

## **NOTICE AND CALL OF MEETING**

### **LAS VEGAS VALLEY WATERSHED ADVISORY COMMITTEE**

Tuesday October 19, 2021 2:00 p.m.  
MEETING TO BE HELD VIRTUALLY

Join Microsoft Teams Meeting: **1-323-776-6758** / Conference ID: **352 666 261#**

The Las Vegas Valley Watershed Advisory Committee makes reasonable efforts to assist and accommodate persons with physical disabilities who desire to attend the meeting. For assistance, please contact Keiba Crear at (702) 822-3388 at least 48 hours in advance of the meeting.

Visit our website at [www.snwa.com](http://www.snwa.com) for Las Vegas Valley Watershed Advisory Committee agenda postings, copies of supporting material and approved minutes. To receive meeting information, including supporting material, contact the Agenda Coordinator at (702) 258-3277 or [agendas@snwa.com](mailto:agendas@snwa.com).

This meeting will be held via remote technology only pursuant to NRS 241.023, as amended by assembly bill 253 of the 81<sup>st</sup> legislative session, effective May 31, 2021. There will be no physical location for the meeting. Members of the public may hear, observe and participate in the meeting via the meeting link or telephone number identified above. If a member of the public is interested in viewing this meeting online or providing public comment, please e-mail [jason.bailey@lvvwd.com](mailto:jason.bailey@lvvwd.com) no later than noon on October 19, 2021 to receive remote access.

Any Committee member may combine two or more agenda items for consideration, consider an item out of order, remove an item from the agenda or delay discussions relating to an item on the agenda at any time.

#### **COMMENTS BY THE GENERAL PUBLIC**

**NO ACTION MAY BE TAKEN:** This is a period devoted to comments by the general public pertaining to items on this agenda. If you wish to speak to the Committee about items within its jurisdiction, but not appearing on this agenda, you must wait until the "Comments by the General Public" period listed at the end of this agenda. Please limit your comments to three minutes or less. No action may be taken upon a matter not listed on the posted agenda.

#### **ITEM NO.**

1. *For Information Only:* Introductions
2. *For Possible Action:* Approve April 13, 2021 Meeting Minutes
3. *For Information Only:* Receive an Informational Update on Items Related to the Las Vegas Valley Watershed Advisory Committee (LVVWAC) that may appear on Future Regular Board Meetings of LVVWAC Members' Appointing Agencies
4. *For Information Only:* Receive Update on New Las Vegas Wash Coordination Committee Logo
5. *For Information Only:* Receive an Update on the Clark County Wetlands Park (Wetlands Park)
6. *For Possible Action:* Receive an Update on the Clark County Advisory Board to Manage Wildlife's Recommendation to Open the Wetlands Park for Fishing and Approve Letter of Opposition from the LVVWAC
7. *For Information Only:* Receive an Update on Regional Water Quality
8. *For Information Only:* Receive an Update from Members and Staff Regarding Water Resources, Stormwater, Wastewater and Water Quality, Including but Not Limited to Regulations, Permitting and Status of the Lower Las Vegas Wash
9. *For Possible Action:* Set Next Meeting Date and Propose Items for the Next Meeting's Agenda

#### **COMMENTS BY THE GENERAL PUBLIC**

**NO ACTION MAY BE TAKEN:** At this time, the Committee will hear general comments from the public on matters under the jurisdiction of the LVVWAC. Please limit your comments to three minutes or less.

Approved:

DocuSigned by:

*Priscilla Howell*

20803282A5C0488

Priscilla Howell, Chair

Las Vegas Valley Watershed Advisory Committee

**THIS MEETING HAS BEEN PROPERLY NOTICED AND POSTED IN THE FOLLOWING LOCATIONS:**

*City of Boulder City, City Hall*  
401 California Avenue  
Boulder City, NV 89005

*City of North Las Vegas, City Hall*  
2250 Las Vegas Boulevard North  
North Las Vegas, NV 89030

*City of Henderson, City Hall*  
240 Water Street  
Henderson, NV 89015

*Clark County Government Center*  
500 S. Grand Central Parkway  
Las Vegas, NV 89155

*Las Vegas Valley Water District*  
1001 S. Valley View Boulevard  
Las Vegas, NV 89153

*Southern Nevada Water Authority*  
100 City Parkway, Ste. 700  
Las Vegas, NV 89106

*Clark County Water Reclamation District*  
5857 E. Flamingo Road  
Las Vegas, NV 89122

*City of Las Vegas, City Hall*  
495 S. Main Street  
Las Vegas, NV 89101



# LAS VEGAS WASH COORDINATION COMMITTEE LOGO UPDATE



Las Vegas Valley  
Watershed Advisory Committee  
October 19, 2021



# LVWASH.ORG WEBSITE REDESIGN

Redesigned site required new logo. The new site:

- Launched October 11
- Has a modern design
- Is mobile friendly
- Utilizes new technology to display information
- Improves user experience
- Better exhibits photos and videos



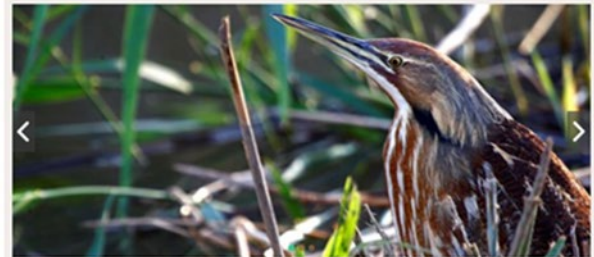
More than 200 bird species have been inventoried at the Las Vegas Wash since 1990 through surveys conducted by biologists and the cataloging of new species detected by expert birders, providing a better understanding of the species that use the Wash and how the bird community has adapted to habitat changes from the [apportionment and enhancement program](#).

A bird census was conducted from 2000 through 2006 with the [Red Rock Audubon Society](#) to collect data on the effects of the Wash program on the avian community. A total of 140 species were recorded. Surveys were conducted prior to, during, and after construction of the [Bioshield Wash](#). Species richness – the number of different species detected – declined during construction activities and then increased beyond what was originally observed after construction had been completed and the site was revegetated with native species. Biologists also conducted monthly aquatic bird counts at over sites along the Wash and at off-channel wetland sites in [Clark County](#), [Nevada](#), [Texas](#), documenting the numbers of individuals and species observed. Field crews identified a total of 50 aquatic bird species across all sites between 2005 and 2016.

