	0.00	26.67
10/02/17	2017	10	2	494.37	27595.19	56	-31.3	3.49	10.70	5.20	15.95	0.00	0.00	0.00	0.00	26.65
10/03/17	2017	10	3	494.32	27563.96	56	-31.2	3.48	10.69	5.19	15.94	0.00	0.00	0.00	0.00	26.63
10/04/17	2017	10	4	494.27	27532.75	56	-31.2	3.49	10.70	5.19	15.94	0.00	0.00	0.00	0.00	26.63
10/05/17	2017	10	5	494.22	27501.58	56	-31.2	3.47	10.65	5.20	15.96	0.00	0.00	0.00	0.00	26.61
10/06/17	2017	10	6	494.17	27470.43	56	-31.2	3.48	10.67	5.20	15.97	0.00	0.00	0.00	0.00	26.64
10/07/17	2017	10	7	494.12	27439.30	56	-31.1	3.48	10.67	5.20	15.97	0.00	0.00	0.00	0.00	26.64
10/08/17	2017	10	8	494.07	27408.20	55	-31.1	3.47	10.66	5.20	15.97	0.00	0.00	0.00	0.00	26.63
10/09/17	2017	10	9	494.03	27383.34	55	-24.9	3.47	10.65	5.21	15.98	0.00	0.00	0.00	0.00	26.63



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
10/10/17	2017	10	10	493.98	27352.29	55	-31.1	3.56	10.94	5.33	16.37	0.00	0.00	0.00	0.00	27.31
10/11/17	2017	10	11	493.95	27333.68	55	-18.6	3.70	11.35	5.82	17.86	0.00	0.00	0.00	0.00	29.21
10/12/17	2017	10	12	493.90	27302.67	55	-31.0	3.70	11.34	6.01	18.45	0.00	0.00	0.00	0.00	29.79
10/13/17	2017	10	13	493.83	27259.30	55	-43.4	3.69	11.32	6.00	18.41	0.00	0.00	0.00	0.00	29.74
10/14/17	2017	10	14	493.78	27228.35	55	-30.9	3.70	11.35	6.00	18.40	0.00	0.00	0.00	0.00	29.75
10/15/17	2017	10	15	493.73	27197.43	55	-30.9	3.69	11.32	6.00	18.40	0.00	0.00	0.00	0.00	29.73
10/16/17	2017	10	16	493.68	27166.53	55	-30.9	3.70	11.34	5.99	18.40	0.00	0.00	0.00	0.00	29.74
10/17/17	2017	10	17	493.62	27129.49	55	-37.0	3.69	11.32	5.99	18.39	0.00	0.00	0.00	0.00	29.72
10/18/17	2017	10	18	493.57	27098.66	55	-30.8	3.69	11.32	5.99	18.40	0.00	0.00	0.00	0.00	29.72
10/19/17	2017	10	19	493.53	27074.00	55	-24.7	3.69	11.33	6.00	18.41	0.00	0.00	0.00	0.00	29.73
10/20/17	2017	10	20	493.49	27049.37	55	-24.6	3.69	11.32	5.99	18.40	0.00	0.00	0.00	0.00	29.71
10/21/17	2017	10	21	493.45	27024.75	55	-24.6	3.69	11.32	5.99	18.40	0.00	0.00	0.00	0.00	29.71
10/22/17	2017	10	22	493.38	26981.71	55	-43.0	3.69	11.32	6.00	18.40	0.00	0.00	0.00	0.00	29.72
10/23/17	2017	10	23	493.33	26951.00	55	-30.7	3.68	11.30	5.99	18.39	0.00	0.00	0.00	0.00	29.70
10/24/17	2017	10	24	493.28	26920.31	55	-30.7	3.68	11.30	5.99	18.39	0.00	0.00	0.00	0.00	29.69
10/25/17	2017	10	25	493.22	26883.52	54	-36.8	3.68	11.29	5.70	17.48	0.00	0.00	0.00	0.00	28.78
10/26/17	2017	10	26	493.17	26852.89	54	-30.6	3.68	11.30	5.55	17.02	0.00	0.00	0.00	0.00	28.32
10/27/17	2017	10	27	493.13	26828.41	54	-24.5	3.68	11.29	5.55	17.02	0.00	0.00	0.00	0.00	28.32
10/28/17	2017	10	28	493.09	26803.94	54	-24.5	3.68	11.29	5.54	17.01	0.00	0.00	0.00	0.00	28.30
10/29/17	2017	10	29	493.05	26779.49	54	-24.5	3.68	11.29	5.54	16.99	0.00	0.00	0.00	0.00	28.28
10/30/17	2017	10	30	493.01	26755.05	54	-24.4	3.68	11.29	5.53	16.97	0.00	0.00	0.00	0.00	28.26
10/31/17	2017	10	31	492.98	26736.74	54	-18.3	3.68	11.30	5.53	16.97	0.00	0.00	0.00	0.00	28.27
11/01/17	2017	11	1	492.94	26712.33	54	-24.4	3.68	11.30	5.53	16.98	0.00	0.00	0.00	0.00	28.28
11/02/17	2017	11	2	492.90	26687.95	54	-24.4	3.68	11.29	5.53	16.97	0.00	0.00	0.00	0.00	28.26
11/03/17	2017	11	3	492.87	26669.66	54	-18.3	3.68	11.29	5.53	16.98	0.00	0.00	0.00	0.00	28.27
11/04/17	2017	11	4	492.84	26651.39	54	-18.3	3.68	11.28	5.53	16.98	0.00	0.00	0.00	0.00	28.26



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
11/05/17	2017	11	5	492.79	26620.96	54	-30.4	3.67	11.28	5.53	16.98	0.00	0.00	0.00	0.00	28.26
11/06/17	2017	11	6	492.74	26590.56	54	-30.4	3.68	11.28	5.53	16.97	0.00	0.00	0.00	0.00	28.25
11/07/17	2017	11	7	492.70	26566.25	54	-24.3	3.68	11.28	5.53	16.97	0.00	0.00	0.00	0.00	28.24
11/08/17	2017	11	8	492.65	26535.89	54	-30.4	3.68	11.28	5.36	16.45	0.00	0.00	0.00	0.00	27.73
11/09/17	2017	11	9	492.62	26517.69	54	-18.2	3.69	11.32	2.49	7.64	0.00	0.00	0.00	0.00	18.97
11/10/17	2017	11	10	492.61	26511.63	54	-6.1	3.69	11.32	2.49	7.64	0.00	0.00	0.00	0.00	18.96
11/11/17	2017	11	11	492.59	26499.50	54	-12.1	3.67	11.26	4.23	12.98	0.00	0.00	0.00	0.00	24.25
11/12/17	2017	11	12	492.55	26475.26	54	-24.2	3.67	11.26	4.99	15.30	0.00	0.00	0.00	0.00	26.56
11/13/17	2017	11	13	492.52	26457.09	54	-18.2	3.67	11.26	4.97	15.24	0.00	0.00	0.00	0.00	26.51
11/14/17	2017	11	14	492.48	26432.87	54	-24.2	3.67	11.25	4.98	15.27	0.00	0.00	0.00	0.00	26.52
11/15/17	2017	11	15	492.44	26408.67	53	-24.2	3.67	11.27	4.99	15.31	0.00	0.00	0.00	0.00	26.58
11/16/17	2017	11	16	492.39	26378.45	53	-30.2	3.67	11.26	4.99	15.30	0.00	0.00	0.00	0.00	26.56
11/17/17	2017	11	17	492.37	26366.37	53	-12.1	3.67	11.26	4.99	15.30	0.00	0.00	0.00	0.00	26.57
11/18/17	2017	11	18	492.33	26342.22	53	-24.2	3.67	11.25	4.99	15.31	0.00	0.00	0.00	0.00	26.56
11/19/17	2017	11	19	492.30	26324.12	53	-18.1	3.67	11.25	4.99	15.30	0.00	0.00	0.00	0.00	26.55
11/20/17	2017	11	20	492.26	26300.00	53	-24.1	3.67	11.26	4.98	15.29	0.00	0.00	0.00	0.00	26.55
11/21/17	2017	11	21	492.23	26281.92	53	-18.1	3.67	11.27	4.98	15.29	0.00	0.00	0.00	0.00	26.56
11/22/17	2017	11	22	492.19	26257.82	53	-24.1	3.67	11.25	4.98	15.30	0.00	0.00	0.00	0.00	26.54
11/23/17	2017	11	23	492.15	26233.75	53	-24.1	3.67	11.25	4.98	15.29	0.00	0.00	0.00	0.00	26.55
11/24/17	2017	11	24	492.11	26209.69	53	-24.1	3.66	11.24	4.98	15.29	0.00	0.00	0.00	0.00	26.54
11/25/17	2017	11	25	492.07	26185.64	53	-24.0	3.66	11.24	5.05	15.49	0.00	0.00	0.00	0.00	26.73
11/26/17	2017	11	26	492.03	26161.62	53	-24.0	3.66	11.24	5.15	15.80	0.00	0.00	0.00	0.00	27.04
11/27/17	2017	11	27	492.03	26161.62	53	0.0	3.66	11.24	5.16	15.83	0.00	0.00	0.00	0.00	27.07
11/28/17	2017	11	28	491.99	26137.61	53	-24.0	3.66	11.24	5.16	15.83	0.00	0.00	0.00	0.00	27.07
11/29/17	2017	11	29	491.95	26113.62	53	-24.0	3.29	10.11	5.16	15.83	0.00	0.00	0.00	0.00	25.94
11/30/17	2017	11	30	491.91	26089.64	53	-24.0	3.28	10.07	5.15	15.82	0.00	0.00	0.00	0.00	25.88



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
12/01/17	2017	12	1	491.87	26065.7	53	-24.0	3.22	9.89	5.15	15.82	0.00	0.00	0.00	0.00	25.70
12/02/17	2017	12	2	491.83	26041.7	53	-23.9	3.22	9.87	5.16	15.82	0.00	0.00	0.00	0.00	25.69
12/03/17	2017	12	3	491.79	26017.8	53	-23.9	3.22	9.88	5.16	15.84	0.00	0.00	0.00	0.00	25.72
12/04/17	2017	12	4	491.72	25976.0	53	-41.8	3.22	9.88	5.17	15.85	0.00	0.00	0.00	0.00	25.73
12/05/17	2017	12	5	491.68	25952.1	53	-23.9	3.22	9.88	5.20	15.96	0.00	0.00	0.00	0.00	25.84
12/06/17	2017	12	6	491.65	25934.2	53	-17.9	3.22	9.88	5.20	15.95	0.00	0.00	0.00	0.00	25.83
12/07/17	2017	12	7	491.61	25910.4	52	-23.9	2.90	8.90	5.19	15.93	0.00	0.00	0.00	0.00	24.83
12/08/17	2017	12	8	491.58	25892.5	52	-17.9	2.74	8.41	5.18	15.90	0.00	0.00	0.00	0.00	24.31
12/09/17	2017	12	9	491.55	25874.6	52	-17.9	2.74	8.41	5.18	15.90	0.00	0.00	0.00	0.00	24.31
12/10/17	2017	12	10	491.53	25862.7	52	-11.9	2.78	8.53	5.19	15.93	0.00	0.00	0.00	0.00	24.46
12/11/17	2017	12	11	491.50	25844.9	52	-17.9	2.70	8.28	5.19	15.93	0.00	0.00	0.00	0.00	24.21
12/12/17	2017	12	12	491.46	25821.1	52	-23.8	2.62	8.04	5.19	15.93	0.00	0.00	0.00	0.00	23.97
12/13/17	2017	12	13	491.40	25785.4	52	-35.7	2.61	8.02	5.19	15.92	0.00	0.00	0.00	0.00	23.94
12/14/17	2017	12	14	491.35	25755.7	52	-29.7	2.61	8.01	5.18	15.90	0.00	0.00	0.00	0.00	23.91
12/15/17	2017	12	15	491.32	25737.9	52	-17.8	2.61	8.02	5.18	15.89	0.00	0.00	0.00	0.00	23.90
12/16/17	2017	12	16	491.29	25720.1	52	-17.8	2.61	8.01	5.18	15.89	0.00	0.00	0.00	0.00	23.90
12/17/17	2017	12	17	491.26	25702.4	52	-17.8	2.61	8.01	5.17	15.88	0.00	0.00	0.00	0.00	23.89
12/18/17	2017	12	18	491.22	25678.7	52	-23.7	2.61	8.01	5.17	15.87	0.00	0.00	0.00	0.00	23.88
12/19/17	2017	12	19	491.18	25655.0	52	-23.7	2.61	8.01	5.17	15.87	0.00	0.00	0.00	0.00	23.88
12/20/17	2017	12	20	491.16	25643.2	52	-11.8	2.61	8.01	5.17	15.86	0.00	0.00	0.00	0.00	23.87
12/21/17	2017	12	21	491.14	25631.4	52	-11.8	2.61	8.01	4.99	15.32	0.00	0.00	0.00	0.00	23.33
12/22/17	2017	12	22	491.10	25607.7	52	-23.6	2.61	8.01	4.86	14.90	0.00	0.00	0.00	0.00	22.91
12/23/17	2017	12	23	491.07	25590.0	52	-17.7	2.61	8.01	4.85	14.89	0.00	0.00	0.00	0.00	22.90
12/24/17	2017	12	24	491.04	25572.3	52	-17.7	2.61	8.01	4.85	14.88	0.00	0.00	0.00	0.00	22.89
12/25/17	2017	12	25	490.97	25531.0	52	-41.3	2.61	8.00	4.85	14.89	0.00	0.00	0.00	0.00	22.88
12/26/17	2017	12	26	490.94	25513.3	52	-17.7	2.61	7.99	4.86	14.91	0.00	0.00	0.00	0.00	22.91



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
12/27/17	2017	12	27	490.92	25501.6	52	-11.8	2.60	7.99	4.86	14.91	0.00	0.00	0.00	0.00	22.90
12/28/17	2017	12	28	490.89	25483.9	52	-17.7	2.60	7.99	4.85	14.89	0.00	0.00	0.00	0.00	22.88
12/29/17	2017	12	29	490.88	25478.0	52	-5.9	2.60	7.99	4.85	14.89	0.00	0.00	0.00	0.00	22.88
12/30/17	2017	12	30	490.86	25466.2	52	-11.8	2.61	8.00	4.85	14.88	0.00	0.00	0.00	0.00	22.88
12/31/17	2017	12	31	490.83	25448.6	52	-17.6	2.61	8.00	4.85	14.88	0.00	0.00	0.00	0.00	22.88
01/01/18	2018	1	1	490.80	25431.0	51	-17.6	2.60	7.98	5.61	17.22	0.00	0.00	0.00	0.00	25.19
01/02/18	2018	1	2	490.78	25419.2	51	-11.8	2.60	7.96	6.03	18.51	0.00	0.00	0.00	0.00	26.48
01/03/18	2018	1	3	490.73	25389.9	51	-29.4	2.60	7.96	6.04	18.54	0.00	0.00	0.00	0.00	26.50
01/04/18	2018	1	4	490.74	25395.7	51	5.9	2.60	7.97	6.05	18.55	0.00	0.00	0.00	0.00	26.52
01/05/18	2018	1	5	490.74	25395.7	51	0.0	2.60	7.97	6.05	18.57	0.00	0.00	0.00	0.00	26.54
01/06/18	2018	1	6	490.73	25389.9	51	-5.9	2.60	7.97	5.70	17.50	0.00	0.00	0.00	0.00	25.47
01/07/18	2018	1	7	490.70	25372.3	51	-17.6	2.60	7.99	4.83	14.84	0.00	0.00	0.00	0.00	22.82
01/08/18	2018	1	8	490.70	25372.3	51	0.0	2.60	7.99	4.02	12.34	0.00	0.00	0.00	0.00	20.34
01/09/18	2018	1	9	490.84	25454.5	52	82.2	2.61	8.00	3.13	9.59	0.00	0.00	0.00	0.00	17.59
01/10/18	2018	1	10	490.84	25454.5	52	0.0	2.61	8.01	2.97	9.11	0.00	0.00	0.00	0.00	17.13
01/11/18	2018	1	11	490.83	25448.6	52	-5.9	2.62	8.03	2.97	9.11	0.00	0.00	0.00	0.00	17.14
01/12/18	2018	1	12	490.80	25431.0	51	-17.6	2.61	8.01	2.97	9.11	0.00	0.00	0.00	0.00	17.12
01/13/18	2018	1	13	490.80	25431.0	51	0.0	2.61	8.01	2.96	9.08	0.00	0.00	0.00	0.00	17.09
01/14/18	2018	1	14	490.78	25419.2	51	-11.8	2.62	8.03	3.18	9.76	0.00	0.00	0.00	0.00	17.79
01/15/18	2018	1	15	490.76	25407.5	51	-11.7	2.62	8.03	3.74	11.47	0.00	0.00	0.00	0.00	19.50
01/16/18	2018	1	16	490.73	25389.9	51	-17.6	2.61	8.02	3.86	11.84	0.00	0.00	0.00	0.00	19.85
01/17/18	2018	1	17	490.71	25378.1	51	-11.7	2.61	8.01	3.97	12.17	0.00	0.00	0.00	0.00	20.18
01/18/18	2018	1	18	490.70	25372.3	51	-5.9	2.61	7.99	4.34	13.32	0.00	0.00	0.00	0.00	21.32
01/19/18	2018	1	19	490.68	25360.5	51	-11.7	2.61	8.00	4.73	14.52	0.00	0.00	0.00	0.00	22.52
01/20/18	2018	1	20	490.65	25342.9	51	-17.6	2.61	8.00	4.73	14.51	0.00	0.00	0.00	0.00	22.51
01/21/18	2018	1	21	490.62	25325.4	51	-17.6	2.60	7.99	4.73	14.53	0.00	0.00	0.00	0.00	22.52



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
01/22/18	2018	1	22	490.59	25307.8	51	-17.6	2.60	7.99	4.74	14.55	0.00	0.00	0.00	0.00	22.54
01/23/18	2018	1	23	490.57	25296.1	51	-11.7	2.60	7.99	4.74	14.54	0.00	0.00	0.00	0.00	22.52
01/24/18	2018	1	24	490.54	25278.5	51	-17.6	2.60	7.98	4.74	14.55	0.00	0.00	0.00	0.00	22.53
01/25/18	2018	1	25	490.53	25272.7	51	-5.8	2.60	7.97	4.74	14.54	0.00	0.00	0.00	0.00	22.51
01/26/18	2018	1	26	490.51	25261.0	51	-11.7	2.60	7.98	4.74	14.55	0.00	0.00	0.00	0.00	22.53
01/27/18	2018	1	27	490.48	25243.5	51	-17.5	2.60	7.97	4.74	14.55	0.00	0.00	0.00	0.00	22.52
01/28/18	2018	1	28	490.44	25220.1	51	-23.4	2.59	7.95	4.74	14.55	0.00	0.00	0.00	0.00	22.50
01/29/18	2018	1	29	490.41	25202.6	51	-17.5	2.59	7.95	4.74	14.55	0.00	0.00	0.00	0.00	22.50
01/30/18	2018	1	30	490.38	25185.1	51	-17.5	2.59	7.95	4.63	14.22	0.00	0.00	0.00	0.00	22.17
01/31/18	2018	1	31	490.36	25173.4	51	-11.7	2.59	7.94	4.63	14.22	0.00	0.00	0.00	0.00	22.16
02/01/18	2018	2	1	490.32	25150.1	51	-23.3	2.59	7.94	4.38	13.43	0.00	0.00	0.00	0.00	21.37
02/02/18	2018	2	2	490.28	25126.8	51	-23.3	2.58	7.92	4.33	13.29	0.00	0.00	0.00	0.00	21.21
02/03/18	2018	2	3	490.25	25109.4	51	-17.5	2.58	7.92	4.47	13.72	0.00	0.00	0.00	0.00	21.65
02/04/18	2018	2	4	490.24	25103.5	51	-5.8	2.58	7.92	4.54	13.94	0.00	0.00	0.00	0.00	21.87
02/05/18	2018	2	5	490.20	25080.3	51	-23.3	2.58	7.93	4.54	13.94	0.00	0.00	0.00	0.00	21.87
02/06/18	2018	2	6	490.18	25068.6	51	-11.6	2.59	7.94	4.54	13.93	0.00	0.00	0.00	0.00	21.87
02/07/18	2018	2	7	490.16	25057.0	51	-11.6	2.59	7.93	4.54	13.94	0.00	0.00	0.00	0.00	21.87
02/08/18	2018	2	8	490.13	25039.6	51	-17.4	2.59	7.96	4.54	13.94	0.00	0.00	0.00	0.00	21.90
02/09/18	2018	2	9	490.10	25022.2	51	-17.4	2.59	7.94	4.54	13.94	0.00	0.00	0.00	0.00	21.88
02/10/18	2018	2	10	490.07	25004.8	51	-17.4	2.59	7.94	4.54	13.94	0.00	0.00	0.00	0.00	21.88
02/11/18	2018	2	11	490.05	24993.2	51	-11.6	2.59	7.93	4.54	13.93	0.00	0.00	0.00	0.00	21.86
02/12/18	2018	2	12	490.02	24975.8	51	-17.4	2.58	7.92	4.54	13.92	0.00	0.00	0.00	0.00	21.84
02/13/18	2018	2	13	490.00	24964.2	51	-11.6	2.58	7.93	4.54	13.93	0.00	0.00	0.00	0.00	21.86
02/14/18	2018	2	14	489.98	24952.6	51	-11.6	2.59	7.94	4.54	13.94	0.00	0.00	0.00	0.00	21.88
02/15/18	2018	2	15	489.95	24935.3	50	-17.4	2.59	7.93	4.55	13.96	0.00	0.00	0.00	0.00	21.89
02/16/18	2018	2	16	489.92	24917.9	50	-17.4	2.58	7.93	4.25	13.04	0.00	0.00	0.00	0.00	20.97



