

AGENDA

REGULAR MEETING OF THE BOARD OF COMMISSIONERS
VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY (VWVRA)
Victorville City Hall – Conference Room “D”, 14343 Civic Drive, Victorville, CA
92392
Phone: (760) 246-8638

MEETING DATE: Thursday, March 21, 2019 **TIME: 8:00 AM (Closed Session)**
9:00 AM (Regular Session)

CALL TO ORDER

PUBLIC COMMENTS – CLOSED SESSION AGENDA

CLOSED SESSION

CLOSED SESSION: During the course of conducting the business set forth on this agenda as a regular meeting of the Board, the Chair may convene the Board in closed session to consider matters of pending real estate negotiations, pending or potential litigation, or personnel matters, pursuant to Government Code Sections 54956.8, 54956.9, 54957 or 54957.6, as noted. Reports relating to (a) purchase and sale of real property; (b) matters of pending or potential litigation; or (c) employment actions, or which are exempt from public disclosure under the California Public Records Act, may be reviewed by the Board during a permitted closed session and are not available for public inspection. At such time the Board takes final action on any of these subjects, the minutes will reflect all required disclosures of information. Closed Session is scheduled to commence at 8:00 a.m.. If the matters discussed in closed session require additional time beyond 9:00 a.m., in deference to the public, the Board may continue the Closed Session discussion after Open Session is concluded. In that case, Closed Session will resume after the Commissioners Comments section and any reportable action will be reported after the continued Closed Session has concluded and before adjournment.

CONFERENCE WITH LEGAL COUNSEL- (Gov. Code Sec. 54954.5-54956.9(d)):

1. Flow Diversion

CONFERENCE WITH LEGAL COUNSEL-POTENTIAL LITIGATION (Gov. Code Sec. 54956.9(d)):

2. Threatened or Pending Litigation- Upper Narrows Project

3. Lahontan- NPDES Permit Negotiations

CONFERENCE WITH LEGAL COUNSEL—EXISTING LITIGATION- (Gov. Code Sec. 54956.9 (1)(D)):

4. Valles v. VWVRA, Case No. CIVDS 1822066

REGULAR SESSION

CALL TO ORDER & PLEDGE OF ALLEGIANCE

REPORT FROM CLOSED SESSION

PUBLIC COMMENTS – REGULAR SESSION AGENDA

ANNOUNCEMENTS AND CORRESPONDENCE:

- 5. Possible conflict of interest issues**
- 6. Article: LA Needs to Reclaim What We Used to Consider ‘Wastewater’**
- 7. National Association of Clean Water Agencies Invitation to Participate**

CONSENT CALENDAR:

- 8. Approve February 2019 Disbursement Registers**
- 9. Approve Minutes from the February 11, 2019 Special Meeting and the February 21, 2019 Regular Meeting**
- 10. Recommendation to Approve Grit Classifier Replacement**

REPORTS & PRESENTATIONS:

- 11. Presentation: Organizational Performance Assessment- Robert DeLoach**
- 12. Presentation: Regional Plant Capacity Study- Carollo**
- 13. Presentation: Collection System Capacity- Dudek**

ACTION & DISCUSSION ITEMS:

- 14. Recommendation to Approve Resolution 2019-03- Reapportionment of Flow Billing Percentages**
- 15. Recommendation to Approve Resolution 2019-04- Amend and Approve 2019 CEQA Guidelines**
- 16. Resolution 2019-02- Appreciation of Dedicated Service**

STAFF/PROFESSIONAL SERVICES REPORTS:

- 17. Financial and Investment Report – February 2019**
- 18. Operations & Maintenance Report – February 2019**
- 19. Environmental Compliance Department Reports – February 2019**
- 20. Septage Receiving Facility Reports – February 2019**
- 21. Safety & Communications Report – February 2019**

NEXT VVWRA BOARD MEETING:

Thursday, April 18, 2019 - Regular Meeting of the Board of Commissioners

FUTURE AGENDA ITEMS

Recommendation to Approve Resolution 2019-XX- Categorical Exemption From CEQA for Storm Water Project

Construction Easement Agreement Lewis Learning Center

USDA Loan and Grant for the Oro Grand Interceptor Project

O&M Building Extension

Pipeline Injection Project

COMMISSIONER COMMENTS

CLOSED SESSION (If Closed Session is continued as set forth above)

ADJOURNMENT

VVWRA Regular Meeting Agenda

Thursday, March 21, 2019

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Agenda Posting: In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted in the main lobby of the Authority's Administrative offices not less than 72 hours prior to the meeting date and time above. All written materials relating to each agenda item are available for public inspection in the office of the Board Secretary.

Items Not Posted: In the event any matter not listed on this agenda is proposed to be submitted to the Board for discussion and/or action, it will be done in compliance with Section 54954.2(b) as an emergency item or because there is a need to take immediate action, which came to the attention of the Board subsequent to the posting of the agenda, or as set forth on a supplemental agenda posted in the manner as above, not less than 72 hours prior to the meeting date.

Public Comments: Any member of the public may address the Board of Commissioners on specific agenda items or matters of general interest. As determined by the Chair, speakers may be deferred until the specific item is taken for discussion and remarks may be limited to five minutes. Persons desiring to submit paperwork to the Board of Commissioners shall provide a copy of any paperwork to the Board Secretary for the official record.

Matters of Interest addressed by a member of the public and not listed on this agenda cannot have action taken by the Board of Commissioners except as authorized by Section 54954.2(b). If you wish to speak, please complete a Speaker's Form (located at the table in the lobby outside of the Board Room) and give it to the Board Secretary prior to the start of the meeting.

If any individual wishes to challenge an action of the Commission in court, he or she may be limited to raising those issues that were raised at the public hearing pertaining to the Commission's actions, or in any written correspondence delivered to the Commission on or prior to the public hearing.

Consent Calendar: All matters placed on the Consent Calendar are considered as not requiring discussion or further explanation and unless any particular item is requested to be removed from the Consent Calendar by a Commissioner, staff member or member of the public in attendance, there will be no separate discussion of these items. All items on the Consent Calendar will be enacted by one action approving all motions, and casting a unanimous ballot for resolutions included on the consent calendar. All items removed from the Consent Calendar shall be considered in the regular order of business.

The Chair will determine if any items are to be deleted from the Consent Calendar.

Items Continued: Items may be continued from this meeting without further notice to a Committee or Board meeting held within five (5) days of this meeting per Government Code Section 54954.2(b)(3).

Meeting Adjournment: This meeting may be adjourned to a later time and items of business from this agenda may be considered at the later meeting by Order of Adjournment and Notice in accordance with Government Code Section 54955 (posted within 24 hours).

Accommodations for the Disabled: In compliance with the Americans with Disabilities Act (ADA), the Board of Commissioners Meeting Room is wheelchair accessible. If you require any special disability related accommodations, please contact the Victor Valley Wastewater Reclamation Authority Board Secretary's office at 760-246-2892 at least 72 hours prior to the scheduled meeting. Requests must specify the nature of the disability and the type of accommodation requested.

Los Angeles needs to reclaim what we used to consider ‘wastewater’

By Robert Glennon
MAR 05, 2019 | 3:05 AM



A view of the Hyperion Water Reclamation Plant in Los Angeles on Feb. 21, 2019. (Genaro Molina / Los Angeles Times)

The city of Los Angeles' Hyperion Water Reclamation Plant has long symbolized the absurdity of water policy in the American West. Although the plant generates a volume of water equal to the seventh largest river in the United States, until recently, the city of Los Angeles dumped every drop into the Pacific Ocean. Nonsensically, a desert city always in search of water disposes of 190 million gallons a day into the ocean.

L.A. is not alone. Most cities do the same thing. Treated sewage and storm water is considered "wastewater," a substance to get rid of as easily and cheaply as possible. Disposal usually involves a pipe into a nearby river or an ocean. L.A.'s Hyperion plant is next to the Pacific not by coincidence, but by design.

The announcement by Mayor Eric Garcetti last month that Los Angeles will recycle all the wastewater produced at the Hyperion plant by 2035 signals an end to the era of addressing water shortages by importing water from far-flung places and initiates a long-anticipated era of reusing locally available supplies. The shift will require L.A. residents to understand both the necessity of the plan and the technology that will produce safe water.

By moving to recycle 100% of its wastewater, L.A.'s water managers are acting prudently to build resilience into the city's water supplies.

Southern California traditionally addressed water shortages by "augmenting" local supplies with imported water from the Sierra Nevada, the Colorado River or elsewhere. But augmentation options are increasingly unattractive because of financial considerations, environmental objections, competition with other interests, and climate change.

Advertisement

There is nothing new about reusing water. The Earth is a closed water system: We can't make water; nor can we destroy it. We're drinking the same water the dinosaurs did. Cities and farmers across the West are now discovering that what they previously considered wastewater has incredible value.

In 2007, the small town of Prescott Valley, Ariz., sold the reclaimed water from its treatment plant for \$67 million to a New York hedge fund. Phoenix sends 20 billion gallons a year of reclaimed water to the Palo Verde Nuclear Generating Plant to generate electricity, much of it destined for Southern California. Most golf courses in Arizona use reclaimed water for their fairways and greens. Modern treatment technologies can turn sewage into safe drinking water. In 2007, the Orange County Water District brought online a pioneering system that uses microfiltration and reverse osmosis, then further cleanses the water with peroxide and ultraviolet light. OCWD does not directly deliver this water to people's homes. It pumps the purified water into recharge basins, where the water percolates into a groundwater basin that supplements drinking water supplies. Despite initial suspicion of the program, Orange County residents now accept that recycled water is part of the mix that comes out of their taps. Los Angeles is planning a similar recharging system.

Behind the technological sophistication is an elegantly simple concept: Rather than heavily rely on an elaborate and expensive system of pipes, canals and tunnels to deliver water from Northern California and the Colorado River, L.A. will use water it already has.

This transformation will be costly in the short term, an estimated \$8 billion, but financially and environmentally wise in the long term. As climate change alters precipitation patterns, L.A.'s sources of imported water become less secure. The Colorado River is in its 20th year of drought, and it is unknown whether this is the last year of drought or, possibly, the 20th year of a 50-year-drought. What is known is that climate change is causing more frequent, prolonged and severe droughts. Changing weather patterns have also caused floods to become more powerful. That's a lesson some scientists extract from the Oroville Dam emergency in 2017 that caused the evacuation of 180,000 people after floodwater overran the emergency spillways. The spillways weren't ready for the sudden arrival of so much water during a winter storm. Quite simply, dams in the West were engineered for a climate and a hydrology that no longer exist.

More frequent and dramatic forest fires will also affect water supply. Scientists are trying to discern the impact of the last two forest fire seasons on California's water supplies. At the very least, fires have compromised the capacity of millions of acres of California forests to hold and store water. Droughts, floods and forest fires, collectively, create nightmares for California's water managers. No longer can they predict the challenges they face from estimates of what a 50- or 100-year flood looked like in the past. Historical weather patterns are increasingly unreliable because of drastic climate change.

By moving to recycle 100% of its wastewater, L.A.'s water managers are acting prudently to build resilience into the city's water supplies. Water that the city already possesses is the most secure supply of all.

Robert Glennon is a professor at the University of Arizona College of Law and author of "Unquenchable: America's Water Crisis and What to Do About It."



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**CHIEF EXECUTIVE
OFFICER**

Adam Krantz

March 12, 2019

Logan Olds
General Manager
Victor Valley Wastewater Reclamation Authority
20111 Shay Road
Victorville, CA 92394

Dear Logan:

On behalf of the National Association of Clean Water Agencies (NACWA), I would like to extend an invitation to the Victor Valley Wastewater Reclamation Authority (VWVRA) to participate as an Advisor Utility in the HUB Utility Peer to Peer Initiative being jointly spearheaded by NACWA, the U.S. Environmental Protection Agency (EPA), and other national organizations in the water sector.

As further outlined in the attached document, the HUB Utility Initiative seeks to further develop and spread opportunities for utility peer to peer learning, cooperation, and exchange of information within the public water utility sector.

Given the extensive work VWVRA has already done in this area, particularly with smaller utilities, we believe you all could provide valuable advice and insights as an Advisor Utility through this initiative to other utilities seeks to establish similar programs. VWVRA is already recognized as a national leader in this area, and NACWA believes the utility has much to share with the broader sector.

I hope VWVRA will be able to participate in this very important initiative that will benefit the national municipal water utility sector as a whole, and I thank you for your consideration.

Sincerely,

Adam Krantz
Chief Executive Officer




Victor Valley Wastewater Reclamation Authority
A Joint Powers Authority and Public Agency of the State of California

20111 Shay Rd. Victorville, CA 92394
 Telephone: (760) 246-8638
 Fax: (760) 948-9897

DATE: March 1, 2019

TO: Logan Olds
 General Manager

FROM: Chieko Keagy 
 Controller

SUBJECT: Cash Disbursements Register

RECOMMENDED ACTION

It is recommended that the Board of Commissioners approve the cash disbursements and payroll register for the Victor Valley Wastewater Reclamation Authority.

BACKGROUND

The Cash Disbursements Register totals represented below are for the month of FEBRUARY 2019, check numbers 122254-122296 and ACH's.

<i>Accounts Payable</i>			
<i>Checks</i>	<i>ACH's and EFT's</i>	<i>Payroll</i>	<i>Total</i>
\$119,635.73	\$3,233,172.67	\$309,554.63	\$3,662,363.03