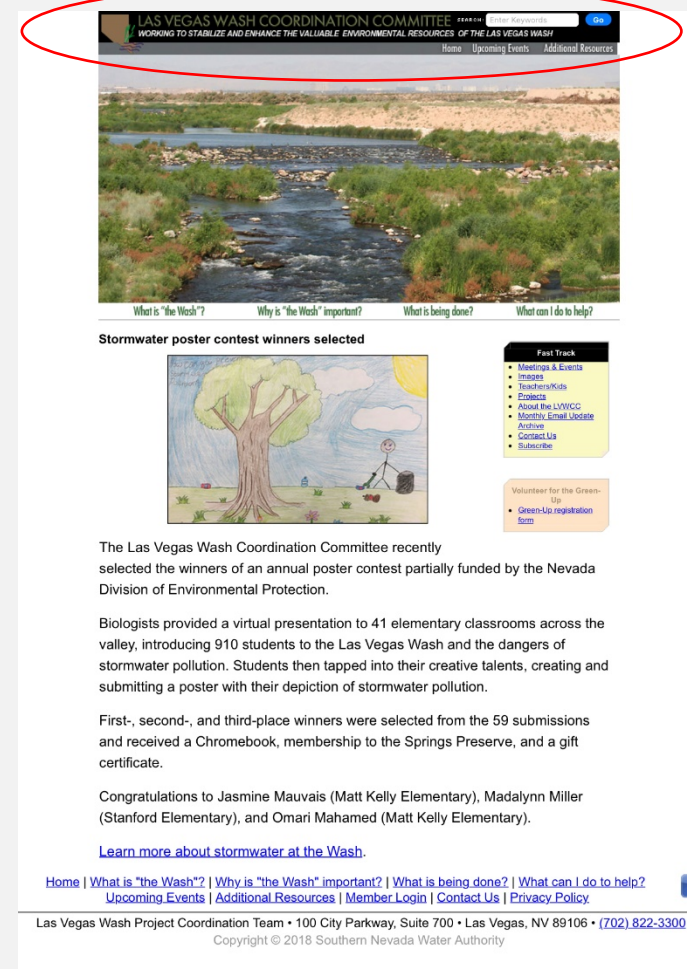
As for ongoing surveys, an avian point count study has been conducted since 2005. In this study, biologists conduct biweekly counts of birds year-round at approximately 50 points spread throughout a variety of habitats along the Wash. These counts have identified more than 225 species, as well as significant increases in the richness and abundance of birds associated with new habitat related to the stabilization and enhancement program. These increases are especially notable in birds that rely on aquatic habitats, including waterfowl species like the [gadwall](#) and [american egret](#).

## Federally threatened and endangered birds

Other ongoing bird surveys involve annual breeding season monitoring for three federally threatened and endangered bird species: [Yuma Ridgway's rail](#) (*Kallus obsoletus yumaensis*), [southwestern willow flycatcher](#) (*Empidonax swainsonii*), and [yellow-billed cuckoo](#) (*Coccyus americanus*).



# ORIGINAL LOGO



- Used for >20 years!
- Dated look
- Not mobile friendly

# NEW BANNER LOGO



**LAS VEGAS WASH**  
COORDINATION COMMITTEE



**LAS VEGAS WASH**  
COORDINATION COMMITTEE

LAS VEGAS WASH  
COORDINATION COMMITTEE



## Stormwater poster contest winners selected

The Las Vegas Wash Coordination Committee recently selected the winners of an annual poster contest partially funded by the Nevada Division of Environmental Protection.

Biologists provided a virtual presentation to 41 elementary classrooms across the valley, introducing 910 students to the Las Vegas Wash and the dangers of stormwater pollution. Students then tapped into their creative talents, creating and submitting a poster with their depiction of stormwater pollution.

First, second, and third-place winners were selected from the 59 submissions and received a Chromebook, membership to the Springs Preserve, and a gift certificate.

## Where to go at the Las Vegas Wash

### Clark County Wetlands Park

- 210-acre Nature Preserve
- Miles of trails for walking, biking, bird watching and more
- Nature Center with 10,000 square feet of interactive displays, artwork and activities

[Get Directions](#)

### Henderson Bird Viewing Preserve

- Home to thousands of migratory and resident desert birds
- Nine ponds available for birding
- 3/4-mile long trail accessible by wheelchair

[Get Directions](#)

## Ideal for:

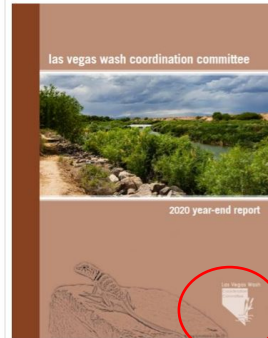
- Website banner
- Report covers
- Outreach materials with sufficient spacing

# NEW MEDALLION LOGO



## Year-End Report

- Work has begun on 2021 report
- Last annual report
  - Moving to biennial frequency with start of LTOP in FY22/23
- 2021 report will summarize CAMP progress and activities conducted during the year and 2022-23 objectives for 7 programs
- Prior reports posted to [lvwash.org](http://lvwash.org)



October 2021  
[www.lvwash.org](http://www.lvwash.org)



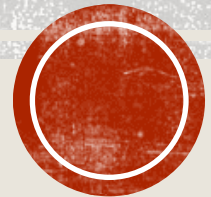
Ideal for:

- Mobile devices
- Year-End Report cover
- Presentation slide footers
- Any place where more concise branding is appropriate





# CLARK COUNTY WETLANDS PARK



**Las Vegas Valley Watershed  
Advisory Committee**

**October 19, 2021**

**Clark County Parks & Recreation**

**Elizabeth Bickmore  
Senior Program Administrator**



*Nature Store*

# NATURE CENTER

OPEN TUESDAY — SUNDAY  
9 AM — 3 PM

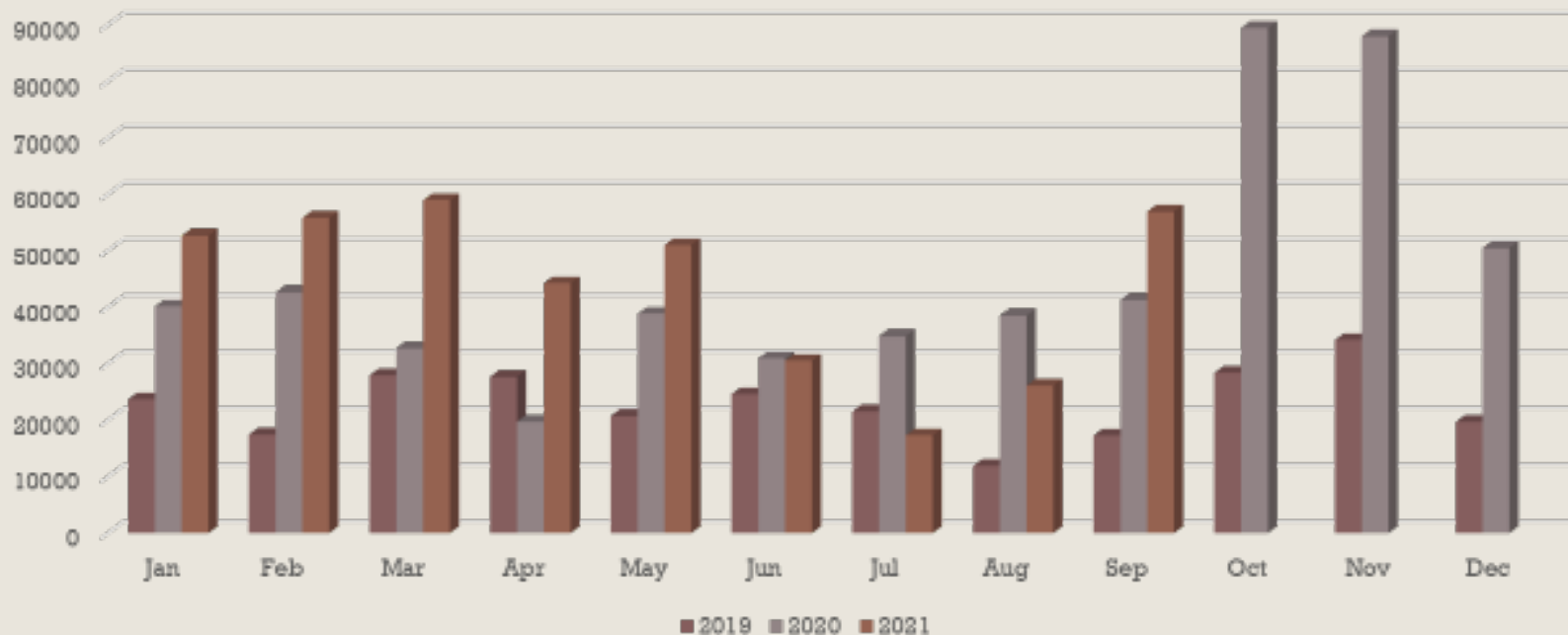
EXHIBIT GALLERY  
NATURE STORE  
INFO KIOSK  
LIZARD LOUNGE  
AUDITORIUM



# PROGRAMS

- Families & Adults: Discovery Walks, Birding Walks, Art
- Stewardship: Monthly & Special Requests
- Kids ages 3 - 8: Wetlands Explorers, Nature Tales & Storytime