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
02/17/18	2018	2	17	489.88	24894.8	50	-23.1	2.58	7.93	3.74	11.46	0.00	0.00	0.00	0.00	19.39
02/18/18	2018	2	18	489.84	24871.7	50	-23.1	2.58	7.92	3.74	11.46	0.00	0.00	0.00	0.00	19.38
02/19/18	2018	2	19	489.82	24860.1	50	-11.6	2.58	7.93	3.73	11.46	0.00	0.00	0.00	0.00	19.39
02/20/18	2018	2	20	489.79	24842.8	50	-17.3	2.59	7.95	3.72	11.43	0.00	0.00	0.00	0.00	19.38
02/21/18	2018	2	21	489.77	24831.3	50	-11.5	2.59	7.95	3.73	11.45	0.00	0.00	0.00	0.00	19.40
02/22/18	2018	2	22	489.73	24808.2	50	-23.1	2.59	7.95	3.80	11.67	0.00	0.00	0.00	0.00	19.62
02/23/18	2018	2	23	489.70	24790.9	50	-17.3	2.59	7.95	3.83	11.75	0.00	0.00	0.00	0.00	19.70
02/24/18	2018	2	24	489.68	24779.4	50	-11.5	2.59	7.96	3.84	11.78	0.00	0.00	0.00	0.00	19.73
02/25/18	2018	2	25	489.67	24773.6	50	-5.8	2.59	7.96	3.86	11.83	0.00	0.00	0.00	0.00	19.79
02/26/18	2018	2	26	489.63	24750.6	50	-23.0	2.59	7.95	3.85	11.82	0.00	0.00	0.00	0.00	19.76
02/27/18	2018	2	27	489.64	24756.3	50	5.8	2.59	7.95	3.85	11.82	0.00	0.00	0.00	0.00	19.76
02/28/18	2018	2	28	489.62	24744.8	50	-11.5	2.59	7.96	3.85	11.82	0.00	0.00	0.00	0.00	19.78
03/01/18	2018	3	1	489.60	24733.3	50	-11.5	2.59	7.96	3.85	11.83	0.00	0.00	0.00	0.00	19.79
03/02/18	2018	3	2	489.65	24762.1	50	28.8	2.59	7.96	3.86	11.83	0.00	0.00	0.00	0.00	19.79
03/03/18	2018	3	3	489.69	24785.1	50	23.0	2.60	7.97	3.85	11.83	0.00	0.00	0.00	0.00	19.79
03/04/18	2018	3	4	489.68	24779.4	50	-5.8	2.46	7.56	3.61	11.08	0.00	0.00	0.00	0.00	18.64
03/05/18	2018	3	5	489.67	24773.6	50	-5.8	2.60	7.97	3.75	11.52	0.00	0.00	0.00	0.00	19.49
03/06/18	2018	3	6	489.65	24762.1	50	-11.5	2.60	7.97	3.71	11.40	0.00	0.00	0.00	0.00	19.37
03/07/18	2018	3	7	489.62	24744.8	50	-17.3	2.60	7.98	3.22	9.87	0.00	0.00	0.00	0.00	17.85
03/08/18	2018	3	8	489.61	24739.1	50	-5.8	2.60	7.98	3.09	9.48	0.00	0.00	0.00	0.00	17.46
03/09/18	2018	3	9	489.59	24727.6	50	-11.5	2.60	7.99	3.09	9.48	0.00	0.00	0.00	0.00	17.47
03/10/18	2018	3	10	489.58	24721.8	50	-5.7	2.60	7.99	2.64	8.11	0.00	0.00	0.00	0.00	16.09
03/11/18	2018	3	11	489.61	24739.1	50	17.3	2.60	7.99	2.44	7.48	0.00	0.00	0.00	0.00	15.46
03/12/18	2018	3	12	489.61	24739.1	50	0.0	2.60	7.98	2.54	7.78	0.00	0.00	0.00	0.00	15.76
03/13/18	2018	3	13	489.61	24739.1	50	0.0	2.60	7.99	2.42	7.42	0.00	0.00	0.00	0.00	15.40
03/14/18	2018	3	14	489.68	24779.4	50	40.3	2.59	7.95	2.50	7.66	0.00	0.00	0.00	0.00	15.61



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
03/15/18	2018	3	15	489.69	24785.1	50	5.8	2.59	7.96	2.49	7.65	0.00	0.00	0.00	0.00	15.62
03/16/18	2018	3	16	489.68	24779.4	50	-5.8	2.60	7.97	2.49	7.65	0.00	0.00	0.00	0.00	15.62
03/17/18	2018	3	17	489.72	24802.4	50	23.0	2.60	7.97	2.49	7.64	0.00	0.00	0.00	0.00	15.61
03/18/18	2018	3	18	489.74	24814.0	50	11.5	2.57	7.88	2.49	7.65	0.00	0.00	0.00	0.00	15.54
03/19/18	2018	3	19	489.73	24808.2	50	-5.8	2.60	7.98	2.49	7.65	0.00	0.00	0.00	0.00	15.63
03/20/18	2018	3	20	489.71	24796.7	50	-11.5	2.60	7.98	2.49	7.64	0.00	0.00	0.00	0.00	15.62
03/21/18	2018	3	21	489.82	24860.1	50	63.5	2.60	7.99	2.49	7.65	0.00	0.00	0.00	0.00	15.64
03/22/18	2018	3	22	490.34	25161.8	51	301.7	2.61	8.00	2.50	7.67	0.00	0.00	0.00	0.00	15.67
03/23/18	2018	3	23	491.40	25785.4	52	623.6	2.62	8.04	2.50	7.67	0.00	0.00	0.00	0.00	15.71
03/24/18	2018	3	24	491.55	25874.6	52	89.2	2.62	8.03	2.50	7.68	0.00	0.00	0.00	0.00	15.71
03/25/18	2018	3	25	491.60	25904.4	52	29.8	2.62	8.04	2.39	7.34	0.00	0.00	0.00	0.00	15.38
03/26/18	2018	3	26	491.62	25916.3	52	11.9	2.62	8.03	2.54	7.79	0.00	0.00	0.00	0.00	15.82
03/27/18	2018	3	27	491.63	25922.3	52	6.0	2.62	8.03	2.94	9.01	0.00	0.00	0.00	0.00	17.05
03/28/18	2018	3	28	491.64	25928.2	52	6.0	2.61	8.02	3.18	9.77	0.00	0.00	0.00	0.00	17.79
03/29/18	2018	3	29	491.65	25934.2	53	6.0	2.62	8.03	3.18	9.77	0.00	0.00	0.00	0.00	17.80
03/30/18	2018	3	30	491.66	25940.2	53	6.0	2.62	8.04	3.18	9.76	0.00	0.00	0.00	0.00	17.81
03/31/18	2018	3	31	491.65	25934.2	53	-6.0	2.62	8.04	3.18	9.74	0.00	0.00	0.00	0.00	17.79
04/01/18	2018	4	1	491.64	25928.2	52	-6.0	2.62	8.04	3.17	9.74	0.00	0.00	0.00	0.00	17.78
04/02/18	2018	4	2	491.64	25928.2	52	0.0	2.62	8.05	3.17	9.74	0.00	0.00	0.00	0.00	17.79
04/03/18	2018	4	3	491.64	25928.2	52	0.0	2.63	8.06	3.17	9.74	0.00	0.00	0.00	0.00	17.80
04/04/18	2018	4	4	491.63	25922.3	52	-6.0	2.62	8.05	3.48	10.69	0.00	0.00	0.00	0.00	18.74
04/05/18	2018	4	5	491.61	25910.4	52	-11.9	2.62	8.03	4.17	12.79	0.00	0.00	0.00	0.00	20.82
04/06/18	2018	4	6	491.59	25898.4	52	-11.9	2.62	8.03	4.46	13.69	0.00	0.00	0.00	0.00	21.72
04/07/18	2018	4	7	491.60	25904.4	52	6.0	2.62	8.04	4.47	13.72	0.00	0.00	0.00	0.00	21.76
04/08/18	2018	4	8	491.59	25898.4	52	-6.0	2.61	8.02	4.50	13.80	0.00	0.00	0.00	0.00	21.82
04/09/18	2018	4	9	491.57	25886.5	52	-11.9	2.61	8.02	4.50	13.80	0.00	0.00	0.00	0.00	21.82



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
04/10/18	2018	4	10	491.55	25874.6	52	-11.9	2.62	8.04	4.48	13.76	0.00	0.00	0.00	0.00	21.81
04/11/18	2018	4	11	491.54	25868.7	52	-6.0	2.62	8.04	4.16	12.76	0.00	0.00	0.00	0.00	20.81
04/12/18	2018	4	12	491.53	25862.7	52	-6.0	2.62	8.04	3.99	12.25	0.00	0.00	0.00	0.00	20.30
04/13/18	2018	4	13	491.51	25850.8	52	-11.9	2.62	8.03	4.02	12.35	0.00	0.00	0.00	0.00	20.38
04/14/18	2018	4	14	491.46	25821.1	52	-29.7	2.61	8.02	4.02	12.35	0.00	0.00	0.00	0.00	20.37
04/15/18	2018	4	15	491.42	25797.3	52	-23.8	2.61	8.01	3.88	11.91	0.00	0.00	0.00	0.00	19.91
04/16/18	2018	4	16	491.41	25791.4	52	-5.9	2.61	8.00	3.82	11.73	0.00	0.00	0.00	0.00	19.74
04/17/18	2018	4	17	491.42	25797.3	52	5.9	2.61	8.00	3.80	11.67	0.00	0.00	0.00	0.00	19.67
04/18/18	2018	4	18	491.39	25779.5	52	-17.8	2.61	8.00	3.80	11.67	0.00	0.00	0.00	0.00	19.68
04/19/18	2018	4	19	491.37	25767.6	52	-11.9	2.60	7.99	3.80	11.67	0.00	0.00	0.00	0.00	19.65
04/20/18	2018	4	20	491.35	25755.7	52	-11.9	2.60	7.99	3.81	11.69	0.00	0.00	0.00	0.00	19.68
04/21/18	2018	4	21	491.33	25743.9	52	-11.9	2.60	7.99	3.80	11.67	0.00	0.00	0.00	0.00	19.65
04/22/18	2018	4	22	491.31	25732.0	52	-11.9	2.60	7.98	3.80	11.67	0.00	0.00	0.00	0.00	19.65
04/23/18	2018	4	23	491.28	25714.2	52	-17.8	2.60	7.97	3.80	11.65	0.00	0.00	0.00	0.00	19.62
04/24/18	2018	4	24	491.27	25708.3	52	-5.9	2.60	7.97	3.80	11.66	0.00	0.00	0.00	0.00	19.63
04/25/18	2018	4	25	491.25	25696.4	52	-11.8	2.60	7.98	3.80	11.65	0.00	0.00	0.00	0.00	19.63
04/26/18	2018	4	26	491.22	25678.7	52	-17.8	2.59	7.96	3.80	11.65	0.00	0.00	0.00	0.00	19.61
04/27/18	2018	4	27	491.19	25660.9	52	-17.8	2.60	7.97	3.80	11.65	0.00	0.00	0.00	0.00	19.63
04/28/18	2018	4	28	491.16	25643.2	52	-17.7	2.60	7.97	3.80	11.65	0.00	0.00	0.00	0.00	19.63
04/29/18	2018	4	29	491.13	25625.4	52	-17.7	2.60	7.96	3.79	11.64	0.00	0.00	0.00	0.00	19.61
04/30/18	2018	4	30	491.10	25607.7	52	-17.7	2.60	7.97	3.79	11.64	0.00	0.00	0.00	0.00	19.61
05/01/18	2018	5	1	491.07	25590.0	52	-17.7	2.60	7.96	3.79	11.64	0.00	0.00	0.00	0.00	19.61
05/02/18	2018	5	2	491.05	25578.2	52	-11.8	2.60	7.96	3.79	11.63	0.00	0.00	0.00	0.00	19.59
05/03/18	2018	5	3	491.00	25548.7	52	-29.5	2.60	7.96	3.82	11.72	0.00	0.00	0.00	0.00	19.69
05/04/18	2018	5	4	490.97	25531.0	52	-17.7	2.59	7.96	3.79	11.63	0.00	0.00	0.00	0.00	19.59
05/05/18	2018	5	5	490.94	25513.3	52	-17.7	2.60	7.98	4.02	12.35	0.00	0.00	0.00	0.00	20.32



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
05/06/18	2018	5	6	490.92	25501.6	52	-11.8	2.59	7.96	4.48	13.75	0.00	0.00	0.00	0.00	21.70
05/07/18	2018	5	7	490.91	25495.7	52	-5.9	2.60	7.96	4.48	13.76	0.00	0.00	0.00	0.00	21.72
05/08/18	2018	5	8	490.88	25478.0	52	-17.7	2.59	7.96	4.51	13.85	0.00	0.00	0.00	0.00	21.81
05/09/18	2018	5	9	490.85	25460.4	52	-17.6	2.59	7.96	4.50	13.80	0.00	0.00	0.00	0.00	21.77
05/10/18	2018	5	10	490.80	25431.0	51	-29.4	2.59	7.95	4.49	13.79	0.00	0.00	0.00	0.00	21.74
05/11/18	2018	5	11	490.78	25419.2	51	-11.8	2.59	7.95	4.94	15.16	0.00	0.00	0.00	0.00	23.11
05/12/18	2018	5	12	490.75	25401.6	51	-17.6	2.59	7.95	4.50	13.80	0.00	0.00	0.00	0.00	21.74
05/13/18	2018	5	13	490.72	25384.0	51	-17.6	2.59	7.95	4.50	13.80	0.00	0.00	0.00	0.00	21.75
05/14/18	2018	5	14	490.69	25366.4	51	-17.6	2.59	7.95	4.73	14.53	0.00	0.00	0.00	0.00	22.47
05/15/18	2018	5	15	490.64	25337.1	51	-29.3	2.59	7.96	4.99	15.31	0.00	0.00	0.00	0.00	23.26
05/16/18	2018	5	16	490.60	25313.7	51	-23.4	2.60	7.97	4.99	15.30	0.00	0.00	0.00	0.00	23.27
05/17/18	2018	5	17	490.58	25301.9	51	-11.7	2.59	7.95	4.99	15.31	0.00	0.00	0.00	0.00	23.26
05/18/18	2018	5	18	490.53	25272.7	51	-29.3	2.60	7.96	4.99	15.32	0.00	0.00	0.00	0.00	23.28
05/19/18	2018	5	19	490.50	25255.2	51	-17.5	2.60	7.96	4.81	14.77	0.00	0.00	0.00	0.00	22.74
05/20/18	2018	5	20	490.47	25237.6	51	-17.5	2.59	7.96	4.75	14.59	0.00	0.00	0.00	0.00	22.55
05/21/18	2018	5	21	490.44	25220.1	51	-17.5	2.59	7.96	4.75	14.59	0.00	0.00	0.00	0.00	22.55
05/22/18	2018	5	22	490.41	25202.6	51	-17.5	2.59	7.96	4.76	14.60	0.00	0.00	0.00	0.00	22.56
05/23/18	2018	5	23	490.37	25179.3	51	-23.3	2.59	7.95	4.75	14.56	0.00	0.00	0.00	0.00	22.51
05/24/18	2018	5	24	490.34	25161.8	51	-17.5	2.59	7.95	4.86	14.93	0.00	0.00	0.00	0.00	22.88
05/25/18	2018	5	25	490.32	25150.1	51	-11.7	2.59	7.95	4.99	15.31	0.00	0.00	0.00	0.00	23.26
05/26/18	2018	5	26	490.28	25126.8	51	-23.3	2.60	7.96	4.99	15.32	0.00	0.00	0.00	0.00	23.28
05/27/18	2018	5	27	490.23	25097.7	51	-29.1	2.59	7.96	5.02	15.39	0.00	0.00	0.00	0.00	23.35
05/28/18	2018	5	28	490.20	25080.3	51	-17.4	2.59	7.96	4.99	15.32	0.00	0.00	0.00	0.00	23.28
05/29/18	2018	5	29	490.16	25057.0	51	-23.2	2.60	7.97	4.99	15.30	0.00	0.00	0.00	0.00	23.27
05/30/18	2018	5	30	490.12	25033.8	51	-23.2	2.60	7.97	5.00	15.34	0.00	0.00	0.00	0.00	23.31
05/31/18	2018	5	31	490.09	25016.4	51	-17.4	2.59	7.96	5.01	15.39	0.00	0.00	0.00	0.00	23.35



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
06/01/18	2018	6	1	490.05	24993.2	51	-23.2	2.62	8.05	5.00	15.34	0.00	0.00	0.00	0.00	23.39
06/02/18	2018	6	2	490.00	24964.2	51	-29.0	2.67	8.19	4.98	15.27	0.00	0.00	0.00	0.00	23.46
06/03/18	2018	6	3	489.97	24946.8	51	-17.4	2.67	8.19	5.00	15.35	0.00	0.00	0.00	0.00	23.54
06/04/18	2018	6	4	489.95	24935.3	50	-11.6	3.06	9.38	5.02	15.39	0.00	0.00	0.00	0.00	24.77
06/05/18	2018	6	5	489.90	24906.3	50	-28.9	3.27	10.03	5.03	15.43	0.00	0.00	0.00	0.00	25.46
06/06/18	2018	6	6	489.85	24877.4	50	-28.9	3.57	10.96	5.02	15.42	0.00	0.00	0.00	0.00	26.38
06/07/18	2018	6	7	489.80	24848.6	50	-28.9	4.01	12.31	4.78	14.66	0.00	0.00	0.00	0.00	26.97
06/08/18	2018	6	8	489.74	24814.0	50	-34.6	4.16	12.77	5.01	15.37	0.00	0.00	0.00	0.00	28.14
06/09/18	2018	6	9	489.69	24785.1	50	-28.8	4.25	13.03	5.01	15.36	0.00	0.00	0.00	0.00	28.39
06/10/18	2018	6	10	489.63	24750.6	50	-34.5	4.24	13.02	4.99	15.30	0.00	0.00	0.00	0.00	28.32
06/11/18	2018	6	11	489.58	24721.8	50	-28.8	4.25	13.03	5.07	15.56	0.00	0.00	0.00	0.00	28.59
06/12/18	2018	6	12	489.51	24681.6	50	-40.2	4.24	13.01	5.34	16.40	0.00	0.00	0.00	0.00	29.41
06/13/18	2018	6	13	489.42	24630.0	50	-51.6	4.24	13.01	5.42	16.63	0.00	0.00	0.00	0.00	29.64
06/14/18	2018	6	14	489.39	24612.8	50	-17.2	4.24	13.01	5.41	16.60	0.00	0.00	0.00	0.00	29.62
06/15/18	2018	6	15	489.35	24589.9	50	-22.9	4.24	13.00	5.41	16.61	0.00	0.00	0.00	0.00	29.61
06/16/18	2018	6	16	489.29	24555.6	50	-34.3	4.24	13.01	5.41	16.60	0.00	0.00	0.00	0.00	29.61
06/17/18	2018	6	17	489.24	24527.0	50	-28.6	4.24	13.01	5.40	16.57	0.00	0.00	0.00	0.00	29.59
06/18/18	2018	6	18	489.18	24492.7	50	-34.3	4.23	12.99	5.41	16.60	0.00	0.00	0.00	0.00	29.58
06/19/18	2018	6	19	489.12	24458.5	50	-34.2	4.23	12.99	5.42	16.63	0.00	0.00	0.00	0.00	29.62
06/20/18	2018	6	20	489.07	24430.0	49	-28.5	4.23	12.99	5.40	16.58	0.00	0.00	0.00	0.00	29.57
06/21/18	2018	6	21	489.01	24395.8	49	-34.2	4.23	12.97	5.39	16.53	0.00	0.00	0.00	0.00	29.50
06/22/18	2018	6	22	488.96	24367.4	49	-28.4	4.23	12.98	5.41	16.60	0.00	0.00	0.00	0.00	29.57
06/23/18	2018	6	23	488.90	24333.3	49	-34.1	4.23	12.98	5.42	16.65	0.00	0.00	0.00	0.00	29.63
06/24/18	2018	6	24	488.84	24299.3	49	-34.0	4.22	12.95	5.41	16.60	0.00	0.00	0.00	0.00	29.55
06/25/18	2018	6	25	488.77	24259.6	49	-39.7	4.22	12.95	5.20	15.96	0.00	0.00	0.00	0.00	28.91
06/26/18	2018	6	26	488.73	24236.9	49	-22.6	4.17	12.80	4.43	13.61	0.00	0.00	0.00	0.00	26.40



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
06/27/18	2018	6	27	488.69	24214.3	49	-22.6	4.29	13.17	4.99	15.31	0.00	0.00	0.00	0.00	28.48
06/28/18	2018	6	28	488.64	24186.0	49	-28.3	4.31	13.22	4.99	15.30	0.00	0.00	0.00	0.00	28.51
06/29/18	2018	6	29	488.58	24152.2	49	-33.9	4.48	13.73	4.98	15.28	0.00	0.00	0.00	0.00	29.02
06/30/18	2018	6	30	488.52	24118.3	49	-33.8	4.64	14.25	4.96	15.23	0.00	0.00	0.00	0.00	29.48
07/01/18	2018	7	1	488.48	24095.8	49	-22.5	4.65	14.27	4.97	15.26	0.00	0.00	0.00	0.00	29.52
07/02/18	2018	7	2	488.41	24056.3	49	-39.4	4.65	14.28	4.99	15.30	0.00	0.00	0.00	0.00	29.58
07/03/18	2018	7	3	488.35	24022.6	49	-33.7	4.65	14.28	4.98	15.29	0.00	0.00	0.00	0.00	29.57
07/04/18	2018	7	4	488.30	23994.5	49	-28.1	4.67	14.34	4.99	15.30	0.00	0.00	0.00	0.00	29.64
07/05/18	2018	7	5	488.25	23966.4	49	-28.1	4.66	14.31	4.99	15.31	0.00	0.00	0.00	0.00	29.62
07/06/18	2018	7	6	488.21	23944.0	48	-22.4	4.66	14.30	4.99	15.30	0.00	0.00	0.00	0.00	29.60
07/07/18	2018	7	7	488.14	23904.8	48	-39.2	4.66	14.30	4.98	15.29	0.00	0.00	0.00	0.00	29.59
07/08/18	2018	7	8	488.07	23865.6	48	-39.2	4.65	14.28	5.26	16.13	0.00	0.00	0.00	0.00	30.41
07/09/18	2018	7	9	487.99	23820.9	48	-44.7	4.47	13.71	5.74	17.62	0.00	0.00	0.00	0.00	31.33
07/10/18	2018	7	10	487.95	23798.6	48	-22.3	4.24	13.02	6.02	18.48	0.00	0.00	0.00	0.00	31.50
07/11/18	2018	7	11	487.87	23754.0	48	-44.6	4.24	13.00	6.02	18.47	0.00	0.00	0.00	0.00	31.47
07/12/18	2018	7	12	487.82	23726.2	48	-27.8	4.23	12.98	6.01	18.45	0.00	0.00	0.00	0.00	31.43
07/13/18	2018	7	13	487.76	23692.8	48	-33.4	4.24	13.02	6.01	18.44	0.00	0.00	0.00	0.00	31.46
07/14/18	2018	7	14	487.69	23653.9	48	-38.9	4.24	13.00	6.01	18.44	0.00	0.00	0.00	0.00	31.44
07/15/18	2018	7	15	487.63	23620.6	48	-33.3	4.23	12.98	6.00	18.42	0.00	0.00	0.00	0.00	31.40
07/16/18	2018	7	16	487.57	23587.4	48	-33.3	4.23	12.98	6.00	18.41	0.00	0.00	0.00	0.00	31.39
07/17/18	2018	7	17	487.50	23548.6	48	-38.8	4.23	12.98	6.00	18.42	0.00	0.00	0.00	0.00	31.40
07/18/18	2018	7	18	487.44	23515.4	48	-33.2	4.23	12.97	6.01	18.43	0.00	0.00	0.00	0.00	31.40
07/19/18	2018	7	19	487.40	23493.3	48	-22.1	4.23	12.98	5.54	16.99	0.00	0.00	0.00	0.00	29.97
07/20/18	2018	7	20	487.34	23460.2	48	-33.1	4.23	12.97	5.02	15.42	0.00	0.00	0.00	0.00	28.39
07/21/18	2018	7	21	487.28	23427.1	47	-33.1	4.23	12.97	5.02	15.42	0.00	0.00	0.00	0.00	28.39
07/22/18	2018	7	22	487.22	23394.1	47	-33.0	4.23	12.98	5.03	15.43	0.00	0.00	0.00	0.00	28.41



