NOTICE AND CALL OF MEETING

LAS VEGAS VALLEY WATERSHED ADVISORY COMMITTEE

Tuesday January 11, 2022 2:00 p.m.
MEETING TO BE HELD VIRTUALLY

Join Microsoft Teams Meeting: **1-323-776-6758** / Conference ID: **673 694 832#**

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 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.

This meeting will be held via remote technology only pursuant to NRS 241.023, as amended by assembly bill 253 of the 81st 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 no later than noon on January 11, 2022 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 October 19, 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 Possible Action:*	Approve the Las Vegas Wash 2022/2023 Budget
5.	*For Information Only:*	Receive an Update on the Las Vegas Wash Coordination Committee
6.	*For Information Only:*	Receive an Update on the Stormwater Quality Management Committee
7.	*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:
Priscilla Howell

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 Henderson, City Hall
240 Water Street
Henderson, NV 89015

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

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

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

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

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

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

PROPOSED FY 22/23
LAS VEGAS WASH
LONG-TERM OPERATING PLAN BUDGET

Category	**Cost**
Erosion & Stormwater	$1,291,880
Jurisdictional & Regulatory	$87,620
Public Outreach	$367,334
Funding	$78,376
Shallow Groundwater	$67,319
Environmental Resources	$683,597
TOTAL OPERATING BUDGET	$2,576,126
BUREAU OF RECLAMATION CONTRIBUTION*	$220,000
OTHER CONTRIBUTIONS/GRANTS*	$42,500
LOCAL CONTRIBUTION	$2,313,626

* Grant amounts are best estimates as of January 3, 2022.

PROPOSED FY 22/23
LOCAL CONTRIBUTION CALCULATIONS

Total Contribution	$2,576,126
Total Local (-grants)	$2,313,626

	50% of Erosion & Stormwater	**% of Total Contribution**
CCRFCD	$645,940	25.07408%
-grants	$580,120	

	Remaining	**% of Total Contribution**
Other Local Share	$1,930,186	74.92592%
-grants	$1,733,506	

PROPOSED FY 22/23
LOCAL CONTRIBUTION DISTRIBUTION

LOCAL CONTRIBUTION	$2,313,626	
CCRFCD **(**50% of Erosion & Stormwater minus portion of grants)	$580,120	
REMAINING LOCAL SHARE	$1,733,506	
Wholesale Delivery **(44%)**	$762,743	
Dischargers* **(43%)**	$745,407	
COH	$99,885	13.4%
CCWRD	$406,247	54.5%
CLV	$166,971	22.4%
CNLV	$72,304	9.7%
Clark County **(13%)**	$225,356	

* Discharger contributions are based on the two-year running average flow rates reported by the Sewage and Wastewater Advisory Committee to the state (September 2021).

Las Vegas Wash Coordination Committee: 2021 Accomplishments

January 11, 2022

LAS VEGAS WASH
COORDINATION COMMITTEE

Las Vegas Wash Coordination Committee

- Mission: working to stabilize and enhance the valuable environmental resources of the Las Vegas Wash
- Assisted by three study teams: Admin, REM and Ops with LVVWAC oversight