**Victor Valley Reclamation Authority
Cash Disbursement Register
From 2/1/19 through 2/28/19**

Check Number	Check Date	Effective Date	Fund Code	Vendor Name	Transaction Description	Matching Document Number	Check Amount
122254	2/5/2019	2/5/2019	07	Applied Industrial Technologies	Adaptor	7015089565	\$ 4.85
122255	2/5/2019	2/5/2019	01	Flyers Energy, Llc	Gasoline	CFS-1813561	\$ 1,252.56
122256	2/5/2019	2/5/2019	01	Orkin	AV Subregional Pest Control	179170669	\$ 150.00
122256	2/5/2019	2/5/2019	01	Orkin	Pest Control	180237365	\$ 390.61
122257	2/5/2019	2/5/2019	01	Prudential Overall Supply	Uniform Service	22746498	\$ 535.29
122258	2/5/2019	2/5/2019	01	Roto-Rooter Plumbers	Rebuilt Stall Shower Valve	24379890	\$ 375.00
122258	2/5/2019	2/5/2019	01	Roto-Rooter Plumbers	Ruibuilt Handicap Shower Valve	24379819	\$ 375.00
122259	2/5/2019	2/5/2019	01	Scott Equipment, Inc	Brown Bear Repairs	SI1625	\$ 478.22
122260	2/5/2019	2/5/2019	01	Sparkjets Drinking Water	Bottled Water	14877093 020319	\$ 1,906.34
122261	2/5/2019	2/5/2019	01	Virtual Graffiti Inc.	Barracuda Back Up Server Storage	828774	\$ 6,652.82
122262	2/5/2019	2/5/2019	01	Vvcvf	Hall of Fame '19 Deans List Sponsor	1/25/2019	\$ 1,500.00
122263	2/5/2019	2/5/2019	01	Yale Chae Equipment And Services	GEM Rear Windows	SI197778	\$ 646.48
122264	2/21/2019	2/21/2019	01	A-Action Automotive	Explorer Repairs	64213	\$ 521.45
122265	2/21/2019	2/21/2019	01	Airgas Usa, Llc	Welder Multi-Process Multimatic 220	9084956793	\$ 3,141.99
122266	2/21/2019	2/21/2019	07	Applied Industrial Technologies	Digester Project Flow Meters	7015423607	\$ 579.43
122267	2/21/2019	2/21/2019	01	Aquatic Bioessay / Consult Inc.	Final Effluent to Mojave River Grab	VIC0119.0008	\$ 230.00
122268	2/21/2019	2/21/2019	01	Daily Press	Notice for Inviting Bids	300176065	\$ 4,296.93
122269	2/21/2019	2/21/2019	01	Detection Instrument Corporation	Odalog Service	3871-42038	\$ 1,210.21
122270	2/21/2019	2/21/2019	07	Flo-Systems, Inc.	Spare Hidrostal Pump Parts	F17291-18N223	\$ 12,881.10
122271	2/21/2019	2/21/2019	07	G.A. Osborne Pipe & Supply	Digester Project Welding Material	397906	\$ 249.47
122271	2/21/2019	2/21/2019	01	G.A. Osborne Pipe & Supply	Piping Material	397083	\$ 68.32
122271	2/21/2019	2/21/2019	01	G.A. Osborne Pipe & Supply	Piping Material	397155	\$ 127.49
122272	2/21/2019	2/21/2019	01	Heritage Environmental Services, L.L.C.	Hazardous Waste Pick Up	1903988	\$ 1,185.80
122272	2/21/2019	2/21/2019	01	Heritage Environmental Services, L.L.C.	Hazardous Waste Pick Up	1928772	\$ 902.70
122273	2/21/2019	2/21/2019	01	Hi-Desert Communications	Site Rent	38255	\$ 100.00
122274	2/21/2019	2/21/2019	01	Hi-Desert Window Washing	Window Washing	25688	\$ 307.00
122275	2/21/2019	2/21/2019	07	J&K Welding	Digester Project Gas Line Welding	49515	\$ 1,345.00
122276	2/21/2019	2/21/2019	01	Motion Industries, Inc.	Hesperia WRP Pump	CA43-445302	\$ 645.97
122277	2/21/2019	2/21/2019	01	Multi W Sytems, Inc	Bucket Rebuild for EQ Aerator #1	31930256	\$ 1,832.41
122278	2/21/2019	2/21/2019	01	Nobel Systems Inc.	GIS Data Update and Conversion Services, Board Approved	14502	\$ 8,800.00
122279	2/21/2019	2/21/2019	01	Prudential Overall Supply	Uniform Service	22750137	\$ 537.03
122280	2/21/2019	2/21/2019	07	Royal Wholesale Electric	VFD For Sludge Transfer Pump at Digs 1-3	6441-586480	\$ 10,872.34
122281	2/21/2019	2/21/2019	01	Sparling Instruments, Inc.	Mag Meter Verification and Recalibration	10477301	\$ 711.06
122282	2/21/2019	2/21/2019	07	Sunbelt Supply Inc.	Sunbelt Solenoid Shipping	2461489-00	\$ 89.68
122283	2/21/2019	2/21/2019	01	Sunland	New Door Handle for 2006 Explorer	FOCS571309	\$ 489.12
122284	2/21/2019	2/21/2019	01	Transcat	Transcat Quote For Calibration Fluke 87	1456740	\$ 144.18
122285	2/21/2019	2/21/2019	01	Western Rentals, Inc	Brown Bear Delivery	R49535	\$ 1,300.00
122286	2/21/2019	2/21/2019	01	Donna Anthony	Retiree Health Benefit Allowance	ANTH022019	\$ 435.00
122287	2/21/2019	2/21/2019	01	Dan Sentman	Retiree Health Benefit Allowance	SENT012019	\$ 224.41
122288	2/27/2019	2/27/2019	01	Liberty Utilities- Apple Valley Ranchos W	AV Subregional Water Usage- Otoe	02012019	\$ 93.12
122289	2/27/2019	2/27/2019	01	Larry Bird	Commissioner Stipend	BRD022119	\$ 100.00
122290	2/27/2019	2/27/2019	01	James Cox	Commissioner Stipend	COX021119	\$ 100.00
122290	2/27/2019	2/27/2019	01	James Cox	Commissioner Stipend	COX022119	\$ 100.00
122291	2/27/2019	2/27/2019	01	Hi-Desert Water District	Matt Mayo's Wages and Benefits- Operation Temp Labor	013119	\$ 43,160.79
122292	2/27/2019	2/27/2019	01	William J. Holland	Commissioner Stipend	HOLL021119	\$ 100.00
122293	2/27/2019	2/27/2019	01	Scott Nassif	Commissioner Stipend	NASS021119	\$ 100.00
122293	2/27/2019	2/27/2019	01	Scott Nassif	Commissioner Stipend	NASS022119	\$ 100.00
122294	2/27/2019	2/27/2019	01	United Rentals Northwest, Inc	Forklift Training	165445584-001	\$ 855.00
122295	2/27/2019	2/27/2019	01	Verizon Wireless	Acct# 472015939-00001	9824160374	\$ 1,947.27
122295	2/27/2019	2/27/2019	01	Verizon Wireless	Acct# 472015939-00013	9824160375	\$ 266.07
122296	2/27/2019	2/27/2019	01	City Of Victorville / Sanitation	Trash Service	3282716	\$ 5,218.22
Total Checks							\$ 119,635.73
0033434-1	2/5/2019	2/5/2019	01	A.D.S. Corp.	Flow Monitoring	12928.22-0119	\$ 8,333.28
0033434-2	2/5/2019	2/5/2019	01	Environmental Systems Research Institute,	Annual Maintenance Support	93590276	\$ 6,723.17
0033434-3	2/5/2019	2/5/2019	01	Fastenal	All Thread Rod	CAVIC65801	\$ 145.88
0033434-4	2/5/2019	2/5/2019	01	Graybar Electric Co., Inc.	E&I Starters and Aux Contacts	9308440249	\$ 4,393.66
0033434-5	2/5/2019	2/5/2019	01	Hach Company	SC1000 SN1521430 Repair	11316427	\$ 1,069.00
0033434-5	2/5/2019	2/5/2019	01	Hach Company	SC1000 Cards for Primary Effluent	11310958	\$ 2,855.69
0033434-5	2/5/2019	2/5/2019	01	Hach Company	SC1000 Display at Primary Effluent	11310955	\$ 4,290.49
0033434-5	2/5/2019	2/5/2019	01	Hach Company	SC1000 SN1521376 Repair	11316423	\$ 1,122.61
0033434-6	2/5/2019	2/5/2019	01	Ilink Business Management	Janitorial Services	162	\$ 2,569.76
0033434-6	2/5/2019	2/5/2019	01	Ilink Business Management	Janitorial Services	163	\$ 2,569.76
0033434-7	2/5/2019	2/5/2019	01	Jwc Environmental Inc	Otoe PS Grinder	95632	\$ 22,896.13
0033434-8	2/5/2019	2/5/2019	01	T-Mobile	Mobil Hotspots	01212019	\$ 119.00
0033434-9	2/5/2019	2/5/2019	01	U.S.A. Bluebook	Stenner Pump	799671	\$ 669.02
0033434-9	2/5/2019	2/5/2019	01	U.S.A. Bluebook	USAB000 Credit 731200	731200	\$ (377.07)
0034151-1	2/21/2019	2/21/2019	01	Brad Adams	Sacramento State Class Registration	020619	\$ 200.00
0034151-2	2/21/2019	2/21/2019	01	David Wylie	Wylie Milage Reimbursement	WYL1021319	\$ 55.68
0034152-1	2/20/2019	2/20/2019	01	Beck Oil, Inc.	Diesel Delivery	347226	\$ 2,283.31
0034152-10	2/20/2019	2/20/2019	01	Grainger	Cordless Combo Kit	9060973089	\$ 483.32
0034152-10	2/20/2019	2/20/2019	01	Grainger	E & I Intern Tools	9060973097	\$ 1,894.88
0034152-10	2/20/2019	2/20/2019	01	Grainger	E & I Intern Tools	9060973105	\$ 649.18
0034152-10	2/20/2019	2/20/2019	01	Grainger	Open End Wrench	9060903292	\$ 22.63
0034152-10	2/20/2019	2/20/2019	01	Grainger	Power Supply	9060485779	\$ 549.69
0034152-10	2/20/2019	2/20/2019	01	Grainger	Rain Jackets	9057526619	\$ 143.96
0034152-10	2/20/2019	2/20/2019	01	Grainger	Standard Batteries	9057631690	\$ 18.10
0034152-10	2/20/2019	2/20/2019	01	Grainger	Stepladders	9060272656	\$ 477.86
0034152-10	2/20/2019	2/20/2019	01	Grainger	Wet Mop Handle	9056702856	\$ 19.68
0034152-11	2/20/2019	2/20/2019	01	Hach Company	Credit HACH000 2162813	2162813	\$ (1,174.48)
0034152-11	2/20/2019	2/20/2019	01	Hach Company	SC200 SN 1208C0047766 Repair	11318568	\$ 819.61
0034152-11	2/20/2019	2/20/2019	01	Hach Company	SC200 SN1111C0030202 Repair	11318565	\$ 766.00
0034152-12	2/20/2019	2/20/2019	01	Ilink Business Management	AV Subregional Custodial Services July 2018	76115	\$ 263.88
0034152-12	2/20/2019	2/20/2019	01	Ilink Business Management	AV Subregional Custodial Services July 2018	77735	\$ 263.88
0034152-13	2/20/2019	2/20/2019	01	Masters Electric	C131 No Redfundable Controllor Change	8221	\$ 845.00
0034152-14	2/20/2019	2/20/2019	01	Mcgrath Rentcorp	Admin Office Lease	1861604	\$ 3,995.37
0034152-15	2/20/2019	2/20/2019	07	Mc Master-Carr Supply Co.	Digester Project Parts	84496789	\$ 1,992.08

Victor Valley Reclamation Authority
Cash Disbursement Register
From 2/1/19 through 2/28/19

Table with columns for ID, Date, Description, and Amount. Includes entries for Protection One, Quinn Company, Undergroud Service Alert, U.S.A. Bluebook, Best, Best & Krieger, L.L.P., Walters Wholesale Electric, and various retirement allowances.

Total ACH & EFT's \$ 3,233,172.67

Summary table with 2 columns: Description and Amount. Rows include Total Checks (\$119,635.73), Total ACH and EFT (\$3,233,172.67), Total Payroll - February 2019 (\$309,554.63), and Total (\$3,662,363.03).

Handwritten signature 'C. Long' and date '02-28-19' with 'APPROVED' stamp.

**MINUTES OF A REGULAR MEETING
REGULAR MEETING OF THE BOARD OF COMMISSIONERS
VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY (VWVRA)**

February 21, 2019

CALL TO ORDER: Chair Scott Nassif called the meeting to order at 8:04 am; in Conference Room D at Victorville City Hall, located at 14343 Civic Drive, Victorville California, with the following members present:

**ORO GRANDE (CSA 42) AND
SPRING VALLEY LAKE (CSA 64)
TOWN OF APPLE VALLEY
CITY OF VICTORVILLE
CITY OF HESPERIA**

ABSENT

Scott Nassif, Vice-Chair

Jim Cox, Secretary

Larry Bird, Treasurer

VWVRA Staff and Legal Counsel:

**Logan Olds, General Manager
Kristi Casteel, Secretary to GM/Board
Piero Dallarda, Legal Counsel (BB&K)
Chieko Keagy, Controller
Alton Anderson, Construction Manager
David Wylie, Safety & Communications Officer**

**Xiewi Wang, Senior Accountant
Robert Coromina, Director of Administration
Brad Adams, Lead Operator
Marcos Avila, Lead Mechanic
Eugene Davis, O&M Manager**

Others Present:

**Keith Metzler, City of Victorville
Doug Robertson, Apple Valley
Debra Jones, City of Victorville
George Harris, City of Victorville**

**Romero Rodriguez, Resident
Blanca Gomez, City of Victorville
Brian Gengler, City of Victorville**

CLOSED SESSION

Piero Dallarda stated that there are a couple of items that staff became aware of yesterday that need to be discussed by the Board today. Under Government Code Section 54954.2(b) requested to add to closed session items 3A and 3B. Both issues are potential litigation Government Code Section 54956.9(d). Yesterday staff became aware of new limitations that Lahontan would like to impose on VWVRA's NPDES Permit regarding flows to the Mojave River. The second issue, item 3B, relates to the ongoing emergency with the biosolids drying beds. With the precipitation, it has made the issue worse and staff will need direction in terms of how to proceed in regards to the WDR Permit.

There was a roll call:

Chair Nassif- Present

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Commissioner Bird- Present

Commissioner Cox- Present

Commissioner Rigney- Absent

Commissioner Nassif made a motion to add items 3A and 3B to close session, seconded by Commissioner Bird and approved by roll call.

Chair Nassif: Yes

Commissioner Bird: Yes

Commissioner Cox: Yes

PUBLIC COMMENTS- CLOSED SESSION AGENDA

Chair Rigney asked if there were any comments from the public regarding any item on the Closed Session Agenda. Hearing none, he called for a motion to enter into Closed Session.

Commissioner Bird made a motion to enter into Closed Session. Seconded by Commissioner Cox.

REGULAR SESSION

CALL TO ORDER & PLEDGE OF ALLEGIANCE

Chair Nassif called the meeting to order at 9:44 am.

REPORT FROM CLOSED SESSION

Nothing to report

PUBLIC COMMENTS- REGULAR SESSION AGENDA

ANNOUNCEMENTS AND CORRESPONDENCE:

7. Possible conflict of interest issues

Commissioner Nassif will be abstaining from any disbursements to Napa Auto Parts on item 11

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- 8. Article- ERDT enVision Donates \$2,000 to VVC Foundation on Behalf of VVWRA**
- 9. Article- India Girl Who Took Her Dad to the Police Over a Toilet**
- 10. General Managers Report**
 - A. Article- Management Standards for Hazardous Waste Pharmaceuticals**
 - B. Article- NACWA Scores Clean Water Win, Integrated Planning, Farm Bill**
 - C. Analysis: Workplace Spirituality**

CONSENT CALENDAR:

- 11. Approve December 2018 and January 2019 Disbursement Registers**
- 12. Approve Minutes from the December 20, 2018 Regular Meeting**
- 13. Recommendation to Approve Seeding the Hesperia Subregional**

Commissioner Cox made a motion to approve the consent calendar, seconded by Commissioner Bird and approved by roll call vote with Chair Nassif abstaining from any disbursements to Napa Auto Parts.

Chair Nassif: Yes

Commissioner Bird: Yes

Commissioner Cox: Yes

REPORTS & PRESENTATIONS:

- 14. Presentation: Mid-year Budget Review (Keagy)**

Chieko Keagy gave a presentation on the mid-year budget

PUBLIC HEARING:

- 15. Adoption of Fiscal Year 2018-2019 Amended Budget**

Chair Nassif opened the Public Hearing at 9:55 AM.

The Secretary of the Board confirmed the posting and publication of the Hearing Notice as required by law.

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Item #14 was included in this Public Hearing. The presentation was given by Chieko Keagy and reviewed the Mid-Year Budget Review

Chair Nassif asked if there were any comments from the public. Hearing none, he closed the Public Hearing at 10:16 AM.

ACTION & DISCUSSION ITEMS:

16. Resolution 2019-01 Adopt FY 2018-2019 Amended Budget

Commissioner Bird made a motion to approve the recommendation, seconded by Commissioner Cox and approved by roll call.

Chair Nassif: Yes

Commissioner Bird: Yes

Commissioner Cox: Yes

17. Recommendation to Approve Additional Professional Services for Raftelis

Manager Olds stated that this was originally budgeted for \$50,000.00 and is now \$83,582.00. Compared to the last three financial plans that VVWRA has done, this is fairly consistent. In the past, \$50,000.00 was budgeted and then had to be brought back to the Board due to a number of changes and additional meetings that are requested to complete the process. At this value, it would give Staff an additional three meetings with Raftelis and a bit more work to finalize any remaining modeling scenarios.

Commissioner Cox made a motion to approve the recommendation, seconded by Commissioner Nassif and approved by roll call.

Chair Nassif: Yes

Commissioner Bird: Yes

Commissioner Cox: Yes

18. Mojave Desert & Mountain Recycling Authority Letter of Interest

Manager Olds stated that he has been in contact with John Davis at the Mojave Desert & Mountain Recycling Authority since 2006. They have made enough progress on their plan that they would like to move forward. Manager Olds is requesting from the Board that he be given the authority to negotiate with them so that they essentially have a priority right for leasing capacity in VVWRA's

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digesters. This is only authority to negotiate. Any terms or agreements would come back to the Board for approval.

Commissioner Bird made a motion to approve the recommendation, seconded by Commissioner Cox and approved by roll call.

Chair Nassif: Yes

Commissioner Bird: Yes

Commissioner Cox: Yes

19. Finley Letter of interest

Commissioner Bird made a motion to approve the recommendation, seconded by Commissioner Cox and approved by roll call.

Chair Nassif: Yes

Commissioner Bird: Yes

Commissioner Cox: Yes

20. Resolution 2019-02 Appreciation of Dedicated Service

Tabled for the March Meeting

STAFF/PROFESSIONAL SERVICES REPORTS:

21. Financial and Investment Report – January 2019

22. Environmental Compliance Department Reports – January 2019

23. Septage Receiving Facility Reports – January 2019

24. Safety & Communications Report – January 2019

NEXT VVWRA BOARD MEETING:

Thursday, March 21, 2019 - Regular Meeting of the Board of Commissioners

FUTURE AGENDA ITEMS

Resolution Categorical Exemption From CEQA for Storm Water Project (March)

Pipeline Injection Project (March)

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Construction Easement Agreement Lewis Learning Center

USDA Loan and Grant for the Oro Grand Interceptor Project

Flow Billing Percentages and Re-allocation

O&M Building Extension

COMMISSIONER COMMENTS

ADJOURNMENT

APPROVAL:

DATE: March 21, 2019

BY:

Approved by VVWRA Board James Cox,
Secretary VVWRA Board of Commissioners

**MINUTES OF A REGULAR MEETING
SPECIAL MEETING OF THE BOARD OF COMMISSIONERS
VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY (VWVRA)
February 11, 2019**

CALL TO ORDER: Chair Scott Nassif called the meeting to order at 8:02 am; in Conference Room D at Victorville City Hall, located at 14343 Civic Drive, Victorville California, with the following members present:

ORO GRANDE (CSA 42) AND SPRING VALLEY LAKE (CSA 64) TOWN OF APPLE VALLEY CITY OF VICTORVILLE CITY OF HESPERIA	ABSENT Scott Nassif, Vice-Chair Jim Cox, Secretary Bill Holland, Treasurer
--	---

VWVRA Staff and Legal Counsel:

Logan Olds, General Manager
Kristi Casteel, Secretary to GM/Board
Piero Dallarda, Legal Counsel (BB&K)
Chieko Keagy, Controller
Robert Townsend, Regulatory Inspector

David Wylie, Safety & Communications Officer
Xiewi Wang, Senior Accountant
Robert Coromina, Director of Administration

Others Present:

Keith Metzler, City of Victorville
Doug Robertson, Apple Valley
Debra Jones, City of Victorville
George Harris, City of Victorville

Sanjay Gaur, Raftelis
Charles Diamond, Raftelis
Robert DeLoach, DeLoach and Associates

REGULAR SESSION

CALL TO ORDER & PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS- REGULAR SESSION AGENDA

REPORTS & PRESENTATIONS:

1. Presentation: VWVRA Organizational Performance Assessment (DeLoach)

Robert DeLoach gave an update on the Organizational Performance Assessment

2. Presentation: Financial Plan (Raftelis)

Sanjay from Raftelis gave an update on the Financial Plan

VVWRA Special Meeting Minutes**Monday February 11, 2019****Page 2**

The Board adjourned for a five minute break at 9:23 AM and was called back to order at 9:28 AM.

3. Presentation: Ordinance 001 Timeline (Casteel)

Kristi Casteel gave a presentation on the timeline for approval of Ordinance 001

ACTION & DISCUSSION ITEMS:**4. Discussion: Financial Plan**

There was no direction or action given by the Board at this time.

NEXT VVWRA BOARD MEETING:

Thursday, February 21, 2019 - Regular Meeting of the Board of Commissioners

COMMISSIONER COMMENTS**ADJOURNMENT****APPROVAL:**

DATE: March 21, 2019 **BY:** _____

Approved by VVWRA Board James Cox,
Secretary VVWRA Board of Commissioners



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners

March 21, 2019

FROM: Marcos Avila *MA*

TO: Logan Olds, General Manager

SUBJECT: Grit Classifier Replacement

RECOMMENDATION

It is recommended to the Board of commissioners approve the purchase of a direct replacement SPS Grit Classifier from the sole source provider SPS Engineering in the amount not to exceed \$48,181.65

REVIEW BY OTHERS

This recommendation was reviewed by Eugene Davis Operations and Maintenance Manager, Latif Laari Business Applications Manager, Brad Adams Lead Operator, Chieko Keagy Controller.