Wetlands Park Estimated Open Use





# FIELD TRIPS



- **Guided Field Trips**
  - Requested to date: 10 schools, 548 students
- **Self-Guided Field Trips**
  - Requested to date: 3 schools, 128 students
- **Virtual Field Trips**
  - Requested to date: 6 schools, 504 students
  - 8 schools with 1,915 students have requested the link to the WP Virtual Field Trip video
- **Fee-Based Private Field Trips** are offered to private schools
  - Reserved to date: 2 schools, 80 students





# STUDIO WP – ART AT WETLANDS PARK

## Art in the Park

- PLAY – Temporary Art June 2021
- Plein Air Paintout April 18, 2021  
Plein Air Exhibit June 2021
- Art Gallery
  - National Audubon 2019 Photography Awards Traveling Display *April through September 2021*
  - North American Nature Photography Association (NANPA) College Scholars Photography Show August through September 2021

## Art Programs

Nature Art for Kids, Nature Journaling,  
Charcoal Drawing, Relief Printmaking



# ANNUAL EVENTS

- Haunt the Wetlands – October 29
- BioBlitz
- Migratory Bird Day



**Haunt the Wetlands**  
At Clark County Wetlands Park  
**Friday, October 29**

[www.ccwetlandspark.com](http://www.ccwetlandspark.com)  
4 pm - 8 pm      Fee: \$5 for Ages 4+

The graphic features a yellow background with black silhouettes. On the left, three bats are shown in flight. On the right, there is a silhouette of a gnarled tree with an owl perched on one of its branches. The overall theme is Halloween and nature.



# NATURE PLAY CORNER

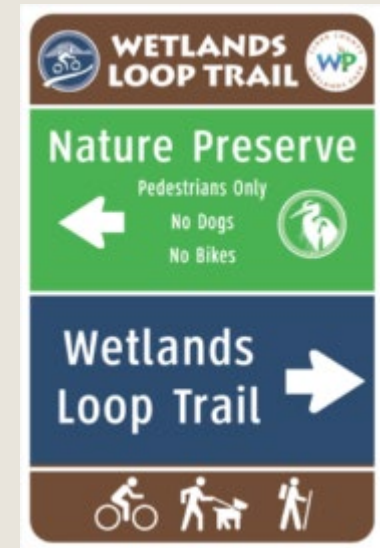
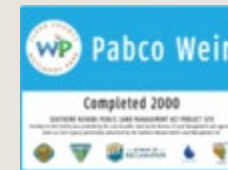
- **Contract Awarded**
  - March 29, 2021
  - Monument Construction
- **Completion Winter 2022**
  - Interpretive Signage
  - Wayfinding
  - Nature Play Area





# LAND MANAGEMENT — CAPITAL PROJECTS

- Fencing & Barrier Project
- Signage Project
- Wetlands Loop Trail Completion



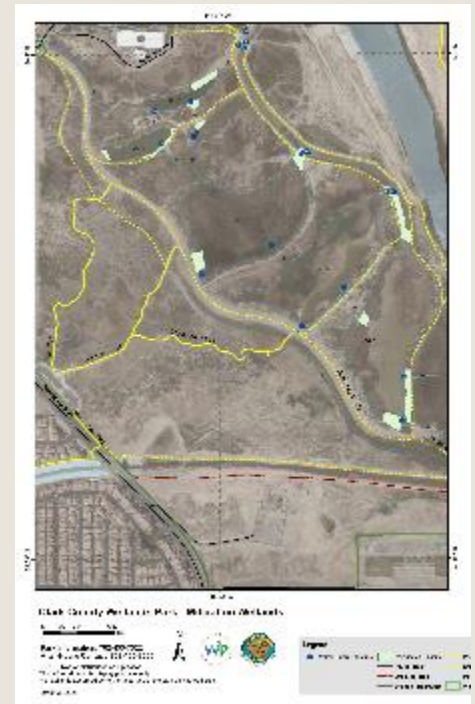
# LAND MANAGEMENT - RESOURCES

## ■ Fuel Reduction & Restoration

- NPS - Expanded management - 5-year agreement 2021-25
- Bureau of Land Management – grant
- Nevada Division Forestry – grant
  - Fire Crew Staff
  - Conservation Camp

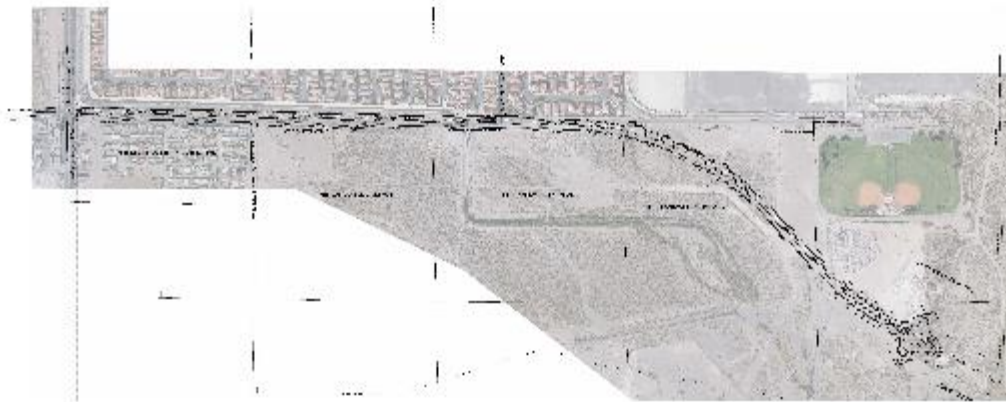
## ■ Resource Planning

- Phragmites Management Plan
- Wildlife Rehabilitation Plan
- Mowers for aquatic terrestrial vegetation