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
07/23/18	2018	7	23	487.16	23361.1	47	-33.0	4.23	12.99	5.03	15.43	0.00	0.00	0.00	0.00	28.41
07/24/18	2018	7	24	487.11	23333.6	47	-27.5	4.23	12.99	5.03	15.42	0.00	0.00	0.00	0.00	28.41
07/25/18	2018	7	25	487.05	23300.7	47	-32.9	4.23	12.99	5.02	15.41	0.00	0.00	0.00	0.00	28.39
07/26/18	2018	7	26	486.98	23262.3	47	-38.4	4.24	13.00	5.02	15.41	0.00	0.00	0.00	0.00	28.41
07/27/18	2018	7	27	486.92	23229.5	47	-32.8	4.24	13.01	5.03	15.43	0.00	0.00	0.00	0.00	28.43
07/28/18	2018	7	28	486.86	23196.7	47	-32.8	4.24	13.00	5.04	15.47	0.00	0.00	0.00	0.00	28.47
07/29/18	2018	7	29	486.81	23169.4	47	-27.3	4.22	12.96	5.09	15.62	0.00	0.00	0.00	0.00	28.59
07/30/18	2018	7	30	486.74	23131.2	47	-38.2	4.22	12.95	5.15	15.81	0.00	0.00	0.00	0.00	28.77
07/31/18	2018	7	31	486.68	23098.5	47	-32.7	4.23	12.97	5.18	15.90	0.00	0.00	0.00	0.00	28.87
08/01/18	2018	8	1	486.62	23065.8	47	-32.7	4.23	12.98	5.18	15.90	0.00	0.00	0.00	0.00	28.88
08/02/18	2018	8	2	486.55	23027.8	47	-38.1	4.22	12.96	5.18	15.89	0.00	0.00	0.00	0.00	28.86
08/03/18	2018	8	3	486.50	23000.6	47	-27.2	4.23	12.98	5.18	15.89	0.00	0.00	0.00	0.00	28.86
08/04/18	2018	8	4	486.45	22973.5	47	-27.1	4.22	12.96	5.17	15.87	0.00	0.00	0.00	0.00	28.82
08/05/18	2018	8	5	486.37	22930.1	46	-43.3	4.22	12.95	5.18	15.89	0.00	0.00	0.00	0.00	28.83
08/06/18	2018	8	6	486.29	22886.8	46	-43.3	4.20	12.89	5.20	15.96	0.00	0.00	0.00	0.00	28.85
08/07/18	2018	8	7	486.22	22849.0	46	-37.8	4.21	12.91	5.20	15.95	0.00	0.00	0.00	0.00	28.86
08/08/18	2018	8	8	486.18	22827.4	46	-21.6	4.21	12.91	4.30	13.19	0.00	0.00	0.00	0.00	26.11
08/09/18	2018	8	9	486.13	22800.5	46	-27.0	4.21	12.93	2.82	8.65	0.00	0.00	0.00	0.00	21.58
08/10/18	2018	8	10	486.08	22773.6	46	-26.9	4.20	12.87	3.99	12.24	0.00	0.00	0.00	0.00	25.11
08/11/18	2018	8	11	486.01	22735.9	46	-37.7	4.19	12.85	5.18	15.88	0.00	0.00	0.00	0.00	28.74
08/12/18	2018	8	12	485.95	22703.6	46	-32.2	4.17	12.81	5.17	15.86	0.00	0.00	0.00	0.00	28.67
08/13/18	2018	8	13	485.88	22666.1	46	-37.6	4.18	12.83	5.17	15.86	0.00	0.00	0.00	0.00	28.69
08/14/18	2018	8	14	485.83	22639.3	46	-26.8	4.18	12.84	5.19	15.94	0.00	0.00	0.00	0.00	28.78
08/15/18	2018	8	15	485.77	22607.1	46	-32.1	4.19	12.85	5.21	15.99	0.00	0.00	0.00	0.00	28.84
08/16/18	2018	8	16	485.72	22580.4	46	-26.7	4.20	12.88	5.21	16.00	0.00	0.00	0.00	0.00	28.88
08/17/18	2018	8	17	485.65	22543.0	46	-37.4	4.19	12.87	5.21	16.00	0.00	0.00	0.00	0.00	28.87



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
08/18/18	2018	8	18	485.60	22516.3	46	-26.7	4.19	12.85	5.21	16.00	0.00	0.00	0.00	0.00	28.85
08/19/18	2018	8	19	485.53	22479.0	46	-37.3	4.20	12.87	5.21	15.99	0.00	0.00	0.00	0.00	28.87
08/20/18	2018	8	20	485.48	22452.4	45	-26.6	4.20	12.87	5.21	15.98	0.00	0.00	0.00	0.00	28.86
08/21/18	2018	8	21	485.40	22409.8	45	-42.5	4.20	12.88	5.19	15.93	0.00	0.00	0.00	0.00	28.80
08/22/18	2018	8	22	485.36	22388.6	45	-21.2	4.20	12.87	5.20	15.95	0.00	0.00	0.00	0.00	28.82
08/23/18	2018	8	23	485.32	22367.4	45	-21.2	4.17	12.79	5.36	16.44	0.00	0.00	0.00	0.00	29.23
08/24/18	2018	8	24	485.28	22346.2	45	-21.2	4.17	12.80	5.48	16.82	0.00	0.00	0.00	0.00	29.62
08/25/18	2018	8	25	485.22	22314.4	45	-31.8	4.17	12.80	5.51	16.92	0.00	0.00	0.00	0.00	29.72
08/26/18	2018	8	26	485.15	22277.3	45	-37.0	4.17	12.79	5.50	16.89	0.00	0.00	0.00	0.00	29.68
08/27/18	2018	8	27	485.09	22245.6	45	-31.7	4.18	12.82	5.50	16.88	0.00	0.00	0.00	0.00	29.70
08/28/18	2018	8	28	485.03	22214.0	45	-31.7	4.17	12.80	5.50	16.88	0.00	0.00	0.00	0.00	29.68
08/29/18	2018	8	29	484.96	22177.1	45	-36.9	4.17	12.79	5.50	16.87	0.00	0.00	0.00	0.00	29.66
08/30/18	2018	8	30	484.90	22145.5	45	-31.6	4.17	12.80	5.21	15.99	0.00	0.00	0.00	0.00	28.78
08/31/18	2018	8	31	484.84	22113.9	45	-31.5	4.17	12.80	5.01	15.36	0.00	0.00	0.00	0.00	28.16
09/01/18	2018	9	1	484.78	22082.4	45	-31.5	4.16	12.77	5.00	15.35	0.00	0.00	0.00	0.00	28.11
09/02/18	2018	9	2	484.72	22051.0	45	-31.5	4.14	12.71	4.99	15.33	0.00	0.00	0.00	0.00	28.04
09/03/18	2018	9	3	484.67	22024.8	45	-26.2	4.15	12.73	4.99	15.31	0.00	0.00	0.00	0.00	28.05
09/04/18	2018	9	4	484.60	21988.1	45	-36.6	4.17	12.79	5.98	18.37	0.00	0.00	0.00	0.00	31.15
09/05/18	2018	9	5	484.56	21967.2	44	-20.9	4.17	12.78	4.98	15.28	0.00	0.00	0.00	0.00	28.07
09/06/18	2018	9	6	484.49	21930.7	44	-36.6	4.17	12.80	4.98	15.29	0.00	0.00	0.00	0.00	28.09
09/07/18	2018	9	7	484.43	21899.4	44	-31.3	4.17	12.79	4.98	15.29	0.00	0.00	0.00	0.00	28.08
09/08/18	2018	9	8	484.37	21868.1	44	-31.3	4.17	12.79	4.98	15.27	0.00	0.00	0.00	0.00	28.07
09/09/18	2018	9	9	484.31	21836.9	44	-31.2	4.16	12.76	4.97	15.26	0.00	0.00	0.00	0.00	28.02
09/10/18	2018	9	10	484.25	21805.7	44	-31.2	4.16	12.77	4.96	15.22	0.00	0.00	0.00	0.00	27.99
09/11/18	2018	9	11	484.20	21779.8	44	-26.0	4.16	12.77	4.96	15.22	0.00	0.00	0.00	0.00	28.00
09/12/18	2018	9	12	484.14	21748.7	44	-31.1	4.16	12.77	4.96	15.21	0.00	0.00	0.00	0.00	27.99



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
09/13/18	2018	9	13	484.07	21712.4	44	-36.2	4.16	12.77	4.95	15.19	0.00	0.00	0.00	0.00	27.96
09/14/18	2018	9	14	484.02	21686.6	44	-25.9	4.15	12.74	4.96	15.23	0.00	0.00	0.00	0.00	27.97
09/15/18	2018	9	15	483.97	21660.7	44	-25.8	4.16	12.76	4.97	15.24	0.00	0.00	0.00	0.00	28.00
09/16/18	2018	9	16	483.90	21624.6	44	-36.1	4.16	12.76	4.96	15.23	0.00	0.00	0.00	0.00	27.98
09/17/18	2018	9	17	483.84	21593.7	44	-30.9	4.15	12.74	4.96	15.23	0.00	0.00	0.00	0.00	27.97
09/18/18	2018	9	18	483.78	21562.8	44	-30.9	4.15	12.72	4.99	15.31	0.00	0.00	0.00	0.00	28.03
09/19/18	2018	9	19	483.72	21531.9	44	-30.8	4.15	12.73	4.97	15.26	0.00	0.00	0.00	0.00	27.99
09/20/18	2018	9	20	483.66	21501.1	44	-30.8	4.14	12.71	4.97	15.26	0.00	0.00	0.00	0.00	27.97
09/21/18	2018	9	21	483.61	21475.5	43	-25.6	4.15	12.74	4.97	15.26	0.00	0.00	0.00	0.00	27.99
09/22/18	2018	9	22	483.55	21444.7	43	-30.7	4.14	12.71	4.97	15.24	0.00	0.00	0.00	0.00	27.95
09/23/18	2018	9	23	483.50	21419.2	43	-25.6	4.14	12.72	4.96	15.23	0.00	0.00	0.00	0.00	27.95
09/24/18	2018	9	24	483.45	21393.6	43	-25.6	4.15	12.72	4.96	15.22	0.00	0.00	0.00	0.00	27.95
09/25/18	2018	9	25	483.40	21368.1	43	-25.5	4.14	12.72	4.96	15.21	0.00	0.00	0.00	0.00	27.92
09/26/18	2018	9	26	483.35	21342.5	43	-25.5	4.14	12.72	4.95	15.20	0.00	0.00	0.00	0.00	27.92
09/27/18	2018	9	27	483.30	21317.1	43	-25.5	4.14	12.70	4.95	15.20	0.00	0.00	0.00	0.00	27.91
09/28/18	2018	9	28	483.22	21276.3	43	-40.7	4.14	12.71	4.95	15.20	0.00	0.00	0.00	0.00	27.91
09/29/18	2018	9	29	483.17	21250.9	43	-25.4	4.14	12.71	4.95	15.19	0.00	0.00	0.00	0.00	27.90
09/30/18	2018	9	30	483.12	21225.5	43	-25.4	4.14	12.71	4.95	15.19	0.00	0.00	0.00	0.00	27.89
10/01/18	2018	10	1	483.07	21200.2	43	-25.4	4.14	12.70	4.96	15.22	0.00	0.00	0.00	0.00	27.92
10/02/18	2018	10	2	482.99	21159.6	43	-40.5	4.14	12.69	4.96	15.22	0.00	0.00	0.00	0.00	27.92
10/03/18	2018	10	3	482.95	21139.4	43	-20.2	4.14	12.70	4.63	14.19	0.00	0.00	0.00	0.00	26.89
10/04/18	2018	10	4	482.96	21144.5	43	5.1	4.14	12.71	4.24	13.00	0.00	0.00	0.00	0.00	25.71
10/05/18	2018	10	5	482.91	21119.2	43	-25.3	4.14	12.72	4.24	13.00	0.00	0.00	0.00	0.00	25.71
10/06/18	2018	10	6	482.87	21099.0	43	-20.2	4.14	12.72	4.11	12.61	0.00	0.00	0.00	0.00	25.33
10/07/18	2018	10	7	482.82	21073.7	43	-25.2	4.14	12.72	4.04	12.38	0.00	0.00	0.00	0.00	25.10
10/08/18	2018	10	8	482.77	21048.5	43	-25.2	4.14	12.72	4.03	12.37	0.00	0.00	0.00	0.00	25.09



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
10/09/18	2018	10	9	482.73	21028.4	43	-20.1	4.14	12.71	4.03	12.36	0.00	0.00	0.00	0.00	25.07
10/10/18	2018	10	10	482.69	21008.3	43	-20.1	4.14	12.71	4.02	12.34	0.00	0.00	0.00	0.00	25.06
10/11/18	2018	10	11	482.64	20983.1	42	-25.1	4.15	12.74	4.02	12.33	0.00	0.00	0.00	0.00	25.06
10/12/18	2018	10	12	482.58	20953.0	42	-30.1	4.01	12.31	4.16	12.78	0.00	0.00	0.00	0.00	25.09
10/13/18	2018	10	13	482.52	20922.9	42	-30.1	4.15	12.73	4.01	12.31	0.00	0.00	0.00	0.00	25.04
10/14/18	2018	10	14	482.49	20907.9	42	-15.0	4.15	12.72	4.01	12.31	0.00	0.00	0.00	0.00	25.03
10/15/18	2018	10	15	482.43	20877.8	42	-30.0	4.14	12.70	4.01	12.31	0.00	0.00	0.00	0.00	25.01
10/16/18	2018	10	16	482.38	20852.8	42	-25.0	4.14	12.70	4.01	12.29	0.00	0.00	0.00	0.00	24.99
10/17/18	2018	10	17	482.33	20827.8	42	-25.0	4.13	12.68	4.11	12.61	0.00	0.00	0.00	0.00	25.29
10/18/18	2018	10	18	482.28	20802.9	42	-25.0	4.13	12.68	4.27	13.10	0.00	0.00	0.00	0.00	25.77
10/19/18	2018	10	19	482.22	20773.0	42	-29.9	4.13	12.67	4.29	13.17	0.00	0.00	0.00	0.00	25.84
10/20/18	2018	10	20	482.16	20743.1	42	-29.9	4.12	12.66	4.41	13.55	0.00	0.00	0.00	0.00	26.20
10/21/18	2018	10	21	482.09	20708.3	42	-34.8	4.12	12.64	4.66	14.31	0.00	0.00	0.00	0.00	26.95
10/22/18	2018	10	22	482.05	20688.4	42	-19.9	4.11	12.63	4.78	14.66	0.00	0.00	0.00	0.00	27.29
10/23/18	2018	10	23	482.00	20663.6	42	-24.8	4.11	12.63	4.90	15.04	0.00	0.00	0.00	0.00	27.67
10/24/18	2018	10	24	481.94	20633.9	42	-29.7	4.11	12.62	5.02	15.39	0.00	0.00	0.00	0.00	28.01
10/25/18	2018	10	25	481.88	20604.2	42	-29.7	4.11	12.61	5.02	15.41	0.00	0.00	0.00	0.00	28.02
10/26/18	2018	10	26	481.82	20574.5	42	-29.7	4.11	12.62	5.02	15.40	0.00	0.00	0.00	0.00	28.02
10/27/18	2018	10	27	481.76	20544.9	42	-29.6	4.11	12.61	5.03	15.43	0.00	0.00	0.00	0.00	28.04
10/28/18	2018	10	28	481.70	20515.3	42	-29.6	4.11	12.61	5.03	15.43	0.00	0.00	0.00	0.00	28.04
10/29/18	2018	10	29	481.64	20485.8	41	-29.5	4.11	12.60	5.03	15.44	0.00	0.00	0.00	0.00	28.04
10/30/18	2018	10	30	481.58	20456.3	41	-29.5	4.11	12.60	5.03	15.43	0.00	0.00	0.00	0.00	28.04
10/31/18	2018	10	31	481.50	20417.0	41	-39.3	4.10	12.59	5.16	15.85	0.00	0.00	0.00	0.00	28.44
11/01/18	2018	11	1	481.50	20417.0	41	0.0	4.10	12.57	5.27	16.19	0.00	0.00	0.00	0.00	28.75
11/02/18	2018	11	2	481.41	20372.9	41	-44.1	4.10	12.58	5.27	16.19	0.00	0.00	0.00	0.00	28.77
11/03/18	2018	11	3	481.36	20348.4	41	-24.5	4.10	12.58	5.28	16.20	0.00	0.00	0.00	0.00	28.78



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
11/04/18	2018	11	4	481.29	20314.2	41	-34.2	4.10	12.57	5.29	16.23	0.00	0.00	0.00	0.00	28.80
11/05/18	2018	11	5	481.23	20284.9	41	-29.3	4.25	13.06	5.43	16.65	0.00	0.00	0.00	0.00	29.71
11/06/18	2018	11	6	481.15	20245.9	41	-39.0	4.14	12.69	5.70	17.48	0.00	0.00	0.00	0.00	30.18
11/07/18	2018	11	7	481.10	20221.6	41	-24.3	4.14	12.69	5.71	17.52	0.00	0.00	0.00	0.00	30.22
11/08/18	2018	11	8	481.03	20187.5	41	-34.0	4.14	12.69	5.71	17.52	0.00	0.00	0.00	0.00	30.22
11/09/18	2018	11	9	480.97	20158.4	41	-29.1	4.13	12.68	5.74	17.62	0.00	0.00	0.00	0.00	30.31
11/10/18	2018	11	10	480.89	20119.6	41	-38.8	4.13	12.68	5.74	17.60	0.00	0.00	0.00	0.00	30.28
11/11/18	2018	11	11	480.82	20085.7	41	-33.9	4.13	12.66	5.73	17.58	0.00	0.00	0.00	0.00	30.24
11/12/18	2018	11	12	480.77	20061.6	41	-24.2	4.13	12.67	5.73	17.58	0.00	0.00	0.00	0.00	30.25
11/13/18	2018	11	13	480.69	20023.0	41	-38.6	4.13	12.67	5.73	17.59	0.00	0.00	0.00	0.00	30.26
11/14/18	2018	11	14	480.63	19994.1	40	-28.9	4.13	12.66	5.73	17.58	0.00	0.00	0.00	0.00	30.24
11/15/18	2018	11	15	480.57	19965.2	40	-28.9	4.12	12.65	5.72	17.54	0.00	0.00	0.00	0.00	30.19
11/16/18	2018	11	16	480.49	19926.7	40	-38.4	4.13	12.66	5.72	17.55	0.00	0.00	0.00	0.00	30.21
11/17/18	2018	11	17	480.43	19897.9	40	-28.8	4.12	12.64	5.78	17.74	0.00	0.00	0.00	0.00	30.38
11/18/18	2018	11	18	480.38	19874.0	40	-24.0	4.12	12.63	5.78	17.74	0.00	0.00	0.00	0.00	30.37
11/19/18	2018	11	19	480.32	19845.3	40	-28.7	4.12	12.63	5.78	17.75	0.00	0.00	0.00	0.00	30.38
11/20/18	2018	11	20	480.28	19826.1	40	-19.1	4.12	12.64	5.78	17.74	0.00	0.00	0.00	0.00	30.38
11/21/18	2018	11	21	480.23	19802.3	40	-23.9	4.12	12.64	5.20	15.96	0.00	0.00	0.00	0.00	28.60
11/22/18	2018	11	22	480.24	19807.0	40	4.8	4.13	12.66	4.16	12.77	0.00	0.00	0.00	0.00	25.43
11/23/18	2018	11	23	480.21	19792.7	40	-14.3	4.14	12.70	4.01	12.31	0.00	0.00	0.00	0.00	25.01
11/24/18	2018	11	24	480.18	19778.4	40	-14.3	4.13	12.69	4.01	12.30	0.00	0.00	0.00	0.00	24.99
11/25/18	2018	11	25	480.13	19754.6	40	-23.8	4.13	12.66	4.00	12.28	0.00	0.00	0.00	0.00	24.94
11/26/18	2018	11	26	480.08	19730.8	40	-23.8	4.13	12.67	4.00	12.27	0.00	0.00	0.00	0.00	24.94
11/27/18	2018	11	27	480.04	19711.7	40	-19.0	4.07	12.50	4.00	12.27	0.00	0.00	0.00	0.00	24.77
11/28/18	2018	11	28	480.00	19692.7	40	-19.0	3.97	12.18	3.65	11.20	0.00	0.00	0.00	0.00	23.38
11/29/18	2018	11	29	480.09	19735.5	40	42.8	3.96	12.14	1.49	4.56	0.00	0.00	0.00	0.00	16.71



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
11/30/18	2018	11	30	480.12	19749.8	40	14.3	3.84	11.78	3.39	10.41	0.00	0.00	0.00	0.00	22.18
12/01/18	2018	12	1	480.13	19754.6	40	4.8	3.67	11.26	0.02	0.06	0.00	0.00	0.00	0.00	11.32
12/02/18	2018	12	2	480.13	19754.6	40	0.0	3.67	11.25	0.02	0.05	0.00	0.00	0.00	0.00	11.30
12/03/18	2018	12	3	480.11	19745.0	40	-9.5	3.66	11.23	2.04	6.25	0.00	0.00	0.00	0.00	17.47
12/04/18	2018	12	4	480.09	19735.5	40	-9.5	3.53	10.83	3.03	9.30	0.00	0.00	0.00	0.00	20.13
12/05/18	2018	12	5	480.05	19716.5	40	-19.0	3.33	10.22	2.03	6.23	0.00	0.00	0.00	0.00	16.45
12/06/18	2018	12	6	480.04	19711.7	40	-4.8	3.34	10.26	0.01	0.02	0.00	0.00	0.00	0.00	10.27
12/07/18	2018	12	7	480.02	19702.2	40	-9.5	3.34	10.25	0.06	0.17	0.00	0.00	0.00	0.00	10.43
12/08/18	2018	12	8	480.00	19692.7	40	-9.5	3.34	10.25	0.06	0.17	0.00	0.00	0.00	0.00	10.42
12/09/18	2018	12	9	479.99	19688.0	40	-4.7	3.34	10.25	0.06	0.17	0.00	0.00	0.00	0.00	10.42
12/10/18	2018	12	10	479.97	19678.5	40	-9.5	3.34	10.25	0.06	0.17	0.00	0.00	0.00	0.00	10.42
12/11/18	2018	12	11	479.95	19669.0	40	-9.5	3.34	10.25	0.06	0.17	0.00	0.00	0.00	0.00	10.42
12/12/18	2018	12	12	479.92	19654.8	40	-14.2	3.34	10.25	0.04	0.12	0.00	0.00	0.00	0.00	10.36
12/13/18	2018	12	13	479.90	19645.3	40	-9.5	3.34	10.24	0.03	0.09	0.00	0.00	0.00	0.00	10.33
12/14/18	2018	12	14	479.90	19645.3	40	0.0	3.34	10.25	0.03	0.09	0.00	0.00	0.00	0.00	10.34
12/15/18	2018	12	15	479.89	19640.5	40	-4.7	3.34	10.25	0.03	0.09	0.00	0.00	0.00	0.00	10.34
12/16/18	2018	12	16	479.89	19640.5	40	0.0	3.32	10.20	2.66	8.16	0.00	0.00	0.00	0.00	18.36
12/17/18	2018	12	17	479.89	19640.5	40	0.0	3.32	10.20	3.48	10.69	0.00	0.00	0.00	0.00	20.89
12/18/18	2018	12	18	479.88	19635.8	40	-4.7	3.33	10.21	3.49	10.70	0.00	0.00	0.00	0.00	20.91
12/19/18	2018	12	19	479.84	19616.9	40	-18.9	3.32	10.19	3.49	10.70	0.00	0.00	0.00	0.00	20.89
12/20/18	2018	12	20	479.81	19602.7	40	-14.2	3.32	10.19	3.64	11.17	0.00	0.00	0.00	0.00	21.37
12/21/18	2018	12	21	479.78	19588.5	40	-14.2	3.32	10.18	3.75	11.50	0.00	0.00	0.00	0.00	21.68
12/22/18	2018	12	22	479.75	19574.3	40	-14.2	3.32	10.18	3.75	11.51	0.00	0.00	0.00	0.00	21.68
12/23/18	2018	12	23	479.71	19555.4	40	-18.9	3.32	10.19	3.75	11.50	0.00	0.00	0.00	0.00	21.69
12/24/18	2018	12	24	479.68	19541.3	40	-14.2	3.31	10.17	3.75	11.51	0.00	0.00	0.00	0.00	21.67
12/25/18	2018	12	25	479.70	19550.7	40	9.4	3.32	10.17	3.75	11.50	0.00	0.00	0.00	0.00	21.67