BACKGROUND INFORMATION

Grit removal is the process used to remove sand, silt, grit and other materials from the wastewater. If not removed, grit compromises downstream processes through the combined effects of abrasion of mechanical equipment and accumulation in channels and basins. Ineffective solids removal leads to clogging, operational inefficiencies and can disrupted the biological treatment.

VWRA has two SPS Grit Classifier that operate as duty or standby, grit classifier #2 is reaching its end of life and needs replacement.

FINANCIAL IMPACT

Finance Approval:

Fund		01 []	07 [X]	09 []
Account String	<i>example: 07-02-50-9000</i>	07-02-94-9999		
Project Code	<i>example: C005 for Desert Knoll Wash</i>	6010		
Budgeted Available before This Recommendation		\$42,00.00		
Budget Applied to This Staff Recommendation		\$48,181.65		
Budget Remaining (Over Budget)		(\$6181.65)		

RELATED IMPACTS

- Prevents higher maintenance and repair cost.
- Prevents higher energy cost.
- Stable biological treatment operation.



900 N. 400 W. Bldg. #16, North Salt Lake, UT 84054
Tel: (801) 298-0086 Fax: (801) 298-0296

<http://spsengineering.com/>

March 6, 2019

To : Victor Valley WWTP

PROPOSAL

Attn.: Marcos Avila

Re: Grit Classifier
SPS Proposal No. P18012-18c

Page 1 of 2

Dear Daniel,

The following is our proposal to furnish the Grit Classifier equipment as described below and purchaser shall install the mechanism per SPS instructions.

ITEM "A" – One (1) 14"W x12'L Grit Reciprocating Scraper Classifier with Cyclone

1. Trough inclined and constructed from 1/4" thick steel plate with an end overflow compartment to permit settling equipped with an adjustable weir. Steel chute to be provided on the discharge end for dumpster removal.
2. Reciprocating arm mechanism with 1/4" abrasion resistant blades installed in trough of 1/4" steel. Arm blades of minimum 12" wide x 12" scraping stroke parallel to the floor with minimum 1/2" clearance. Pivoting system shall employ grease lubricated roller bearing pillow blocks. Drive unit consisting of helical speed reducing motor coupled to drive crank of reciprocating system. Speed reducer shall have a service factor of 1.25 and be oil bath lubricated. Motor to be 3/4 HP 1800 rpm, 460 volt, 3 phase.
3. Discharge chute of stainless steel plate to direct grit to the dumpster bin.
4. Full mechanism enclosure housing of 304 stainless steel gauge sheet.
5. Shop coating: The grit trough and the rake shall be hot dip galvanized after fabrication. All other steel parts shall be sandblasted to commercial grade per SSPC SP6 and coated with epoxy primer 4-6 mils, and finish coated with polyurethane 2-3 mils.
6. Anchor bolts of 316 stainless steel. Fasteners and hardware of 304 stainless steel.
7. One (1) Hydrocyclone grit separator rated for 220 gpm with an inlet pressure of 12 psig. The cyclone shall have cylindrical feed chamber with 4" dia. involuted inlet and 6" outlet, a removable vortex finder, 2" apex valve for discharging the grit. The upper and lower sections shall be of steel with removable neoprene liners, lower cone shall be hinged for cleaning. The inlet and overflow shall be fitted with flanged adapter provided with dial diaphragm type pressure gauge having a 0-15 psig range. The cyclone shall be mounted inclined on to the steel support over the grit classifier tank.

SPS ENGINEERING, INC.
 PROPOSAL No. P18012-18c
 PROJECT: Grit Classifier

Pg. 2 of 2

PRICING (taxes are not included):

ITEM "A" : One (1) 14"W x12'L Grit Reciprocating Scraper Classifier with Cyclone	<u>\$42,860.00</u>
ITEM "A.1" Estimated freight FOB factory allowed to Victor Valley, CA	<u>\$2,000.00</u>

ITEMS NOT INCLUDED: shall be the responsibility of equipment erector.

- Electrical equipment or electrical controls, electrical field wiring or conduit , piping, valves, or fittings, lubricating oil or grease, field welding, installation and erection, unloading, storage, field surface cleaning and painting, concrete work and its reinforcement, unless otherwise noted in above proposal.
- Dumpster bin.

OTHER TERMS:

1. SALES/USE/export TAXES ARE NOT included in above PRICES.
3. Prices are firm for 30 days and are subject to review after 30 days. Excessive price changes beyond SPS's control shall constitute acceptance by the purchaser for price review and price adjustment.
4. Payment terms: 30% of the gross amount after drawings approval, 70% of the gross amount after shipment. Payments are due net 30 days from the time of invoice, add 1 1/2 percent per month for late payments. SPS Engineering reserves the right to ship, invoice and collect for partial shipments.
5. Submittals shall be made in approximately 4 to 6 weeks after purchase order number is issued. Other required design data shall be provided as needed within a reasonable working timetable. Any changes beyond this proposal shall be notified and cost shall be added to the purchase order.
6. Estimated shipment shall begin 20 to 23 weeks after approval of submittal.
7. Prices quoted are FOB shipping point with freight allowed to job sited. Unloading is by others. All claims for damage or loss in shipment shall be initiated by the purchaser or his authorized agent.
8. SPS Engineering, Inc. "Terms & Conditions of Sale" shall be included as part of any order resulting from this proposal, exceptions shall be as noted in the proposal.

We thank you for the opportunity to offer our equipment on this project. Should you have any question please contact us at (801)298-0086

Sincerely,



Mike Skorut
 SPS ENGINEERING, INC.



900 N. 400 W Bldg. #16 , North Salt Lake, UT 84054
Tel: (801) 298-0086 Fax: (801) 298-0296

<http://spsengineering.com/>

March 6, 2019

To : Victor Valley WWTP

Attn: Marco Avila

RE: Sole Source Letter

Page 1 of 1

To Whom It May Concern:

This letter is provided to confirm that SPS Engineering, Inc. is the sole original equipment manufacturer and only direct source for the sale of this direct replacement Reciprocating Grit Classifier Equipment.

SPS Engineering, Inc. as the manufacturer of equipment in certain territories can/does sell through certain equipment representatives. At this time we offer equipment for direct sale to purchaser not through any re-seller or outside party.

Sincerely,

A handwritten signature in black ink that reads 'Mike Skorut'. The signature is written in a cursive, flowing style.

Mike Skorut
SPS ENGINEERING, INC.



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners

March 21, 2019

FROM: Chieko Keagy, Controller *CK*
TO: Logan Olds, General Manager
SUBJECT: Resolution 2019-03 Reapportionment of Flow Billing Percentages

RECOMMENDATION

It is recommended that the Board of Commissioners approve Resolution 2019-03 to amend flow billing percentages and approve the flow billing rates as measured by ADS Environmental Services, Inc.

REVIEW BY OTHERS

This recommendation was reviewed by:
 Dale Burke, Town of Apple Valley
 David Burkett, City of Hesperia
 Brian Gengler, City of Victorville
 Piero Dallarda, Legal Counsel
 Latif Laari, VVWRA Business Application Manager

BACKGROUND INFORMATION

VVWRA contracts with ADS Environmental Services, Inc. to conduct continuous flow measurement throughout the VVWRA collection system. The data collected for the period of 12 months ended June 2018 is used to determine the percentage of flow the Authority receives from each Member Agency. The actual amount billed to each Member Agency is their percentage of flow measured at the influent flow meter at the wastewater treatment plant. The Member Agencies then meet and discuss the results. Once agreement occurs, the flow study and associated percentages are forwarded to the Board for adoption by Resolution.

FINANCIAL IMPACT

The user fees will be reapportioned among Member Agencies based on the flow study.

Finance Approval:

Fund 01 or 07		
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)		
Transfer from Reserve	Y []	N []
If Transfer, from Which Reserve		
Outside Funding Source if applicable		
Change Order	Y []	N []
Original Budget Amount	\$	
Original Contract Amount	\$	
Budget Remaining after the Recommendation	\$	
Contract after Change	\$	

Fund 09		
Accounting Code (String) example: 09-xx-xxx-xxxx (mandatory project code)		
Transfer from Reserve	Y []	N []
If Transfer, from Which Reserve		
Outside Funding Source		
Change Order	Y []	N []
Original Budget Amount	\$	
Original Contract Amount	\$	
Budget Remaining after the Recommendation	\$	
Contract after Change	\$	

RELATED IMPACTS

The purpose of the allocation percentages is to assure each Member Agency only pays for its own portion of flow treated by VVWRA,

RESOLUTION NO. 2019-03

A RESOLUTION OF THE VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY TO AMEND BILLING PERCENTAGES AND APPROVE FLOW BILLING ADJUSTMENTS RELATING TO THE FLOW MONITORING RESULTS AS MEASURED BY ADS ENVIRONMENTAL SERVICES, INC.

WHEREAS, the Victor Valley Wastewater Reclamation Authority (“Authority”) is a Joint Powers Authority and Public Agency of the State of California established in 1978 that provides Regional wastewater treatment to a designated Service Area; and

WHEREAS, an amendment to the Victor Valley Regional Wastewater Service Agreement was made and entered into as of August 1, 2005, by and between the Authority and the City of Victorville, the City of Hesperia, the Town of Apple Valley, and the County of San Bernardino Service Areas No. 42 (Oro Grande) and No. 64 (Spring Valley Lake), collectively referred to as “Member Entities”; and

WHEREAS, the Authority provides wastewater treatment service to the Member Entities and issues monthly flow billings to the Member Entities based upon the number of gallons of flow received from each Entity; and

WHEREAS, it was agreed and established in 1998 by the VVWRA Technical Advisory Committee that the local metering stations are inaccurate and do not provide reliable flow data, and it was determined that the Authority would utilize the services of an independent agent to conduct periodic flow monitoring with their own equipment; and

WHEREAS, it was agreed and established that the results of the flow monitoring study would be used to establish percentages with which to apportion the total flow as measured by the Magmeter at the Regional Treatment Plant and determine member entity flow by said percentages for billing purposes; and

WHEREAS, the Commission of the Victor Valley Wastewater Reclamation Authority approved and adopted the flow monitoring results as measured by ADS Environmental Services, Inc., attached hereto as “Exhibit A”, and directed staff to make appropriate flow billing adjustments;

NOW, THEREFORE, BE IT RESOLVED that the Commission of the Victor Valley Wastewater Reclamation Authority does hereby amend the flow billing percentages relating to the flow monitoring results as measured by ADS Environmental Services, Inc. and direct staff to implement flow billing adjustments based on the amended billing percentages.

APPROVED AND ADOPTED on this 21st day of March 2019.

Jeff Rigney, Chair
VVWRA Board of Commissioners

ATTEST:

APPROVED AS TO FORM:

James Cox, Secretary
VWVRA Board of Commissioners

Piero C. Dallarda of
Best, Best & Krieger LLP, VWVRA Counsel

CERTIFICATION:

I do hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the Board of Commissioners held on March 21, 2019.

Kristi Casteel – Clerk of the Board

EXHIBIT A

Victor Valley Wastewater Reclamation Authority
Flow Study
July 2017 - June 2018

Proposed Flow Allocation Based on July 2017 - June 2018

Measured by ADS	Proposed Flow Allocation	
	Total %	Total MG
VSD 1 (less North Apple Valley)	5.8368%	248.0620
VSD 2	13.8642%	589.2290
VSD 3	26.2773%	1,116.7838
VSD 4	7.2278%	307.1800
VSD 5	0.5212%	22.1490
VSD 6	6.3741%	270.9005
VSD Total	60.1013%	2,554.3043
Apple Valley 01	10.3019%	437.8302
Apple Valley 02	5.5026%	233.8608
Apple Valley North	0.1041%	4.4240
Apple Total	15.9086%	676.1150
Hesperia	18.5750%	789.4370
CSA 64 SVL	4.7154%	200.4050
CSA 42 Oro Grande	0.6998%	29.7400
CSA Total	5.4152%	230.1450
Total Apportioned Flow	100.0000%	4,250.0013
Mojave Narrows Regional Park		1.2000
Total Study Flow		4251.2013

Board Approved Flow Allocation Based on July 2016-June 2017 For a Comparison Purpose

Measured by ADS	Board Approved Flow Approved on 3/15/2018	
	Total %	Total MG
VSD 1 (less North Apple Valley)	5.8412%	202.6280
VSD 2	13.7492%	476.9550
VSD 3	25.4388%	882.4640
VSD 4	7.1982%	249.7040
VSD 5	0.5557%	19.2780
VSD 6	6.6131%	229.4060
VSD Total	59.3962%	2,060.4350
Apple Valley 01	10.7494%	372.8930
Apple Valley 02	5.7976%	201.1170
Apple Valley North	0.1013%	3.5130
Apple Total	16.6483%	577.5230
Hesperia	18.3089%	635.1290
CSA 64 SVL	4.9266%	170.9020
CSA 42 Oro Grande	0.7200%	24.9760
CSA Total	5.6466%	195.8780
Total Apportioned Flow	100.0000%	3,468.9650
Mojave Narrows Regional Park		1.0000
Total Study Flow		3,469.9650

Victor Valley Wastewater Reclamation Authority
Flow Study
July 2017 - June 2018

Table with 13 columns: Month (August to July), Percentage of Total, MG, and Total. It contains monthly flow data for various stations, with a total of 3,466,950 MG for the period.

Flow Comparison Purposes

Table with 13 columns: Month (August to July), Percentage of Total, MG, and Total. It contains monthly flow data for various stations, with a total of 3,466,950 MG for the period.

Table with 13 columns: Month (August to July), Percentage of Total, MG, and Total. It contains monthly flow data for various stations, with a total of 3,466,950 MG for the period.

VVWRA
Flow Measured by ADS
July 2017

Date	Flows Measured by ADS										Flows not measured by ADS				ADS-Umeters @ Flow	Mag Meter Flow Data	Variance
	Apple Valley No1 MP1 Q/FINAL	Apple Valley No2 MP1 Q/FINAL	CSA 42 MP1 Q/FINAL	CSA 64 MP1 Q/FINAL	Hesperia MP1 Q/FINAL	NAVI MP1 Q/FINAL	VSD No1 MP1 Less NAVI	VSD No2 MP1 Q/FINAL	VSD No3 MP1 Q/FINAL	VSD No4 MP1 Q/FINAL	ADS Totals	COVY Wastewater WTPP (gpd)	COVY WTPP (gpd)	CSA64 Park			
7/12/2017	1,207	0,571	0,06	0,578	2,093	0,01	0,650	1,666	3,126	0,074	0,746	0,0000	0,0327	0,0032	11,6359	10,2280	1,4079
7/19/2017	1,202	0,526	0,06	0,549	2,086	0,01	0,640	1,666	3,126	0,076	0,735	0,0000	0,0327	0,0032	11,5399	10,2040	1,3359
7/26/2017	1,178	0,597	0,09	0,556	2,064	0,01	0,680	1,541	3,062	0,074	0,735	0,0000	0,0327	0,0032	11,4179	10,2460	1,0719
7/29/2017	1,128	0,552	0,07	0,545	1,984	0,01	0,640	1,541	3,002	0,073	0,732	0,0000	0,0327	0,0032	11,2929	9,8250	1,4679
7/30/2017	1,157	0,578	0,06	0,542	2,047	0,01	0,670	1,521	3,075	0,078	0,734	0,0000	0,0327	0,0032	11,2189	10,2900	0,9289
7/31/2017	1,145	0,548	0,06	0,534	2,091	0,01	0,680	1,587	3,136	0,077	0,736	0,0000	0,0327	0,0032	11,3879	10,2200	1,1679
7/31/2017	1,181	0,584	0,06	0,557	2,131	0,01	0,680	1,587	3,147	0,074	0,732	0,0000	0,0327	0,0032	11,4779	10,0950	1,3829
7/31/2017	1,169	0,547	0,06	0,547	2,096	0,01	0,650	1,567	3,077	0,075	0,739	0,0000	0,0327	0,0032	11,5479	10,1900	1,3579
7/13/2017	1,184	0,563	0,07	0,537	2,124	0,01	0,700	1,571	3,142	0,075	0,732	0,0000	0,0327	0,0032	11,6659	10,4400	1,2259
7/14/2017	1,164	0,612	0,06	0,537	2,091	0,01	0,680	1,555	3,139	0,075	0,725	0,0000	0,0327	0,0032	11,4779	10,2860	1,1919
7/15/2017	1,167	0,648	0,06	0,549	2,148	0,01	0,660	1,589	3,051	0,074	0,736	0,0000	0,0327	0,0032	11,3499	10,1960	1,1539
7/16/2017	1,168	0,624	0,07	0,571	2,162	0,01	0,670	1,541	2,878	0,074	0,728	0,0000	0,0327	0,0032	11,3759	9,8060	1,5699
7/17/2017	1,177	0,624	0,05	0,562	2,111	0,01	0,670	1,591	2,886	0,077	0,743	0,0000	0,0327	0,0032	11,3999	10,2390	1,1609
7/18/2017	1,178	0,657	0,05	0,553	2,133	0,01	0,650	1,538	2,833	0,075	0,732	0,0000	0,0327	0,0032	11,1719	10,5000	0,6719
7/19/2017	1,181	0,639	0,08	0,553	2,108	0,01	0,650	1,538	2,833	0,072	0,732	0,0000	0,0327	0,0032	11,2589	10,4500	0,7999
7/20/2017	1,212	0,608	0,08	0,546	2,116	0,01	0,620	1,568	2,925	0,072	0,736	0,0000	0,0327	0,0032	11,1100	10,1100	1,0000
7/21/2017	1,195	0,616	0,08	0,541	2,074	0,01	0,680	1,568	2,925	0,07	0,726	0,0000	0,0327	0,0032	11,3219	11,1459	0,1769
7/22/2017	1,143	0,616	0,08	0,551	2,107	0,01	0,610	1,562	2,918	0,074	0,724	0,0000	0,0327	0,0032	11,3219	11,1459	0,1769
7/23/2017	1,144	0,634	0,08	0,553	2,121	0,01	0,680	1,562	2,917	0,073	0,724	0,0000	0,0327	0,0032	11,3459	11,2960	0,0499
7/24/2017	1,166	0,663	0,08	0,554	2,184	0,01	0,680	1,526	2,911	0,075	0,749	0,0000	0,0327	0,0032	11,4329	10,6870	0,7459
7/25/2017	1,161	0,657	0,08	0,544	2,286	0,01	0,670	1,586	2,861	0,074	0,748	0,0000	0,0327	0,0032	11,4919	9,9450	1,5469
7/26/2017	1,171	0,644	0,09	0,542	2,082	0,01	0,640	1,599	2,952	0,075	0,738	0,0000	0,0327	0,0032	11,6639	11,0350	0,4289
7/28/2017	1,221	0,643	0,04	0,543	2,082	0,01	0,640	1,582	3,028	0,075	0,738	0,0000	0,0327	0,0032	11,5259	10,2170	1,3089
7/28/2017	1,224	0,681	0,13	0,558	2,144	0,01	0,680	1,623	3,028	0,072	0,733	0,0000	0,0327	0,0032	11,7059	10,2800	1,4259
7/29/2017	1,177	0,696	0,12	0,552	2,105	0,01	0,660	1,582	3,028	0,071	0,733	0,0000	0,0327	0,0032	11,5799	10,3800	1,1999
7/30/2017	1,185	0,656	0,13	0,579	2,141	0,01	0,650	1,625	2,946	0,072	0,739	0,0000	0,0327	0,0032	11,7059	10,8700	0,8359
7/31/2017	1,214	0,681	0,13	0,572	2,215	0,01	0,650	1,625	2,946	0,077	0,739	0,0000	0,0327	0,0032	11,7059	10,8700	0,8359
Totals	36,4680	19,2200	2,5000	17,1700	65,4100	0,3900	20,3000	48,5600	93,0210	2,3100	22,7630	0,0000	1,0150	0,1000	354,9639	315,8972	39,0667
																	12,3669%

VSD 1 data was revised to exclude NAVI flow.
CSA64 Magmeter Nitrous added 0.1MG by agreement.