CAMP Progress

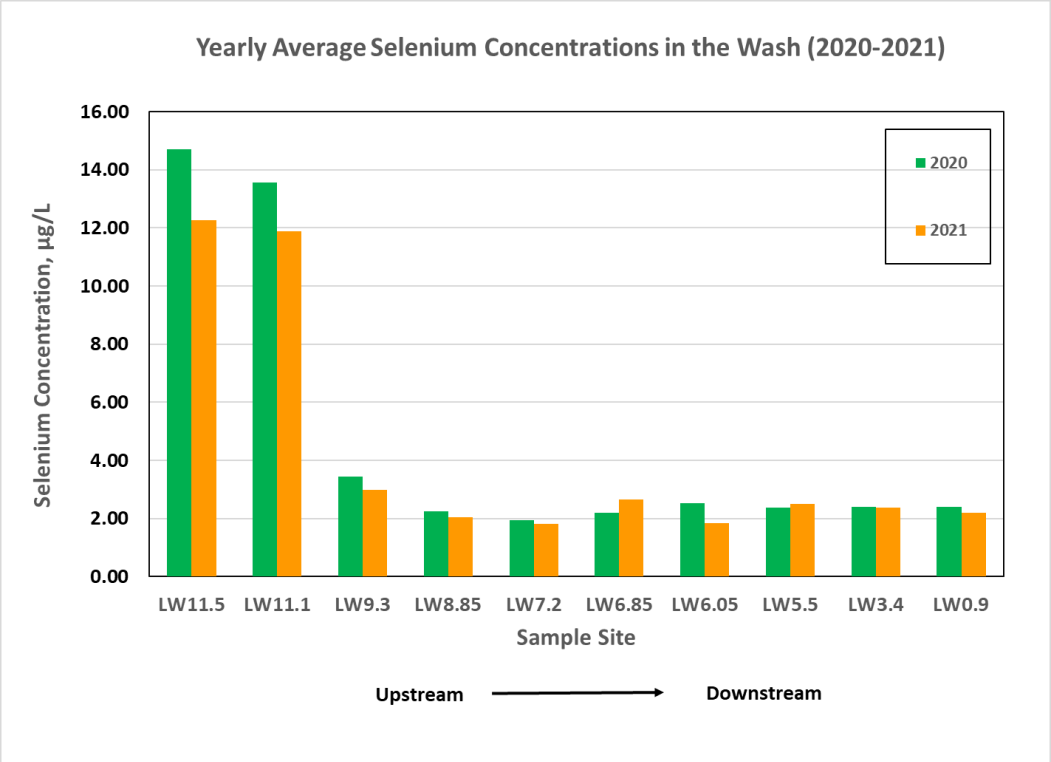
- All 44 action items implemented:
  - 31 complete or addressed by others
  - 13 ongoing, perpetual

Stabilization

- Benchmarking weirs continued: 7 weirs
  - Removed vegetation and clean spoils
  - Reestablished lines and grades
  - Cleared island between Bostick and Calico Ridge weirs
- Consultant continued working with FEMA to gain approval on LOMR

Water Quality

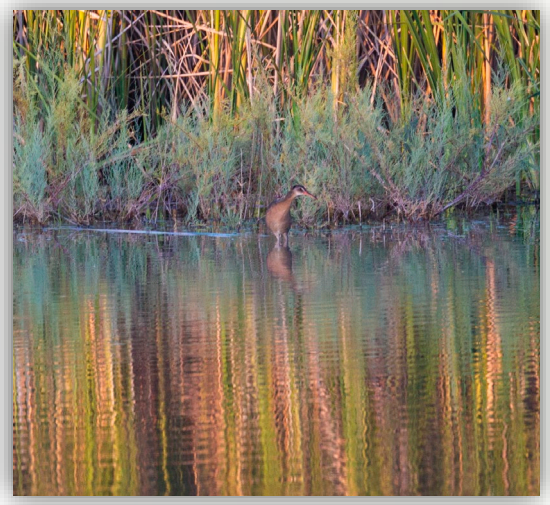
- All sampling/monitoring programs conducted per their regular schedule
- 2021 data versus 2020 (post major construction, but benchmarking ongoing)
  - Se down at 8 of 10 sites (1-27%)
  - Perchlorate down 10-20% at the 2 downstream sites
  - OP & TP down 7-11% & 8-37%