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
12/26/18	2018	12	26	479.68	19541.3	40	-9.4	3.32	10.17	3.75	11.50	0.00	0.00	0.00	0.00	21.67
12/27/18	2018	12	27	479.65	19527.1	40	-14.1	3.31	10.17	3.75	11.50	0.00	0.00	0.00	0.00	21.67
12/28/18	2018	12	28	479.62	19513.0	40	-14.1	3.31	10.16	3.75	11.50	0.00	0.00	0.00	0.00	21.65
12/29/18	2018	12	29	479.59	19498.8	39	-14.1	3.32	10.17	3.75	11.49	0.00	0.00	0.00	0.00	21.67
12/30/18	2018	12	30	479.53	19470.6	39	-28.2	3.31	10.16	3.74	11.48	0.00	0.00	0.00	0.00	21.65
12/31/18	2018	12	31	479.50	19456.5	39	-14.1	3.31	10.14	3.74	11.48	0.00	0.00	0.00	0.00	21.62
01/01/19	2019	1	1	479.46	19437.7	39	-18.8	3.31	10.16	3.74	11.47	0.00	0.00	0.00	0.00	21.63
01/02/19	2019	1	2	479.43	19423.7	39	-14.1	3.22	9.87	3.74	11.48	0.00	0.00	0.00	0.00	21.35
01/03/19	2019	1	3	479.39	19404.9	39	-18.8	3.05	9.35	3.74	11.47	0.00	0.00	0.00	0.00	20.82
01/04/19	2019	1	4	479.35	19386.2	39	-18.7	3.04	9.33	3.90	11.97	0.00	0.00	0.00	0.00	21.30
01/05/19	2019	1	5	479.32	19372.1	39	-14.0	3.04	9.33	4.04	12.39	0.00	0.00	0.00	0.00	21.72
01/06/19	2019	1	6	479.41	19414.3	39	42.2	3.03	9.31	4.04	12.38	0.00	0.00	0.00	0.00	21.69
01/07/19	2019	1	7	479.52	19465.9	39	51.6	3.03	9.30	4.04	12.40	0.00	0.00	0.00	0.00	21.70
01/08/19	2019	1	8	479.62	19513.0	40	47.1	2.92	8.95	4.04	12.40	0.00	0.00	0.00	0.00	21.35
01/09/19	2019	1	9	479.63	19517.7	40	4.7	2.74	8.40	4.04	12.40	0.00	0.00	0.00	0.00	20.81
01/10/19	2019	1	10	479.66	19531.8	40	14.1	2.74	8.41	4.04	12.40	0.00	0.00	0.00	0.00	20.81
01/11/19	2019	1	11	479.65	19527.1	40	-4.7	2.18	6.68	4.04	12.40	0.00	0.00	0.00	0.00	19.08
01/12/19	2019	1	12	479.68	19541.3	40	14.1	1.86	5.72	4.04	12.40	0.00	0.00	0.00	0.00	18.12
01/13/19	2019	1	13	479.70	19550.7	40	9.4	1.86	5.72	4.04	12.41	0.00	0.00	0.00	0.00	18.13
01/14/19	2019	1	14	479.72	19560.1	40	9.4	1.86	5.70	4.04	12.38	0.00	0.00	0.00	0.00	18.08
01/15/19	2019	1	15	479.71	19555.4	40	-4.7	1.86	5.71	4.04	12.39	0.00	0.00	0.00	0.00	18.11
01/16/19	2019	1	16	479.71	19555.4	40	0.0	1.86	5.71	4.04	12.40	0.00	0.00	0.00	0.00	18.10
01/17/19	2019	1	17	480.08	19730.8	40	175.4	1.89	5.81	2.42	7.44	0.00	0.00	0.00	0.00	13.25
01/18/19	2019	1	18	480.61	19984.4	40	253.7	1.86	5.71	2.55	7.83	0.00	0.00	0.00	0.00	13.53
01/19/19	2019	1	19	480.68	20018.2	41	33.7	1.87	5.73	2.55	7.83	0.00	0.00	0.00	0.00	13.56
01/20/19	2019	1	20	480.72	20037.4	41	19.3	1.86	5.71	2.55	7.83	0.00	0.00	0.00	0.00	13.54



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
01/21/19	2019	1	21	480.77	20061.6	41	24.1	1.86	5.71	2.55	7.82	0.00	0.00	0.00	0.00	13.53
01/22/19	2019	1	22	480.78	20066.4	41	4.8	1.86	5.72	2.55	7.82	0.00	0.00	0.00	0.00	13.54
01/23/19	2019	1	23	480.78	20066.4	41	0.0	1.87	5.75	2.55	7.82	0.00	0.00	0.00	0.00	13.56
01/24/19	2019	1	24	480.78	20066.4	41	0.0	1.87	5.75	2.55	7.82	0.00	0.00	0.00	0.00	13.57
01/25/19	2019	1	25	480.78	20066.4	41	0.0	1.87	5.75	2.54	7.81	0.00	0.00	0.00	0.00	13.55
01/26/19	2019	1	26	480.78	20066.4	41	0.0	1.87	5.75	2.54	7.81	0.00	0.00	0.00	0.00	13.55
01/27/19	2019	1	27	480.77	20061.6	41	-4.8	1.87	5.75	2.54	7.80	0.00	0.00	0.00	0.00	13.54
01/28/19	2019	1	28	480.77	20061.6	41	0.0	1.87	5.75	2.54	7.80	0.00	0.00	0.00	0.00	13.54
01/29/19	2019	1	29	480.77	20061.6	41	0.0	1.90	5.82	2.54	7.80	0.00	0.00	0.00	0.00	13.62
01/30/19	2019	1	30	480.77	20061.6	41	0.0	1.90	5.84	2.54	7.80	0.00	0.00	0.00	0.00	13.64
01/31/19	2019	1	31	480.89	20119.6	41	58.0	1.91	5.85	2.54	7.80	0.00	0.00	0.00	0.00	13.64
02/01/19	2019	2	1	480.91	20129.3	41	9.7	1.92	5.89	2.54	7.80	0.00	0.00	0.00	0.00	13.69
02/02/19	2019	2	2	481.00	20173.0	41	43.6	1.92	5.88	2.23	6.85	0.00	0.00	0.00	0.00	12.73
02/03/19	2019	2	3	481.87	20599.2	42	426.3	1.93	5.92	2.02	6.21	0.00	0.00	0.00	0.00	12.14
02/04/19	2019	2	4	483.11	21220.5	43	621.2	1.95	5.98	1.79	5.48	0.00	0.00	0.00	0.00	11.45
02/05/19	2019	2	5	484.10	21727.9	44	507.5	1.97	6.04	1.52	4.67	0.00	0.00	0.00	0.00	10.71
02/06/19	2019	2	6	484.50	21935.9	44	207.9	1.96	6.02	1.50	4.61	0.00	0.00	0.00	0.00	10.63
02/07/19	2019	2	7	484.71	22045.7	45	109.8	1.96	6.02	1.51	4.62	0.00	0.00	0.00	0.00	10.63
02/08/19	2019	2	8	484.84	22113.9	45	68.2	1.96	6.02	1.58	4.85	0.00	0.00	0.00	0.00	10.87
02/09/19	2019	2	9	484.96	22177.1	45	63.1	1.95	5.99	1.81	5.54	0.00	0.00	0.00	0.00	11.53
02/10/19	2019	2	10	485.20	22303.8	45	126.7	1.95	6.00	1.74	5.34	0.00	0.00	0.00	0.00	11.34
02/11/19	2019	2	11	485.44	22431.1	45	127.3	1.96	6.01	2.22	6.82	0.00	0.00	0.00	0.00	12.83
02/12/19	2019	2	12	485.65	22543.0	46	111.9	1.97	6.04	2.72	8.36	0.00	0.00	0.00	0.00	14.40
02/13/19	2019	2	13	485.80	22623.2	46	80.2	1.95	5.98	2.95	9.05	0.00	0.00	0.00	0.00	15.04
02/14/19	2019	2	14	485.94	22698.3	46	75.1	1.96	6.00	2.96	9.07	0.00	0.00	0.00	0.00	15.08
02/15/19	2019	2	15	486.48	22989.8	47	291.5	1.96	6.01	2.96	9.09	0.00	0.00	0.00	0.00	15.10



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
02/16/19	2019	2	16	486.94	23240.4	47	250.7	1.97	6.04	2.97	9.11	0.00	0.00	0.00	0.00	15.14
02/17/19	2019	2	17	487.32	23449.2	47	208.8	1.98	6.06	2.82	8.65	0.00	0.00	0.00	0.00	14.72
02/18/19	2019	2	18	487.50	23548.6	48	99.4	1.98	6.09	2.69	8.24	0.00	0.00	0.00	0.00	14.33
02/19/19	2019	2	19	487.70	23659.5	48	110.9	1.98	6.09	3.28	10.05	0.00	0.00	0.00	0.00	16.14
02/20/19	2019	2	20	487.82	23726.2	48	66.7	1.99	6.10	3.27	10.05	0.00	0.00	0.00	0.00	16.14
02/21/19	2019	2	21	488.00	23826.5	48	100.3	1.99	6.09	2.68	8.23	0.00	0.00	0.00	0.00	14.32
02/22/19	2019	2	22	488.13	23899.2	48	72.7	2.00	6.12	2.68	8.21	0.00	0.00	0.00	0.00	14.34
02/23/19	2019	2	23	488.22	23949.6	48	50.4	1.99	6.12	2.67	8.21	0.00	0.00	0.00	0.00	14.33
02/24/19	2019	2	24	488.27	23977.7	49	28.0	1.99	6.10	2.68	8.21	0.00	0.00	0.00	0.00	14.31
02/25/19	2019	2	25	488.36	24028.2	49	50.6	1.99	6.09	2.67	8.21	0.00	0.00	0.00	0.00	14.30
02/26/19	2019	2	26	488.41	24056.3	49	28.1	1.98	6.08	2.67	8.19	0.00	0.00	0.00	0.00	14.27
02/27/19	2019	2	27	488.51	24112.7	49	56.3	1.98	6.09	2.68	8.21	0.00	0.00	0.00	0.00	14.30
02/28/19	2019	2	28	488.60	24163.4	49	50.8	1.98	6.09	1.70	5.23	0.00	0.00	0.00	0.00	11.32
03/01/19	2019	3	1	488.69	24,214.3	49	50.9	1.99	6.09	0.84	2.58	0.00	0.00	0.00	0.00	8.68
03/02/19	2019	3	2	488.90	24,333.3	49	119.0	1.99	6.10	2.72	8.35	0.00	0.00	0.00	0.00	14.45
03/03/19	2019	3	3	489.72	24,802.4	50	469.1	1.99	6.11	2.73	8.37	0.00	0.00	0.00	0.00	14.47
03/04/19	2019	3	4	490.34	25,161.8	51	359.3	2.00	6.14	2.72	8.35	0.00	0.00	0.00	0.00	14.49
03/05/19	2019	3	5	490.70	25,372.3	51	210.5	2.01	6.16	2.66	8.17	0.00	0.00	0.00	0.00	14.33
03/06/19	2019	3	6	491.54	25,868.7	52	496.4	2.06	6.33	2.06	6.33	0.00	0.00	0.00	0.00	12.67
03/07/19	2019	3	7	492.72	26,578.4	54	709.7	2.02	6.21	2.07	6.35	0.00	0.00	0.00	0.00	12.56
03/08/19	2019	3	8	493.39	26,987.9	55	409.5	2.03	6.23	2.07	6.36	0.00	0.00	0.00	0.00	12.59
03/09/19	2019	3	9	493.85	27,271.7	55	283.8	2.04	6.25	2.40	7.36	0.00	0.00	0.00	0.00	13.61
03/10/19	2019	3	10	494.19	27,482.9	56	211.2	2.04	6.25	2.54	7.80	0.00	0.00	0.00	0.00	14.05
03/11/19	2019	3	11	494.50	27,676.5	56	193.6	2.04	6.26	2.54	7.80	0.00	0.00	0.00	0.00	14.07
03/12/19	2019	3	12	494.69	27,795.7	56	119.2	2.05	6.28	2.54	7.81	0.00	0.00	0.00	0.00	14.08
03/13/19	2019	3	13	494.88	27,915.2	57	119.5	2.05	6.28	2.55	7.82	0.00	0.00	0.00	0.00	14.10



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(AF)
03/14/19	2019	3	14	495.05	28,022.5	57	107.3	2.05	6.28	2.55	7.82	0.00	0.00	0.00	0.00	14.10
03/15/19	2019	3	15	495.18	28,104.7	57	82.2	2.05	6.28	2.55	7.82	0.00	0.00	0.00	0.00	14.10
03/16/19	2019	3	16	495.30	28,180.8	57	76.1	2.05	6.29	2.55	7.83	0.00	0.00	0.00	0.00	14.12
03/17/19	2019	3	17	495.41	28,250.6	57	69.9	2.05	6.29	2.55	7.82	0.00	0.00	0.00	0.00	14.11
03/18/19	2019	3	18	495.52	28,320.6	57	70.0	2.05	6.29	2.55	7.83	0.00	0.00	0.00	0.00	14.12
03/19/19	2019	3	19	495.60	28,371.6	57	51.0	2.05	6.29	2.55	7.83	0.00	0.00	0.00	0.00	14.12
03/20/19	2019	3	20	495.72	28,448.2	58	76.6	2.04	6.26	2.55	7.83	0.00	0.00	0.00	0.00	14.09
03/21/19	2019	3	21	495.88	28,550.6	58	102.4	1.82	5.59	2.55	7.84	0.00	0.00	0.00	0.00	13.42
03/22/19	2019	3	22	495.98	28,614.7	58	64.1	2.04	6.26	2.67	8.20	0.00	0.00	0.00	0.00	14.46
03/23/19	2019	3	23	496.05	28,659.6	58	44.9	2.04	6.26	2.75	8.44	0.00	0.00	0.00	0.00	14.70
03/24/19	2019	3	24	496.15	28,723.9	58	64.3	2.04	6.26	2.75	8.44	0.00	0.00	0.00	0.00	14.70
03/25/19	2019	3	25	496.20	28,756.1	58	32.2	2.05	6.30	2.76	8.47	0.00	0.00	0.00	0.00	14.77
03/26/19	2019	3	26	496.27	28,801.2	58	45.1	2.06	6.32	2.90	8.91	0.00	0.00	0.00	0.00	15.23
03/27/19	2019	3	27	496.34	28,846.3	58	45.2	2.06	6.31	3.01	9.23	0.00	0.00	0.00	0.00	15.54
03/28/19	2019	3	28	496.44	28,910.9	59	64.6	2.06	6.32	3.01	9.23	0.00	0.00	0.00	0.00	15.55
03/29/19	2019	3	29	496.50	28,949.7	59	38.8	2.06	6.31	2.98	9.16	0.00	0.00	0.00	0.00	15.47
03/30/19	2019	3	30	496.54	28,975.6	59	25.9	2.06	6.32	2.98	9.14	0.00	0.00	0.00	0.00	15.46
03/31/19	2019	3	31	496.59	29,008.0	59	32.4	2.07	6.34	2.98	9.13	0.00	0.00	0.00	0.00	15.47
04/01/19	2019	4	1	496.63	29,033.9	59	25.9	2.06	6.33	2.98	9.14	0.00	0.00	0.00	0.00	15.47
04/02/19	2019	4	2	496.69	29,072.9	59	38.9	2.07	6.34	2.98	9.14	0.00	0.00	0.00	0.00	15.48
04/03/19	2019	4	3	496.73	29,098.8	59	26.0	2.06	6.33	2.98	9.13	0.00	0.00	0.00	0.00	15.47
04/04/19	2019	4	4	496.77	29,124.8	59	26.0	2.06	6.33	2.98	9.15	0.00	0.00	0.00	0.00	15.48
04/05/19	2019	4	5	496.82	29,157.3	59	32.5	2.06	6.33	2.98	9.15	0.00	0.00	0.00	0.00	15.48
04/06/19	2019	4	6	496.86	29,183.3	59	26.0	2.06	6.33	2.98	9.13	0.00	0.00	0.00	0.00	15.46
04/07/19	2019	4	7	496.89	29,202.9	59	19.5	2.07	6.34	2.98	9.14	0.00	0.00	0.00	0.00	15.48
04/08/19	2019	4	8	496.92	29,222.4	59	19.5	1.96	6.00	3.02	9.26	0.00	0.00	0.00	0.00	15.26



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
04/09/19	2019	4	9	496.93	29,228.9	59	6.5	1.82	5.58	3.05	9.35	0.00	0.00	0.00	0.00	14.93
04/10/19	2019	4	10	496.97	29,255.0	59	26.1	1.82	5.59	2.49	7.63	0.00	0.00	0.00	0.00	13.22
04/11/19	2019	4	11	496.99	29,268.0	59	13.0	1.82	5.60	2.00	6.13	0.00	0.00	0.00	0.00	11.72
04/12/19	2019	4	12	497.02	29,287.6	59	19.6	1.82	5.60	3.96	12.14	0.00	0.00	0.00	0.00	17.74
04/13/19	2019	4	13	497.03	29,294.1	59	6.5	1.82	5.59	4.34	13.32	0.00	0.00	0.00	0.00	18.91
04/14/19	2019	4	14	497.05	29,307.2	59	13.1	1.82	5.59	4.49	13.77	0.00	0.00	0.00	0.00	19.36
04/15/19	2019	4	15	497.06	29,313.7	59	6.5	1.82	5.59	4.50	13.80	0.00	0.00	0.00	0.00	19.38
04/16/19	2019	4	16	497.07	29,320.2	59	6.5	1.82	5.59	4.50	13.81	0.00	0.00	0.00	0.00	19.39
04/17/19	2019	4	17	497.09	29,333.3	59	13.1	1.82	5.59	4.50	13.81	0.00	0.00	0.00	0.00	19.40
04/18/19	2019	4	18	497.10	29,339.8	59	6.5	1.82	5.59	4.78	14.65	0.00	0.00	0.00	0.00	20.24
04/19/19	2019	4	19	497.10	29,339.8	59	0.0	1.82	5.58	4.98	15.28	0.00	0.00	0.00	0.00	20.86
04/20/19	2019	4	20	497.11	29,346.4	59	6.5	1.82	5.58	4.98	15.30	0.00	0.00	0.00	0.00	20.87
04/21/19	2019	4	21	497.11	29,346.4	59	0.0	1.82	5.59	4.99	15.31	0.00	0.00	0.00	0.00	20.89
04/22/19	2019	4	22	497.11	29,346.4	59	0.0	1.81	5.57	4.98	15.29	0.00	0.00	0.00	0.00	20.86
04/23/19	2019	4	23	497.12	29,352.9	59	6.5	1.82	5.58	4.97	15.25	0.00	0.00	0.00	0.00	20.82
04/24/19	2019	4	24	497.12	29,352.9	59	0.0	1.81	5.56	4.97	15.25	0.00	0.00	0.00	0.00	20.81
04/25/19	2019	4	25	497.12	29,352.9	59	0.0	1.82	5.58	4.96	15.22	0.00	0.00	0.00	0.00	20.81
04/26/19	2019	4	26	497.12	29,352.9	59	0.0	1.82	5.59	4.97	15.25	0.00	0.00	0.00	0.00	20.84
04/27/19	2019	4	27	497.12	29,352.9	59	0.0	1.82	5.58	4.97	15.26	0.00	0.00	0.00	0.00	20.85
04/28/19	2019	4	28	497.12	29,352.9	59	0.0	1.82	5.58	4.97	15.25	0.00	0.00	0.00	0.00	20.84
04/29/19	2019	4	29	497.14	29,366.0	59	13.1	1.82	5.59	4.97	15.25	0.00	0.00	0.00	0.00	20.84
04/30/19	2019	4	30	497.14	29,366.0	59	0.0	1.82	5.59	4.97	15.26	0.00	0.00	0.00	0.00	20.85
05/01/19	2019	5	1	497.14	29,366.0	59	0.0	2.04	6.27	4.96	15.21	0.00	0.00	0.00	0	21.48
05/02/19	2019	5	2	497.14	29,366.0	59	0.0	2.14	6.56	4.94	15.16	0.00	0.00	0.00	0	21.72
05/03/19	2019	5	3	497.13	29,359.4	59	-6.5	2.14	6.56	4.67	14.34	0.00	0.00	0.00	0	20.90
05/04/19	2019	5	4	497.12	29,352.9	59	-6.5	2.14	6.56	4.48	13.76	0.00	0.00	0.00	0	20.33