VYVRA
Flow Measured by ADS
August 2017

Date	Flows Measured by ADS										Flows not measured by ADS		ADS-Underserved Flow	Mag Meter Flow Data	Variance					
	AppleValley No1 MPI QFINAL	AppleValley No2 MPI QFINAL	CSA 42 MPI QFINAL	CSA 64 MPI QFINAL	Hesperia MPI QFINAL	NAVI MPI QFINAL	VSD No1 MPI Less NAVI QFINAL	VSD No2 MPI QFINAL	VSD No3 MPI QFINAL	VSD No4 MPI QFINAL	VSD No5 MPI QFINAL	VSD No6 MPI QFINAL				ADS Totals	COVY IWWTW Watermeter (gpd)	COVY IWWTW Stage (gpd)	CSA64 Park	Million Gallons
8/1/2017	1,1830	0,6570	0,1850	0,5870	2,1550	0,0150	0,6570	1,5730	2,9080	0,8350	0,0760	0,7380	11,4169	0,0000	0,0344	0,0032	10,5200	11,4536	10,5200	0,9336
8/2/2017	1,1690	0,6150	0,1550	0,5370	2,1260	0,0150	0,6570	1,5730	3,0220	0,8350	0,0770	0,7490	11,5590	0,0000	0,0344	0,0032	11,3850	11,5280	11,3850	0,2106
8/3/2017	1,1980	0,6560	0,1300	0,5740	2,1250	0,0140	0,6530	1,5470	3,0220	0,8350	0,0760	0,7690	11,7250	0,0000	0,0344	0,0032	11,5950	11,7020	11,5950	2,406
8/4/2017	1,0380	0,6600	0,1410	0,5520	2,1250	0,0130	0,6580	1,6470	3,1110	0,8350	0,0760	0,7690	11,8290	0,0000	0,0344	0,0032	11,776	11,8290	11,776	1,7806
8/5/2017	1,3190	0,6280	0,1390	0,5730	2,1870	0,0140	0,6580	1,6710	3,0950	0,8600	0,0750	0,7600	11,8290	0,0000	0,0344	0,0032	11,8290	11,8290	11,8290	0,6986
8/6/2017	1,1730	0,6680	0,1400	0,5730	2,1680	0,0130	0,6550	1,6310	3,1100	0,8600	0,0750	0,7600	11,8290	0,0000	0,0344	0,0032	11,8656	11,8656	11,8656	0,6986
8/7/2017	1,1940	0,6160	0,1370	0,5390	2,1510	0,0120	0,6430	1,6480	3,0330	0,8340	0,0760	0,7800	11,6540	0,0000	0,0344	0,0032	10,9940	11,6540	10,9940	1,8116
8/8/2017	1,1980	0,5820	0,1340	0,5390	2,1780	0,0130	0,6460	1,6550	3,0080	0,8050	0,0770	0,7800	11,5540	0,0000	0,0344	0,0032	11,5916	11,5540	11,5916	1,6576
8/9/2017	1,2770	0,5800	0,1440	0,5800	2,1780	0,0140	0,6220	1,6140	3,0550	0,8170	0,0770	0,7670	11,5470	0,0000	0,0344	0,0032	11,5546	11,5470	11,5546	1,4226
8/10/2017	1,2000	0,6090	0,1300	0,5370	2,1720	0,0150	0,6660	1,6460	3,1040	0,8340	0,0760	0,7690	11,6459	0,0000	0,0344	0,0032	11,6826	11,6459	11,6826	1,7486
8/11/2017	1,2000	0,6090	0,1300	0,5370	2,1720	0,0150	0,6660	1,6460	3,1040	0,8340	0,0760	0,7690	11,6459	0,0000	0,0344	0,0032	11,6826	11,6459	11,6826	1,7486
8/12/2017	1,1280	0,5840	0,1180	0,5320	2,1610	0,0140	0,6460	1,6710	3,1460	0,8340	0,0760	0,7840	11,6990	0,0000	0,0344	0,0032	11,7386	11,6990	11,7386	1,1596
8/13/2017	1,1820	0,6560	0,1190	0,5660	2,2150	0,0140	0,6340	1,6710	3,1260	0,8340	0,0760	0,7720	11,6530	0,0000	0,0344	0,0032	11,6896	11,6530	11,6896	0,9326
8/14/2017	1,2140	0,6540	0,1260	0,5490	2,1690	0,0130	0,6200	1,6590	3,0130	0,8410	0,0750	0,7720	11,6530	0,0000	0,0344	0,0032	11,6896	11,6530	11,6896	0,9326
8/15/2017	1,2090	0,6120	0,1190	0,5480	2,1950	0,0120	0,6280	1,6200	2,9830	0,8120	0,0750	0,7770	11,7490	0,0000	0,0344	0,0032	11,7856	11,7490	11,7856	0,7376
8/16/2017	1,1940	0,6130	0,1240	0,5350	2,2190	0,0120	0,6250	1,6200	3,1140	0,8340	0,0750	0,7660	11,7490	0,0000	0,0344	0,0032	11,7856	11,7490	11,7856	1,2906
8/17/2017	1,2050	0,6830	0,1240	0,5400	2,1950	0,0130	0,6900	1,5750	3,0780	0,8290	0,0750	0,7660	11,5780	0,0000	0,0344	0,0032	11,6156	11,5780	11,6156	1,0396
8/18/2017	1,1820	0,5960	0,1160	0,5460	2,1800	0,0130	0,6680	1,6300	3,1130	0,8340	0,0750	0,7700	11,5630	0,0000	0,0344	0,0032	11,6006	11,5630	11,6006	1,4876
8/19/2017	1,1820	0,5960	0,1160	0,5460	2,1800	0,0130	0,6680	1,6300	3,1130	0,8340	0,0750	0,7700	11,5630	0,0000	0,0344	0,0032	11,6006	11,5630	11,6006	1,4876
8/20/2017	1,2040	0,6620	0,1190	0,5840	2,1910	0,0110	0,6590	1,6200	3,0110	0,8660	0,0740	0,7400	11,6250	0,0000	0,0344	0,0032	11,6606	11,6250	11,6606	0,9656
8/21/2017	1,2020	0,6290	0,1230	0,5260	2,1730	0,0120	0,6390	1,6200	3,0180	0,8660	0,0740	0,7400	11,6250	0,0000	0,0344	0,0032	11,6606	11,6250	11,6606	0,9656
8/22/2017	1,1860	0,6140	0,1200	0,5450	2,1840	0,0120	0,6370	1,6100	3,0180	0,8680	0,0750	0,7410	11,7120	0,0000	0,0344	0,0032	11,7496	11,7120	11,7496	1,336
8/23/2017	1,2330	0,6230	0,1160	0,5310	2,1720	0,0110	0,6260	1,6200	3,0970	0,8870	0,0750	0,7460	11,7430	0,0000	0,0344	0,0032	11,7896	11,7430	11,7896	0,9536
8/24/2017	1,2210	0,6080	0,1200	0,5350	2,1750	0,0130	0,6350	1,5980	3,1290	0,8880	0,0750	0,7460	11,7430	0,0000	0,0344	0,0032	11,7896	11,7430	11,7896	0,9536
8/25/2017	1,1830	0,6250	0,1040	0,5240	2,1880	0,0120	0,6460	1,6300	3,1350	0,8940	0,0750	0,7400	11,7590	0,0000	0,0344	0,0032	11,7966	11,7590	11,7966	1,2006
8/26/2017	1,1800	0,6200	0,1040	0,5380	2,1800	0,0120	0,6460	1,5930	3,1340	0,8940	0,0750	0,7580	11,6740	0,0000	0,0344	0,0032	11,7116	11,6740	11,7116	0,3496
8/27/2017	1,1800	0,6200	0,1040	0,5380	2,1800	0,0120	0,6460	1,5930	3,1340	0,8940	0,0750	0,7580	11,6740	0,0000	0,0344	0,0032	11,7116	11,6740	11,7116	0,3496
8/28/2017	1,1990	0,6520	0,1190	0,5660	2,2150	0,0100	0,6690	1,5950	2,9660	0,8660	0,0750	0,7350	10,6680	0,0000	0,0344	0,0032	10,7026	10,6680	10,7026	0,0826
8/29/2017	1,1960	0,6080	0,1150	0,5380	2,1900	0,0140	0,6690	1,5950	3,0210	0,8660	0,0750	0,7350	10,6680	0,0000	0,0344	0,0032	10,7026	10,6680	10,7026	0,0826
8/30/2017	1,1940	0,6160	0,1210	0,5390	2,1810	0,0160	0,6700	1,5920	3,0210	0,8660	0,0750	0,7320	10,7990	0,0000	0,0344	0,0032	10,8366	10,7990	10,8366	0,4616
8/31/2017	1,1840	0,6370	0,1100	0,5440	2,1590	0,0130	0,6610	1,5830	3,1020	0,8660	0,0750	0,7320	10,7990	0,0000	0,0344	0,0032	10,8366	10,7990	10,8366	0,4616
Totals	36,9370	19,3830	3,8360	16,9240	67,4400	0,4010	19,9580	49,9820	95,1850	21,9590	2,3320	23,4160	357,7550	0,0000	1,8660	0,1000	359,9206	371,9320	357,7550	9,6302%

VSD 1 data was revised to exclude NAVI flow.
CSA64 Negative Narrows added 0.1MG by agreement.

Notes:

VYVRA
Flow Measured by ADS
September 2017

Date	Flows Measured by ADS											Flows not measured by ADS			Mag Meter Flow Data	Variance				
	Apple Valley No. 1 MPI Q/FINAL	Apple Valley No. 2 MPI Q/FINAL	CSA 42 MPI Q/FINAL	CSA 64 MPI Q/FINAL	Hesperia MPI Q/FINAL	NAVI MPI Q/FINAL	VSD No. 1 MPI Less NAVI	VSD No. 2 MPI Q/FINAL	VSD No. 3 MPI Q/FINAL	VSD No. 4 MPI Q/FINAL	VSD No. 5 MPI Q/FINAL	ADS Totals	COVY WWTW Wastewater (incl.)	COVY I/WWTW Sludge (sp4)			CSA 64 Park	ADS - Unmetered Flow	Million Gallons	Million Gallons
9/1/2017	1,1550	0,6900	0,1100	0,5200	2,1430	0,0130	0,6700	1,5010	3,1860	1,1410	0,0750	0,7270	11,8900	0,0000	0,0321	11,3854	10,4370	1,4484		
9/2/2017	1,1510	0,6110	0,1180	0,5410	2,1320	0,0110	0,6800	1,5240	3,1790	0,9140	0,0750	0,7350	11,7770	0,0000	0,0321	11,8124	10,6640	1,3484		
9/3/2017	1,2250	0,6870	0,1130	0,5970	2,1020	0,0110	0,6620	1,5850	3,1280	0,9390	0,0750	0,7440	12,3340	0,0000	0,0321	11,5854	10,1980	1,3874		
9/4/2017	1,3250	0,6380	0,1150	0,5970	2,2490	0,0120	0,7300	1,7240	3,1380	0,9390	0,0750	0,7440	12,3340	0,0000	0,0321	11,5854	10,2590	0,7464		
9/5/2017	1,3850	0,6240	0,1080	0,5900	2,1870	0,0130	0,6960	1,6390	2,8550	0,8660	0,0730	0,7210	11,6930	0,0000	0,0321	11,6284	10,5600	0,7464		
9/7/2017	1,1900	0,6300	0,1070	0,5340	2,1750	0,0130	0,6900	1,6810	2,8500	0,8780	0,0730	0,7070	11,5390	0,0000	0,0321	11,5744	10,5600	0,1044		
9/8/2017	1,1460	0,5970	0,0980	0,5260	2,1890	0,0120	0,6960	1,7240	2,9100	0,8980	0,0710	0,7070	11,7480	0,0000	0,0321	11,7834	10,3150	1,4684		
9/9/2017	1,1460	0,5970	0,0980	0,5260	2,1890	0,0120	0,6960	1,7240	2,9100	0,8980	0,0710	0,7070	11,7480	0,0000	0,0321	11,7834	10,3150	1,4684		
9/10/2017	1,1680	0,6410	0,0930	0,5540	2,1570	0,0130	0,6940	1,6700	3,0250	0,8720	0,0690	0,7200	11,7170	0,0000	0,0321	11,7524	10,3380	1,4294		
9/11/2017	1,2280	0,5960	0,1050	0,5660	2,1970	0,0130	0,7150	1,6440	3,0250	0,8820	0,0690	0,7200	11,7170	0,0000	0,0321	11,7524	10,3380	1,4294		
9/12/2017	1,2320	0,6230	0,1090	0,5570	2,1620	0,0130	0,6920	1,5200	3,0660	0,8860	0,0670	0,7200	11,7170	0,0000	0,0321	11,7524	10,3380	1,4294		
9/13/2017	1,1870	0,6310	0,1070	0,5520	2,3350	0,0140	0,8960	1,2650	3,1230	0,8360	0,0650	0,8620	11,8890	0,0000	0,0321	11,9244	10,6030	1,2144		
9/14/2017	1,1870	0,6590	0,1040	0,5280	2,2800	0,0120	0,8900	1,2260	3,1190	0,8400	0,0640	0,8790	11,7820	0,0000	0,0321	11,8514	10,8140	1,0374		
9/15/2017	1,1670	0,6230	0,1010	0,5490	2,2380	0,0120	0,8630	1,2260	3,2350	0,8650	0,0640	0,9510	12,0480	0,0000	0,0321	12,0834	10,8660	1,2174		
9/16/2017	1,2570	0,6810	0,1030	0,5880	2,2010	0,0120	0,9420	1,1770	3,2350	0,8650	0,0640	0,9510	12,0480	0,0000	0,0321	12,0834	10,8660	1,2174		
9/17/2017	1,2570	0,6810	0,1030	0,5880	2,2010	0,0120	0,9420	1,1770	3,2350	0,8650	0,0640	0,9510	12,0480	0,0000	0,0321	12,0834	10,8660	1,2174		
9/18/2017	1,1950	0,6150	0,1090	0,5460	2,1740	0,0120	0,6520	1,5110	3,0250	0,8240	0,0650	0,7300	11,4240	0,0000	0,0321	11,4474	10,4370	0,9674		
9/19/2017	1,1850	0,5840	0,1140	0,5660	2,1650	0,0100	0,6930	1,4600	3,1450	0,8900	0,0620	0,7280	11,5890	0,0000	0,0321	11,8684	10,4430	1,2554		
9/20/2017	1,2050	0,5390	0,1120	0,5700	2,1380	0,0100	0,6610	1,4600	3,2050	0,9030	0,0620	0,7320	11,6330	0,0000	0,0321	12,1554	11,4580	0,6974		
9/22/2017	1,1730	0,6660	0,1090	0,5550	2,1260	0,0110	0,7030	1,5330	3,3430	0,9030	0,0620	0,7320	11,6330	0,0000	0,0321	12,1554	11,4580	0,6974		
9/23/2017	1,1770	0,7190	0,1030	0,5750	2,1930	0,0120	0,6930	1,5810	3,2170	0,9060	0,0620	0,7190	11,6260	0,0000	0,0321	11,8614	10,4930	1,3684		
9/24/2017	1,1970	0,7110	0,1060	0,5360	2,1180	0,0110	0,6840	1,5310	3,0870	0,8680	0,0620	0,7170	11,5220	0,0000	0,0321	11,5284	8,6740	2,8544		
9/25/2017	1,1970	0,7110	0,1060	0,5360	2,1180	0,0110	0,6840	1,5310	3,0870	0,8680	0,0620	0,7170	11,5220	0,0000	0,0321	11,5284	8,6740	2,8544		
9/26/2017	1,1670	0,6440	0,1410	0,5410	2,0080	0,0100	0,6800	1,5250	3,1880	0,8730	0,0620	0,7060	11,5280	0,0000	0,0321	11,5284	8,6890	2,8684		
9/28/2017	1,1790	0,5790	0,1480	0,5500	2,2870	0,0110	0,6490	1,5250	3,1880	0,8730	0,0620	0,7060	11,5280	0,0000	0,0321	11,5284	8,6890	2,8684		
9/29/2017	1,1670	0,6690	0,1290	0,5090	2,0920	0,0130	0,6590	1,5110	3,2510	0,8610	0,0620	0,7110	11,5310	0,0000	0,0321	11,5284	8,7940	3,0134		
9/30/2017	1,1690	0,7490	0,1240	0,5110	2,1360	0,0120	0,6670	1,5560	3,2510	0,8610	0,0620	0,7110	11,5310	0,0000	0,0321	11,5284	8,7940	3,0134		
Totals	35,6120	19,9690	3,3600	16,5710	65,0440	0,3700	21,6230	45,7820	93,2440	26,3970	2,0020	22,7330	351,8240	0,0000	0,0628	352,8860	318,2150	34,6710		10,8606%

Notes:
VSD 1 data was revised to exclude NAVI flow.
CSA 64 Negative Arrows added 0.1MG by agreement.