# COORDINATION - HOLLYWOOD EXTENSION



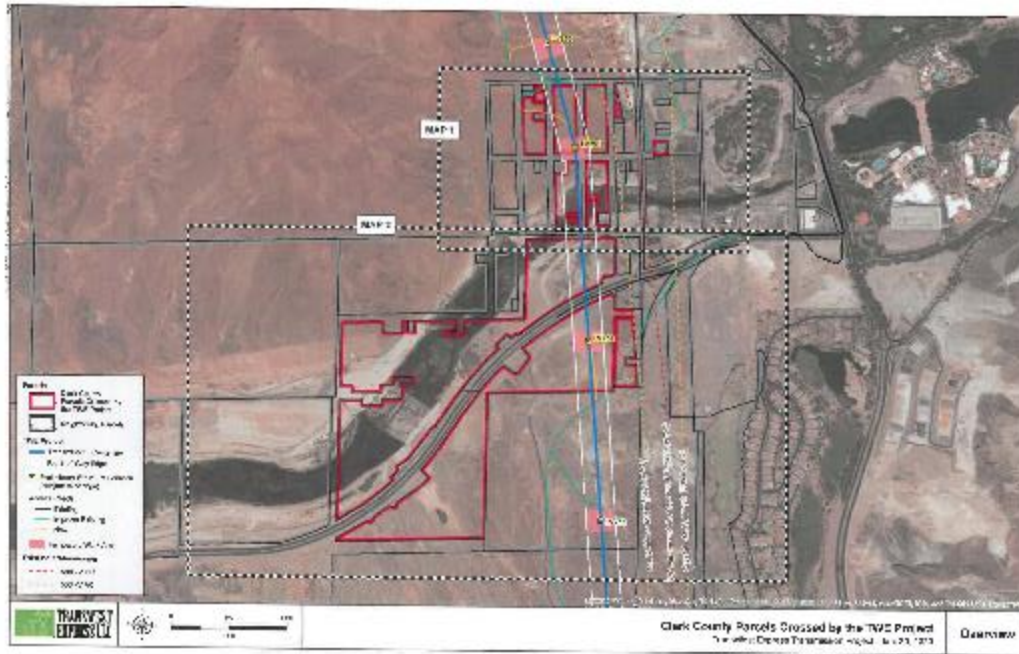
PROPOSED HOLLYWOOD BLVD EXTENSION  
DESIGNED BY  
CITY OF LAS VEGAS



PROPOSED HOLLYWOOD BLVD EXTENSION

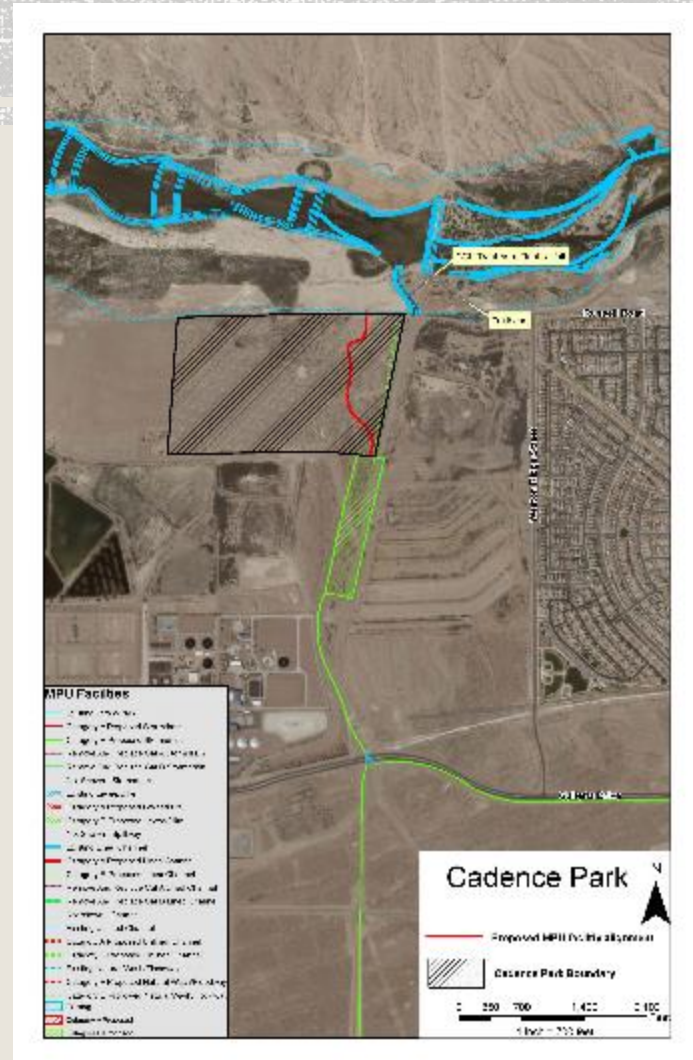


# COORDINATION - TRANSWEST



# COORDINATION

- Cadence
  - Sports Park RCB Channel
- CCWRD
  - Sewer Line Extension







# QUESTIONS

[bickmore@clarkcountynv.gov](mailto:bickmore@clarkcountynv.gov)







# Evaluation Fishing at Wetlands Park

Tour for the Clark County Citizen Advisory Board to Manage Wildlife  
&  
Nevada Board of Wildlife Commissioners



## Clark County Citizen Advisory Board to Manage Wildlife

### Meetings

- August 3, 2021, Agenda
  - *Informational Item #6, Fishing in Wetlands Park TABLED*
  - Action Item #11 Urban Fishing Opportunities
- September 21, 2021, Agenda
  - Informational Item #8, Fishing in Wetlands Park

### Tour

- August 31
- CCWRD
- SNWA
- CC Park Police
- CC Parks and Recreation
- CC Wetlands Park

### Letters of Opposition

- CC
- CCWRD
- COH
- CNLV

### Water Body –WP LVWash

- Noncontact designation, NDEP
- Closed to Fishing, NDOW

# Regional Water Quality Update

## October 19, 2021

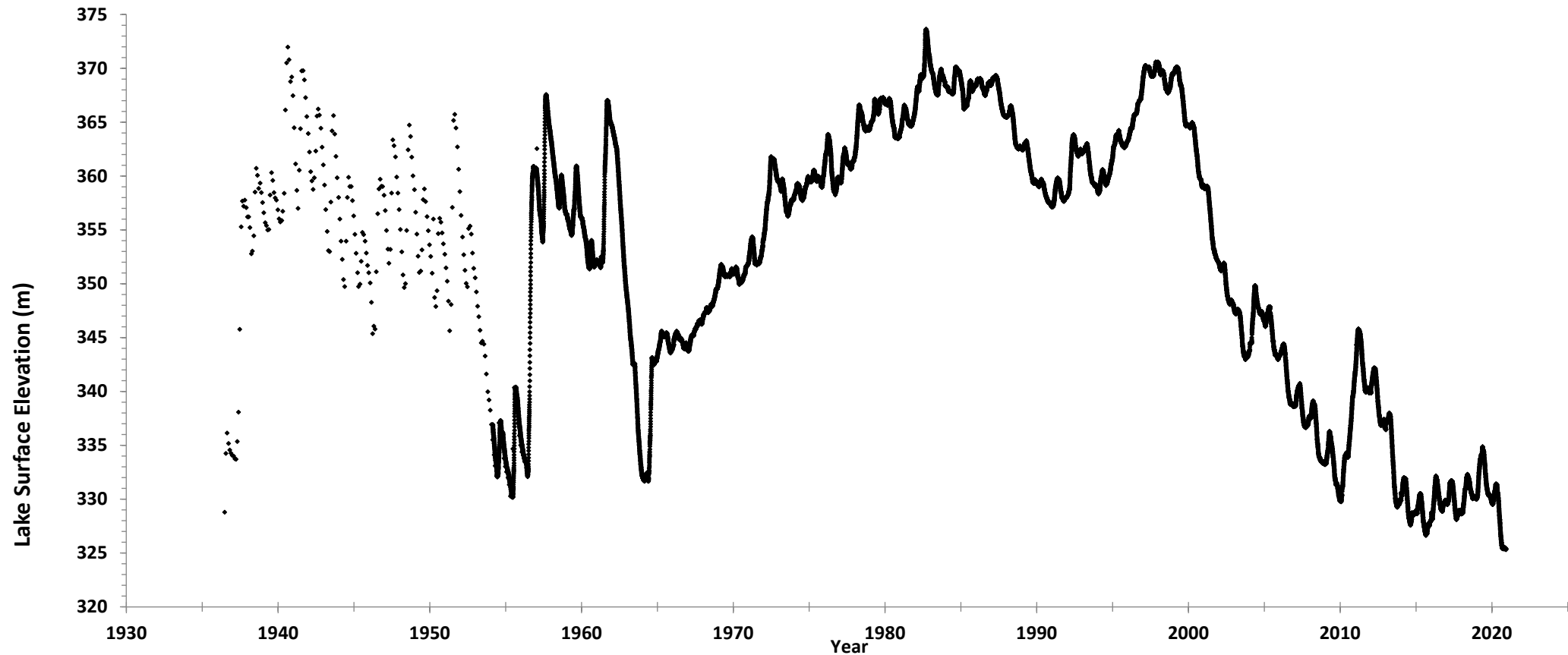
Todd Tietjen, Ph.D.  
Regional Water Quality Manager  
Research and Development Acting Manager  
Southern Nevada Water Authority  
[Todd.Tietjen@snwa.com](mailto:Todd.Tietjen@snwa.com)