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
05/05/19	2019	5	5	497.11	29,346.4	59	-6.5	2.14	6.56	4.49	13.76	0.00	0.00	0.00	0	20.32
05/06/19	2019	5	6	497.11	29,346.4	59	0.0	2.14	6.57	4.23	12.98	0.00	0.00	0.00	0	19.55
05/07/19	2019	5	7	497.11	29,346.4	59	0.0	2.14	6.57	4.15	12.74	0.00	0.00	0.00	0	19.31
05/08/19	2019	5	8	497.11	29,346.4	59	0.0	2.14	6.57	4.24	13.01	0.00	0.00	0.00	0	19.59
05/09/19	2019	5	9	497.11	29,346.4	59	0.0	2.14	6.56	4.25	13.03	0.00	0.00	0.00	0	19.60
05/10/19	2019	5	10	497.11	29,346.4	59	0.0	2.14	6.56	4.24	13.03	0.00	0.00	0.00	0	19.59
05/11/19	2019	5	11	497.13	29,359.4	59	13.1	2.14	6.57	4.22	12.95	0.00	0.00	0.00	0	19.53
05/12/19	2019	5	12	497.11	29,346.4	59	-13.1	2.14	6.58	4.18	12.83	0.00	0.00	0.00	0	19.41
05/13/19	2019	5	13	497.10	29,339.8	59	-6.5	2.14	6.56	4.18	12.82	0.00	0.00	0.00	0	19.38
05/14/19	2019	5	14	497.09	29,333.3	59	-6.5	2.14	6.57	4.18	12.82	0.00	0.00	0.00	0	19.38
05/15/19	2019	5	15	497.08	29,326.8	59	-6.5	2.13	6.54	4.17	12.80	0.00	0.00	0.00	0	19.34
05/16/19	2019	5	16	497.13	29,359.4	59	32.7	2.13	6.54	4.17	12.80	0.00	0.00	0.00	0	19.34
05/17/19	2019	5	17	497.13	29,359.4	59	0.0	2.13	6.54	4.17	12.80	0.00	0.00	0.00	0	19.34
05/18/19	2019	5	18	497.11	29,346.4	59	-13.1	2.13	6.54	4.17	12.80	0.00	0.00	0.00	0	19.34
05/19/19	2019	5	19	497.19	29,398.7	60	52.3	2.14	6.57	4.18	12.83	0.00	0.00	0.00	0	19.40
05/20/19	2019	5	20	497.24	29,431.4	60	32.7	2.14	6.57	4.18	12.84	0.00	0.00	0.00	0	19.41
05/21/19	2019	5	21	497.24	29,431.4	60	0.0	2.14	6.57	4.18	12.83	0.00	0.00	0.00	0	19.40
05/22/19	2019	5	22	497.24	29,431.4	60	0.0	2.14	6.58	4.16	12.76	0.00	0.00	0.00	0	19.34
05/23/19	2019	5	23	497.23	29,424.8	60	-6.5	2.14	6.58	4.21	12.92	0.00	0.00	0.00	0	19.49
05/24/19	2019	5	24	497.23	29,424.8	60	0.0	2.14	6.58	4.24	13.02	0.00	0.00	0.00	0	19.59
05/25/19	2019	5	25	497.23	29,424.8	60	0.0	2.14	6.58	4.20	12.88	0.00	0.00	0.00	0	19.46
05/26/19	2019	5	26	497.23	29,424.8	60	0.0	2.14	6.57	4.20	12.88	0.00	0.00	0.00	0	19.45
05/27/19	2019	5	27	497.26	29,444.5	60	19.6	2.15	6.59	4.19	12.86	0.00	0.00	0.00	0	19.45
05/28/19	2019	5	28	497.25	29,437.9	60	-6.5	2.14	6.58	4.19	12.86	0.00	0.00	0.00	0	19.44
05/29/19	2019	5	29	497.24	29,431.4	60	-6.5	2.14	6.57	4.19	12.87	0.00	0.00	0.00	0	19.44
05/30/19	2019	5	30	497.23	29,424.8	60	-6.5	2.15	6.59	4.19	12.87	0.00	0.00	0.00	0	19.46



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
05/31/19	2019	5	31	497.23	29,424.8	60	0.0	2.15	6.58	4.19	12.87	0.00	0.00	0.00	0	19.45
06/01/19	2019	6	1	497.20	29,405.2	60	-19.6	2.14	6.58	4.19	12.86	0.00	0.00	0.00	0	19.44
06/02/19	2019	6	2	497.19	29,398.7	60	-6.5	2.14	6.57	4.19	12.87	0.00	0.00	0.00	0	19.44
06/03/19	2019	6	3	497.19	29,398.7	60	0.0	2.29	7.02	4.49	13.77	0.00	0.00	0.00	0	20.79
06/04/19	2019	6	4	497.17	29,385.6	59	-13.1	2.16	6.63	4.61	14.16	0.00	0.00	0.00	0	20.79
06/05/19	2019	6	5	497.15	29,372.5	59	-13.1	1.99	6.11	4.74	14.54	0.00	0.00	0.00	0	20.65
06/06/19	2019	6	6	497.14	29,366.0	59	-6.5	1.90	5.83	4.78	14.66	0.00	0.00	0.00	0	20.49
06/07/19	2019	6	7	497.12	29,352.9	59	-13.1	1.90	5.83	4.77	14.65	0.00	0.00	0.00	0	20.47
06/08/19	2019	6	8	497.10	29,339.8	59	-13.1	1.90	5.83	4.77	14.65	0.00	0.00	0.00	0	20.48
06/09/19	2019	6	9	497.07	29,320.2	59	-19.6	1.90	5.83	4.77	14.64	0.00	0.00	0.00	0	20.47
06/10/19	2019	6	10	497.05	29,307.2	59	-13.1	1.91	5.85	4.77	14.64	0.00	0.00	0.00	0	20.49
06/11/19	2019	6	11	497.03	29,294.1	59	-13.1	1.90	5.84	4.77	14.64	0.00	0.00	0.00	0	20.49
06/12/19	2019	6	12	497.02	29,287.6	59	-6.5	1.90	5.83	4.77	14.64	0.00	0.00	0.00	0	20.47
06/13/19	2019	6	13	497.00	29,274.6	59	-13.0	1.90	5.83	4.77	14.64	0.00	0.00	0.00	0	20.47
06/14/19	2019	6	14	496.98	29,261.5	59	-13.0	1.89	5.80	4.77	14.64	0.00	0.00	0.00	0	20.44
06/15/19	2019	6	15	496.96	29,248.5	59	-13.0	1.90	5.83	4.77	14.64	0.00	0.00	0.00	0	20.47
06/16/19	2019	6	16	496.94	29,235.4	59	-13.0	1.90	5.83	4.77	14.64	0.00	0.00	0.00	0	20.47
06/17/19	2019	6	17	496.92	29,222.4	59	-13.0	1.89	5.80	4.77	14.64	0.00	0.00	0.00	0	20.44
06/18/19	2019	6	18	496.90	29,209.4	59	-13.0	1.90	5.82	4.77	14.65	0.00	0.00	0.00	0	20.47
06/19/19	2019	6	19	496.87	29,189.8	59	-19.5	1.90	5.83	4.78	14.65	0.00	0.00	0.00	0	20.48
06/20/19	2019	6	20	496.85	29,176.8	59	-13.0	1.89	5.81	4.78	14.67	0.00	0.00	0.00	0	20.48
06/21/19	2019	6	21	496.85	29,176.8	59	0.0	1.90	5.82	4.79	14.70	0.00	0.00	0.00	0	20.51
06/22/19	2019	6	22	496.83	29,163.8	59	-13.0	1.90	5.82	4.79	14.70	0.00	0.00	0.00	0	20.52
06/23/19	2019	6	23	496.81	29,150.8	59	-13.0	1.90	5.82	4.85	14.88	0.00	0.00	0.00	0	20.70
06/24/19	2019	6	24	496.78	29,131.3	59	-19.5	1.90	5.82	4.99	15.33	0.00	0.00	0.00	0	21.14
06/25/19	2019	6	25	496.76	29,118.3	59	-13.0	1.90	5.82	5.00	15.34	0.00	0.00	0.00	0	21.16



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
06/26/19	2019	6	26	496.72	29,092.3	59	-26.0	1.90	5.82	5.00	15.34	0.00	0.00	0.00	0	21.16
06/27/19	2019	6	27	496.71	29,085.8	59	-6.5	1.90	5.83	4.99	15.32	0.00	0.00	0.00	0	21.15
06/28/19	2019	6	28	496.68	29,066.4	59	-19.5	1.78	5.46	4.68	14.35	0.00	0.00	0.00	0	19.81
06/29/19	2019	6	29	496.65	29,046.9	59	-19.5	1.90	5.83	5.00	15.35	0.00	0.00	0.00	0	21.17
06/30/19	2019	6	30	496.61	29,021.0	59	-25.9	1.90	5.83	5.00	15.35	0.00	0.00	0.00	0	21.17
07/01/19	2019	7	1	496.59	29,008.0	59	-13.0	1.90	5.82	5.19	15.94	0.00	0.00	0.00	0	21.75
07/02/19	2019	7	2	496.55	28,982.1	59	-25.9	1.89	5.81	5.42	16.64	0.00	0.00	0.00	0	22.45
07/03/19	2019	7	3	496.52	28,962.7	59	-19.4	1.89	5.81	5.51	16.91	0.00	0.00	0.00	0	22.72
07/04/19	2019	7	4	496.49	28,943.3	59	-19.4	1.89	5.81	5.51	16.92	0.00	0.00	0.00	0	22.74
07/05/19	2019	7	5	496.47	28,930.3	59	-12.9	1.90	5.82	5.51	16.92	0.00	0.00	0.00	0	22.74
07/06/19	2019	7	6	496.44	28,910.9	59	-19.4	1.89	5.80	5.52	16.95	0.00	0.00	0.00	0	22.75
07/07/19	2019	7	7	496.41	28,891.5	58	-19.4	1.89	5.80	5.48	16.82	0.00	0.00	0.00	0	22.62
07/08/19	2019	7	8	496.38	28,872.2	58	-19.4	1.90	5.84	5.51	16.91	0.00	0.00	0.00	0	22.75
07/09/19	2019	7	9	496.36	28,859.2	58	-12.9	1.90	5.83	5.51	16.91	0.00	0.00	0.00	0	22.74
07/10/19	2019	7	10	496.33	28,839.9	58	-19.4	1.89	5.80	5.51	16.91	0.00	0.00	0.00	0	22.71
07/11/19	2019	7	11	496.29	28,814.1	58	-25.8	1.89	5.80	5.50	16.88	0.00	0.00	0.00	0	22.68
07/12/19	2019	7	12	496.26	28,794.7	58	-19.3	1.88	5.77	5.51	16.91	0.00	0.00	0.00	0	22.68
07/13/19	2019	7	13	496.22	28,769.0	58	-25.8	1.88	5.77	5.49	16.85	0.00	0.00	0.00	0	22.62
07/14/19	2019	7	14	496.19	28,749.6	58	-19.3	1.89	5.79	5.49	16.86	0.00	0.00	0.00	0	22.65
07/15/19	2019	7	15	496.17	28,736.8	58	-12.9	2.05	6.30	5.50	16.86	0.00	0.00	0.00	0	23.16
07/16/19	2019	7	16	496.11	28,698.2	58	-38.6	2.20	6.76	5.50	16.87	0.00	0.00	0.00	0	23.63
07/17/19	2019	7	17	496.08	28,678.9	58	-19.3	2.20	6.74	5.50	16.86	0.00	0.00	0.00	0	23.60
07/18/19	2019	7	18	496.04	28,653.2	58	-25.7	2.19	6.73	5.50	16.88	0.00	0.00	0.00	0	23.61
07/19/19	2019	7	19	496.01	28,633.9	58	-19.3	2.19	6.71	5.50	16.89	0.00	0.00	0.00	0	23.60
07/20/19	2019	7	20	495.99	28,621.1	58	-12.8	2.18	6.68	5.50	16.89	0.00	0.00	0.00	0	23.58
07/21/19	2019	7	21	495.96	28,601.8	58	-19.2	2.18	6.68	5.51	16.91	0.00	0.00	0.00	0	23.59



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
07/22/19	2019	7	22	495.93	28,582.6	58	-19.2	2.18	6.69	5.51	16.92	0.00	0.00	0.00	0	23.61
07/23/19	2019	7	23	495.89	28,557.0	58	-25.6	2.18	6.70	5.51	16.91	0.00	0.00	0.00	0	23.61
07/24/19	2019	7	24	495.86	28,537.8	58	-19.2	2.18	6.69	5.78	17.74	0.00	0.00	0.00	0	24.44
07/25/19	2019	7	25	495.82	28,512.2	58	-25.6	2.17	6.67	6.00	18.40	0.00	0.00	0.00	0	25.07
07/26/19	2019	7	26	495.78	28,486.6	58	-25.6	2.16	6.63	6.00	18.41	0.00	0.00	0.00	0	25.04
07/27/19	2019	7	27	495.74	28,461.0	58	-25.6	2.16	6.63	6.00	18.41	0.00	0.00	0.00	0	25.03
07/28/19	2019	7	28	495.70	28,435.4	58	-25.6	2.16	6.62	5.99	18.40	0.00	0.00	0.00	0	25.01
07/29/19	2019	7	29	495.67	28,416.3	58	-19.2	2.16	6.62	5.99	18.37	0.00	0.00	0.00	0	24.99
07/30/19	2019	7	30	495.62	28,384.4	57	-31.9	2.15	6.61	5.98	18.37	0.00	0.00	0.00	0	24.98
07/31/19	2019	7	31	495.59	28,365.2	57	-19.1	2.16	6.62	5.99	18.37	0.00	0.00	0.00	0	24.99
08/01/19	2019	8	1	495.55	28,339.7	57	-25.5	2.16	6.63	5.78	17.74	0.00	0.00	0.00	0	24.37
08/02/19	2019	8	2	495.51	28,314.3	57	-25.5	2.15	6.60	5.71	17.51	0.00	0.00	0.00	0	24.12
08/03/19	2019	8	3	495.47	28,288.8	57	-25.5	2.15	6.60	5.71	17.53	0.00	0.00	0.00	0	24.13
08/04/19	2019	8	4	495.46	28,282.4	57	-6.4	2.15	6.60	5.72	17.54	0.00	0.00	0.00	0	24.14
08/05/19	2019	8	5	495.39	28,237.9	57	-44.5	2.15	6.59	5.71	17.54	0.00	0.00	0.00	0	24.12
08/06/19	2019	8	6	495.35	28,212.5	57	-25.4	2.14	6.57	5.72	17.55	0.00	0.00	0.00	0	24.12
08/07/19	2019	8	7	495.32	28,193.5	57	-19.0	2.13	6.54	5.72	17.56	0.00	0.00	0.00	0	24.10
08/08/19	2019	8	8	495.29	28,174.4	57	-19.0	2.14	6.56	5.69	17.46	0.00	0.00	0.00	0	24.02
08/09/19	2019	8	9	495.23	28,136.4	57	-38.0	2.29	7.03	5.71	17.51	0.00	0.00	0.00	0	24.54
08/10/19	2019	8	10	495.20	28,117.4	57	-19.0	2.55	7.82	5.71	17.53	0.00	0.00	0.00	0	25.35
08/11/19	2019	8	11	495.15	28,085.7	57	-31.7	2.28	6.99	5.71	17.53	0.00	0.00	0.00	0	24.52
08/12/19	2019	8	12	495.12	28,066.7	57	-19.0	2.69	8.27	5.72	17.55	0.00	0.00	0.00	0	25.82
08/13/19	2019	8	13	495.08	28,041.4	57	-25.3	3.13	9.62	5.72	17.54	0.00	0.00	0.00	0	27.16
08/14/19	2019	8	14	495.03	28,009.8	57	-31.6	3.14	9.65	5.71	17.53	0.00	0.00	0.00	0	27.18
08/15/19	2019	8	15	494.98	27,978.3	57	-31.6	3.14	9.65	5.71	17.53	0.00	0.00	0.00	0	27.18
08/16/19	2019	8	16	494.94	27,953.0	57	-25.2	3.14	9.63	5.71	17.54	0.00	0.00	0.00	0	27.17



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(AF)
08/17/19	2019	8	17	494.91	27,934.1	57	-18.9	3.14	9.62	5.71	17.52	0.00	0.00	0.00	0	27.15
08/18/19	2019	8	18	494.87	27,908.9	57	-25.2	3.14	9.62	5.71	17.52	0.00	0.00	0.00	0	27.15
08/19/19	2019	8	19	494.84	27,890.0	56	-18.9	3.02	9.27	2.92	8.97	0.00	0.00	0.00	0	18.25
08/20/19	2019	8	20	494.81	27,871.1	56	-18.9	2.81	8.62	3.99	12.23	0.00	0.00	0.00	0	20.86
08/21/19	2019	8	21	494.78	27,852.2	56	-18.9	2.81	8.61	4.52	13.88	0.00	0.00	0.00	0	22.49
08/22/19	2019	8	22	494.73	27,820.8	56	-31.4	2.81	8.61	5.00	15.36	0.00	0.00	0.00	0	23.97
08/23/19	2019	8	23	494.69	27,795.7	56	-25.1	2.80	8.61	4.99	15.31	0.00	0.00	0.00	0	23.91
08/24/19	2019	8	24	494.66	27,776.8	56	-18.8	2.80	8.59	5.19	15.93	0.00	0.00	0.00	0	24.51
08/25/19	2019	8	25	494.62	27,751.7	56	-25.1	2.80	8.59	5.28	16.21	0.00	0.00	0.00	0	24.80
08/26/19	2019	8	26	494.58	27,726.6	56	-25.1	2.61	8.00	5.30	16.25	0.00	0.00	0.00	0	24.26
08/27/19	2019	8	27	494.55	27,707.8	56	-18.8	2.49	7.63	5.30	16.25	0.00	0.00	0.00	0	23.88
08/28/19	2019	8	28	494.50	27,676.5	56	-31.3	2.49	7.64	5.29	16.25	0.00	0.00	0.00	0	23.88
08/29/19	2019	8	29	494.47	27,657.7	56	-18.8	2.48	7.62	5.29	16.25	0.00	0.00	0.00	0	23.87
08/30/19	2019	8	30	494.42	27,626.4	56	-31.3	2.49	7.63	5.20	15.95	0.00	0.00	0.00	0	23.58
08/31/19	2019	8	31	494.39	27,607.7	56	-18.8	2.48	7.62	5.10	15.66	0.00	0.00	0.00	0	23.28
09/01/19	2019	9	1	494.36	27,588.9	56	-18.7	2.48	7.62	5.22	16.02	0.00	0.00	0.00	0	23.64
09/02/19	2019	9	2	494.31	27,557.7	56	-31.2	2.49	7.63	5.30	16.27	0.00	0.00	0.00	0	23.89
09/03/19	2019	9	3	494.27	27,532.8	56	-25.0	2.48	7.61	5.33	16.36	0.00	0.00	0.00	0	23.97
09/04/19	2019	9	4	494.24	27,514.0	56	-18.7	2.48	7.61	5.32	16.33	0.00	0.00	0.00	0	23.94
09/05/19	2019	9	5	494.20	27,489.1	56	-24.9	2.48	7.60	5.31	16.31	0.00	0.00	0.00	0	23.91
09/06/19	2019	9	6	494.16	27,464.2	56	-24.9	2.47	7.59	5.30	16.28	0.00	0.00	0.00	0	23.86
09/07/19	2019	9	7	494.11	27,433.1	56	-31.1	2.47	7.59	5.30	16.27	0.00	0.00	0.00	0	23.86
09/08/19	2019	9	8	494.08	27,414.4	56	-18.7	2.46	7.55	5.30	16.27	0.00	0.00	0.00	0	23.82
09/09/19	2019	9	9	494.02	27,377.1	55	-37.3	2.46	7.55	5.30	16.27	0.00	0.00	0.00	0	23.82
09/10/19	2019	9	10	493.98	27,352.3	55	-24.8	2.45	7.52	5.30	16.27	0.00	0.00	0.00	0	23.79
09/11/19	2019	9	11	493.95	27,333.7	55	-18.6	2.46	7.55	5.31	16.30	0.00	0.00	0.00	0	23.85



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
09/12/19	2019	9	12	493.89	27,296.5	55	-37.2	2.49	7.63	5.31	16.28	0.00	0.00	0.00	0	23.91
09/13/19	2019	9	13	493.85	27,271.7	55	-24.8	2.62	8.04	5.31	16.29	0.00	0.00	0.00	0	24.33
09/14/19	2019	9	14	493.81	27,246.9	55	-24.8	2.63	8.07	5.31	16.28	0.00	0.00	0.00	0	24.35
09/15/19	2019	9	15	493.78	27,228.3	55	-18.6	2.63	8.06	5.30	16.28	0.00	0.00	0.00	0	24.33
09/16/19	2019	9	16	493.75	27,209.8	55	-18.6	2.63	8.06	5.30	16.25	0.00	0.00	0.00	0	24.31
09/17/19	2019	9	17	493.70	27,178.9	55	-30.9	2.63	8.07	5.51	16.92	0.00	0.00	0.00	0	24.98
09/18/19	2019	9	18	493.65	27,148.0	55	-30.9	2.63	8.07	5.70	17.49	0.00	0.00	0.00	0	25.56
09/19/19	2019	9	19	493.60	27,117.2	55	-30.9	2.63	8.07	5.70	17.49	0.00	0.00	0.00	0	25.57
09/20/19	2019	9	20	493.57	27,098.7	55	-18.5	2.74	8.42	5.70	17.50	0.00	0.00	0.00	0	25.92
09/21/19	2019	9	21	493.52	27,067.8	55	-30.8	3.01	9.23	5.70	17.49	0.00	0.00	0.00	0	26.72
09/22/19	2019	9	22	493.46	27,030.9	55	-36.9	3.01	9.24	5.70	17.48	0.00	0.00	0.00	0	26.72
09/23/19	2019	9	23	493.42	27,006.3	55	-24.6	3.01	9.24	5.70	17.48	0.00	0.00	0.00	0	26.72
09/24/19	2019	9	24	493.39	26,987.9	55	-18.4	3.01	9.25	5.49	16.85	0.00	0.00	0.00	0	26.09
09/25/19	2019	9	25	493.33	26,951.0	55	-36.9	3.02	9.27	5.19	15.91	0.00	0.00	0.00	0	25.18
09/26/19	2019	9	26	493.30	26,932.6	55	-18.4	3.02	9.27	5.19	15.92	0.00	0.00	0.00	0	25.19
09/27/19	2019	9	27	493.27	26,914.2	54	-18.4	3.02	9.27	5.19	15.92	0.00	0.00	0.00	0	25.19
09/28/19	2019	9	28	493.24	26,895.8	54	-18.4	3.03	9.29	5.19	15.91	0.00	0.00	0.00	0	25.20
09/29/19	2019	9	29	493.19	26,865.1	54	-30.6	3.02	9.28	4.65	14.27	0.00	0.00	0.00	0	23.55
09/30/19	2019	9	30	493.15	26,840.6	54	-24.5	3.03	9.29	4.19	12.87	0.00	0.00	0.00	0	22.16
10/01/19	2019	10	1	493.11	26,816.2	54	-24.5	3.03	9.28	4.19	12.87	0.00	0.00	0.00	0	22.15
10/02/19	2019	10	2	493.08	26,797.8	54	-18.3	3.03	9.29	4.19	12.86	0.00	0.00	0.00	0	22.15
10/03/19	2019	10	3	493.03	26,767.3	54	-30.6	3.03	9.28	4.19	12.86	0.00	0.00	0.00	0	22.14
10/04/19	2019	10	4	492.98	26,736.7	54	-30.5	3.03	9.29	4.19	12.86	0.00	0.00	0.00	0	22.15
10/05/19	2019	10	5	492.95	26,718.4	54	-18.3	3.02	9.28	4.19	12.86	0.00	0.00	0.00	0	22.14
10/06/19	2019	10	6	492.90	26,687.9	54	-30.5	3.02	9.27	4.19	12.86	0.00	0.00	0.00	0	22.13
10/07/19	2019	10	7	492.86	26,663.6	54	-24.4	3.02	9.27	4.19	12.86	0.00	0.00	0.00	0	22.13