- Data uploaded into Lower Colorado River Water Quality Database

Wildlife Management Plan

- Record # of Yuma Ridgway's rail
  - 1 at Upper Narrows Weir
  - 4 at CC mitigation wetlands
- 1st southwestern willow flycatcher territory since 2013
- 3 yellow-billed cuckoo detections
- Night surveys:
  - Snakes – 4 species: desert nightsnake, gophersnake, speckled rattlesnake and sidewinder
  - Amphibians (2nd) – 2 species: American bullfrog and Woodhouse's toad (as in 2004/2005 survey)

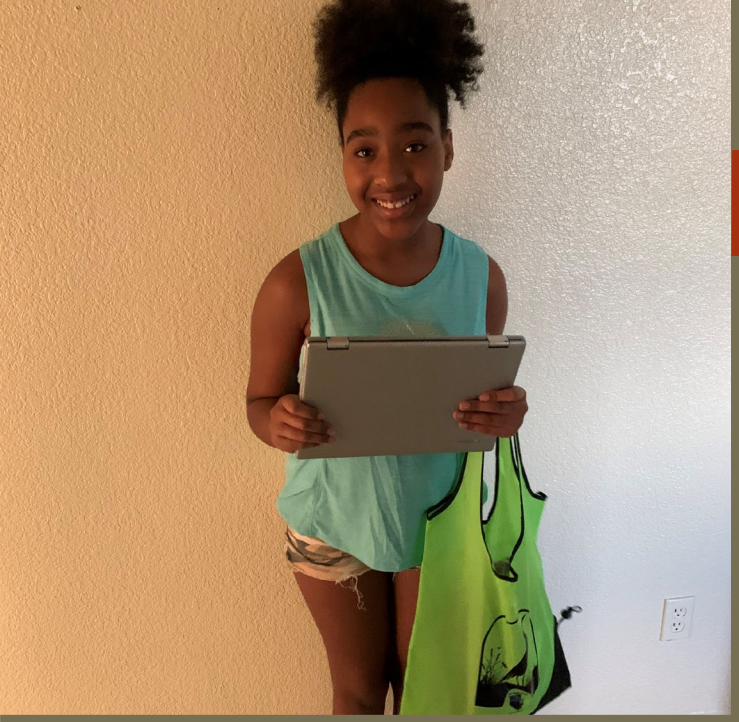


Vegetation Enhancement & Management

- Revegetated 21 acres; total - 570 acres
- Tamarisk down >98%, from ~1,500 acres to ~25
- Contractor focused weed treatments on newer reveg sites
- 2020 monitoring data summarized in draft report; >80% of sites maintained or increased cover

Cultural Resources

- 2011 Programmatic Agreement (PA) expired
- Stakeholders discussed a new PA for O&M on Bureau lands
- Staff reviewed weir maintenance plans and Hollywood BLVD extension/bridge plans and found no cultural resource concerns