VYVRA
Flow Measured by ADS
October 2017

Date	Flows Measured by ADS											Flows not measured by ADS			Mag Meter Flow Data	Variance			
	AppleValley No.1 MP1 QFNAL	AppleValley No.2 MP1 QFNAL	CSA 42 MP1 QFNAL	CSA 64 MP1 QFNAL	Hesperia MP1 QFNAL	NAVI MP1 QFNAL	VSD No.1 MP1 Less NAVI	VSD No.2 MP1 QFNAL	VSD No.3 MP1 QFNAL	VSD No.4 MP1 QFNAL	VSD No.5 MP1 QFNAL	VSD No.6 MP1 QFNAL	ADS Totals	COVW WWTWP Wastewater Million Gallons			COVW WWTWP Stage (ep) Million Gallons	CSA64 Park Million Gallons	ADS-Unmetered Flow
10/1/2017	1,1920	0,7810	0,1680	0,5760	2,1180	0,0130	0,6520	1,6520	3,2450	0,8780	0,6520	0,7380	12,2842	0,0000	0,0280	0,0032	11,4020	11,4020	0,8822
10/2/2017	1,1590	0,7230	0,2180	0,5890	2,1770	0,0120	0,6520	1,5190	3,2460	0,8740	0,6520	0,7240	11,9972	0,0000	0,0280	0,0032	11,9972	10,8120	1,1852
10/3/2017	1,2000	0,7280	0,2290	0,5560	2,1440	0,0150	0,6440	1,5190	3,1790	0,8640	0,6510	0,7200	11,7942	0,0000	0,0280	0,0032	11,7942	10,3810	1,4132
10/4/2017	1,3860	0,7360	0,1100	0,5360	2,0920	0,0170	0,6520	1,5360	3,1570	0,8590	0,6590	0,7250	11,7292	0,0000	0,0280	0,0032	11,7292	10,9970	0,7322
10/5/2017	1,3030	0,7000	0,0960	0,5340	2,1530	0,0150	0,6450	1,5240	3,1680	0,8400	0,6590	0,7100	11,8820	0,0000	0,0280	0,0032	11,9162	10,9970	0,9192
10/6/2017	1,1870	0,6940	0,0980	0,5310	2,1780	0,0140	0,6910	1,5010	3,1860	0,8360	0,6590	0,7100	11,8970	0,0000	0,0280	0,0032	11,9282	10,6930	1,2352
10/7/2017	1,1420	0,6790	0,0870	0,5410	2,1140	0,0140	0,6900	1,5550	3,2350	0,8530	0,6380	0,7330	11,8260	0,0000	0,0280	0,0032	11,8572	10,6030	1,2542
10/8/2017	1,1420	0,6790	0,0870	0,5410	2,1140	0,0140	0,6900	1,5550	3,2350	0,8530	0,6380	0,7330	11,8260	0,0000	0,0280	0,0032	11,8572	10,6030	1,2542
10/9/2017	1,1420	0,6790	0,0870	0,5410	2,1140	0,0140	0,6900	1,5550	3,2350	0,8530	0,6380	0,7330	11,8260	0,0000	0,0280	0,0032	11,8572	10,6030	1,2542
10/10/2017	1,1230	0,6650	0,1070	0,5440	2,2030	0,0140	0,6840	1,5850	3,1250	0,8500	0,6390	0,7220	11,9840	0,0000	0,0280	0,0032	12,0152	11,5800	0,4052
10/11/2017	1,1980	0,6520	0,1080	0,5360	2,1370	0,0140	0,6470	1,5200	3,1250	0,8500	0,6390	0,7220	11,9840	0,0000	0,0280	0,0032	12,0152	11,5800	0,4052
10/12/2017	1,1700	0,6230	0,2010	0,5390	2,1610	0,0140	0,6480	1,5170	3,2260	0,8430	0,6390	0,7040	11,7472	0,0000	0,0280	0,0032	11,7782	10,8140	0,9342
10/13/2017	1,1910	0,6310	0,1390	0,5320	2,1840	0,0140	0,6650	1,5340	3,2150	0,8430	0,6390	0,7070	11,8770	0,0000	0,0280	0,0032	11,9082	10,8240	0,0842
10/14/2017	1,1870	0,6780	0,1360	0,5900	2,1890	0,0150	0,6740	1,5450	3,2560	0,8370	0,6390	0,7070	12,2250	0,0000	0,0280	0,0032	12,2562	11,4530	0,8032
10/15/2017	1,2210	0,6550	0,1470	0,5900	2,2260	0,0130	0,7120	1,5980	3,3250	0,8270	0,6390	0,7070	11,8090	0,0000	0,0280	0,0032	11,8402	10,9930	0,8472
10/16/2017	1,1760	0,6780	0,1390	0,5330	2,1550	0,0120	0,6750	1,5140	3,1470	0,8510	0,6390	0,7070	11,6200	0,0000	0,0280	0,0032	11,6512	10,7430	0,9082
10/17/2017	1,1760	0,6780	0,1390	0,5330	2,1550	0,0120	0,6750	1,5140	3,1470	0,8510	0,6390	0,7070	11,6200	0,0000	0,0280	0,0032	11,6512	10,7430	0,9082
10/18/2017	1,2360	0,6280	0,0980	0,5400	2,1680	0,0130	0,6650	1,5380	3,2000	0,8250	0,6390	0,6900	11,7080	0,0000	0,0280	0,0032	11,7392	11,2622	0,4632
10/19/2017	1,2360	0,6280	0,0980	0,5400	2,1680	0,0130	0,6650	1,5380	3,2000	0,8250	0,6390	0,6900	11,7080	0,0000	0,0280	0,0032	11,7392	11,2622	0,4632
10/20/2017	1,2130	0,5790	0,1050	0,5560	2,1200	0,0130	0,6780	1,6740	3,3230	0,8500	0,6390	0,7260	12,1700	0,0000	0,0280	0,0032	12,2012	11,4430	0,7582
10/21/2017	1,2360	0,5790	0,1250	0,5570	2,1040	0,0120	0,7030	1,6740	3,3500	0,8380	0,6390	0,7360	12,1700	0,0000	0,0280	0,0032	12,2012	11,4430	0,7582
10/22/2017	1,2130	0,6290	0,1240	0,5910	2,2130	0,0110	0,7380	1,7250	3,3500	0,8380	0,6390	0,7360	12,1700	0,0000	0,0280	0,0032	12,2012	11,4430	0,7582
10/23/2017	1,2130	0,5900	0,1030	0,5900	2,1900	0,0120	0,7030	1,6620	3,2330	0,8520	0,6390	0,7060	11,8650	0,0000	0,0280	0,0032	11,8962	10,7690	1,1272
10/24/2017	1,2240	0,5970	0,0910	0,5390	2,1980	0,0130	0,6790	1,6330	3,1740	0,8860	0,6390	0,6920	11,7670	0,0000	0,0280	0,0032	11,7982	10,9830	0,8152
10/25/2017	1,1990	0,5860	0,1130	0,5380	2,1960	0,0130	0,6690	1,6100	3,1120	0,8880	0,6390	0,7060	11,6890	0,0000	0,0280	0,0032	11,7202	10,3330	1,3852
10/26/2017	1,1730	0,5820	0,1050	0,5320	2,1700	0,0110	0,6940	1,6170	3,0020	0,8560	0,6390	0,7090	11,5090	0,0000	0,0280	0,0032	11,5402	10,6390	0,9012
10/27/2017	1,1770	0,5820	0,1050	0,5320	2,1840	0,0110	0,6710	1,6270	3,0390	0,8810	0,6390	0,7150	11,5490	0,0000	0,0280	0,0032	11,5802	10,7930	0,7872
10/28/2017	1,1770	0,5820	0,1050	0,5320	2,1840	0,0110	0,6710	1,6270	3,0390	0,8810	0,6390	0,7150	11,5490	0,0000	0,0280	0,0032	11,5802	10,7930	0,7872
10/29/2017	1,1770	0,5820	0,1050	0,5320	2,1840	0,0110	0,6710	1,6270	3,0390	0,8810	0,6390	0,7150	11,5490	0,0000	0,0280	0,0032	11,5802	10,7930	0,7872
10/30/2017	1,2170	0,6140	0,0770	0,5690	2,1660	0,0100	0,6950	1,6820	3,2330	0,8640	0,6610	0,7340	11,8920	0,0000	0,0280	0,0032	11,9232	11,1870	0,6952
10/31/2017	1,1580	0,5490	0,0760	0,5510	2,1140	0,0100	0,6650	1,5540	3,0450	0,8100	0,6610	0,6920	11,8010	0,0000	0,0280	0,0032	11,8322	10,1320	1,2002
Totals	37,3640	20,0640	3,8700	17,0760	67,1400	0,4010	21,0690	48,5080	98,0270	26,7380	1,8390	22,0970	305,1110	0,0000	0,8881	0,1000	346,7982	334,9330	9,2391%

VSD 1 data was revised to exclude NAVI flow.
CSA64 Inflow: Narrows added 0.1MGD by agreement.

Notes:

Flow Measured by ADS
November 2017

Date	Flows Measured by ADS											Flows not measured by ADS		ADS-Unmetered Flow	Mag Meter Flow Data	Variance		
	Apple Valley, Nol MPI Q/FINAL	Apple Valley, Nol MPI Q/FINAL	CSA 42 MPI Q/FINAL	CSA 64 MPI Q/FINAL	Hesperia MPI Q/FINAL	NAVI MPI Q/FINAL	VSD Nol MPI Less NAVI Q/FINAL	VSD Nol MPI Q/FINAL	VSD Nol MPI Q/FINAL	VSD Nol MPI Q/FINAL	VSD Nol MPI Q/FINAL	ADS Totals	COVY IWWTP Wastewater (total)				COVY IWWTP Sludge (ppt)	CSA64 Park
	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons
11/1/2017	1,2580	0,5760	0,1000	0,5620	2,1750	0,0100	0,6970	1,6350	0,8180	0,0580	0,7110	11,7210	0,0000	0,0000	0,0000	11,7210	0,0000	11,7210
11/2/2017	1,1980	0,5900	0,1110	0,5760	2,1120	0,0100	0,6820	1,6480	0,8200	0,0560	0,7260	11,7940	0,0000	0,0000	0,0000	11,7940	0,0000	11,7940
11/3/2017	1,2140	0,5950	0,0920	0,5600	2,1180	0,0110	0,6680	1,6500	0,8320	0,0560	0,7290	11,7940	0,0000	0,0000	0,0000	11,7940	0,0000	11,7940
11/4/2017	1,2800	0,6080	0,0920	0,5600	2,2090	0,0100	0,6910	1,6920	0,8320	0,0560	0,7290	11,9940	0,0000	0,0000	0,0000	11,9940	0,0000	11,9940
11/5/2017	1,3140	0,5900	0,0700	0,5910	2,2140	0,0100	0,7170	1,6780	0,8560	0,0550	0,7440	12,0800	0,0000	0,0000	0,0000	12,0800	0,0000	12,0800
11/6/2017	1,3960	0,6270	0,1230	0,5470	2,1670	0,0110	0,6990	1,6210	0,8220	0,0570	0,7220	11,7500	0,0000	0,0000	0,0000	11,7500	0,0000	11,7500
11/7/2017	1,2600	0,6070	0,0840	0,5470	2,1950	0,0130	0,6880	1,6180	0,8150	0,0570	0,7200	11,5700	0,0000	0,0000	0,0000	11,5700	0,0000	11,5700
11/8/2017	1,2840	0,5820	0,0800	0,5800	2,1860	0,0110	0,6880	1,6510	0,8410	0,0590	0,7200	11,5600	0,0000	0,0000	0,0000	11,5600	0,0000	11,5600
11/9/2017	1,2860	0,5460	0,0800	0,5160	2,1130	0,0120	0,6980	1,6470	0,8000	0,0580	0,7010	11,4700	0,0000	0,0000	0,0000	11,4700	0,0000	11,4700
11/10/2017	1,2900	0,5880	0,0850	0,5310	2,1130	0,0120	0,6980	1,6470	0,8000	0,0580	0,7010	11,4700	0,0000	0,0000	0,0000	11,4700	0,0000	11,4700
11/11/2017	1,1840	0,6060	0,0980	0,5390	2,1610	0,0110	0,7020	1,6660	0,8340	0,0550	0,7430	11,9500	0,0000	0,0000	0,0000	11,9500	0,0000	11,9500
11/12/2017	1,2490	0,5860	0,1400	0,5500	2,1780	0,0100	0,7250	1,6710	0,8760	0,0560	0,7600	11,7600	0,0000	0,0000	0,0000	11,7600	0,0000	11,7600
11/13/2017	1,2410	0,5890	0,1400	0,5430	2,1680	0,0110	0,6840	1,5900	0,9070	0,0560	0,7070	11,7600	0,0000	0,0000	0,0000	11,7600	0,0000	11,7600
11/14/2017	1,2100	0,5390	0,1190	0,5440	2,2440	0,0120	0,6840	1,5900	0,8710	0,0580	0,7080	11,7200	0,0000	0,0000	0,0000	11,7200	0,0000	11,7200
11/15/2017	1,1960	0,5720	0,1020	0,5390	2,1570	0,0120	0,6730	1,6230	0,8190	0,0590	0,7160	11,7000	0,0000	0,0000	0,0000	11,7000	0,0000	11,7000
11/16/2017	1,1750	0,5710	0,1020	0,5230	2,1640	0,0100	0,6940	1,6250	0,8210	0,0570	0,7240	12,2920	0,0000	0,0000	0,0000	12,2920	0,0000	12,2920
11/17/2017	1,1590	0,6100	0,1020	0,5230	2,1440	0,0110	0,7170	1,6490	0,8250	0,0560	0,7140	12,2920	0,0000	0,0000	0,0000	12,2920	0,0000	12,2920
11/18/2017	1,1590	0,6100	0,1020	0,5230	2,1440	0,0110	0,7170	1,6490	0,8250	0,0560	0,7140	12,2920	0,0000	0,0000	0,0000	12,2920	0,0000	12,2920
11/19/2017	1,1590	0,5980	0,1340	0,5690	2,1440	0,0110	0,7030	1,6360	0,8310	0,0550	0,7080	12,0490	0,0000	0,0000	0,0000	12,0490	0,0000	12,0490
11/20/2017	1,1690	0,5950	0,0500	0,5650	2,1230	0,0110	0,7110	1,6370	0,8310	0,0550	0,7090	12,0490	0,0000	0,0000	0,0000	12,0490	0,0000	12,0490
11/21/2017	1,2340	0,6210	0,0500	0,5880	2,2180	0,0100	0,7300	1,6880	0,8900	0,0560	0,7250	12,0490	0,0000	0,0000	0,0000	12,0490	0,0000	12,0490
11/22/2017	1,1990	0,6680	0,0520	0,6940	2,1960	0,0110	0,6940	1,6520	0,9010	0,0560	0,7250	11,9610	0,0000	0,0000	0,0000	11,9610	0,0000	11,9610
11/23/2017	1,1200	0,6340	0,0490	0,5340	2,0380	0,0100	0,6590	1,5700	0,7960	0,0560	0,6960	11,4430	0,0000	0,0000	0,0000	11,4430	0,0000	11,4430
11/24/2017	1,1600	0,6420	0,0510	0,5330	2,1320	0,0100	0,6790	1,6460	0,8780	0,0560	0,7310	11,4430	0,0000	0,0000	0,0000	11,4430	0,0000	11,4430
11/25/2017	1,1810	0,6480	0,0510	0,5470	2,1740	0,0100	0,7030	1,6810	0,8880	0,0560	0,7540	11,9670	0,0000	0,0000	0,0000	11,9670	0,0000	11,9670
11/26/2017	1,1810	0,6310	0,0580	0,5470	2,1620	0,0130	0,6840	1,6240	0,8780	0,0560	0,7240	11,7940	0,0000	0,0000	0,0000	11,7940	0,0000	11,7940
11/28/2017	1,2010	0,6260	0,0550	0,5530	2,1640	0,0130	0,6720	1,6440	0,8460	0,0550	0,7160	11,5960	0,0000	0,0000	0,0000	11,5960	0,0000	11,5960
11/29/2017	1,1810	0,6200	0,0550	0,5530	2,1450	0,0120	0,6720	1,6210	0,8460	0,0550	0,7160	11,5960	0,0000	0,0000	0,0000	11,5960	0,0000	11,5960
11/30/2017	1,1550	0,6440	0,0560	0,5540	2,1540	0,0130	0,6660	1,6350	0,8490	0,0550	0,7240	11,6980	0,0000	0,0000	0,0000	11,6980	0,0000	11,6980
Totals	36,8090	17,9730	2,6350	16,5780	64,8840	0,3290	20,7200	49,1080	25,4130	1,6910	21,5990	346,1170	0,0000	0,7997	0,1100	347,0170	327,3530	6,6070%

Note: VSD 1 data was revised to exclude NAVI flow. CSA64 Negative flows added 0.1MG by agreement.