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(AF)
10/08/19	2019	10	8	492.83	26,645.3	54	-18.3	3.02	9.27	4.19	12.85	0.00	0.00	0.00	0	22.13
10/09/19	2019	10	9	492.80	26,627.0	54	-18.3	3.02	9.26	4.18	12.83	0.00	0.00	0.00	0	22.09
10/10/19	2019	10	10	492.77	26,608.8	54	-18.2	3.01	9.25	4.15	12.74	0.00	0.00	0.00	0	21.99
10/11/19	2019	10	11	492.73	26,584.5	54	-24.3	3.01	9.23	4.11	12.61	0.00	0.00	0.00	0	21.85
10/12/19	2019	10	12	492.70	26,566.3	54	-18.2	3.01	9.24	4.18	12.83	0.00	0.00	0.00	0	22.07
10/13/19	2019	10	13	492.67	26,548.0	54	-18.2	3.00	9.21	4.18	12.83	0.00	0.00	0.00	0	22.04
10/14/19	2019	10	14	492.64	26,529.8	54	-18.2	3.01	9.23	4.18	12.82	0.00	0.00	0.00	0	22.05
10/15/19	2019	10	15	492.58	26,493.4	54	-36.4	3.01	9.23	4.18	12.82	0.00	0.00	0.00	0	22.05
10/16/19	2019	10	16	492.54	26,469.2	54	-24.2	3.02	9.25	3.94	12.08	0.00	0.00	0.00	0	21.34
10/17/19	2019	10	17	492.53	26,463.1	54	-6.1	3.03	9.31	4.15	12.75	0.00	0.00	0.00	0	22.05
10/18/19	2019	10	18	492.49	26,438.9	54	-24.2	3.03	9.30	4.16	12.76	0.00	0.00	0.00	0	22.05
10/19/19	2019	10	19	492.45	26,414.7	53	-24.2	3.03	9.30	4.16	12.76	0.00	0.00	0.00	0	22.05
10/20/19	2019	10	20	492.41	26,390.5	53	-24.2	3.03	9.29	4.16	12.76	0.00	0.00	0.00	0	22.05
10/21/19	2019	10	21	492.36	26,360.3	53	-30.2	3.02	9.27	4.23	12.98	0.00	0.00	0.00	0	22.25
10/22/19	2019	10	22	492.31	26,330.2	53	-30.2	3.02	9.28	4.22	12.94	0.00	0.00	0.00	0	22.22
10/23/19	2019	10	23	492.28	26,312.1	53	-18.1	3.02	9.26	4.22	12.94	0.00	0.00	0.00	0	22.20
10/24/19	2019	10	24	492.24	26,287.9	53	-24.1	3.02	9.26	4.04	12.39	0.00	0.00	0.00	0	21.66
10/25/19	2019	10	25	492.21	26,269.9	53	-18.1	3.02	9.26	3.97	12.19	0.00	0.00	0.00	0	21.46
10/26/19	2019	10	26	492.17	26,245.8	53	-24.1	3.01	9.24	4.27	13.11	0.00	0.00	0.00	0	22.35
10/27/19	2019	10	27	492.13	26,221.7	53	-24.1	3.02	9.26	4.64	14.25	0.00	0.00	0.00	0	23.51
10/28/19	2019	10	28	492.11	26,209.7	53	-12.0	3.02	9.26	4.76	14.62	0.00	0.00	0.00	0	23.87
10/29/19	2019	10	29	492.06	26,179.6	53	-30.1	3.02	9.26	4.76	14.61	0.00	0.00	0.00	0	23.87
10/30/19	2019	10	30	492.01	26,149.6	53	-30.0	3.02	9.27	4.76	14.60	0.00	0.00	0.00	0	23.87
10/31/19	2019	10	31	491.97	26,125.6	53	-24.0	3.02	9.27	4.75	14.58	0.00	0.00	0.00	0	23.86
11/01/19	2019	11	1	491.92	26,095.6	53	-30.0	3.02	9.27	4.76	14.62	0.00	0.00	0.00	0	23.89
11/02/19	2019	11	2	491.88	26,071.7	53	-24.0	3.02	9.27	4.79	14.70	0.00	0.00	0.00	0	23.97



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
11/03/19	2019	11	3	491.84	26,047.7	53	-23.9	3.02	9.27	4.78	14.67	0.00	0.00	0.00	0	23.94
11/04/19	2019	11	4	491.80	26,023.8	53	-23.9	3.02	9.26	4.78	14.67	0.00	0.00	0.00	0	23.93
11/05/19	2019	11	5	491.76	25,999.9	53	-23.9	3.02	9.25	4.78	14.67	0.00	0.00	0.00	0	23.92
11/06/19	2019	11	6	491.71	25,970.0	53	-29.9	3.01	9.24	5.05	15.50	0.00	0.00	0.00	0	24.74
11/07/19	2019	11	7	491.69	25,958.1	53	-11.9	3.01	9.24	5.39	16.55	0.00	0.00	0.00	0	25.79
11/08/19	2019	11	8	491.66	25,940.2	53	-17.9	3.01	9.24	5.65	17.34	0.00	0.00	0.00	0	26.58
11/09/19	2019	11	9	491.63	25,922.3	52	-17.9	3.01	9.24	5.77	17.72	0.00	0.00	0.00	0	26.96
11/10/19	2019	11	10	491.59	25,898.4	52	-23.8	3.01	9.24	5.76	17.68	0.00	0.00	0.00	0	26.92
11/11/19	2019	11	11	491.57	25,886.5	52	-11.9	3.01	9.23	5.76	17.68	0.00	0.00	0.00	0	26.91
11/12/19	2019	11	12	491.53	25,862.7	52	-23.8	3.01	9.23	5.80	17.81	0.00	0.00	0.00	0	27.04
11/13/19	2019	11	13	491.50	25,844.9	52	-17.9	3.01	9.24	5.80	17.81	0.00	0.00	0.00	0	27.05
11/14/19	2019	11	14	491.47	25,827.0	52	-17.8	3.01	9.23	5.80	17.79	0.00	0.00	0.00	0	27.02
11/15/19	2019	11	15	491.43	25,803.2	52	-23.8	3.01	9.23	5.80	17.79	0.00	0.00	0.00	0	27.03
11/16/19	2019	11	16	491.38	25,773.5	52	-29.7	3.01	9.23	5.80	17.79	0.00	0.00	0.00	0	27.02
11/17/19	2019	11	17	491.33	25,743.9	52	-29.7	3.01	9.22	5.80	17.79	0.00	0.00	0.00	0	27.01
11/18/19	2019	11	18	491.29	25,720.1	52	-23.7	3.00	9.22			0.00	0.00	0.00	0	
11/19/19	2019	11	19	491.25	25,696.4	52	-23.7	3.00	9.21	5.85	17.95	0.00	0.00	0.00	0	27.16
11/20/19	2019	11	20	491.23	25,684.6	52	-11.8	3.00	9.22	5.85	17.94	0.00	0.00	0.00	0	27.16
11/21/19	2019	11	21	491.19	25,660.9	52	-23.7	3.01	9.23	5.44	16.69	0.00	0.00	0.00	0	25.92
11/22/19	2019	11	22	491.16	25,643.2	52	-17.7	3.01	9.24	4.97	15.27	0.00	0.00	0.00	0	24.51
11/23/19	2019	11	23	491.13	25,625.4	52	-17.7	3.01	9.24	4.97	15.26	0.00	0.00	0.00	0	24.50
11/24/19	2019	11	24	491.08	25,595.9	52	-29.5	3.01	9.23	4.97	15.24	0.00	0.00	0.00	0	24.48
11/25/19	2019	11	25	491.03	25,566.4	52	-29.5	3.01	9.23	4.68	14.35	0.00	0.00	0.00	0	23.58
11/26/19	2019	11	26	490.98	25,536.9	52	-29.5	3.01	9.24	4.49	13.77	0.00	0.00	0.00	0	23.01
11/27/19	2019	11	27	491.06	25,584.1	52	47.2	3.01	9.24	4.21	12.93	0.00	0.00	0.00	0	22.17
11/28/19	2019	11	28	491.15	25,637.3	52	53.2	3.01	9.25	3.40	10.42	0.00	0.00	0.00	0	19.67



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
11/29/19	2019	11	29	491.15	25,637.3	52	0.0	3.02	9.25	3.01	9.24	0.00	0.00	0.00	0	18.49
11/30/19	2019	11	30	491.12	25,619.5	52	-17.7	3.02	9.27	3.01	9.23	0.00	0.00	0.00	0	18.50
12/01/19	2019	12	1	491.16	25,643.2	52	23.6	3.02	9.27	3.01	9.23	0.00	0.00	0.00	0	18.50
12/02/19	2019	12	2	491.14	25,631.4	52	-11.8	3.01	9.24	3.00	9.21	0.00	0.00	0.00	0	18.45
12/03/19	2019	12	3	491.12	25,619.5	52	-11.8	3.01	9.24	3.00	9.21	0.00	0.00	0.00	0	18.45
12/04/19	2019	12	4	491.16	25,643.2	52	23.6	3.01	9.24	3.00	9.21	0.00	0.00	0.00	0	18.45
12/05/19	2019	12	5	491.17	25,649.1	52	5.9	3.01	9.24	3.00	9.21	0.00	0.00	0.00	0	18.45
12/06/19	2019	12	6	491.17	25,649.1	52	0.0	3.01	9.24	3.00	9.21	0.00	0.00	0.00	0	18.45
12/07/19	2019	12	7	491.16	25,643.2	52	-5.9	3.01	9.24	3.00	9.21	0.00	0.00	0.00	0	18.45
12/08/19	2019	12	8	491.19	25,660.9	52	17.7	3.01	9.24	3.00	9.21	0.00	0.00	0.00	0	18.45
12/09/19	2019	12	9	491.27	25,708.3	52	47.4	3.01	9.24	3.00	9.22	0.00	0.00	0.00	0	18.46
12/10/19	2019	12	10	491.25	25,696.4	52	-11.8	3.01	9.24	3.00	9.21	0.00	0.00	0.00	0	18.46
12/11/19	2019	12	11	491.24	25,690.5	52	-5.9	3.01	9.25	3.00	9.20	0.00	0.00	0.00	0	18.45
12/12/19	2019	12	12	491.22	25,678.7	52	-11.8	3.01	9.24	3.00	9.21	0.00	0.00	0.00	0	18.45
12/13/19	2019	12	13	491.20	25,666.8	52	-11.8	3.01	9.24	3.00	9.21	0.00	0.00	0.00	0	18.45
12/14/19	2019	12	14	491.19	25,660.9	52	-5.9	3.01	9.24	3.15	9.66	0.00	0.00	0.00	0	18.90
12/15/19	2019	12	15	491.18	25,655.0	52	-5.9	3.01	9.24	3.23	9.92	0.00	0.00	0.00	0	19.16
12/16/19	2019	12	16	491.17	25,649.1	52	-5.9	3.01	9.24	3.49	10.72	0.00	0.00	0.00	0	19.97
12/17/19	2019	12	17	491.14	25,631.4	52	-17.7	3.01	9.23	3.75	11.51	0.00	0.00	0.00	0	20.74
12/18/19	2019	12	18	491.11	25,613.6	52	-17.7	3.01	9.24	3.75	11.50	0.00	0.00	0.00	0	20.73
12/19/19	2019	12	19	491.10	25,607.7	52	-5.9	3.01	9.23	3.74	11.49	0.00	0.00	0.00	0	20.72
12/20/19	2019	12	20	491.07	25,590.0	52	-17.7	2.83	8.69	3.74	11.48	0.00	0.00	0.00	0	20.16
12/21/19	2019	12	21	491.04	25,572.3	52	-17.7	2.66	8.16	3.75	11.50	0.00	0.00	0.00	0	19.66
12/22/19	2019	12	22	491.01	25,554.6	52	-17.7	2.66	8.16	3.60	11.03	0.00	0.00	0.00	0	19.20
12/23/19	2019	12	23	491.09	25,601.8	52	47.2	2.66	8.17	3.48	10.68	0.00	0.00	0.00	0	18.85
12/24/19	2019	12	24	491.12	25,619.5	52	17.7	2.66	8.16	3.35	10.29	0.00	0.00	0.00	0	18.46



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
12/25/19	2019	12	25	491.11	25,613.6	52	-5.9	2.66	8.17	3.26	10.00	0.00	0.00	0.00	0	18.17
12/26/19	2019	12	26	491.23	25,684.6	52	71.0	2.53	7.76	3.11	9.53	0.00	0.00	0.00	0	17.29
12/27/19	2019	12	27	491.24	25,690.5	52	5.9	2.27	6.96	2.96	9.10	0.00	0.00	0.00	0	16.05
12/28/19	2019	12	28	491.23	25,684.6	52	-5.9	2.30	7.07	3.00	9.22	0.00	0.00	0.00	0	16.28
12/29/19	2019	12	29	491.22	25,678.7	52	-5.9	2.30	7.07	3.01	9.22	0.00	0.00	0.00	0	16.29
12/30/19	2019	12	30	491.28	25,714.2	52	35.5	2.30	7.05	3.00	9.22	0.00	0.00	0.00	0	16.27
12/31/19	2019	12	31	491.27	25,708.3	52	-5.9	2.29	7.04	3.00	9.21	0.00	0.00	0.00	0	16.25
01/01/20	2020	1	1	491.26	25,702.4	52	-5.9	2.30	7.05	3.00	9.22	0.00	0.00	0.00	0	16.27
01/02/20	2020	1	2	491.26	25,702.4	52	0.0	2.30	7.05	3.00	9.21	0.00	0.00	0.00	0	16.26
01/03/20	2020	1	3	491.24	25,690.5	52	-11.8	2.30	7.05	3.01	9.22	0.00	0.00	0.00	0	16.27
01/04/20	2020	1	4	491.23	25,684.6	52	-5.9	2.30	7.04	3.00	9.21	0.00	0.00	0.00	0	16.26
01/05/20	2020	1	5	491.22	25,678.7	52	-5.9	2.29	7.03	3.00	9.21	0.00	0.00	0.00	0	16.25
01/06/20	2020	1	6	491.21	25,672.8	52	-5.9	2.29	7.03	3.35	10.27	0.00	0.00	0.00	0	17.30
01/07/20	2020	1	7	491.18	25,655.0	52	-17.8	2.29	7.02	3.77	11.56	0.00	0.00	0.00	0	18.58
01/08/20	2020	1	8	491.17	25,649.1	52	-5.9	2.25	6.91	3.76	11.55	0.00	0.00	0.00	0	18.47
01/09/20	2020	1	9	491.16	25,643.2	52	-5.9	2.20	6.76	3.77	11.56	0.00	0.00	0.00	0	18.31
01/10/20	2020	1	10	491.15	25,637.3	52	-5.9	2.21	6.77	3.76	11.55	0.00	0.00	0.00	0	18.31
01/11/20	2020	1	11	491.13	25,625.4	52	-11.8	2.20	6.76	3.48	10.69	0.00	0.00	0.00	0	17.45
01/12/20	2020	1	12	491.12	25,619.5	52	-5.9	2.20	6.75	3.31	10.16	0.00	0.00	0.00	0	16.91
01/13/20	2020	1	13	491.12	25,619.5	52	0.0	2.20	6.75	3.31	10.15	0.00	0.00	0.00	0	16.90
01/14/20	2020	1	14	491.10	25,607.7	52	-11.8	2.21	6.77	3.31	10.15	0.00	0.00	0.00	0	16.92
01/15/20	2020	1	15	491.09	25,601.8	52	-5.9	2.21	6.77	3.30	10.14	0.00	0.00	0.00	0	16.91
01/16/20	2020	1	16	491.07	25,590.0	52	-11.8	2.21	6.78	3.30	10.13	0.00	0.00	0.00	0	16.91
01/17/20	2020	1	17	491.11	25,613.6	52	23.6	2.21	6.79	3.30	10.14	0.00	0.00	0.00	0	16.93
01/18/20	2020	1	18	491.11	25,613.6	52	0.0	2.22	6.80	3.30	10.13	0.00	0.00	0.00	0	16.93
01/19/20	2020	1	19	491.08	25,595.9	52	-17.7	2.21	6.79	3.29	10.10	0.00	0.00	0.00	0	16.88



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
01/20/20	2020	1	20	491.07	25,590.0	52	-5.9	2.21	6.78	3.30	10.12	0.00	0.00	0.00	0	16.90
01/21/20	2020	1	21	491.06	25,584.1	52	-5.9	2.21	6.78	3.29	10.10	0.00	0.00	0.00	0	16.88
01/22/20	2020	1	22	491.05	25,578.2	52	-5.9	2.20	6.75	3.30	10.13	0.00	0.00	0.00	0	16.88
01/23/20	2020	1	23	491.04	25,572.3	52	-5.9	2.20	6.76	3.29	10.10	0.00	0.00	0.00	0	16.86
01/24/20	2020	1	24	491.02	25,560.5	52	-11.8	2.19	6.72	3.29	10.10	0.00	0.00	0.00	0	16.82
01/25/20	2020	1	25	491.00	25,548.7	52	-11.8	2.19	6.73	3.27	10.04	0.00	0.00	0.00	0	16.77
01/26/20	2020	1	26	491.00	25,548.7	52	0.0	2.19	6.72	3.80	11.66	0.00	0.00	0.00	0	18.38
01/27/20	2020	1	27	491.00	25,548.7	52	0.0	2.20	6.74	3.28	10.07	0.00	0.00	0.00	0	16.81
01/28/20	2020	1	28	490.99	25,542.8	52	-5.9	2.20	6.75	3.26	10.00	0.00	0.00	0.00	0	16.75
01/29/20	2020	1	29	490.98	25,536.9	52	-5.9	2.20	6.75	3.33	10.20	0.00	0.00	0.00	0	16.95
01/30/20	2020	1	30	490.97	25,531.0	52	-5.9	2.20	6.75	3.32	10.18	0.00	0.00	0.00	0	16.93
01/31/20	2020	1	31	490.96	25,525.1	52	-5.9	2.20	6.74	3.31	10.15	0.00	0.00	0.00	0	16.89
02/01/20	2020	2	1	490.95	25,519.2	52	-5.9	2.19	6.73	3.31	10.15	0.00	0.00	0.00	0	16.88
02/02/20	2020	2	2	490.94	25,513.3	52	-5.9	2.19	6.73	3.31	10.15	0.00	0.00	0.00	0	16.88
02/03/20	2020	2	3	490.93	25,507.4	52	-5.9	2.20	6.74	3.66	11.22	0.00	0.00	0.00	0	17.96
02/04/20	2020	2	4	490.90	25,489.8	52	-17.7	2.21	6.78	3.99	12.23	0.00	0.00	0.00	0	19.02
02/05/20	2020	2	5	490.89	25,483.9	52	-5.9	2.21	6.77	3.98	12.22	0.00	0.00	0.00	0	18.99
02/06/20	2020	2	6	490.87	25,472.1	52	-11.8	2.21	6.78	4.09	12.56	0.00	0.00	0.00	0	19.34
02/07/20	2020	2	7	490.86	25,466.2	52	-5.9	2.21	6.78	4.20	12.87	0.00	0.00	0.00	0	19.66
02/08/20	2020	2	8	490.84	25,454.5	52	-11.8	2.21	6.77	4.19	12.87	0.00	0.00	0.00	0	19.64
02/09/20	2020	2	9	490.83	25,448.6	52	-5.9					0.00	0.00	0.00	0	
02/10/20	2020	2	10	490.81	25,436.8	52	-11.8	2.20	6.76	4.20	12.88	0.00	0.00	0.00	0	19.64
02/11/20	2020	2	11	490.79	25,425.1	51	-11.8	2.20	6.74	4.21	12.91	0.00	0.00	0.00	0	19.65
02/12/20	2020	2	12	490.77	25,413.3	51	-11.7	2.20	6.74	4.21	12.93	0.00	0.00	0.00	0	19.68
02/13/20	2020	2	13	490.76	25,407.5	51	-5.9	2.19	6.73	4.19	12.87	0.00	0.00	0.00	0	19.60
02/14/20	2020	2	14	490.74	25,395.7	51	-11.7	2.19	6.73	4.21	12.92	0.00	0.00	0.00	0	19.65



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
02/15/20	2020	2	15	490.72	25,384.0	51	-11.7	2.20	6.74	4.23	12.97	0.00	0.00	0.00	0	19.71
02/16/20	2020	2	16	490.70	25,372.3	51	-11.7	2.19	6.72	4.24	13.01	0.00	0.00	0.00	0	19.73
02/17/20	2020	2	17	490.68	25,360.5	51	-11.7					0.00	0.00	0.00	0	
02/18/20	2020	2	18	490.65	25,342.9	51	-17.6	2.19	6.72	4.21	12.92	0.00	0.00	0.00	0	19.65
02/19/20	2020	2	19	490.64	25,337.1	51	-5.9	2.19	6.71	4.20	12.87	0.00	0.00	0.00	0	19.58
02/20/20	2020	2	20	490.62	25,325.4	51	-11.7	2.19	6.72	4.19	12.86	0.00	0.00	0.00	0	19.58
02/21/20	2020	2	21	490.60	25,313.7	51	-11.7	2.18	6.69	4.20	12.89	0.00	0.00	0.00	0	19.58
02/22/20	2020	2	22	490.59	25,307.8	51	-5.9	2.19	6.72	4.20	12.89	0.00	0.00	0.00	0	19.61
02/23/20	2020	2	23	490.58	25,301.9	51	-5.9	2.19	6.72	4.20	12.90	0.00	0.00	0.00	0	19.61
02/24/20	2020	2	24	490.57	25,296.1	51	-5.9	2.18	6.70	4.95	15.20	0.00	0.00	0.00	0	21.90
02/25/20	2020	2	25	490.54	25,278.5	51	-17.6	2.18	6.70	5.75	17.66	0.00	0.00	0.00	0	24.36
02/26/20	2020	2	26	490.52	25,266.8	51	-11.7	2.18	6.68	6.00	18.41	0.00	0.00	0.00	0	25.09
02/27/20	2020	2	27	490.49	25,249.3	51	-17.5	2.18	6.69	6.00	18.41	0.00	0.00	0.00	0	25.11
02/28/20	2020	2	28	490.46	25,231.8	51	-17.5	2.18	6.68	6.00	18.42	0.00	0.00	0.00	0	25.11
02/29/20	2020	2	29	490.44	25,220.1	51	-11.7	2.18	6.68	6.28	19.26	0.00	0.00	0.00	0	25.94
03/01/20	2020	3	1	490.42	25,208.4	51	-11.7	2.18	6.68	6.51	19.96	0.00	0.00	0.00	0	26.65
03/02/20	2020	3	2	490.40	25,196.8	51	-11.7	2.18	6.69	6.50	19.94	0.00	0.00	0.00	0	26.62
03/03/20	2020	3	3	490.36	25,173.4	51	-23.3					0.00	0.00	0.00	0	
03/04/20	2020	3	4	490.33	25,155.9	51	-17.5	2.17	6.67	6.51	19.97	0.00	0.00	0.00	0	26.64
03/05/20	2020	3	5	490.31	25,144.3	51	-11.7	2.18	6.68	6.26	19.22	0.00	0.00	0.00	0	25.91
03/06/20	2020	3	6	490.30	25,138.5	51	-5.8	2.18	6.69	4.50	13.81	0.00	0.00	0.00	0	20.50
03/07/20	2020	3	7	490.29	25,132.6	51	-5.8	2.18	6.69	4.50	13.81	0.00	0.00	0.00	0	20.50
03/08/20	2020	3	8	490.29	25,132.6	51	0.0	2.18	6.69	4.50	13.81	0.00	0.00	0.00	0	20.50
03/09/20	2020	3	9	490.27	25,121.0	51	-11.6	2.18	6.69	4.50	13.82	0.00	0.00	0.00	0	20.52
03/10/20	2020	3	10	490.25	25,109.4	51	-11.6	2.18	6.69			0.00	0.00	0.00	0	
03/11/20	2020	3	11	490.38	25,185.1	51	75.7	2.17	6.67			0.00	0.00	0.00	0	