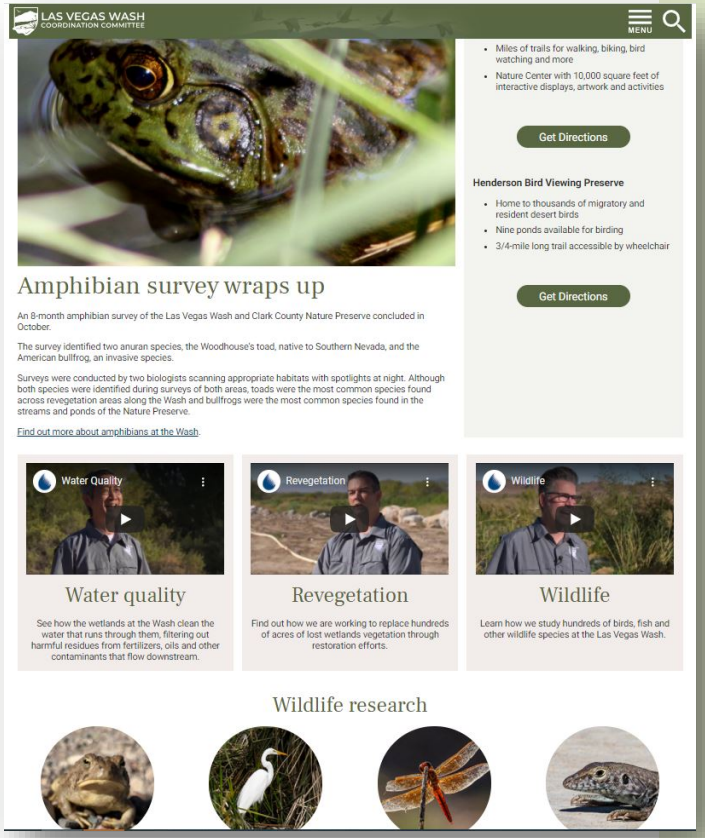


Education & Outreach

- Hosted 2 Wash Green-Ups, attracting >500 vols
- Conducted extensive virtual outreach:
  - Stormwater pollution poster contest classes
  - Mabel Hoggard 5th graders
  - Career day and reading week events
- Used NDEP-grant-funded videos for many of the virtual experiences
- Reached >2,500 students virtually and ~585 people in person

Data Resources

- Completed website and logo redesign; ADA compliant
- Hosted ~16.5k unique visitors to lvwash.org
- Reached 1,387 Facebook followers
- Continued monthly e-newsletter
- Conducted photo comparative analysis
- Maintained WQ database:
  - >66k new lines of data, ~5M lines total
  - 11 projects



2022 LVWCC Meetings and Potential Special Presentations

- January 25
  - Receive update on Cadence development
  - Receive update on LCRMSCP
- April 26
  - Annual tour
- October 25
  - Water quality update, USGS or SNWA
  - Lower Las Vegas Wash

Questions?

https://youtu.be/K14O3xoEcM0

LAS VEGAS VALLEY STORMWATER QUALITY PROGRAM

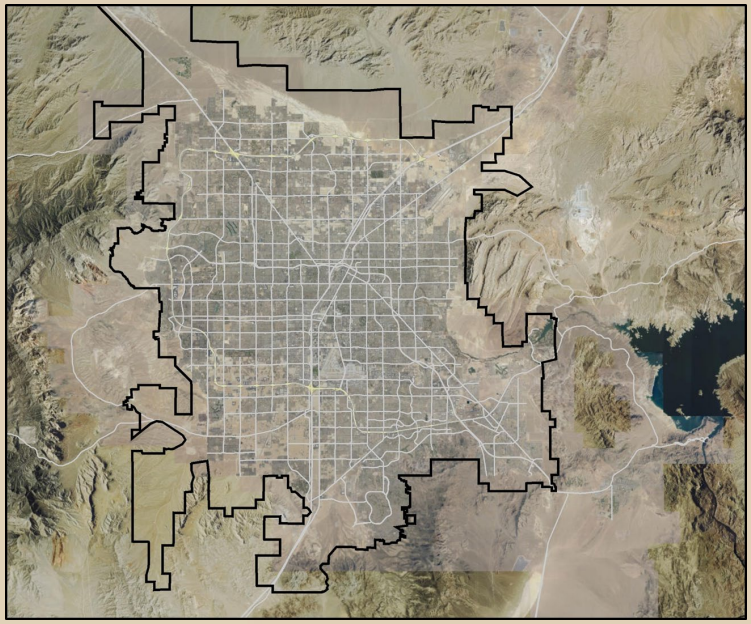
STORM DRAINS CARRY UNTREATED WATER TO LAKE MEAD

KEEP 'EM Clean

Stormwater Quality Management Committee

History

- First permit was issued in 1991
- Currently operating under the fourth permit
- Covers the developed area of the Las Vegas Valley
- Program has expanded substantially since inception