VYVRA
Flow Measured by ADS
December 2017

Date	Flows Measured by ADS											Flows not measured by ADS			Mag Meter Flow Data	Variance			
	Apple Valley No1 MPI Q/FINAL	Apple Valley No2 MPI Q/FINAL	CSA 42 MPI Q/FINAL	CSA 64 MPI Q/FINAL	Hesperia MPI Q/FINAL	NAVI MPI Q/FINAL	VSD No1 MPI Less NAVI Million Gallons	VSD No2 MPI Q/FINAL	VSD No3 MPI Q/FINAL	VSD No4 MPI Q/FINAL	VSD No5 MPI Q/FINAL	VSD No6 MPI Q/FINAL	ADS Totals Million Gallons	COVY IWWTP Waterometer (MG)			COVY IWWTP Sludge (gpd)	CSA64 Park (Million Gallons)	ADS-Umistered Flow Million Gallons
12/1/2017	1,340	0,620	0,580	0,530	2,630	0,080	0,670	1,610	3,080	0,830	0,050	0,710	11,540	0,000	0,0324	0,0032	11,5786	10,690	0,2296
12/2/2017	1,220	0,670	0,460	0,530	2,190	0,090	0,680	1,660	3,130	0,870	0,050	0,710	11,680	0,000	0,0324	0,0032	11,7166	10,630	1,1136
12/3/2017	1,230	0,670	0,470	0,530	2,240	0,100	0,680	1,660	3,130	0,870	0,050	0,710	11,680	0,000	0,0324	0,0032	12,1606	11,560	0,6546
12/4/2017	1,190	0,630	0,510	0,540	2,160	0,100	0,630	1,660	3,180	0,910	0,040	0,740	11,740	0,000	0,0324	0,0032	11,8956	10,950	0,9076
12/5/2017	1,200	0,620	0,540	0,540	2,140	0,020	0,620	1,590	3,190	0,900	0,050	0,740	11,690	0,000	0,0324	0,0032	11,9256	10,780	0,9186
12/6/2017	1,210	0,620	0,550	0,510	2,160	0,010	0,620	1,640	3,140	0,870	0,040	0,730	11,690	0,000	0,0324	0,0032	11,7036	10,750	0,9186
12/7/2017	1,170	0,620	0,540	0,540	2,140	0,010	0,620	1,640	3,120	0,860	0,040	0,730	11,690	0,000	0,0324	0,0032	11,7276	10,970	0,7706
12/8/2017	1,170	0,620	0,540	0,540	2,140	0,010	0,620	1,640	3,120	0,860	0,040	0,730	11,690	0,000	0,0324	0,0032	11,7296	10,710	1,0826
12/9/2017	1,170	0,620	0,540	0,540	2,140	0,010	0,620	1,640	3,120	0,860	0,040	0,730	11,690	0,000	0,0324	0,0032	11,7286	10,820	0,8966
12/10/2017	1,220	0,610	0,480	0,560	2,180	0,080	0,680	1,670	3,120	0,820	0,040	0,740	11,830	0,000	0,0324	0,0032	11,9946	11,370	0,6676
12/11/2017	1,190	0,610	0,480	0,560	2,180	0,090	0,670	1,680	3,020	0,880	0,040	0,740	11,740	0,000	0,0324	0,0032	11,8686	11,030	0,8056
12/12/2017	1,190	0,610	0,480	0,560	2,180	0,090	0,670	1,680	3,020	0,880	0,040	0,740	11,740	0,000	0,0324	0,0032	11,8686	11,030	0,8056
12/13/2017	1,190	0,610	0,480	0,560	2,180	0,090	0,670	1,680	3,020	0,880	0,040	0,740	11,740	0,000	0,0324	0,0032	11,8686	11,030	0,8056
12/14/2017	1,150	0,620	0,530	0,540	2,200	0,080	0,700	1,610	3,020	0,870	0,040	0,730	11,630	0,000	0,0324	0,0032	11,5666	11,340	0,2266
12/15/2017	1,130	0,640	0,500	0,540	2,170	0,090	0,680	1,620	2,850	0,890	0,040	0,730	11,630	0,000	0,0324	0,0032	11,6986	10,130	1,6856
12/16/2017	1,130	0,640	0,500	0,540	2,170	0,090	0,680	1,620	2,850	0,890	0,040	0,730	11,630	0,000	0,0324	0,0032	12,1956	11,660	0,8896
12/17/2017	1,150	0,640	0,500	0,540	2,170	0,090	0,680	1,620	2,850	0,890	0,040	0,730	11,630	0,000	0,0324	0,0032	12,0246	11,260	0,6546
12/18/2017	1,150	0,640	0,500	0,540	2,170	0,090	0,680	1,620	2,850	0,890	0,040	0,730	11,630	0,000	0,0324	0,0032	12,0246	11,260	0,6546
12/19/2017	1,150	0,640	0,500	0,540	2,170	0,090	0,680	1,620	2,850	0,890	0,040	0,730	11,630	0,000	0,0324	0,0032	12,0246	11,260	0,6546
12/20/2017	1,160	0,620	0,500	0,510	2,150	0,100	0,690	1,650	3,130	0,860	0,040	0,730	11,840	0,000	0,0324	0,0032	11,7236	10,780	0,9436
12/21/2017	1,160	0,620	0,500	0,510	2,150	0,100	0,690	1,650	3,130	0,860	0,040	0,730	11,840	0,000	0,0324	0,0032	11,7236	10,780	0,9436
12/22/2017	1,160	0,620	0,500	0,510	2,150	0,100	0,690	1,650	3,130	0,860	0,040	0,730	11,840	0,000	0,0324	0,0032	11,7236	10,780	0,9436
12/23/2017	1,170	0,740	0,460	0,460	2,190	0,090	0,700	1,680	3,250	0,870	0,030	0,750	12,120	0,000	0,0324	0,0032	12,1656	11,270	0,9356
12/24/2017	1,190	0,680	0,440	0,480	2,270	0,090	0,690	1,650	3,370	0,840	0,030	0,750	12,210	0,000	0,0324	0,0032	12,3556	11,270	1,0786
12/25/2017	1,090	0,580	0,450	0,480	2,300	0,100	0,590	1,700	3,070	0,840	0,030	0,790	11,100	0,000	0,0324	0,0032	12,0366	10,210	0,9256
12/26/2017	1,170	0,640	0,450	0,510	2,190	0,100	0,680	1,470	3,060	0,750	0,030	0,790	12,010	0,000	0,0324	0,0032	12,0366	11,420	0,2946
12/27/2017	1,170	0,640	0,450	0,510	2,190	0,100	0,680	1,470	3,060	0,750	0,030	0,790	12,010	0,000	0,0324	0,0032	12,0366	11,420	0,2946
12/28/2017	1,180	0,620	0,470	0,570	2,250	0,100	0,640	1,660	3,100	0,900	0,040	0,750	11,750	0,000	0,0324	0,0032	11,7986	10,840	0,9566
12/29/2017	1,180	0,620	0,470	0,570	2,250	0,100	0,640	1,660	3,100	0,900	0,040	0,750	11,750	0,000	0,0324	0,0032	11,7986	10,840	0,9566
12/30/2017	1,170	0,650	0,470	0,570	2,190	0,100	0,700	1,700	3,140	0,920	0,050	0,730	11,890	0,000	0,0324	0,0032	11,9246	10,980	0,9356
12/31/2017	1,210	0,650	0,480	0,570	2,170	0,100	0,710	1,710	3,200	0,920	0,050	0,730	12,040	0,000	0,0324	0,0032	12,0726	11,210	1,3176
Totals	37,370	20,130	1,520	1,430	68,060	0,320	21,070	59,230	97,220	27,650	1,400	22,670	365,920	0,000	1,061	0,100	367,026	339,780	27,246
																			8,0182%

VSD 1 data was revised to exclude NAVI flow.
CSA64 Negative Narrows added 0.1MG by agreement.

Notes:

VYVRA
Flow Measured by ADS
January 2018

Date	Flows Measured by ADS										Flows not measured by ADS			ADS Unmetered Flow	Mag Meter Flow Data	Variance	
	Apple Valley No1 MPI Q/FINAL	Apple Valley No2 MPI Q/FINAL	CSA 64 MPI Q/FINAL	Hesperia MPI Q/FINAL	NAVI MPI Q/FINAL	VSD No1 MPI Less NAVI Q/FINAL	VSD No2 MPI Q/FINAL	VSD No3 MPI Q/FINAL	VSD No4 MPI Q/FINAL	VSD No6 MPI Q/FINAL	ADS Totals	COVW IWWTTP Wastewater (MGD)	COVW IWWTTP Sludge (tpd)				CSA64 Park
	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons
1/2/2018	1,126.0	0,657.0	0,671.0	2,038.0	0,010.0	0,654.0	1,389.0	3,030.0	0,948.0	0,554.0	0,683.0	0,000.0	0,000.0	0,003.2	11,410.3	10,154.0	1,256.3
1/2/2018	1,170.0	0,641.0	0,572.0	2,113.0	0,011.0	0,682.0	1,634.0	3,040.0	0,917.0	0,000.0	0,713.0	0,000.0	0,000.0	0,003.2	11,597.3	10,931.0	0,756.3
1/4/2018	1,176.0	0,632.0	0,532.0	2,110.0	0,010.0	0,682.0	1,634.0	3,040.0	0,917.0	0,000.0	0,713.0	0,000.0	0,000.0	0,003.2	11,597.3	10,931.0	0,756.3
1/4/2018	1,235.0	0,638.0	0,549.0	2,119.0	0,011.0	0,715.0	1,720.0	2,990.0	0,924.0	0,000.0	0,740.0	0,000.0	0,000.0	0,003.2	11,679.3	10,648.0	1,031.3
1/6/2018	1,187.0	0,694.0	0,590.0	2,176.0	0,010.0	0,681.0	1,637.0	3,082.0	0,950.0	0,000.0	0,790.0	0,000.0	0,000.0	0,003.2	11,806.3	10,920.0	1,253.3
1/7/2018	1,217.0	0,730.0	0,596.0	2,208.0	0,008.0	0,639.0	1,639.0	3,173.0	0,946.0	0,000.0	0,790.0	0,000.0	0,000.0	0,003.2	11,856.3	10,920.0	1,253.3
1/8/2018	1,825.0	0,640.0	0,520.0	2,129.0	0,009.0	0,710.0	1,639.0	3,087.0	0,932.0	0,000.0	0,730.0	0,000.0	0,000.0	0,003.2	12,059.3	11,250.0	0,849.3
1/9/2018	1,842.0	0,650.0	0,570.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/10/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/11/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/12/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/13/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/14/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/15/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/16/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/17/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/18/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/19/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/20/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/21/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/22/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/23/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/24/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/25/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/26/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/27/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/28/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/29/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
1/30/2018	1,842.0	0,650.0	0,560.0	2,337.0	0,012.0	0,780.0	1,639.0	3,145.0	0,897.0	0,000.0	0,720.0	0,000.0	0,000.0	0,003.2	11,336.3	10,986.0	1,142.5
Totals	36,799.2	19,309.0	17,300.0	66,562.0	8,316.0	21,306.0	48,981.0	94,590.0	27,243.0	1,711.0	22,721.0	0,000.0	0,000.0	0,000.0	361,961.7	332,266.0	29,644.7
																	8.7241%

Notes:
VSD 1 data was revised to exclude NAVI flow.
CSA64 Negative Narrows added C.M.G. by agreement.

VVWRA
Flow Measured by ADS
February, 2018

Date	Flows Measured by ADS										Flows not measured by ADS				ADS-UMetered Flow Million Gallons	Mg. Meter Flow Data Million Gallons	Variance Million Gallons
	AppleValley No1 MPI Q/FINAL	AppleValley No2 MPI Q/FINAL	CSA 64 MPI Q/FINAL	Hesperia MPI Q/FINAL	NAVI MPI Q/FINAL	VSD No1 MPI Less NAVI Million Gallons	VSD No2 MPI Q/FINAL	VSD No3 MPI Q/FINAL	VSD No4 MPI Q/FINAL	VSD No5 MPI Q/FINAL	VSD No6 MPI Q/FINAL	ADS Toms Million Gallons	COVV IWWTW Wastewater (gpd) Million Gallons	COVV IWWTW Study (gpd) Million Gallons			
2/1/2018	1,1350	6,1150	0,5290	2,1540	0,0110	0,6640	1,7030	3,0210	0,8310	0,0530	0,5590	11,3540	0,0000	0,0268	11,3844	10,3320	1,0324
2/2/2018	1,1830	6,4320	0,5410	2,1860	0,0100	0,6840	1,6670	3,0280	0,8290	0,0540	0,5775	11,5355	0,0000	0,0268	11,5659	10,3820	1,1779
2/3/2018	1,1870	6,6470	0,5440	2,1860	0,0130	0,6930	1,6970	3,0970	0,8390	0,0520	0,5775	11,6925	0,0000	0,0268	11,7229	10,3860	1,1369
2/4/2018	1,1860	6,6370	0,5420	2,1860	0,0090	0,6870	1,6820	3,0960	0,8390	0,0550	0,5775	11,9402	0,0000	0,0268	11,9709	11,2460	0,7249
2/5/2018	1,2330	6,6300	0,5460	2,1380	0,0100	0,6810	1,6500	3,0860	0,8430	0,0550	0,5775	11,8945	0,0000	0,0268	11,6829	10,6940	0,9889
2/6/2018	1,1970	6,6320	0,5470	2,1190	0,0080	0,6740	1,6500	3,0430	0,8200	0,0550	0,5775	11,8485	0,0000	0,0268	11,5789	10,3180	3,2249
2/7/2018	1,3920	6,6270	0,5500	2,1290	0,0110	0,6760	1,6830	3,0220	0,8310	0,0550	0,5775	11,6755	0,0000	0,0268	11,7059	10,3180	0,8879
2/8/2018	1,3180	6,6220	0,5510	2,1450	0,0100	0,6660	1,6580	2,9690	0,8360	0,0550	0,5775	11,6425	0,0000	0,0268	11,6425	10,0330	0,6099
2/9/2018	1,2460	6,6220	0,5500	2,1170	0,0100	0,6690	1,6770	3,0540	0,8320	0,0540	0,5775	11,6445	0,0000	0,0268	11,6759	10,4340	1,2419
2/10/2018	1,2100	6,6200	0,5500	2,1170	0,0100	0,6740	1,6820	3,0490	0,8360	0,0550	0,5775	11,9705	0,0000	0,0268	12,0009	10,0550	0,9459
2/11/2018	1,2100	6,6200	0,5500	2,1170	0,0100	0,6740	1,6820	3,0490	0,8360	0,0550	0,5775	11,9705	0,0000	0,0268	12,0009	10,0550	0,9459
2/12/2018	1,2010	6,6450	0,5510	2,1670	0,0110	0,6810	1,6750	3,1380	0,8370	0,0550	0,5775	11,8285	0,0000	0,0268	11,7594	10,6320	1,1774
2/13/2018	1,1980	6,6130	0,5500	2,1320	0,0110	0,6770	1,6810	3,0570	0,8320	0,0550	0,5775	11,8285	0,0000	0,0268	11,7594	10,6320	1,1774
2/14/2018	1,2070	6,6140	0,5500	2,1320	0,0120	0,6620	1,6810	3,0570	0,8320	0,0550	0,5775	11,8285	0,0000	0,0268	11,7594	10,6320	1,1774
2/15/2018	1,1980	6,6000	0,5500	2,1320	0,0130	0,6790	1,6930	3,0760	0,8420	0,0510	0,5775	11,6690	0,0000	0,0268	11,6994	10,2360	2,7844
2/16/2018	1,1980	6,6000	0,5500	2,1320	0,0130	0,6790	1,6930	3,0760	0,8420	0,0510	0,5775	11,6690	0,0000	0,0268	11,6994	10,2360	2,7844
2/17/2018	1,1980	6,6000	0,5500	2,1320	0,0130	0,6790	1,6930	3,0760	0,8420	0,0510	0,5775	11,6690	0,0000	0,0268	11,6994	10,2360	2,7844
2/18/2018	1,1980	6,6000	0,5500	2,1320	0,0130	0,6790	1,6930	3,0760	0,8420	0,0510	0,5775	11,6690	0,0000	0,0268	11,6994	10,2360	2,7844
2/19/2018	1,2250	6,6100	0,5480	2,1360	0,0140	0,6940	1,6930	3,0650	0,8280	0,0540	0,5775	11,6444	0,0000	0,0268	11,7034	10,4270	0,8016
2/20/2018	1,2160	6,6100	0,5470	2,1360	0,0140	0,6940	1,6930	3,0650	0,8280	0,0540	0,5775	11,6444	0,0000	0,0268	11,7034	10,4270	0,8016
2/21/2018	1,2190	6,6100	0,5470	2,1360	0,0140	0,6940	1,6930	3,0650	0,8280	0,0540	0,5775	11,6444	0,0000	0,0268	11,7034	10,4270	0,8016
2/22/2018	1,2310	6,6120	0,5420	2,0990	0,0150	0,6990	1,7100	3,0660	0,8460	0,0540	0,5775	11,8080	0,0000	0,0268	12,1434	10,5140	0,6294
2/23/2018	1,1900	6,6120	0,5360	2,1480	0,0140	0,7090	1,7080	3,0820	0,8620	0,0540	0,5775	11,8080	0,0000	0,0268	12,1434	10,5140	0,6294
2/24/2018	1,1900	6,6120	0,5360	2,1480	0,0140	0,7090	1,7080	3,0820	0,8620	0,0540	0,5775	11,8080	0,0000	0,0268	12,1434	10,5140	0,6294
2/25/2018	1,1970	6,6000	0,5390	2,1870	0,0130	0,7260	1,7000	3,1790	0,8760	0,0540	0,5775	12,0880	0,0000	0,0268	12,1184	10,7310	1,3874
2/26/2018	1,1970	6,6000	0,5390	2,1870	0,0130	0,7260	1,7000	3,1790	0,8760	0,0540	0,5775	12,0880	0,0000	0,0268	12,1184	10,7310	1,3874
2/27/2018	1,2310	6,6200	0,5500	2,1670	0,0140	0,7380	1,6920	3,0950	0,8570	0,0540	0,5775	11,6410	0,0000	0,0268	11,8734	10,9260	0,9474
2/28/2018	1,1930	6,6200	0,5460	2,1190	0,0140	0,7380	1,6920	3,0950	0,8570	0,0540	0,5775	11,6410	0,0000	0,0268	11,8734	10,9260	0,9474
2/29/2018	1,1930	6,6200	0,5460	2,1190	0,0140	0,7380	1,6920	3,0950	0,8570	0,0540	0,5775	11,6410	0,0000	0,0268	11,8734	10,9260	0,9474
Totals	33,9870	17,7530	15,2310	60,4530	0,3420	19,4300	47,3240	86,1810	29,5930	1,9000	20,6935	327,9325	0,0000	0,7501	328,7487	299,2800	29,4637
																	Variance % 9,8495%

VSD 1 data was revised to exclude NAVI flow.
CSA64 Major Narrows added 0.1MG by agreement.