# Lake Mead

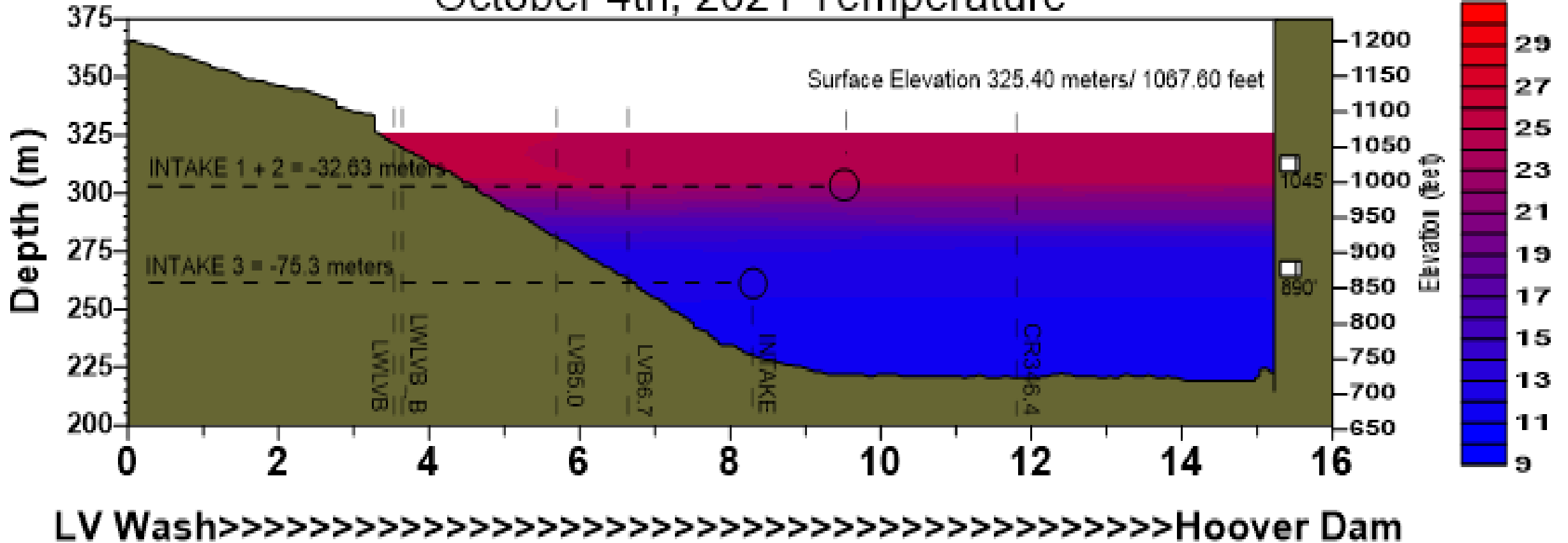
- Talking about Water Quality, Not Water Quantity.
- All things considered water quality remains high in Lake Mead and Mohave
  - Localized issues
  - Toxin producing Algae
  - Lower lake levels are not going to be helpful in the long run
  - Short residence time continues to benefit water quality in Lake Mead.
- Modeling of Lake Mead is becoming more important in considering nearer term conditions in the lake.