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(AF)
03/12/20	2020	3	12	490.41	25,202.6	51	17.5	2.05	6.28			0.00	0.00	0.00	0	
03/13/20	2020	3	13	490.40	25,196.8	51	-5.8	2.19	6.72			0.00	0.00	0.00	0	
03/14/20	2020	3	14	490.41	25,202.6	51	5.8	2.19	6.73			0.00	0.00	0.00	0	
03/15/20	2020	3	15	490.41	25,202.6	51	0.0	2.20	6.74			0.00	0.00	0.00	0	
03/16/20	2020	3	16	490.46	25,231.8	51	29.2	2.20	6.74			0.00	0.00	0.00	0	
03/17/20	2020	3	17	490.70	25,372.3	51	140.5	2.19	6.72			0.00	0.00	0.00	0	
03/18/20	2020	3	18	490.73	25,389.9	51	17.6	2.19	6.72			0.00	0.00	0.00	0	
03/19/20	2020	3	19	490.74	25,395.7	51	5.9	2.18	6.69			0.00	0.00	0.00	0	
03/20/20	2020	3	20	490.75	25,401.6	51	5.9	2.19	6.72			0.00	0.00	0.00	0	
03/21/20	2020	3	21	490.77	25,413.3	51	11.7	2.19	6.72			0.00	0.00	0.00	0	
03/22/20	2020	3	22	490.77	25,413.3	51	0.0	2.20	6.74			0.00	0.00	0.00	0	
03/23/20	2020	3	23	490.84	25,454.5	52	41.1	2.19	6.72			0.00	0.00	0.00	0	
03/24/20	2020	3	24	490.85	25,460.4	52	5.9	2.19	6.72			0.00	0.00	0.00	0	
03/25/20	2020	3	25	490.87	25,472.1	52	11.8	2.19	6.72			0.00	0.00	0.00	0	
03/26/20	2020	3	26	490.88	25,478.0	52	5.9	2.19	6.72			0.00	0.00	0.00	0	
03/27/20	2020	3	27	490.88	25,478.0	52	0.0	2.19	6.72			0.00	0.00	0.00	0	
03/28/20	2020	3	28	490.88	25,478.0	52	0.0	2.18	6.70			0.00	0.00	0.00	0	
03/29/20	2020	3	29	490.88	25,478.0	52	0.0	2.19	6.72			0.00	0.00	0.00	0	
03/30/20	2020	3	30	490.88	25,478.0	52	0.0	2.18	6.69			0.00	0.00	0.00	0	
03/31/20	2020	3	31	490.87	25,472.1	52	-5.9	2.18	6.70			0.00	0.00	0.00	0	
04/01/20	2020	4	1	490.85	25,460.4	52	-11.8	2.18	6.70			0.00	0.00	0.00	0	
04/02/20	2020	4	2	490.85	25,460.4	52	0.0	2.18	6.70			0.00	0.00	0.00	0	
04/03/20	2020	4	3	490.84	25,454.5	52	-5.9	2.18	6.69			0.00	0.00	0.00	0	
04/04/20	2020	4	4	490.83	25,448.6	52	-5.9	2.18	6.69			0.00	0.00	0.00	0	
04/05/20	2020	4	5	490.83	25,448.6	52	0.0	2.18	6.70			0.00	0.00	0.00	0	
04/06/20	2020	4	6	491.05	25,578.2	52	129.6	2.19	6.71			0.00	0.00	0.00	0	



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
04/07/20	2020	4	7	491.14	25,631.4	52	53.2	2.18	6.68	3.33	10.23	0.00	0.00	0.00	0	16.91
04/08/20	2020	4	8	491.19	25,660.9	52	29.6	2.18	6.68	3.34	10.24	0.00	0.00	0.00	0	16.92
04/09/20	2020	4	9	491.26	25,702.4	52	41.4	2.18	6.69	3.33	10.21	0.00	0.00	0.00	0	16.90
04/10/20	2020	4	10	491.34	25,749.8	52	47.4	2.18	6.70	3.33	10.22	0.00	0.00	0.00	0	16.92
04/11/20	2020	4	11	491.39	25,779.5	52	29.7	2.18	6.70	3.33	10.22	0.00	0.00	0.00	0	16.91
04/12/20	2020	4	12	491.41	25,791.4	52	11.9	2.18	6.69	3.33	10.22	0.00	0.00	0.00	0	16.91
04/13/20	2020	4	13	491.43	25,803.2	52	11.9	2.18	6.69	3.33	10.22	0.00	0.00	0.00	0	16.91
04/14/20	2020	4	14	491.45	25,815.1	52	11.9	2.18	6.69	3.33	10.22	0.00	0.00	0.00	0	16.91
04/15/20	2020	4	15	491.45	25,815.1	52	0.0	2.18	6.69	3.32	10.19	0.00	0.00	0.00	0	16.88
04/16/20	2020	4	16	491.45	25,815.1	52	0.0	2.18	6.69	3.32	10.19	0.00	0.00	0.00	0	16.88
04/17/20	2020	4	17	491.45	25,815.1	52	0.0	2.18	6.69	3.32	10.19	0.00	0.00	0.00	0	16.88
04/18/20	2020	4	18	491.46	25,821.1	52	5.9	2.18	6.69	3.32	10.19	0.00	0.00	0.00	0	16.88
04/19/20	2020	4	19	491.46	25,821.1	52	0.0	2.19	6.71	3.33	10.21	0.00	0.00	0.00	0	16.91
04/20/20	2020	4	20	491.45	25,815.1	52	-5.9	2.19	6.71	3.33	10.21	0.00	0.00	0.00	0	16.91
04/21/20	2020	4	21	491.45	25,815.1	52	0.0	2.37	7.26	3.33	10.21	0.00	0.00	0.00	0	17.48
04/22/20	2020	4	22	491.43	25,803.2	52	-11.9	2.49	7.64	3.33	10.20	0.00	0.00	0.00	0	17.84
04/23/20	2020	4	23	491.42	25,797.3	52	-5.9	2.49	7.65	3.75	11.52	0.00	0.00	0.00	0	19.17
04/24/20	2020	4	24	491.40	25,785.4	52	-11.9	2.49	7.64	3.88	11.91	0.00	0.00	0.00	0	19.55
04/25/20	2020	4	25	491.38	25,773.5	52	-11.9	2.49	7.63	4.17	12.79	0.00	0.00	0.00	0	20.41
04/26/20	2020	4	26	491.35	25,755.7	52	-17.8	2.49	7.63	4.50	13.82	0.00	0.00	0.00	0	21.45
04/27/20	2020	4	27	491.33	25,743.9	52	-11.9	2.49	7.64	5.01	15.39	0.00	0.00	0.00	0	23.02
04/28/20	2020	4	28	491.29	25,720.1	52	-23.7	2.48	7.62	5.02	15.40	0.00	0.00	0.00	0	23.02
04/29/20	2020	4	29	491.27	25,708.3	52	-11.9	2.48	7.62	5.18	15.89	0.00	0.00	0.00	0	23.52
04/30/20	2020	4	30	491.25	25,696.4	52	-11.8	2.49	7.63	5.27	16.17	0.00	0.00	0.00	0	23.80
05/01/20	2020	5	1	491.21	25,672.8	52	-23.7	2.49	7.64	5.26	16.16	0.00	0.00	0.00	0	23.79
05/02/20	2020	5	2	491.16	25,643.2	52	-29.6	2.48	7.61	5.27	16.16	0.00	0.00	0.00	0	23.78



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
05/03/20	2020	5	3	491.14	25,631.4	52	-11.8	2.47	7.59	5.27	16.17	0.00	0.00	0.00	0	23.76
05/04/20	2020	5	4	491.10	25,607.7	52	-23.6	2.47	7.59	5.26	16.13	0.00	0.00	0.00	0	23.72
05/05/20	2020	5	5	491.07	25,590.0	52	-17.7	2.47	7.59	5.26	16.13	0.00	0.00	0.00	0	23.72
05/06/20	2020	5	6	491.02	25,560.5	52	-29.5	2.47	7.58	4.74	14.54	0.00	0.00	0.00	0	22.13
05/07/20	2020	5	7	490.97	25,531.0	52	-29.5	2.48	7.60	5.26	16.13	0.00	0.00	0.00	0	23.74
05/08/20	2020	5	8	490.94	25,513.3	52	-17.7	2.47	7.59	5.11	15.67	0.00	0.00	0.00	0	23.27
05/09/20	2020	5	9	490.91	25,495.7	52	-17.7	2.48	7.60	5.26	16.13	0.00	0.00	0.00	0	23.73
05/10/20	2020	5	10	490.89	25,483.9	52	-11.8	2.48	7.61	5.26	16.13	0.00	0.00	0.00	0	23.73
05/11/20	2020	5	11	490.87	25,472.1	52	-11.8	2.49	7.63	5.26	16.13	0.00	0.00	0.00	0	23.76
05/12/20	2020	5	12	490.84	25,454.5	52	-17.6	2.48	7.62	8.25	25.33	0.00	0.00	0.00	0	32.95
05/13/20	2020	5	13	490.81	25,436.8	52	-17.6	2.48	7.62	5.25	16.12	0.00	0.00	0.00	0	23.74
05/14/20	2020	5	14	490.77	25,413.3	51	-23.5	2.49	7.63	5.25	16.13	0.00	0.00	0.00	0	23.76
05/15/20	2020	5	15	490.73	25,389.9	51	-23.5	2.49	7.64	5.25	16.12	0.00	0.00	0.00	0	23.75
05/16/20	2020	5	16	490.68	25,360.5	51	-29.3	2.49	7.65	5.25	16.11	0.00	0.00	0.00	0	23.76
05/17/20	2020	5	17	490.64	25,337.1	51	-23.4	2.50	7.66	5.25	16.13	0.00	0.00	0.00	0	23.78
05/18/20	2020	5	18	490.64	25,337.1	51	0.0	2.50	7.66	5.25	16.11	0.00	0.00	0.00	0	23.77
05/19/20	2020	5	19	490.61	25,319.5	51	-17.6	2.50	7.67	5.25	16.11	0.00	0.00	0.00	0	23.78
05/20/20	2020	5	20	490.58	25,301.9	51	-17.6	2.50	7.67	5.25	16.13	0.00	0.00	0.00	0	23.80
05/21/20	2020	5	21	490.55	25,284.4	51	-17.6	2.50	7.68	5.25	16.10	0.00	0.00	0.00	0	23.78
05/22/20	2020	5	22	490.51	25,261.0	51	-23.4	2.51	7.71	5.25	16.11	0.00	0.00	0.00	0	23.82
05/23/20	2020	5	23	490.47	25,237.6	51	-23.4	2.51	7.71	5.27	16.17	0.00	0.00	0.00	0	23.89
05/24/20	2020	5	24	490.43	25,214.3	51	-23.4	2.50	7.68	5.27	16.17	0.00	0.00	0.00	0	23.85
05/25/20	2020	5	25	490.40	25,196.8	51	-17.5	2.51	7.69	5.27	16.16	0.00	0.00	0.00	0	23.85
05/26/20	2020	5	26	490.36	25,173.4	51	-23.3	2.50	7.67	5.27	16.17	0.00	0.00	0.00	0	23.84
05/27/20	2020	5	27	490.32	25,150.1	51	-23.3	2.49	7.65	5.28	16.20	0.00	0.00	0.00	0	23.85
05/28/20	2020	5	28	490.28	25,126.8	51	-23.3	2.49	7.65	5.27	16.19	0.00	0.00	0.00	0	23.83



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
05/29/20	2020	5	29	490.24	25,103.5	51	-23.3	2.49	7.64	5.26	16.14	0.00	0.00	0.00	0	23.78
05/30/20	2020	5	30	490.22	25,091.9	51	-11.6	2.49	7.65	5.27	16.18	0.00	0.00	0.00	0	23.83
05/31/20	2020	5	31	490.18	25,068.6	51	-23.3	2.49	7.64	5.27	16.16	0.00	0.00	0.00	0	23.80
06/01/20	2020	6	1	490.14	25,045.4	51	-23.2	3.02	9.27	5.24	16.07	0.00	0.00	0.00	0	25.34
06/02/20	2020	6	2	490.12	25,033.8	51	-11.6	3.43	10.52	5.25	16.11	0.00	0.00	0.00	0	26.63
06/03/20	2020	6	3	490.08	25,010.6	51	-23.2	3.44	10.55	5.25	16.13	0.00	0.00	0.00	0	26.68
06/04/20	2020	6	4	490.04	24,987.4	51	-23.2	3.43	10.54	5.25	16.10	0.00	0.00	0.00	0	26.63
06/05/20	2020	6	5	490.00	24,964.2	51	-23.2	3.35	10.27	5.25	16.10	0.00	0.00	0.00	0	26.37
06/06/20	2020	6	6	489.98	24,952.6	51	-11.6	3.18	9.75	5.24	16.09	0.00	0.00	0.00	0	25.85
06/07/20	2020	6	7	489.93	24,923.7	50	-28.9	3.18	9.75	5.25	16.12	0.00	0.00	0.00	0	25.87
06/08/20	2020	6	8	489.87	24,889.0	50	-34.7	3.18	9.75	5.26	16.13	0.00	0.00	0.00	0	25.88
06/09/20	2020	6	9	489.82	24,860.1	50	-28.9	3.17	9.74	5.26	16.13	0.00	0.00	0.00	0	25.87
06/10/20	2020	6	10	489.77	24,831.3	50	-28.9	3.17	9.73	5.26	16.13	0.00	0.00	0.00	0	25.87
06/11/20	2020	6	11	489.71	24,796.7	50	-34.6	3.17	9.74	5.26	16.13	0.00	0.00	0.00	0	25.87
06/12/20	2020	6	12	489.68	24,779.4	50	-17.3	3.00	9.21	5.26	16.13	0.00	0.00	0.00	0	25.34
06/13/20	2020	6	13	489.64	24,756.3	50	-23.0	2.84	8.72	5.26	16.13	0.00	0.00	0.00	0	24.85
06/14/20	2020	6	14	489.60	24,733.3	50	-23.0	2.83	8.69	5.27	16.17	0.00	0.00	0.00	0	24.86
06/15/20	2020	6	15	489.55	24,704.6	50	-28.7	2.64	8.10	5.50	16.88	0.00	0.00	0.00	0	24.98
06/16/20	2020	6	16	489.50	24,675.9	50	-28.7	2.52	7.73	5.46	16.77	0.00	0.00	0.00	0	24.50
06/17/20	2020	6	17	489.45	24,647.2	50	-28.7	2.52	7.72	5.51	16.92	0.00	0.00	0.00	0	24.65
06/18/20	2020	6	18	489.41	24,624.3	50	-22.9	2.52	7.72	5.65	17.33	0.00	0.00	0.00	0	25.06
06/19/20	2020	6	19	489.36	24,595.6	50	-28.6	2.52	7.73	5.71	17.54	0.00	0.00	0.00	0	25.27
06/20/20	2020	6	20	489.33	24,578.4	50	-17.2	2.52	7.73	5.72	17.55	0.00	0.00	0.00	0	25.27
06/21/20	2020	6	21	489.28	24,549.8	50	-28.6	2.51	7.70	5.72	17.55	0.00	0.00	0.00	0	25.25
06/22/20	2020	6	22	489.24	24,527.0	50	-22.9	2.52	7.73	5.71	17.52	0.00	0.00	0.00	0	25.26
06/23/20	2020	6	23	489.19	24,498.4	50	-28.6	2.52	7.73	5.71	17.51	0.00	0.00	0.00	0	25.25



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				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
06/24/20	2020	6	24	489.14	24,469.9	50	-28.5	2.36	7.24	5.71	17.51	0.00	0.00	0.00	0	24.75
06/25/20	2020	6	25	489.10	24,447.1	50	-22.8	2.07	6.34	5.71	17.51	0.00	0.00	0.00	0	23.85
06/26/20	2020	6	26	489.07	24,430.0	49	-17.1	2.00	6.14	5.71	17.51	0.00	0.00	0.00	0	23.65
06/27/20	2020	6	27	489.04	24,412.9	49	-17.1	1.93	5.91	5.70	17.49	0.00	0.00	0.00	0	23.40
06/28/20	2020	6	28	489.00	24,390.1	49	-22.8	1.93	5.92	5.70	17.49	0.00	0.00	0.00	0	23.42
06/29/20	2020	6	29	488.95	24,361.7	49	-28.4	1.93	5.92	5.70	17.49	0.00	0.00	0.00	0	23.41
06/30/20	2020	6	30	488.90	24,333.3	49	-28.4	1.93	5.92	5.70	17.50	0.00	0.00	0.00	0	23.42
07/01/20	2020	7	1	488.84	24,299.3	49	-34.0	1.92	5.90	5.81	17.84	0.00	0.00	0.00	0	23.75
07/02/20	2020	7	2	488.81	24,282.3	49	-17.0	1.92	5.89	6.00	18.40	0.00	0.00	0.00	0	24.29
07/03/20	2020	7	3	488.76	24,253.9	49	-28.3	1.92	5.89	5.99	18.38	0.00	0.00	0.00	0	24.26
07/04/20	2020	7	4	488.72	24,231.3	49	-22.6	1.91	5.87	5.99	18.40	0.00	0.00	0.00	0	24.26
07/05/20	2020	7	5	488.68	24,208.7	49	-22.6	1.92	5.88	6.01	18.44	0.00	0.00	0.00	0	24.31
07/06/20	2020	7	6	488.63	24,180.4	49	-28.3	1.93	5.92	6.00	18.42	0.00	0.00	0.00	0	24.34
07/07/20	2020	7	7	488.56	24,140.9	49	-39.5	1.93	5.92	6.00	18.42	0.00	0.00	0.00	0	24.34
07/08/20	2020	7	8	488.50	24,107.0	49	-33.8	1.93	5.92	6.00	18.41	0.00	0.00	0.00	0	24.32
07/09/20	2020	7	9	488.46	24,084.5	49	-22.5	1.93	5.91	6.02	18.46	0.00	0.00	0.00	0	24.37
07/10/20	2020	7	10	488.41	24,056.3	49	-28.1	1.92	5.90	6.01	18.44	0.00	0.00	0.00	0	24.33
07/11/20	2020	7	11	488.36	24,028.2	49	-28.1	1.93	5.91	6.01	18.43	0.00	0.00	0.00	0	24.34
07/12/20	2020	7	12	488.31	24,000.1	49	-28.1	1.92	5.90	5.73	17.59	0.00	0.00	0.00	0	23.49
07/13/20	2020	7	13	488.26	23,972.1	49	-28.1	1.93	5.91	5.60	17.18	0.00	0.00	0.00	0	23.09
07/14/20	2020	7	14	488.21	23,944.0	48	-28.0	1.95	5.99	2.47	7.59	0.00	0.00	0.00	0	13.58
07/15/20	2020	7	15	488.20	23,938.4	48	-5.6	1.98	6.09	0.04	0.12	0.00	0.00	0.00	0	6.20
07/16/20	2020	7	16	488.18	23,927.2	48	-11.2	1.96	6.02	2.94	9.03	0.00	0.00	0.00	0	15.05
07/17/20	2020	7	17	488.14	23,904.8	48	-22.4	1.97	6.04	6.01	18.45	0.00	0.00	0.00	0	24.49
07/18/20	2020	7	18	488.08	23,871.2	48	-33.6	1.98	6.07	6.02	18.46	0.00	0.00	0.00	0	24.54
07/19/20	2020	7	19	488.04	23,848.9	48	-22.4	1.97	6.05	6.20	19.03	0.00	0.00	0.00	0	25.07



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
07/20/20	2020	7	20	487.99	23,820.9	48	-27.9	1.97	6.05	6.40	19.64	0.00	0.00	0.00	0	25.69
07/21/20	2020	7	21	487.94	23,793.0	48	-27.9	1.98	6.08	6.40	19.64	0.00	0.00	0.00	0	25.72
07/22/20	2020	7	22	487.88	23,759.6	48	-33.4	1.98	6.08	6.40	19.64	0.00	0.00	0.00	0	25.72
07/23/20	2020	7	23	487.84	23,737.3	48	-22.3	1.97	6.06	6.40	19.65	0.00	0.00	0.00	0	25.71
07/24/20	2020	7	24	487.78	23,703.9	48	-33.4	1.97	6.05	6.41	19.67	0.00	0.00	0.00	0	25.72
07/25/20	2020	7	25	487.73	23,676.1	48	-27.8	1.97	6.05	6.43	19.72	0.00	0.00	0.00	0	25.77
07/26/20	2020	7	26	487.70	23,659.5	48	-16.7	1.98	6.06	6.43	19.74	0.00	0.00	0.00	0	25.80
07/27/20	2020	7	27	487.63	23,620.6	48	-38.8	1.98	6.06	6.44	19.75	0.00	0.00	0.00	0	25.81
07/28/20	2020	7	28	487.58	23,592.9	48	-27.7	1.97	6.06	6.43	19.74	0.00	0.00	0.00	0	25.80
07/29/20	2020	7	29	487.52	23,559.7	48	-33.2	1.97	6.05	6.43	19.75	0.00	0.00	0.00	0	25.80
07/30/20	2020	7	30	487.47	23,532.0	48	-27.7	1.97	6.04	6.44	19.76	0.00	0.00	0.00	0	25.80
07/31/20	2020	7	31	487.42	23,504.4	48	-27.6	1.97	6.04	6.44	19.76	0.00	0.00	0.00	0	25.80
08/01/20	2020	8	1	487.37	23,476.8	48	-27.6	1.97	6.03	6.45	19.78	0.00	0.00	0.00	0	25.81
08/02/20	2020	8	2	487.30	23,438.2	47	-38.6	1.96	6.02	6.44	19.76	0.00	0.00	0.00	0	25.79
08/03/20	2020	8	3	487.26	23,416.1	47	-22.0	1.96	6.03	5.87	18.01	0.00	0.00	0.00	0	24.04
08/04/20	2020	8	4	487.18	23,372.1	47	-44.0	1.96	6.02	5.21	15.98	0.00	0.00	0.00	0	22.00
08/05/20	2020	8	5	487.14	23,350.1	47	-22.0	1.97	6.04	5.20	15.97	0.00	0.00	0.00	0	22.01
08/06/20	2020	8	6	487.09	23,322.7	47	-27.5	1.98	6.08	5.41	16.59	0.00	0.00	0.00	0	22.67
08/07/20	2020	8	7	487.04	23,295.2	47	-27.4	1.98	6.08	5.50	16.89	0.00	0.00	0.00	0	22.97
08/08/20	2020	8	8	487.00	23,273.3	47	-21.9	1.98	6.08	5.62	17.25	0.00	0.00	0.00	0	23.33
08/09/20	2020	8	9	486.95	23,245.9	47	-27.4	1.99	6.10	5.72	17.56	0.00	0.00	0.00	0	23.66
08/10/20	2020	8	10	486.91	23,224.0	47	-21.9	1.99	6.12	5.72	17.57	0.00	0.00	0.00	0	23.68
08/11/20	2020	8	11	486.85	23,191.2	47	-32.8	1.99	6.12	5.72	17.55	0.00	0.00	0.00	0	23.67
08/12/20	2020	8	12	486.81	23,169.4	47	-21.8	1.99	6.10	5.72	17.54	0.00	0.00	0.00	0	23.64
08/13/20	2020	8	13	486.75	23,136.6	47	-32.7	1.99	6.11	5.72	17.56	0.00	0.00	0.00	0	23.67
08/14/20	2020	8	14	486.71	23,114.8	47	-21.8	2.16	6.62	5.70	17.51	0.00	0.00	0.00	0	24.13