VYVRA
Flow Measured by ADS
March 2018

Date	Flows Measured by ADS											Flows not measured by ADS			Mag Meter Flow Data	Variance	
	Apple Valley No1 MPI Q/FINAL	Apple Valley No2 MPI Q/FINAL	CSA 64 MPI Q/FINAL	Hesperia MPI Q/FINAL	NAVI MPI Q/FINAL	VSD No1 MPI Less NAVI	VSD No2 MPI Q/FINAL	VSD No3 MPI Q/FINAL	VSD No4 MPI Q/FINAL	VSD No5 MPI Q/FINAL	VSD No6 MPI Q/FINAL	ADS Tanks	IWTP Wastewater (MGD)	COVY IWVTP Sludge (grd)			ADS - Unmetered Flow
3/1/2018	1,1830	0,6370	0,5460	2,2410	0,0140	0,7530	1,6650	3,1180	0,8450	0,0510	0,8830	11,7910	0,0000	0,0326	11,8268	11,5280	-0,1012
3/2/2018	1,2100	0,6280	0,5460	2,1970	0,0140	0,7970	1,6550	3,0950	0,8420	0,0510	0,8940	11,7180	0,0000	0,0326	11,7538	9,6670	2,0868
3/4/2018	1,2150	0,6280	0,5460	2,2650	0,0140	0,8410	1,7090	3,2140	0,8890	0,0480	0,9100	11,8110	0,0000	0,0326	11,8468	10,8270	1,0198
3/5/2018	1,2310	0,6570	0,5560	2,2220	0,0140	0,8200	1,6710	3,1560	0,8430	0,0460	0,9480	11,8390	0,0000	0,0326	12,3098	11,7570	0,5528
3/6/2018	1,2140	0,6130	0,5310	2,2160	0,0140	0,8130	1,6460	3,0420	0,8650	0,0470	0,9480	11,6990	0,0000	0,0326	11,7058	9,5640	2,2098
3/7/2018	1,2880	0,6090	0,5320	2,2950	0,0140	0,8260	1,6230	3,0120	0,8160	0,0470	0,9290	11,5980	0,0000	0,0326	11,6338	10,2000	0,9188
3/8/2018	1,1900	0,6240	0,5490	2,2100	0,0140	0,8120	1,6340	2,9770	0,8180	0,0500	0,9230	11,5660	0,0000	0,0326	11,6018	10,2380	1,2738
3/9/2018	1,2560	0,6220	0,5120	2,1710	0,0130	0,7730	1,6610	2,9690	0,8230	0,0490	0,9260	11,5240	0,0000	0,0326	11,5598	11,5370	0,0228
3/10/2018	1,2540	0,6240	0,5120	2,1630	0,0120	0,8030	1,6250	3,0020	0,8300	0,0460	0,9410	11,5410	0,0000	0,0326	11,5768	10,5420	0,6348
3/11/2018	1,2540	0,6210	0,5790	2,1940	0,0140	0,8210	1,6590	2,9840	0,8370	0,0450	0,9360	11,8220	0,0000	0,0326	12,0608	11,2490	0,8118
3/12/2018	1,2300	0,6620	0,5550	2,2310	0,0140	0,8220	1,6880	2,9040	0,8340	0,0490	0,9270	11,6390	0,0000	0,0326	11,6108	10,6260	0,9848
3/13/2018	1,2200	0,6300	0,5610	2,1720	0,0150	0,8420	1,7030	2,9890	0,8370	0,0550	0,9450	11,8340	0,0000	0,0326	11,8698	10,2700	1,2998
3/14/2018	1,2310	0,6480	0,5420	2,2660	0,0170	0,8620	1,7140	3,0170	0,8600	0,0570	0,9720	11,6330	0,0000	0,0326	11,6688	10,5680	1,3008
3/15/2018	1,1890	0,6570	0,5450	2,2860	0,0170	0,8610	1,6860	3,0630	0,8290	0,0570	0,9780	11,6700	0,0000	0,0326	11,7058	11,0780	0,6278
3/16/2018	1,1880	0,6570	0,5450	2,2860	0,0180	0,8610	1,6960	3,2080	0,8480	0,0400	0,7430	11,8130	0,0000	0,0326	12,0668	11,1590	0,9078
3/17/2018	1,2100	0,6280	0,5710	2,2220	0,0180	0,7180	1,6910	3,1820	0,8250	0,0440	0,7200	11,8110	0,0000	0,0326	11,8488	10,1430	1,7058
3/18/2018	1,2100	0,6280	0,5260	2,1980	0,0180	0,8240	1,6590	3,0660	0,8290	0,0410	0,7240	11,5310	0,0000	0,0326	11,5668	10,9970	0,5698
3/20/2018	1,2100	0,6210	0,5260	2,1980	0,0180	0,8240	1,6590	3,0660	0,8290	0,0410	0,7240	11,5310	0,0000	0,0326	11,5668	10,9970	0,5698
3/21/2018	1,1900	0,5980	0,5370	2,1790	0,0130	0,6740	1,6240	3,0660	0,8290	0,0420	0,7240	11,7880	0,0000	0,0326	11,8238	10,5440	1,1778
3/22/2018	1,2220	0,6680	0,5460	2,2540	0,0150	0,6810	1,6400	3,0890	0,8290	0,0420	0,7370	11,6970	0,0000	0,0326	11,7328	10,5200	1,1408
3/23/2018	1,1640	0,6520	0,5210	2,1970	0,0150	0,6790	1,6360	3,1090	0,8120	0,0440	0,7410	11,6540	0,0000	0,0326	11,6998	10,7850	0,9148
3/24/2018	1,1880	0,6490	0,5370	2,2700	0,0160	0,6980	1,6420	3,0480	0,8380	0,0420	0,7380	11,6540	0,0000	0,0326	11,6998	10,7850	0,9148
3/25/2018	1,1880	0,6280	0,5560	2,2100	0,0150	0,6820	1,6320	3,0320	0,8250	0,0440	0,7420	11,5990	0,0000	0,0326	11,6348	10,8498	0,8498
3/26/2018	1,2060	0,6570	0,5340	2,1720	0,0160	0,7060	1,6400	3,0660	0,8050	0,0460	0,7480	11,9190	0,0000	0,0326	11,2268	10,5120	0,7148
3/27/2018	1,1640	0,6320	0,5150	2,1880	0,0130	0,6760	1,6010	3,0160	0,8160	0,0460	0,7550	11,4902	0,0000	0,0326	11,5268	10,2840	1,2420
3/28/2018	1,1830	0,6402	0,5070	2,1880	0,0130	0,7060	1,6010	3,0160	0,7870	0,0460	0,7550	11,4902	0,0000	0,0326	11,5268	10,2840	1,2420
3/29/2018	1,1830	0,6402	0,5070	2,1880	0,0130	0,7060	1,6010	3,0160	0,7870	0,0460	0,7550	11,4902	0,0000	0,0326	11,5268	10,2840	1,2420
3/30/2018	1,1640	0,6402	0,5070	2,1500	0,0140	0,7160	1,6240	2,9750	0,8060	0,0500	0,7760	11,4422	0,0000	0,0326	11,6580	11,3630	0,3350
3/31/2018	1,2950	0,6392	0,5310	2,2400	0,0140	0,7050	1,5920	3,0400	0,8060	0,0500	0,7760	11,6522	0,0000	0,0326	11,6580	11,3630	0,3350
Totals	37,5110	19,5358	16,7930	68,4940	0,4340	23,0180	51,2770	94,5690	25,7160	14,1880	21,5940	262,1198	0,0000	1,0112	263,2296	330,8310	9,7937%

Notes:
VSD 1 data was revised to exclude NAVI flow.
CSA64 Moveave Narrow added to IMGP by agreement.

YVWRA
Flow Measured by ADS
April 2018

Date	Flows Measured by ADS										Flows not measured by ADS		ADS-Untreated Flow Million Gallons	Avg. Meter Flow Date	Variance Million Gallons				
	Apple Valley Not MPI Q/FINAL	Apple Valley Not MPI Q/FINAL	Apple Valley Not MPI Q/FINAL	CSA 42 MPI Q/FINAL	CSA 64 MPI Q/FINAL	Hesperia MPI Q/FINAL	NAVI MPI Q/FINAL	VSD No.1 MPI Less NAVI Million Gallons	VSD No.2 MPI Q/FINAL	VSD No.3 MPI Q/FINAL	VSD No.4 MPI Q/FINAL	VSD No.5 MPI Q/FINAL				VSD No.6 MPI Q/FINAL	ADS Totals Million Gallons	COVV IWWTP Wastewater Million Gallons	COVV IWWTP Shedde (gph) Million Gallons
4/1/2018	1,2380	0,6890	0,0170	0,5890	2,9990	0,8100	0,0630	0,8250	0,0000	0,0320	0,0033	10,0420	11,4213	0,0000	0,0320	0,0033	11,4633	10,4760	0,9793
4/2/2018	1,2200	0,6910	0,0130	0,5880	2,9920	0,8170	0,0650	0,8200	0,0000	0,0320	0,0033	10,8770	11,8563	0,0000	0,0320	0,0033	11,8893	10,4760	1,4133
4/3/2018	1,2290	0,6890	0,0130	0,5880	2,9920	0,8170	0,0650	0,8200	0,0000	0,0320	0,0033	10,6940	11,5143	0,0000	0,0320	0,0033	11,5463	10,6940	0,8823
4/4/2018	1,2500	0,6850	0,0120	0,5820	2,9360	0,8060	0,0660	0,8300	0,0000	0,0320	0,0033	10,3760	11,1382	0,0000	0,0320	0,0033	11,1682	10,3760	0,7622
4/5/2018	1,2600	0,6850	0,0110	0,5880	2,9380	0,8270	0,0730	0,8500	0,0000	0,0320	0,0033	10,3760	11,1382	0,0000	0,0320	0,0033	11,1682	10,3760	0,7622
4/6/2018	1,2680	0,6880	0,0110	0,5880	2,9380	0,8190	0,0700	0,8410	0,0000	0,0320	0,0033	10,8810	11,3823	0,0000	0,0320	0,0033	11,4123	10,8810	0,5013
4/7/2018	1,2800	0,6900	0,0130	0,5920	2,9980	0,8320	0,0700	0,8560	0,0000	0,0320	0,0033	11,0630	11,5843	0,0000	0,0320	0,0033	11,6163	11,0630	0,5213
4/8/2018	1,2900	0,6900	0,0120	0,5900	3,0060	0,8460	0,0670	0,8750	0,0000	0,0320	0,0033	11,2720	11,8263	0,0000	0,0320	0,0033	11,8583	11,2720	0,5563
4/9/2018	1,2900	0,6890	0,0120	0,5890	3,0060	0,8390	0,0700	0,8480	0,0000	0,0320	0,0033	10,4520	11,0213	0,0000	0,0320	0,0033	11,0533	10,4520	0,5993
4/10/2018	1,2600	0,6870	0,0120	0,5880	2,9620	0,8270	0,0620	0,8200	0,0000	0,0320	0,0033	10,5800	11,0583	0,0000	0,0320	0,0033	11,0903	10,5800	0,4783
4/11/2018	1,2600	0,6870	0,0140	0,5890	2,9620	0,8270	0,0620	0,8200	0,0000	0,0320	0,0033	10,5800	11,0583	0,0000	0,0320	0,0033	11,0903	10,5800	0,4783
4/12/2018	1,2590	0,6870	0,0120	0,5880	2,9620	0,8270	0,0620	0,8200	0,0000	0,0320	0,0033	10,5800	11,0583	0,0000	0,0320	0,0033	11,0903	10,5800	0,4783
4/13/2018	1,2590	0,6870	0,0120	0,5880	2,9620	0,8270	0,0620	0,8200	0,0000	0,0320	0,0033	10,5800	11,0583	0,0000	0,0320	0,0033	11,0903	10,5800	0,4783
4/14/2018	1,2220	0,6910	0,0110	0,6260	3,0460	0,8110	0,0550	0,8070	0,0000	0,0320	0,0033	10,8240	11,2533	0,0000	0,0320	0,0033	11,2853	10,8240	0,4293
4/15/2018	1,2430	0,7000	0,0110	0,6060	3,0080	0,8450	0,0500	0,8350	0,0000	0,0320	0,0033	10,3450	1,2183	0,0000	0,0320	0,0033	11,5633	10,3450	1,2183
4/16/2018	1,2590	0,6820	0,0100	0,5740	2,9660	0,8300	0,0560	0,8200	0,0000	0,0320	0,0033	10,5740	0,9883	0,0000	0,0320	0,0033	11,5633	10,5740	0,9883
4/17/2018	1,2590	0,6820	0,0110	0,5880	2,9660	0,8300	0,0560	0,8200	0,0000	0,0320	0,0033	10,5740	0,9883	0,0000	0,0320	0,0033	11,5633	10,5740	0,9883
4/18/2018	1,2590	0,6820	0,0110	0,5880	2,9660	0,8300	0,0560	0,8200	0,0000	0,0320	0,0033	10,5740	0,9883	0,0000	0,0320	0,0033	11,5633	10,5740	0,9883
4/19/2018	1,2640	0,6880	0,0120	0,5880	2,9540	0,8200	0,0590	0,8600	0,0000	0,0320	0,0033	10,7490	1,0953	0,0000	0,0320	0,0033	11,7813	10,7490	0,9323
4/20/2018	1,2640	0,6880	0,0110	0,5880	2,9540	0,8200	0,0590	0,8600	0,0000	0,0320	0,0033	10,7490	1,0953	0,0000	0,0320	0,0033	11,7813	10,7490	0,9323
4/21/2018	1,1870	0,6590	0,0150	0,5580	3,0450	0,8480	0,0720	0,8800	0,0000	0,0320	0,0033	10,8240	1,1253	0,0000	0,0320	0,0033	11,6993	10,8240	0,8753
4/22/2018	1,1770	0,6820	0,0120	0,5790	3,0700	0,8500	0,0700	0,8700	0,0000	0,0320	0,0033	10,8240	1,1253	0,0000	0,0320	0,0033	11,6993	10,8240	0,8753
4/23/2018	1,1710	0,6820	0,0120	0,5790	3,0700	0,8500	0,0700	0,8700	0,0000	0,0320	0,0033	10,8240	1,1253	0,0000	0,0320	0,0033	11,6993	10,8240	0,8753
4/24/2018	1,1940	0,6940	0,0100	0,5500	3,0260	0,8490	0,0720	0,8700	0,0000	0,0320	0,0033	10,6450	1,0953	0,0000	0,0320	0,0033	11,6993	10,6450	1,0543
4/25/2018	1,1790	0,6790	0,0100	0,5500	3,0260	0,8490	0,0720	0,8700	0,0000	0,0320	0,0033	10,6450	1,0953	0,0000	0,0320	0,0033	11,6993	10,6450	1,0543
4/26/2018	1,1790	0,6790	0,0100	0,5500	3,0260	0,8490	0,0720	0,8700	0,0000	0,0320	0,0033	10,6450	1,0953	0,0000	0,0320	0,0033	11,6993	10,6450	1,0543
4/27/2018	1,2040	0,6880	0,0170	0,5680	3,0120	0,8150	0,0670	0,8150	0,0000	0,0320	0,0033	10,5250	0,9373	0,0000	0,0320	0,0033	11,5573	10,5250	0,9373
4/28/2018	1,2040	0,6880	0,0170	0,5680	3,0120	0,8150	0,0670	0,8150	0,0000	0,0320	0,0033	10,5250	0,9373	0,0000	0,0320	0,0033	11,5573	10,5250	0,9373
4/29/2018	1,2110	0,6760	0,0120	0,5680	3,0120	0,8150	0,0670	0,8150	0,0000	0,0320	0,0033	10,5250	0,9373	0,0000	0,0320	0,0033	11,5573	10,5250	0,9373
4/30/2018	1,2210	0,6900	0,0100	0,5680	3,0120	0,8150	0,0670	0,8150	0,0000	0,0320	0,0033	10,5250	0,9373	0,0000	0,0320	0,0033	11,5573	10,5250	0,9373
4/30/2018	1,2600	0,6890	0,0100	0,5680	3,0120	0,8150	0,0670	0,8150	0,0000	0,0320	0,0033	10,5250	0,9373	0,0000	0,0320	0,0033	11,5573	10,5250	0,9373
Total	36,8320	20,4440	0,3780	17,8450	90,0520	24,9320	1,9730	25,0520	0,0000	0,9511	0,1060	342,9160	342,9160	0,0000	0,9511	0,1060	342,9160	318,4660	24,4500

Notes:
VSD 1 data was revised to exclude NAVI flow.
CSA64 Migrate Narrow added 0.1MG by agreement.