# Lake surface elevation



# Lake Mead Temperature

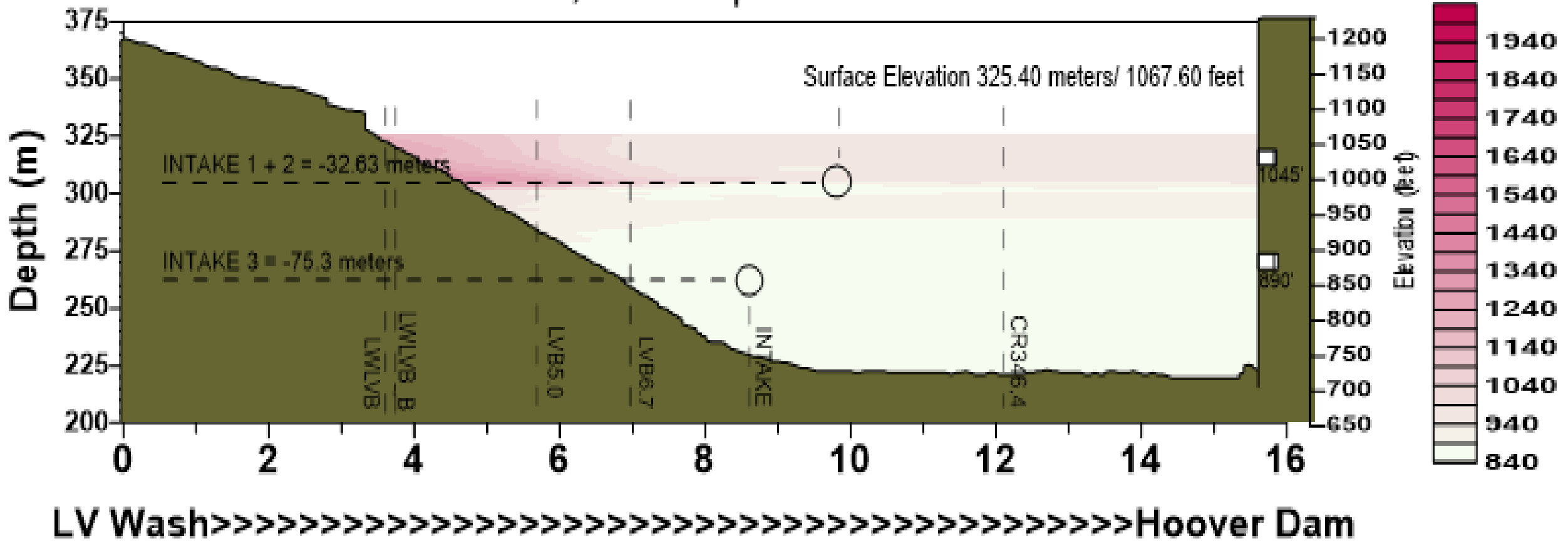
## October 4th, 2021 Temperature





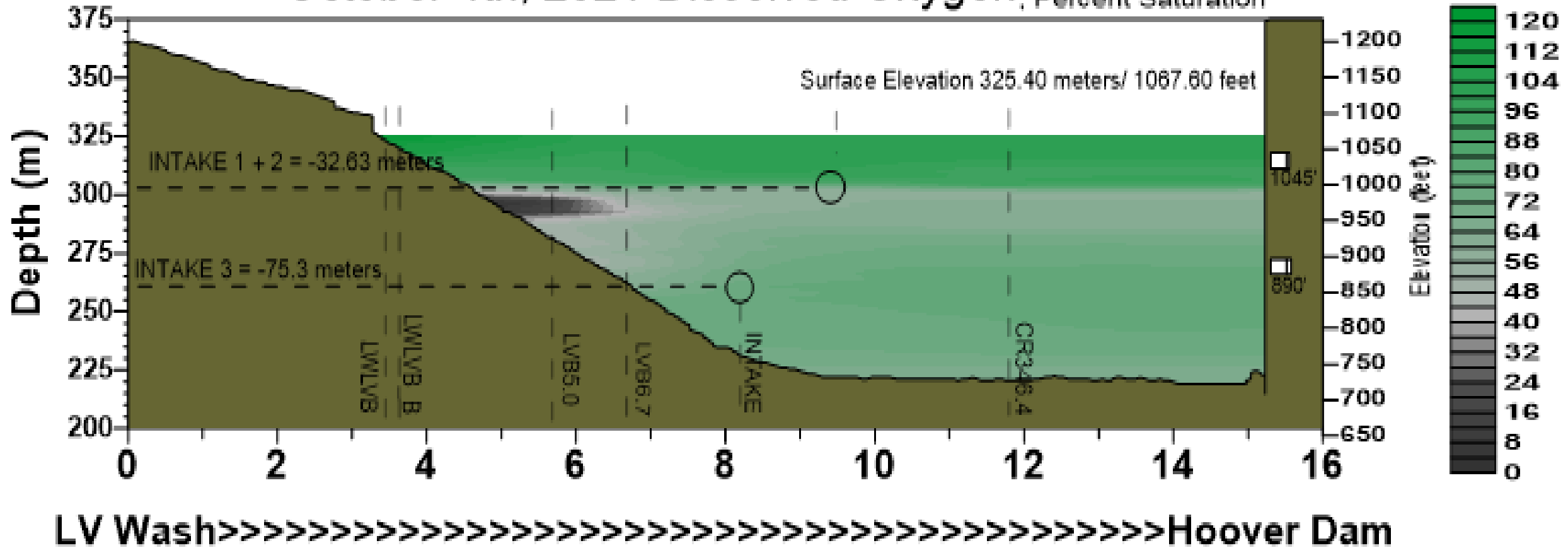
# Lake Mead Conductance

## October 4th, 2021 Specific Conductance



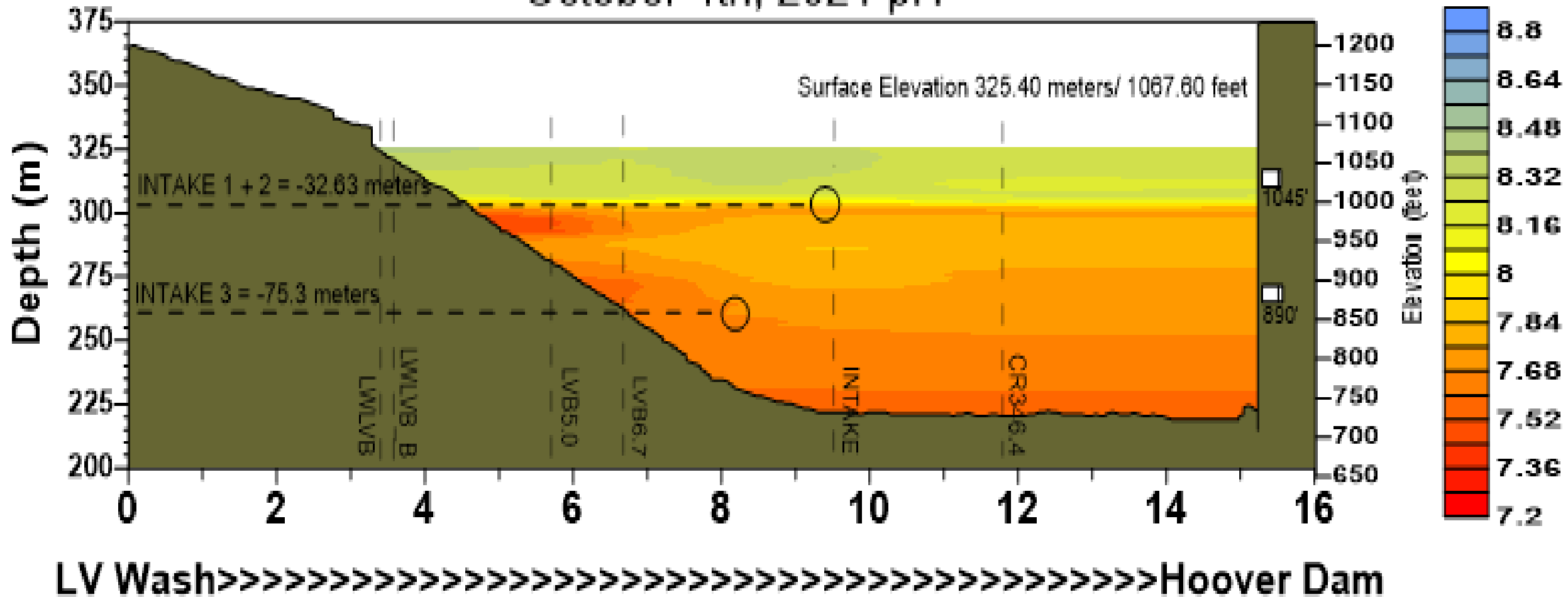
# Lake Mead Dissolved Oxygen

## October 4th, 2021 Dissolved Oxygen, Percent Saturation



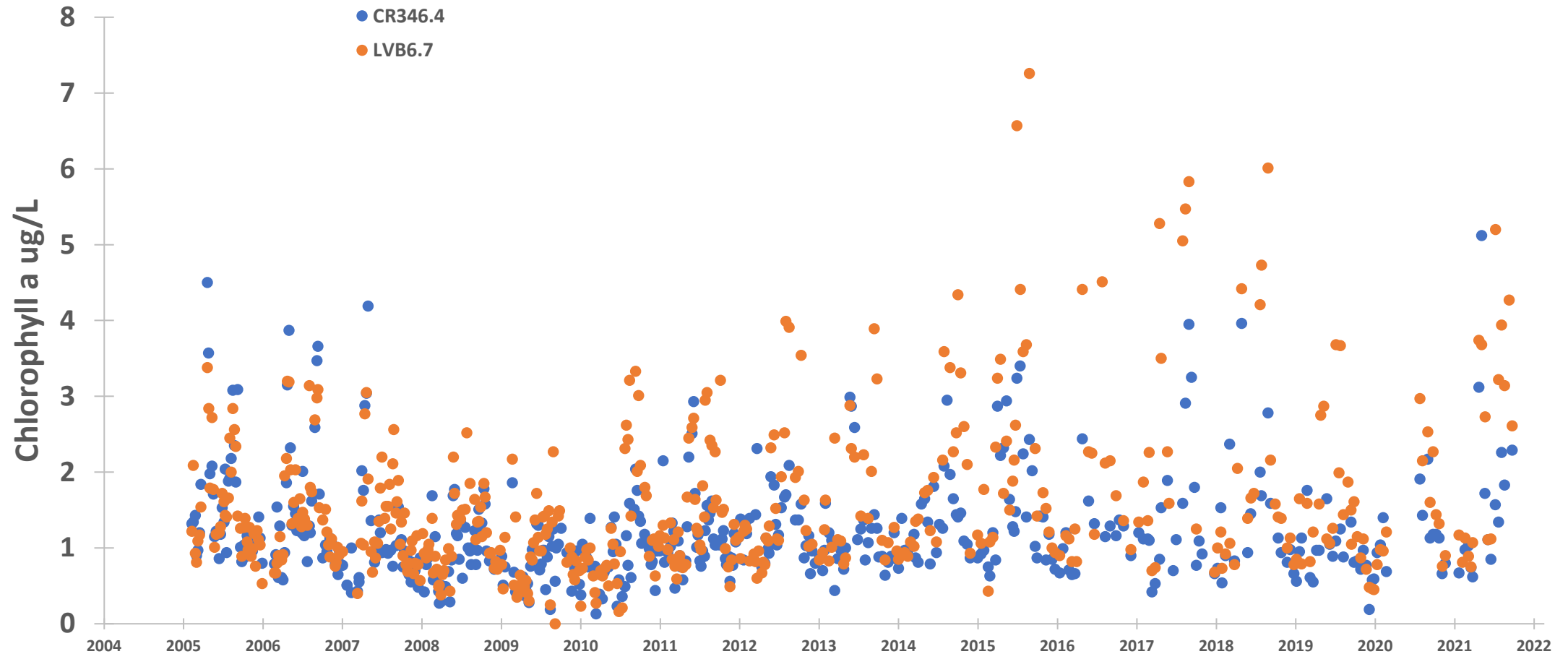
# Lake Mead pH

October 4th, 2021 pH

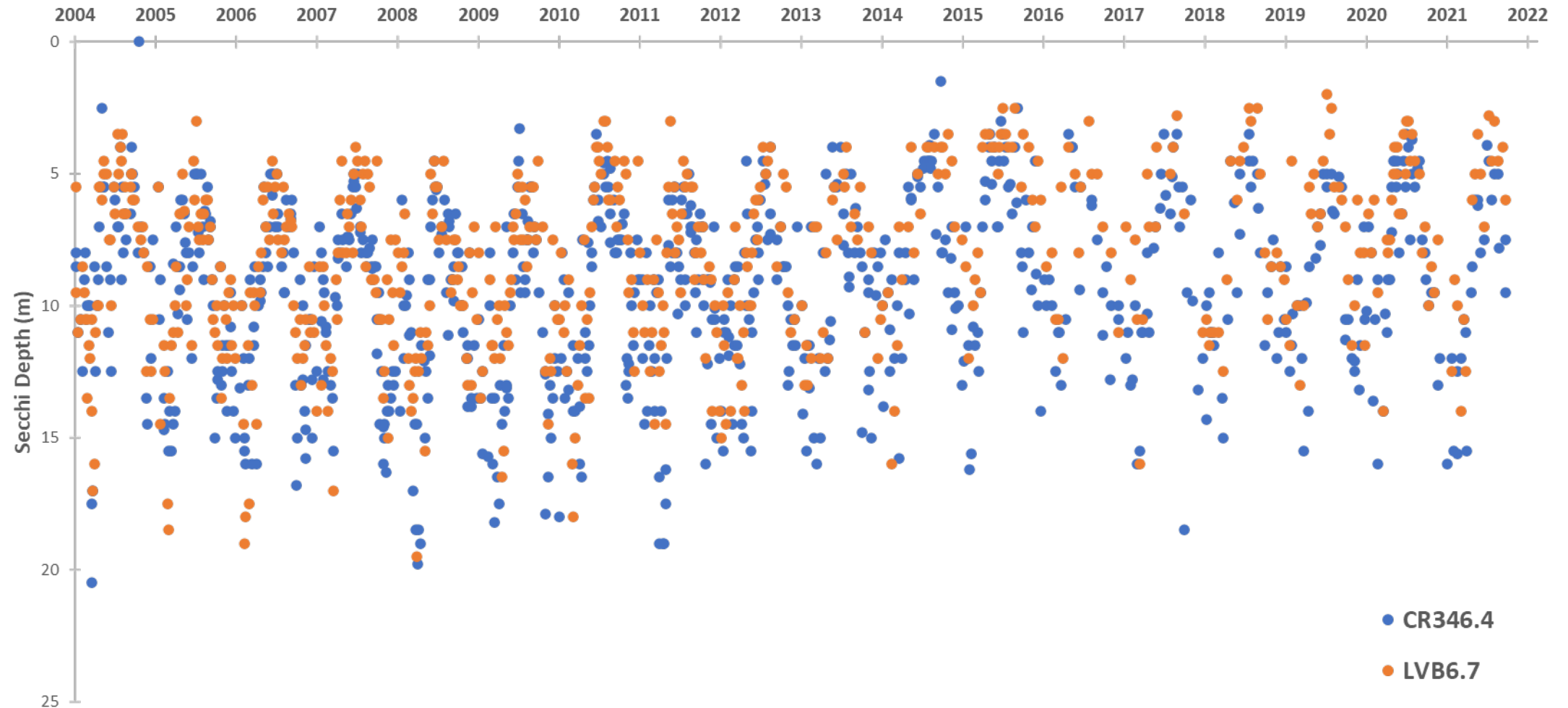