Permit Compliance is a Partnership

CCRFCD Role

- Coordinating agency for Permit implementation; no inspection or enforcement authority
- Current chair SQMC, implement public outreach, oversee wet weather water quality monitoring
- Fund maintenance of regional flood control facilities, including those with water quality features and maintain contracts with outside technical consultants (HDR, Inc. and Larry Bazel)

Permittees Role

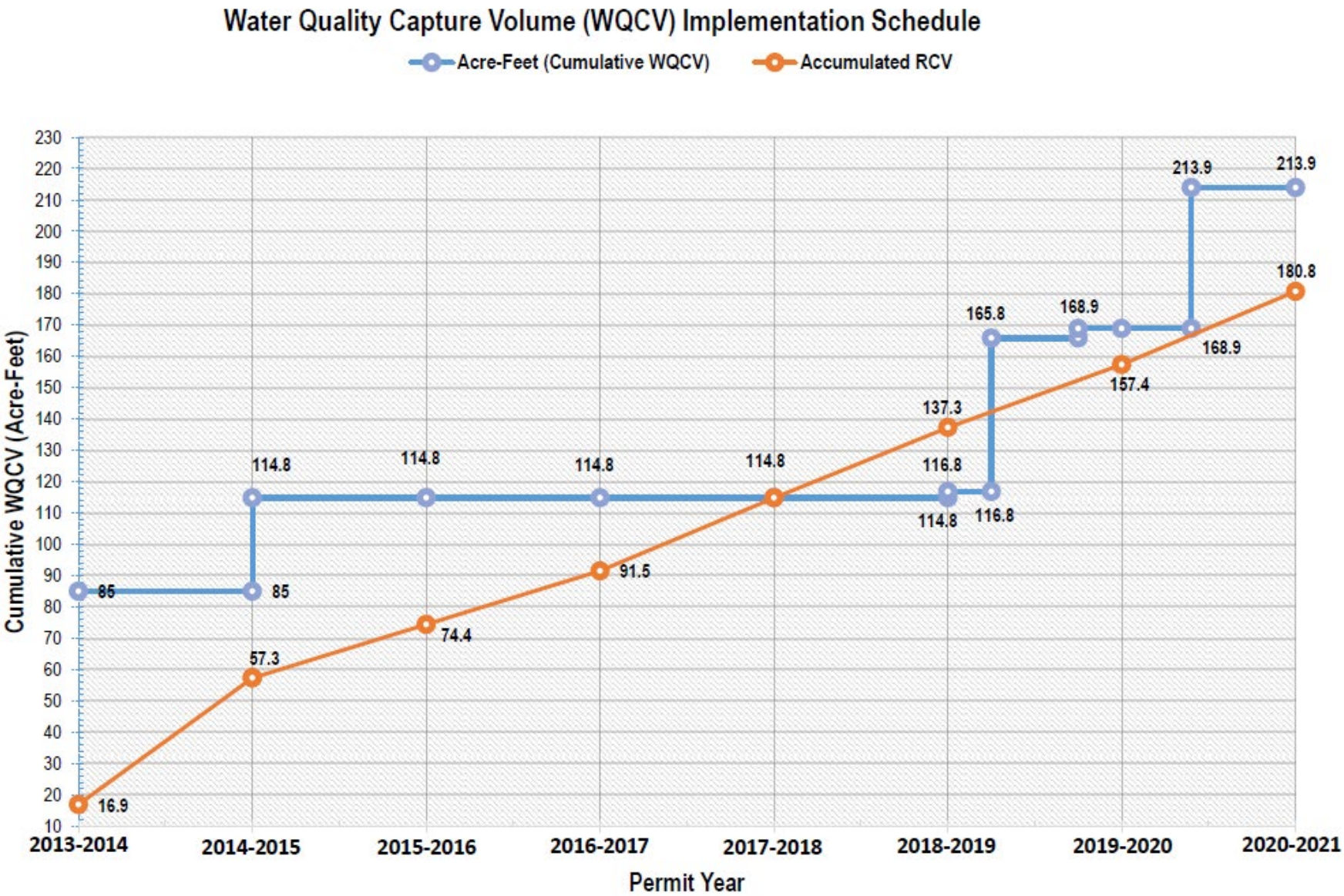
- Enact and enforce ordinances
- Train employees
- Implement street sweeping and maintain storm sewer system
- Maintain municipal industrial facilities
- Implement/inspect Best Management Practices (BMPs)
- Inspect construction and industrial sites
- Implement public education programs