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
08/15/20	2020	8	15	486.65	23,082.1	47	-32.7	2.85	8.74	5.70	17.48	0.00	0.00	0.00	0	26.22
08/16/20	2020	8	16	486.61	23,060.4	47	-21.8	3.01	9.25	5.72	17.54	0.00	0.00	0.00	0	26.79
08/17/20	2020	8	17	486.56	23,033.2	47	-27.2	3.01	9.24	5.71	17.53	0.00	0.00	0.00	0	26.77
08/18/20	2020	8	18	486.52	23,011.5	47	-21.7	3.30	10.14	5.69	17.46	0.00	0.00	0.00	0	27.60
08/19/20	2020	8	19	486.45	22,973.5	47	-38.0	3.46	10.60	5.69	17.46	0.00	0.00	0.00	0	28.07
08/20/20	2020	8	20	486.38	22,935.5	46	-37.9	3.45	10.60	5.72	17.55	0.00	0.00	0.00	0	28.15
08/21/20	2020	8	21	486.30	22,892.3	46	-43.3	3.45	10.60	5.72	17.56	0.00	0.00	0.00	0	28.16
08/22/20	2020	8	22	486.26	22,870.6	46	-21.6	3.46	10.61	5.72	17.55	0.00	0.00	0.00	0	28.16
08/23/20	2020	8	23	486.20	22,838.2	46	-32.4	3.46	10.61	5.72	17.56	0.00	0.00	0.00	0	28.17
08/24/20	2020	8	24	486.17	22,822.1	46	-16.2	3.45	10.59	5.71	17.52	0.00	0.00	0.00	0	28.11
08/25/20	2020	8	25	486.12	22,795.1	46	-27.0	3.45	10.59	5.71	17.52	0.00	0.00	0.00	0	28.11
08/26/20	2020	8	26	486.07	22,768.2	46	-26.9	3.45	10.59	5.62	17.25	0.00	0.00	0.00	0	27.84
08/27/20	2020	8	27	485.99	22,725.1	46	-43.0	3.45	10.59	5.51	16.92	0.00	0.00	0.00	0	27.51
08/28/20	2020	8	28	485.93	22,692.9	46	-32.2	3.46	10.62	5.52	16.94	0.00	0.00	0.00	0	27.55
08/29/20	2020	8	29	485.86	22,655.4	46	-37.6	3.46	10.62	5.52	16.93	0.00	0.00	0.00	0	27.54
08/30/20	2020	8	30	485.80	22,623.2	46	-32.1	3.45	10.60	5.51	16.91	0.00	0.00	0.00	0	27.51
08/31/20	2020	8	31	485.76	22,601.8	46	-21.4	3.46	10.63	4.02	12.35	0.00	0.00	0.00	0	22.97
09/01/20	2020	9	1	485.72	22,580.4	46	-21.4	3.47	10.64	1.73	5.32	0.00	0.00	0.00	0	15.96
09/02/20	2020	9	2	485.68	22,559.0	46	-21.4	3.47	10.64	4.43	13.60	0.00	0.00	0.00	0	24.24
09/03/20	2020	9	3	485.62	22,527.0	46	-32.0	3.47	10.64	4.85	14.88	0.00	0.00	0.00	0	25.52
09/04/20	2020	9	4	485.58	22,505.7	46	-21.3	3.45	10.58	5.19	15.92	0.00	0.00	0.00	0	26.50
09/05/20	2020	9	5	485.51	22,468.4	45	-37.3	3.46	10.61	5.41	16.60	0.00	0.00	0.00	0	27.21
09/06/20	2020	9	6	485.44	22,431.1	45	-37.2	3.46	10.61	5.51	16.92	0.00	0.00	0.00	0	27.53
09/07/20	2020	9	7	485.37	22,393.9	45	-37.2	3.45	10.59	5.52	16.95	0.00	0.00	0.00	0	27.55
09/08/20	2020	9	8	485.33	22,372.7	45	-21.2	3.45	10.59	5.52	16.94	0.00	0.00	0.00	0	27.53
09/09/20	2020	9	9	485.30	22,356.8	45	-15.9	3.44	10.57	5.52	16.94	0.00	0.00	0.00	0	27.51



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
09/10/20	2020	9	10	485.26	22,335.6	45	-21.2	3.44	10.57	5.52	16.93	0.00	0.00	0.00	0	27.50
09/11/20	2020	9	11	485.19	22,298.5	45	-37.1	3.45	10.59	5.51	16.91	0.00	0.00	0.00	0	27.50
09/12/20	2020	9	12	485.15	22,277.3	45	-21.2	3.45	10.60	5.51	16.92	0.00	0.00	0.00	0	27.52
09/13/20	2020	9	13	485.09	22,245.6	45	-31.7	3.45	10.59	5.51	16.90	0.00	0.00	0.00	0	27.49
09/14/20	2020	9	14	485.03	22,214.0	45	-31.7	3.32	10.19	5.50	16.86	0.00	0.00	0.00	0	27.05
09/15/20	2020	9	15	484.97	22,182.3	45	-31.6	2.97	9.11	5.38	16.50	0.00	0.00	0.00	0	25.61
09/16/20	2020	9	16	484.91	22,150.8	45	-31.6	2.63	8.06	5.51	16.91	0.00	0.00	0.00	0	24.97
09/17/20	2020	9	17	484.84	22,113.9	45	-36.8	2.32	7.12	5.50	16.88	0.00	0.00	0.00	0	24.00
09/18/20	2020	9	18	484.80	22,092.9	45	-21.0	2.04	6.26	5.50	16.88	0.00	0.00	0.00	0	23.14
09/19/20	2020	9	19	484.77	22,077.2	45	-15.7	1.85	5.68	5.50	16.88	0.00	0.00	0.00	0	22.56
09/20/20	2020	9	20	484.72	22,051.0	45	-26.2	1.85	5.67	5.49	16.86	0.00	0.00	0.00	0	22.53
09/21/20	2020	9	21	484.69	22,035.2	45	-15.7	1.84	5.66	5.76	17.68	0.00	0.00	0.00	0	23.34
09/22/20	2020	9	22	484.64	22,009.1	45	-26.2	1.84	5.65	6.00	18.41	0.00	0.00	0.00	0	24.06
09/23/20	2020	9	23	484.58	21,977.7	45	-31.4	1.84	5.65	5.99	18.40	0.00	0.00	0.00	0	24.05
09/24/20	2020	9	24	484.52	21,946.3	44	-31.3	1.85	5.68	5.69	17.47	0.00	0.00	0.00	0	23.14
09/25/20	2020	9	25	484.47	21,920.2	44	-26.1	1.86	5.69	5.49	16.84	0.00	0.00	0.00	0	22.53
09/26/20	2020	9	26	484.42	21,894.2	44	-26.1	1.85	5.66	5.52	16.94	0.00	0.00	0.00	0	22.60
09/27/20	2020	9	27	484.36	21,862.9	44	-31.2	1.84	5.66	5.51	16.92	0.00	0.00	0.00	0	22.57
09/28/20	2020	9	28	484.33	21,847.3	44	-15.6	1.84	5.65	5.51	16.90	0.00	0.00	0.00	0	22.55
09/29/20	2020	9	29	484.29	21,826.5	44	-20.8	1.84	5.66	5.39	16.55	0.00	0.00	0.00	0	22.21
09/30/20	2020	9	30	484.25	21,805.7	44	-20.8	1.84	5.66	5.22	16.01	0.00	0.00	0.00	0	21.66
10/01/20	2020	10	1	484.21	21,785.0	44	-20.8	1.84	5.65	5.21	15.98	0.00	0.00	0.00	0	21.63
10/02/20	2020	10	2	484.14	21,748.7	44	-36.3	1.85	5.67	5.20	15.97	0.00	0.00	0.00	0	21.64
10/03/20	2020	10	3	484.07	21,712.4	44	-36.2	1.85	5.69	5.20	15.96	0.00	0.00	0.00	0	21.65
10/04/20	2020	10	4	484.03	21,691.7	44	-20.7	1.86	5.70	5.20	15.94	0.00	0.00	0.00	0	21.64
10/05/20	2020	10	5	484.00	21,676.2	44	-15.5	1.86	5.70	5.19	15.93	0.00	0.00	0.00	0	21.63



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)
10/06/20	2020	10	6	483.97	21,660.7	44	-15.5	1.84	5.66	5.19	15.91	0.00	0.00	0.00	0	21.57
10/07/20	2020	10	7	483.93	21,640.1	44	-20.6	1.85	5.69	5.18	15.89	0.00	0.00	0.00	0	21.58
10/08/20	2020	10	8	483.90	21,624.6	44	-15.5	1.84	5.64	5.06	15.53	0.00	0.00	0.00	0	21.17
10/09/20	2020	10	9	483.86	21,604.0	44	-20.6	1.85	5.66	5.20	15.95	0.00	0.00	0.00	0	21.61
10/10/20	2020	10	10	483.83	21,588.5	44	-15.5	1.85	5.68	5.17	15.85	0.00	0.00	0.00	0	21.53
10/11/20	2020	10	11	483.76	21,552.5	44	-36.0	1.85	5.69	5.17	15.86	0.00	0.00	0.00	0	21.55
10/12/20	2020	10	12	483.72	21,531.9	44	-20.6	1.86	5.71	5.17	15.86	0.00	0.00	0.00	0	21.57
10/13/20	2020	10	13	483.66	21,501.1	44	-30.8	1.87	5.75	5.22	16.02	0.00	0.00	0.00	0	21.77
10/14/20	2020	10	14	483.66	21,501.1	44	0.0	2.11	6.48	5.06	15.53	0.00	0.00	0.00	0	22.00
10/15/20	2020	10	15	483.56	21,449.9	43	-51.3	2.48	7.61	4.96	15.21	0.00	0.00	0.00	0	22.82
10/16/20	2020	10	16	483.52	21,429.4	43	-20.5	2.74	8.41	4.91	15.08	0.00	0.00	0.00	0	23.49
10/17/20	2020	10	17	483.47	21,403.8	43	-25.6	2.94	9.03	5.04	15.47	0.00	0.00	0.00	0	24.50
10/18/20	2020	10	18	483.43	21,383.4	43	-20.4	2.99	9.18	5.32	16.34	0.00	0.00	0.00	0	25.52
10/19/20	2020	10	19	483.38	21,357.9	43	-25.5	3.34	10.26	5.53	16.98	0.00	0.00	0.00	0	27.24
10/20/20	2020	10	20	483.32	21,327.3	43	-30.6	3.50	10.75	4.90	15.05	0.00	0.00	0.00	0	25.80
10/21/20	2020	10	21	483.28	21,306.9	43	-20.4	3.50	10.74	5.45	16.71	0.00	0.00	0.00	0	27.46
10/22/20	2020	10	22	483.24	21,286.5	43	-20.4	3.50	10.74	5.54	17.00	0.00	0.00	0.00	0	27.74
10/23/20	2020	10	23	483.19	21,261.1	43	-25.4	3.50	10.74	5.54	17.00	0.00	0.00	0.00	0	27.74
10/24/20	2020	10	24	483.14	21,235.7	43	-25.4	3.50	10.74	5.54	16.99	0.00	0.00	0.00	0	27.74
10/25/20	2020	10	25	483.10	21,215.4	43	-20.3	3.50	10.75	5.54	17.00	0.00	0.00	0.00	0	27.75
10/26/20	2020	10	26	483.06	21,195.1	43	-20.3	3.50	10.74	5.53	16.97	0.00	0.00	0.00	0	27.71
10/27/20	2020	10	27	483.00	21,164.7	43	-30.4	3.49	10.71	5.28	16.20	0.00	0.00	0.00	0	26.91
10/28/20	2020	10	28	482.94	21,134.3	43	-30.4	3.50	10.73	5.21	15.99	0.00	0.00	0.00	0	26.72
10/29/20	2020	10	29	482.88	21,104.0	43	-30.3	3.50	10.73	5.55	17.04	0.00	0.00	0.00	0	27.77
10/30/20	2020	10	30	482.83	21,078.8	43	-25.2	3.49	10.72	5.69	17.47	0.00	0.00	0.00	0	28.19
10/31/20	2020	10	31	482.78	21,053.6	43	-25.2	3.49	10.72	5.83	17.90	0.00	0.00	0.00	0	28.62



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(AF)
11/01/20	2020	11	1	482.68	21,003.2	43	-50.3	3.49	10.71	6.15	18.87	0.00	0.00	0.00	0	29.57
11/02/20	2020	11	2	482.65	20,988.1	42	-15.1	3.49	10.71	6.25	19.18	0.00	0.00	0.00	0	29.88
11/03/20	2020	11	3	482.60	20,963.0	42	-25.1	3.48	10.68	6.25	19.19	0.00	0.00	0.00	0	29.87
11/04/20	2020	11	4	482.56	20,942.9	42	-20.1	3.48	10.69	6.26	19.20	0.00	0.00	0.00	0	29.89
11/05/20	2020	11	5	482.49	20,907.9	42	-35.1	3.57	10.96	6.25	19.17	0.00	0.00	0.00	0	30.13
11/06/20	2020	11	6	482.42	20,872.8	42	-35.0	3.53	10.83	6.33	19.43	0.00	0.00	0.00	0	30.26
11/07/20	2020	11	7	482.41	20,867.8	42	-5.0	3.53	10.82	6.34	19.46	0.00	0.00	0.00	0	30.27
11/08/20	2020	11	8	482.40	20,862.8	42	-5.0	3.53	10.83	4.95	15.19	0.00	0.00	0.00	0	26.03
11/09/20	2020	11	9	482.36	20,842.8	42	-20.0	3.54	10.85	4.55	13.96	0.00	0.00	0.00	0	24.80
11/10/20	2020	11	10	482.31	20,817.8	42	-25.0	3.54	10.86	4.54	13.95	0.00	0.00	0.00	0	24.81
11/11/20	2020	11	11	482.26	20,792.9	42	-24.9	3.54	10.88	4.54	13.94	0.00	0.00	0.00	0	24.82
11/12/20	2020	11	12	482.22	20,773.0	42	-19.9	3.54	10.87	4.54	13.93	0.00	0.00	0.00	0	24.81
11/13/20	2020	11	13	482.18	20,753.0	42	-19.9	3.54	10.87	4.61	14.14	0.00	0.00	0.00	0	25.01
11/14/20	2020	11	14	482.14	20,733.1	42	-19.9	3.54	10.86	4.64	14.25	0.00	0.00	0.00	0	25.12
11/15/20	2020	11	15	482.09	20,708.3	42	-24.9	3.54	10.85	4.65	14.26	0.00	0.00	0.00	0	25.11
11/16/20	2020	11	16	482.04	20,683.5	42	-24.8	3.53	10.83	4.64	14.25	0.00	0.00	0.00	0	25.08
11/17/20	2020	11	17	481.99	20,658.7	42	-24.8	3.53	10.82	4.64	14.24	0.00	0.00	0.00	0	25.07
11/18/20	2020	11	18	481.97	20,648.7	42	-9.9	3.52	10.81	5.09	15.61	0.00	0.00	0.00	0	26.42
11/19/20	2020	11	19	481.93	20,628.9	42	-19.8	3.50	10.74	5.30	16.27	0.00	0.00	0.00	0	27.01
11/20/20	2020	11	20	481.88	20,604.2	42	-24.7	3.50	10.74	5.30	16.27	0.00	0.00	0.00	0	27.01
11/21/20	2020	11	21	481.84	20,584.4	42	-19.8	3.56	10.93	5.56	17.06	0.00	0.00	0.00	0	28.00
11/22/20	2020	11	22	481.79	20,559.7	42	-24.7	3.56	10.93	5.56	17.05	0.00	0.00	0.00	0	27.99
11/23/20	2020	11	23	481.75	20,540.0	42	-19.7	3.56	10.94	5.56	17.05	0.00	0.00	0.00	0	27.99
11/24/20	2020	11	24	481.70	20,515.3	42	-24.7	3.56	10.94	5.56	17.05	0.00	0.00	0.00	0	27.99
11/25/20	2020	11	25	481.66	20,495.6	41	-19.7	3.56	10.93	5.56	17.07	0.00	0.00	0.00	0	28.00
11/26/20	2020	11	26	481.59	20,461.2	41	-34.4	3.56	10.92	5.55	17.05	0.00	0.00	0.00	0	27.97
11/27/20	2020	11	27	481.56	20,446.4	41	-14.7	3.56	10.92	5.56	17.05	0.00	0.00	0.00	0	27.97



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(AF)
11/28/20	2020	11	28	481.50	20,417.0	41	-29.5	3.56	10.93	5.52	16.95	0.00	0.00	0.00	0	27.88
11/29/20	2020	11	29	481.46	20,397.4	41	-19.6	3.56	10.92	5.51	16.92	0.00	0.00	0.00	0	27.84
11/30/20	2020	11	30	481.43	20,382.7	41	-14.7	3.56	10.92	5.51	16.91	0.00	0.00	0.00	0	27.83
12/01/20	2020	12	1	481.37	20,353.3	41	-29.4	3.56	10.91	5.53	16.96	0.00	0.00	0.00	0	27.87
12/02/20	2020	12	2	481.32	20,328.8	41	-24.5	3.56	10.91	5.54	17.01	0.00	0.00	0.00	0	27.92
12/03/20	2020	12	3	481.27	20,304.4	41	-24.4	3.56	10.91	5.54	17.00	0.00	0.00	0.00	0	27.91
12/04/20	2020	12	4	481.21	20,275.1	41	-29.3	3.55	10.90	5.51	16.91	0.00	0.00	0.00	0	27.81
12/05/20	2020	12	5	481.16	20,250.8	41	-24.4	3.55	10.90	5.54	17.01	0.00	0.00	0.00	0	27.91
12/06/20	2020	12	6	481.11	20,226.4	41	-24.3	3.55	10.90	5.53	16.98	0.00	0.00	0.00	0	27.89
12/07/20	2020	12	7	481.07	20,207.0	41	-19.5	3.55	10.90	5.53	16.97	0.00	0.00	0.00	0	27.87
12/08/20	2020	12	8	481.01	20,177.8	41	-29.2	3.55	10.90	5.29	16.24	0.00	0.00	0.00	0	27.14
12/09/20	2020	12	9	480.97	20,158.4	41	-19.4	3.56	10.91	5.02	15.39	0.00	0.00	0.00	0	26.30
12/10/20	2020	12	10	480.92	20,134.2	41	-24.2	3.55	10.90	5.01	15.39	0.00	0.00	0.00	0	26.28
12/11/20	2020	12	11	480.89	20,119.6	41	-14.5	3.55	10.90	5.01	15.38	0.00	0.00	0.00	0	26.28
12/12/20	2020	12	12	480.85	20,100.3	41	-19.4	3.55	10.90	5.01	15.37	0.00	0.00	0.00	0	26.27
12/13/20	2020	12	13	480.81	20,080.9	41	-19.3	3.55	10.90	4.97	15.26	0.00	0.00	0.00	0	26.16
12/14/20	2020	12	14	480.77	20,061.6	41	-19.3	3.55	10.90	4.95	15.20	0.00	0.00	0.00	0	26.10
12/15/20	2020	12	15	480.74	20,047.1	41	-14.5	3.55	10.90	4.95	15.20	0.00	0.00	0.00	0	26.10
12/16/20	2020	12	16	480.70	20,027.8	41	-19.3	3.55	10.90	4.95	15.19	0.00	0.00	0.00	0	26.09
12/17/20	2020	12	17	480.66	20,008.5	41	-19.3	3.55	10.88	4.99	15.31	0.00	0.00	0.00	0	26.20
12/18/20	2020	12	18	480.63	19,994.1	40	-14.5	3.55	10.89	5.03	15.45	0.00	0.00	0.00	0	26.33
12/19/20	2020	12	19	480.58	19,970.0	40	-24.1	3.55	10.89	5.03	15.43	0.00	0.00	0.00	0	26.32
12/20/20	2020	12	20	480.54	19,950.8	40	-19.2	3.55	10.89	4.92	15.11	0.00	0.00	0.00	0	26.00
12/21/20	2020	12	21	480.50	19,931.5	40	-19.2	3.55	10.89	4.86	14.93	0.00	0.00	0.00	0	25.82
12/22/20	2020	12	22	480.45	19,907.5	40	-24.0	3.55	10.89	4.48	13.74	0.00	0.00	0.00	0	24.64
12/23/20	2020	12	23	480.41	19,888.4	40	-19.2	3.55	10.89	4.66	14.30	0.00	0.00	0.00	0	25.19
12/24/20	2020	12	24	480.37	19,869.2	40	-19.2	3.55	10.90	4.38	13.43	0.00	0.00	0.00	0	24.32



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Date	Year	Month	Day	Lake	Capacity	Percent	Cap.	Downstream		Pipeline		Other		Spillway		Total
				Elevation		Full	Change	Release		Diversion		Releases		Discharge		Discharge
				(Ft)	(AF)	(%)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(MGD)	(AF)	(AF)
12/25/20	2020	12	25	480.34	19,854.8	40	-14.4	3.55	10.89	4.13	12.68	0.00	0.00	0.00	0	23.56
12/26/20	2020	12	26	480.30	19,835.7	40	-19.1	3.55	10.89	4.13	12.68	0.00	0.00	0.00	0	23.56
12/27/20	2020	12	27	480.28	19,826.1	40	-9.6	3.55	10.89	4.13	12.66	0.00	0.00	0.00	0	23.55
12/28/20	2020	12	28	480.36	19,864.4	40	38.3	3.55	10.89	4.13	12.66	0.00	0.00	0.00	0	23.55
12/29/20	2020	12	29	480.35	19,859.6	40	-4.8	3.55	10.89	4.00	12.27	0.00	0.00	0.00	0	23.16
12/30/20	2020	12	30	480.33	19,850.1	40	-9.6	3.55	10.90	4.00	12.27	0.00	0.00	0.00	0	23.17
12/31/20	2020	12	31	480.28	19,826.1	40	-23.9	3.55	10.89	4.01	12.30	0.00	0.00	0.00	0	23.19