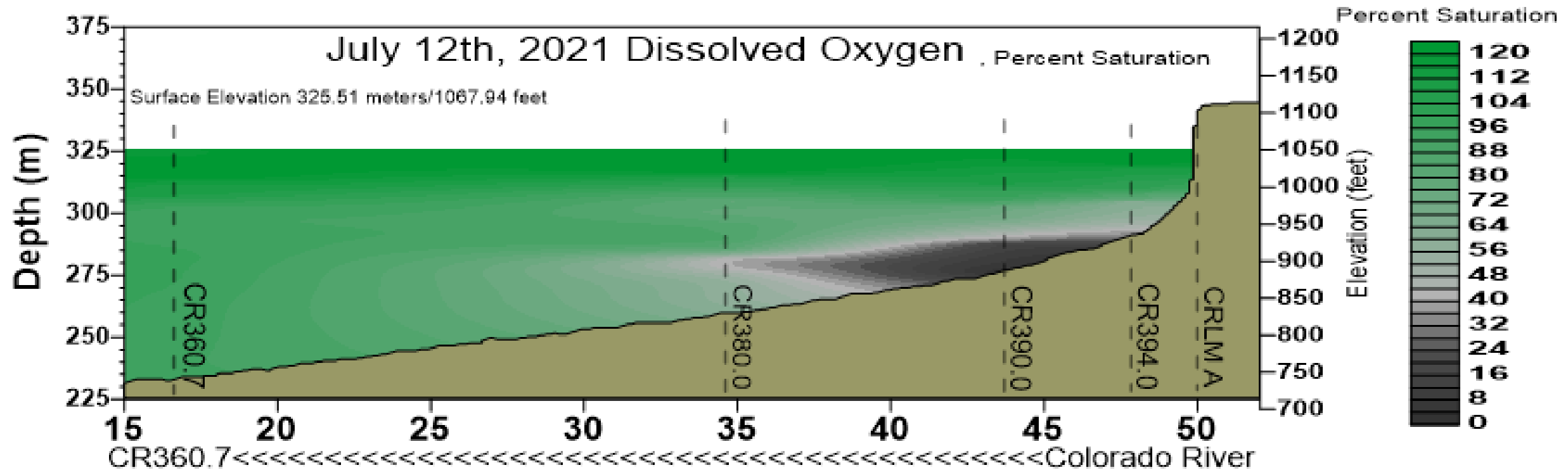
# Lake Mead Chlorophyll a



# Lake Mead Secchi Depth



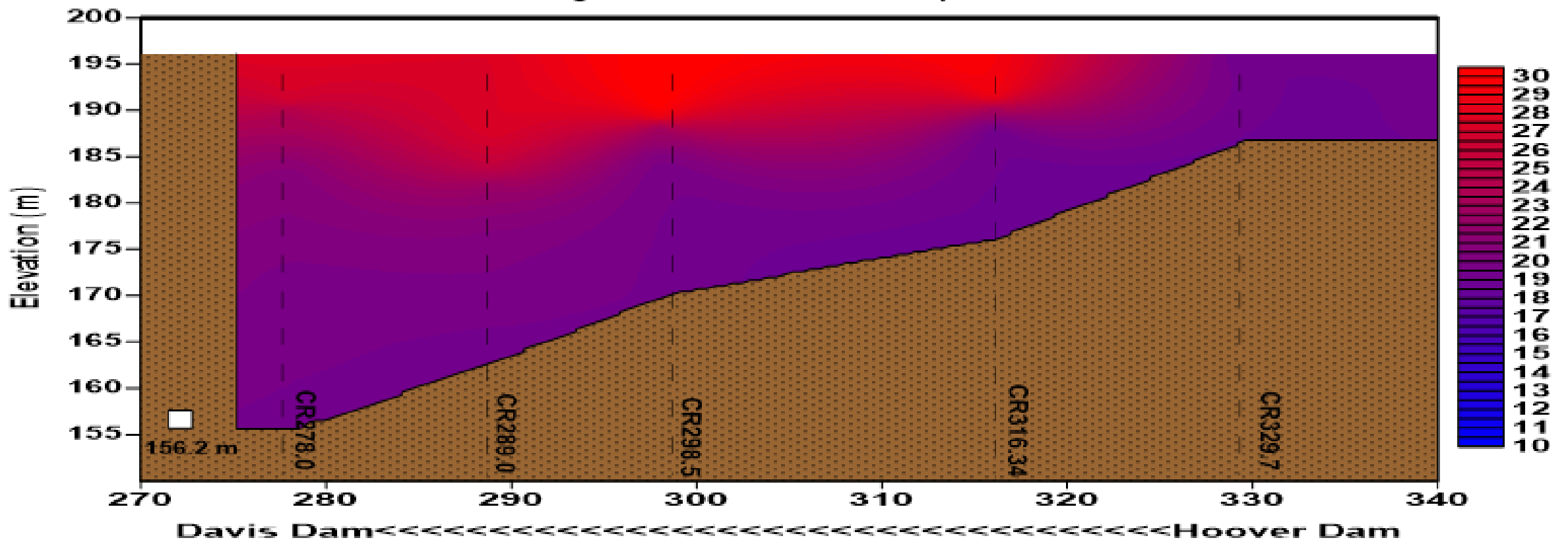
# Lake Mead: Colorado Inflow





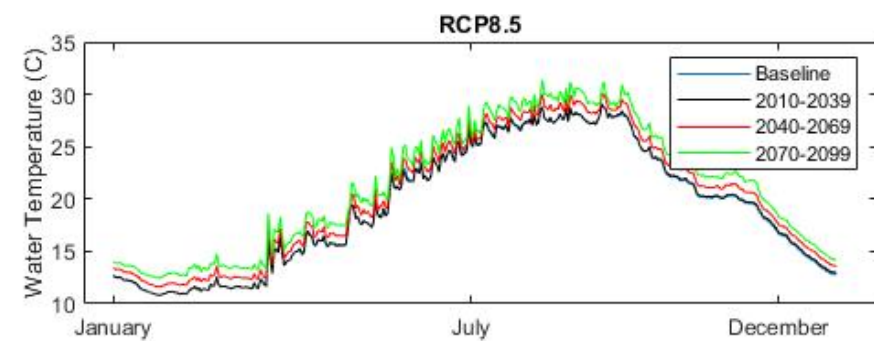
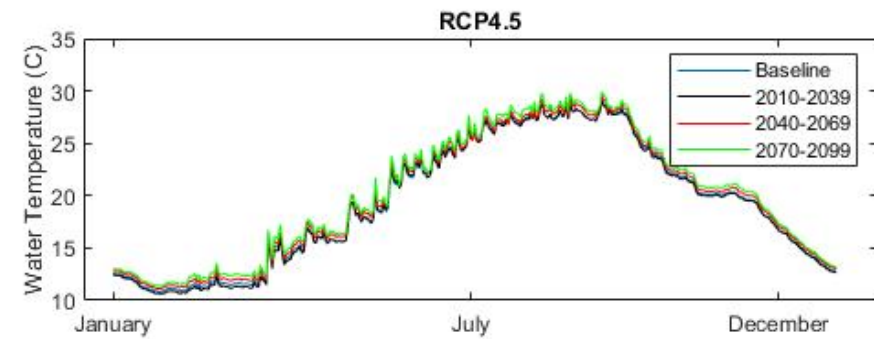
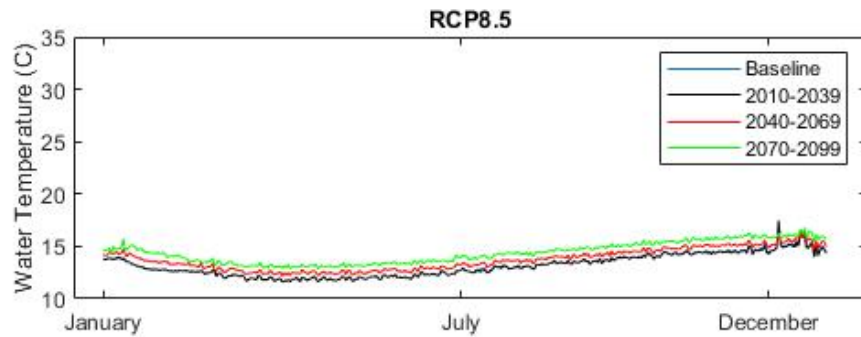
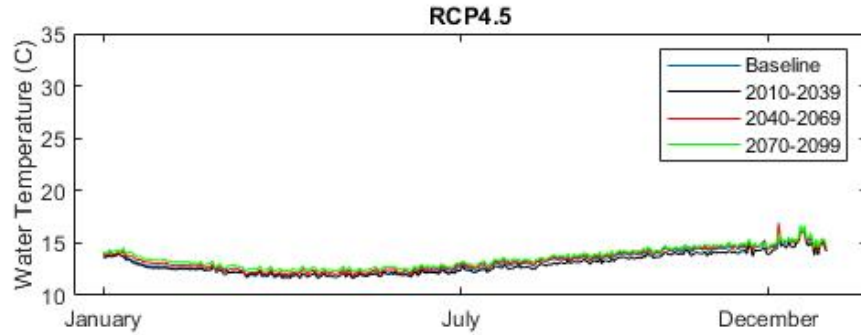
# Lake Mohave Temperature

August 19th, 2020 Temperature, °C



# Algal Toxins

- Very few, low concentration detections in Lake Mead
  - Late summer months
- Fairly “consistent” detections in Lake Mohave
  - Most low concentrations
  - Most likely the product of aggregation by wind
  - Most in mid lake locations
  - Most recent detection was high
- This is an emerging problem that will need to be monitored



# Model Results: Water Temperature

- 1100 ft WSEL (left); 900 ft WSEL (right)
- RCP8.5/late-century (2070-2099) scenario produces the most warming at L3PS
- Strong seasonal changes at 900 ft WSEL due to location of intake near surface



# Questions?

- [Todd.Tietjen@snwa.com](mailto:Todd.Tietjen@snwa.com)