Detention Basin Program

Detention Basin Program

- Permit requires the entities build and maintain water quality features in select detention basins
- Water quality features are designed to capture pollutants before they are transported downstream
- Part of the Post-construction Program
- Permittees are required to track and report on progress
- Analysis was updated in 2021 to demonstrate the Permittees are on target to meet program goals and permit requirements

ANGEL PARK DETENTION BASIN


Water Quality Capture Volume (WQCV) Implementation Schedule
Acre-Feet (Cumulative WQCV)
Accumulated RCV
Cumulative WQCV (Acre-Feet)
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
85
85
114.8
114.8
114.8
114.8
114.8
116.8
116.8
165.8
168.9
168.9
213.9
213.9
16.9
57.3
74.4
91.5
137.3
157.4
180.8
2013-2014
2014-2015
2015-2016
2016-2017
2017-2018
2018-2019
2019-2020
2020-2021
Permit Year

New Permit

New Permit

- On April 13, 2021, NDEP distributed a draft of the new permit to the Permittees
- On June 30, 2021, the Permittees met with NDEP to review comments on the permit
- Most Permittee comments were minor in nature
  - Draft permit is largely unchanged from previous permit

New Permit

- Concern about language that exists in the current permit but was removed that specified the Permittees would not be liable for non-compliance by other permittees
  - NDEP was amenable to reinserting this important provision
- Concern about the lengthy standard provisions included in the permit that are clearly not applicable to the MS4 permittees
  - Most of these provisions seem to apply to wastewater dischargers
- Currently waiting for a revised draft from NDEP

New Draft Construction General Permit

New Draft Construction General Permit

- NDEP also issued a Draft Construction General Permit (CGP) for review
- Permittees met with NDEP to discuss draft of the CGP over the course of several weeks in the summer 2021
- More issues to be resolved in the CGP than the MS4 permit
- Permittees are scheduled to meet with NDEP on January 13, 2022 to review revised Draft CGP

New Draft Construction General Permit

- Major concerns surrounding the CGP include the following:
  - Shift from 14 days to 60 days for permit authorization
  - Period of time to require growth of vegetative cover for final stabilization was increased to be 3 years
    - Changed to 2 years in revised draft; Permittees have argued that 1 year is sufficient
  - Time frame for notification of incomplete application was removed (previously within 7 days)
  - Conflicts between requirements associated with the CGP and 404 permits

Selenium

Selenium

- A total of 31 fish samples were collected from August to October 2021
  - 30 common carp and 1 green sunfish
  - 15 carp collected from the Nature Preserve
  - 15 carp and 1 sunfish collected from 3 locations on the Las Vegas Wash
  - 5 carp from Tropicana Weir
  - 5 carp and 1 sunfish from Pabco Weir
  - 5 carp from Lower Narrows Weir
- Locations and carp were selected to coincide with historical sampling

Selenium

- Currently evaluating results of the new fish data and incorporating into existing data and analysis
- Also finalizing draft memo to provide justification for delisting the tributaries from the Nevada 303(d) list
- Presenting results to NDEP on January 26, 2022

Conclusion

- Las Vegas Valley Stormwater Program is robust and effective
- Southern Nevada's unique environment emphasizes regional over site-based approaches
- Foundation of stormwater management is the regional flood conveyance and detention system
- No evidence that water quality is being impaired by stormwater
- Permittees are committed to continuous improvement of the stormwater program

Questions?