YVWRA
Flow Measured by ADS
May 2018

Date	Flows Measured by ADS											Flows not measured by ADS			Mag Meter Flow Data	Variance			
	Apple Valley No. 1 MPI Q/FINAL	Apple Valley No. 2 MPI Q/FINAL	CSA 42 MPI Q/FINAL	CSA 64 MPI Q/FINAL	Hesperia MPI Q/FINAL	NAVI MPI Q/FINAL	VSD No. 1 MPI Less NAVI	VSD No. 2 MPI Q/FINAL	VSD No. 3 MPI Q/FINAL	VSD No. 4 MPI Q/FINAL	VSD No. 5 MPI Q/FINAL	VSD No. 6 MPI Q/FINAL	ADS Totals	COVV IWWTW Wastewater (gpd)			COVV IWWTW Sludge (gpd)	CSA 64 Park	ADS-Unmetered Flow
	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	
5/1/2018	1.1680	0.6730	0.5640	0.5120	2.1650	0.0170	0.5650	1.6410	3.0310	0.8940	0.0710	0.8420	11.6300	0.0000	0.0270	0.0032	11.6332	10.4670	1.1652
5/2/2018	1.2270	0.6570	0.5270	0.5290	2.1460	0.0170	0.6590	1.6780	3.0140	0.8450	0.0640	0.8440	11.6420	0.0000	0.0270	0.0032	11.6722	10.9500	0.7422
5/3/2018	1.1950	0.6550	0.5610	0.5290	2.2370	0.0170	0.6590	1.6780	3.0140	0.8450	0.0640	0.8440	11.6420	0.0000	0.0270	0.0032	11.6722	10.9500	0.7422
5/4/2018	1.2350	0.6780	0.5620	0.5440	2.2380	0.0140	0.6800	1.6780	3.0680	0.8330	0.0650	0.8410	11.9770	0.0000	0.0270	0.0032	11.8072	10.5250	1.2822
5/5/2018	1.2350	0.6980	0.5640	0.5660	2.2380	0.0130	0.7250	1.6280	3.1680	0.8330	0.0630	0.7960	11.9620	0.0000	0.0270	0.0032	11.8872	10.6900	1.1742
5/6/2018	1.2510	0.6740	0.5690	0.5510	2.1980	0.0150	0.7250	1.6380	3.2200	0.8790	0.0680	0.7550	12.1130	0.0000	0.0270	0.0032	12.1432	11.5370	0.6062
5/7/2018	1.2250	0.6670	0.5510	0.5510	2.1620	0.0130	0.5820	1.6380	3.0920	0.8350	0.0680	0.7550	11.8920	0.0000	0.0270	0.0032	11.9222	10.7000	1.2222
5/8/2018	1.2500	0.6690	0.5840	0.5280	2.1840	0.0160	0.6130	1.6350	3.0820	0.8150	0.0670	0.8080	11.7260	0.0000	0.0270	0.0032	11.7562	9.8750	1.8812
5/9/2018	1.1950	0.6650	0.5740	0.5440	2.1180	0.0140	0.6130	1.6350	3.0180	0.8260	0.0670	0.8770	11.7940	0.0000	0.0270	0.0032	11.8242	10.3890	1.4352
5/10/2018	1.1800	0.6650	0.5740	0.5440	2.1180	0.0140	0.6130	1.6350	3.0180	0.8260	0.0670	0.8770	11.7940	0.0000	0.0270	0.0032	11.8242	10.2700	1.4542
5/11/2018	1.1540	0.7140	0.0770	0.5180	2.1980	0.0120	0.7250	1.6440	3.0584	0.8380	0.0680	0.7270	11.9600	0.0000	0.0270	0.0032	11.9602	10.4710	1.0532
5/12/2018	1.2340	0.7070	0.0570	0.5170	2.1980	0.0120	0.7250	1.6440	3.0584	0.8380	0.0680	0.7270	11.9600	0.0000	0.0270	0.0032	11.9602	10.4710	1.0532
5/13/2018	1.1950	0.6990	0.5800	0.5490	2.2020	0.0120	0.7490	1.6470	3.0550	0.8450	0.0670	0.7290	12.2980	0.0000	0.0270	0.0032	12.2982	10.5990	1.1442
5/14/2018	1.2160	0.6910	0.5800	0.5490	2.2350	0.0110	0.7160	1.6270	3.0000	0.8610	0.0640	0.7560	11.7130	0.0000	0.0270	0.0032	11.7432	10.6880	0.9552
5/15/2018	1.2030	0.6410	0.5700	0.5260	2.1930	0.0150	0.6780	1.6350	2.9700	0.8700	0.0610	0.7520	11.6140	0.0000	0.0270	0.0032	11.6442	10.6880	0.9552
5/16/2018	1.2190	0.6200	0.5770	0.5330	2.2240	0.0120	0.6960	1.6300	2.9220	0.8560	0.0610	0.7530	11.6260	0.0000	0.0270	0.0032	11.6562	10.1950	1.4612
5/17/2018	1.2130	0.6660	0.5740	0.5340	2.2280	0.0120	0.6720	1.6430	2.9240	0.8360	0.0580	0.7590	11.6260	0.0000	0.0270	0.0032	11.6562	10.6500	0.9722
5/18/2018	1.2190	0.6660	0.5740	0.5340	2.2280	0.0120	0.6720	1.6430	2.9240	0.8360	0.0580	0.7590	11.6260	0.0000	0.0270	0.0032	11.6562	10.6500	0.9722
5/19/2018	1.2310	0.6830	0.5730	0.5330	2.2310	0.0110	0.6540	1.6370	2.9700	0.8250	0.0550	0.7400	11.6910	0.0000	0.0270	0.0032	11.7212	10.6500	0.9722
5/20/2018	1.2310	0.6830	0.5730	0.5330	2.2310	0.0110	0.6540	1.6370	2.9700	0.8250	0.0550	0.7400	11.6910	0.0000	0.0270	0.0032	11.7212	10.6500	0.9722
5/21/2018	1.2100	0.6210	0.5790	0.5310	2.1120	0.0120	0.6490	1.6250	3.0080	0.8350	0.0730	0.7600	11.6480	0.0000	0.0270	0.0032	11.6782	10.6640	0.9702
5/22/2018	1.2250	0.6540	0.5790	0.5310	2.1790	0.0120	0.6430	1.6360	2.9930	0.8630	0.0760	0.7600	11.6480	0.0000	0.0270	0.0032	11.6782	10.3270	1.3512
5/23/2018	1.2170	0.6650	0.5810	0.5290	2.1790	0.0120	0.6430	1.6360	2.9850	0.8630	0.0760	0.7600	11.6480	0.0000	0.0270	0.0032	11.6782	10.3270	1.3512
5/24/2018	1.2030	0.6570	0.5770	0.5260	2.1790	0.0120	0.6430	1.6360	2.9850	0.8630	0.0760	0.7600	11.6480	0.0000	0.0270	0.0032	11.6782	10.3270	1.3512
5/25/2018	1.1930	0.6870	0.5720	0.5330	2.1840	0.0100	0.6570	1.6390	3.0950	0.8380	0.0610	0.7570	11.8100	0.0000	0.0270	0.0032	11.8402	10.8100	0.8342
5/26/2018	1.2170	0.6880	0.5740	0.5370	2.1840	0.0110	0.6450	1.6400	3.0190	0.8610	0.0610	0.7570	11.8100	0.0000	0.0270	0.0032	11.8402	10.8100	0.8342
5/27/2018	1.2170	0.6880	0.5740	0.5370	2.1840	0.0110	0.6450	1.6400	3.0190	0.8610	0.0610	0.7570	11.8100	0.0000	0.0270	0.0032	11.8402	10.8100	0.8342
5/28/2018	1.2150	0.6980	0.5740	0.5440	2.2110	0.0120	0.6780	1.6510	3.0800	0.8550	0.0550	0.7890	11.5420	0.0000	0.0270	0.0032	11.5722	10.4640	1.1482
5/29/2018	1.2390	0.6670	0.5630	0.5360	2.2110	0.0130	0.6250	1.6390	3.0210	0.8550	0.0550	0.7890	11.5420	0.0000	0.0270	0.0032	11.5722	10.4640	1.1482
5/30/2018	1.2190	0.6690	0.5630	0.5360	2.1660	0.0140	0.6000	1.6150	2.9650	0.8520	0.0540	0.7820	11.5420	0.0000	0.0270	0.0032	11.5722	10.4640	1.1482
5/31/2018	1.2190	0.6690	0.5630	0.5360	2.1660	0.0140	0.6000	1.6150	2.9650	0.8520	0.0540	0.7820	11.5420	0.0000	0.0270	0.0032	11.5722	10.4640	1.1482
Totals	27.5310	20.7980	2.1640	16.6510	68.9670	0.4040	20.6280	56.8710	94.8108	26.1310	2.0110	24.1220	364.4178	0.0000	0.8361	0.1000	365.2540	332.4580	32.7960
																			11.2238%

Notes:
VSD 1 data was revised to exclude NAVI flow.
CSA64 Measure Narrower added 0.1MG by agreement.


YVWRA
Flow Measured by ADS
June 2018

Date	Flows Measured by ADS											Flows Not Measured by ADS			Mag. Meter Flow Date	Million Gallons	Variance		
	Apple Valley No1 MPI Q/FINAL	Apple Valley No2 MPI Q/FINAL	CSA 42 MPI Q/FINAL	CSA 64 MPI Q/FINAL	Hesperia MPI Q/FINAL	NAVI MPI Q/FINAL	VSD No1 MPI Less NAVI	VSD No2 MPI Q/FINAL	VSD No3 MPI Q/FINAL	VSD No4 MPI Q/FINAL	VSD No5 MPI Q/FINAL	VSD No6 MPI Q/FINAL	ADS Totals	COVW FWWTP Wastewater (gpd)				COVW FWWTP Sludge (gpd)	CSA64 Park
	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	Million Gallons	
6/1/2018	1,171.0	0,660.0	0,161.0	0,530.0	2,218.0	0,012.0	0,071.0	1,633.0	0,850.0	0,000.0	0,035.0	0,730.0	11,592.0	0,000.0	0,032.4	0,003.3	11,627.7	10,610.0	1,017.7
6/2/2018	1,199.0	0,680.0	0,164.0	0,530.0	2,218.0	0,012.0	0,071.0	1,633.0	0,850.0	0,000.0	0,035.0	0,730.0	11,592.0	0,000.0	0,032.4	0,003.3	11,627.7	10,610.0	1,017.7
6/3/2018	1,200.0	0,680.0	0,164.0	0,530.0	2,218.0	0,012.0	0,071.0	1,633.0	0,850.0	0,000.0	0,035.0	0,730.0	11,592.0	0,000.0	0,032.4	0,003.3	11,627.7	10,610.0	1,017.7
6/4/2018	1,210.0	0,670.0	0,160.0	0,530.0	2,207.0	0,010.0	0,070.0	1,615.0	0,850.0	0,000.0	0,035.0	0,720.0	11,588.0	0,000.0	0,032.4	0,003.3	11,621.0	10,610.0	1,011.0
6/5/2018	1,218.0	0,680.0	0,160.0	0,530.0	2,190.0	0,010.0	0,070.0	1,615.0	0,850.0	0,000.0	0,035.0	0,720.0	11,588.0	0,000.0	0,032.4	0,003.3	11,621.0	10,610.0	1,011.0
6/6/2018	1,220.0	0,660.0	0,160.0	0,540.0	2,160.0	0,010.0	0,070.0	1,598.0	0,850.0	0,000.0	0,035.0	0,710.0	11,570.0	0,000.0	0,032.4	0,003.3	11,602.0	10,610.0	1,011.0
6/7/2018	1,230.0	0,640.0	0,160.0	0,510.0	2,160.0	0,010.0	0,070.0	1,620.0	0,850.0	0,000.0	0,035.0	0,710.0	11,570.0	0,000.0	0,032.4	0,003.3	11,602.0	10,610.0	1,011.0
6/8/2018	1,250.0	0,640.0	0,170.0	0,540.0	2,200.0	0,010.0	0,070.0	1,620.0	0,850.0	0,000.0	0,035.0	0,710.0	11,570.0	0,000.0	0,032.4	0,003.3	11,602.0	10,610.0	1,011.0
6/9/2018	1,240.0	0,640.0	0,160.0	0,530.0	2,190.0	0,010.0	0,070.0	1,620.0	0,850.0	0,000.0	0,035.0	0,710.0	11,570.0	0,000.0	0,032.4	0,003.3	11,602.0	10,610.0	1,011.0
6/10/2018	1,230.0	0,650.0	0,160.0	0,530.0	2,190.0	0,010.0	0,070.0	1,620.0	0,850.0	0,000.0	0,035.0	0,710.0	11,570.0	0,000.0	0,032.4	0,003.3	11,602.0	10,610.0	1,011.0
6/11/2018	1,270.0	0,650.0	0,160.0	0,530.0	2,190.0	0,010.0	0,070.0	1,620.0	0,850.0	0,000.0	0,035.0	0,710.0	11,570.0	0,000.0	0,032.4	0,003.3	11,602.0	10,610.0	1,011.0
6/12/2018	1,210.0	0,650.0	0,160.0	0,530.0	2,170.0	0,010.0	0,070.0	1,590.0	0,850.0	0,000.0	0,035.0	0,710.0	11,550.0	0,000.0	0,032.4	0,003.3	11,580.0	10,610.0	1,011.0
6/13/2018	1,210.0	0,650.0	0,160.0	0,530.0	2,170.0	0,010.0	0,070.0	1,590.0	0,850.0	0,000.0	0,035.0	0,710.0	11,550.0	0,000.0	0,032.4	0,003.3	11,580.0	10,610.0	1,011.0
6/14/2018	1,180.0	0,640.0	0,160.0	0,510.0	2,140.0	0,010.0	0,070.0	1,570.0	0,850.0	0,000.0	0,035.0	0,710.0	11,520.0	0,000.0	0,032.4	0,003.3	11,550.0	10,610.0	1,011.0
6/15/2018	1,250.0	0,650.0	0,160.0	0,530.0	2,140.0	0,010.0	0,070.0	1,570.0	0,850.0	0,000.0	0,035.0	0,710.0	11,520.0	0,000.0	0,032.4	0,003.3	11,550.0	10,610.0	1,011.0
6/16/2018	1,180.0	0,650.0	0,160.0	0,530.0	2,140.0	0,010.0	0,070.0	1,570.0	0,850.0	0,000.0	0,035.0	0,710.0	11,520.0	0,000.0	0,032.4	0,003.3	11,550.0	10,610.0	1,011.0
6/17/2018	1,190.0	0,650.0	0,160.0	0,530.0	2,140.0	0,010.0	0,070.0	1,570.0	0,850.0	0,000.0	0,035.0	0,710.0	11,520.0	0,000.0	0,032.4	0,003.3	11,550.0	10,610.0	1,011.0
6/18/2018	1,240.0	0,650.0	0,160.0	0,530.0	2,140.0	0,010.0	0,070.0	1,570.0	0,850.0	0,000.0	0,035.0	0,710.0	11,520.0	0,000.0	0,032.4	0,003.3	11,550.0	10,610.0	1,011.0
6/19/2018	1,240.0	0,650.0	0,160.0	0,530.0	2,140.0	0,010.0	0,070.0	1,570.0	0,850.0	0,000.0	0,035.0	0,710.0	11,520.0	0,000.0	0,032.4	0,003.3	11,550.0	10,610.0	1,011.0
6/20/2018	1,160.0	0,640.0	0,160.0	0,510.0	2,100.0	0,010.0	0,070.0	1,550.0	0,850.0	0,000.0	0,035.0	0,710.0	11,490.0	0,000.0	0,032.4	0,003.3	11,520.0	10,610.0	1,011.0
6/21/2018	1,100.0	0,640.0	0,160.0	0,510.0	2,100.0	0,010.0	0,070.0	1,550.0	0,850.0	0,000.0	0,035.0	0,710.0	11,490.0	0,000.0	0,032.4	0,003.3	11,520.0	10,610.0	1,011.0
6/22/2018	1,070.0	0,640.0	0,160.0	0,510.0	2,100.0	0,010.0	0,070.0	1,550.0	0,850.0	0,000.0	0,035.0	0,710.0	11,490.0	0,000.0	0,032.4	0,003.3	11,520.0	10,610.0	1,011.0
6/23/2018	0,930.0	0,660.0	0,160.0	0,540.0	2,180.0	0,010.0	0,070.0	1,620.0	0,850.0	0,000.0	0,035.0	0,720.0	11,530.0	0,000.0	0,032.4	0,003.3	11,560.0	10,610.0	1,011.0
6/24/2018	0,960.0	0,670.0	0,160.0	0,550.0	2,180.0	0,010.0	0,070.0	1,620.0	0,850.0	0,000.0	0,035.0	0,720.0	11,530.0	0,000.0	0,032.4	0,003.3	11,560.0	10,610.0	1,011.0
6/25/2018	1,040.0	0,630.0	0,160.0	0,530.0	2,160.0	0,010.0	0,070.0	1,610.0	0,850.0	0,000.0	0,035.0	0,710.0	11,500.0	0,000.0	0,032.4	0,003.3	11,530.0	10,610.0	1,011.0
6/26/2018	1,060.0	0,640.0	0,160.0	0,530.0	2,140.0	0,010.0	0,070.0	1,610.0	0,850.0	0,000.0	0,035.0	0,710.0	11,500.0	0,000.0	0,032.4	0,003.3	11,530.0	10,610.0	1,011.0
6/27/2018	1,070.0	0,640.0	0,160.0	0,530.0	2,140.0	0,010.0	0,070.0	1,610.0	0,850.0	0,000.0	0,035.0	0,710.0	11,500.0	0,000.0	0,032.4	0,003.3	11,530.0	10,610.0	1,011.0
6/28/2018	1,170.0	0,650.0	0,160.0	0,530.0	2,140.0	0,010.0	0,070.0	1,610.0	0,850.0	0,000.0	0,035.0	0,710.0	11,500.0	0,000.0	0,032.4	0,003.3	11,530.0	10,610.0	1,011.0
6/29/2018	1,170.0	0,650.0	0,160.0	0,530.0	2,140.0	0,010.0	0,070.0	1,610.0	0,850.0	0,000.0	0,035.0	0,710.0	11,500.0	0,000.0	0,032.4	0,003.3	11,530.0	10,610.0	1,011.0
6/30/2018	1,200.0	0,670.0	0,170.0	0,570.0	2,150.0	0,010.0	0,070.0	1,610.0	0,850.0	0,000.0	0,035.0	0,710.0	11,500.0	0,000.0	0,032.4	0,003.3	11,530.0	10,610.0	1,011.0
Totals	35,172.0	19,882.0	2,186.0	15,940.0	65,090.0	0,120.0	20,090.0	48,420.0	25,500.0	1,900.0	21,460.0	24,020.0	34,020.0	0,000.0	0,271.1	0,100.0	346,140.0	290,310.0	55,830.0
																			12.6027%

Notes:
VSD1 data was revised to exclude NAVI flow.
CSA64 Mjgave Narrows added 0.1MG by agreement.



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
 March 21, 2019

FROM: Kristi Casteel, Secretary to the General Manager and Board of Commissioners 

TO: Logan Olds, General Manager

SUBJECT: Recommendation to Approve Resolution 2019-04: Amend and Adopt 2019 Local Guidelines for Implementing the California Environmental Quality Act (CEQA)

RECOMMENDATION

It is recommended that the Board of Commissioners approve Resolution 2019-04 to amend and adopt 2019 local guidelines for implementing the California Environmental Quality Act.

REVIEWED BY

The 2019 Local CEQA Guidelines have been reviewed by Best Best & Krieger LLP.

BACKGROUND INFORMATION

The California Environmental Quality Act (“CEQA”), as contained in Public Resources Code sections 21000 et seq., is California's most comprehensive environmental law. It requires all public agencies within the state to evaluate the environmental effects of their actions before they are taken. CEQA also aims to prevent significant environmental effects from occurring as a result of agency actions by requiring agencies to avoid or reduce, when feasible, the significant environmental impacts of their decisions.

To this end, CEQA requires all public agencies to adopt specific objectives, criteria and procedures for evaluating public and private projects that are undertaken or approved by such agencies.

As a result, the Victor Valley Wastewater Reclamation Authority’s Local CEQA Guidelines have been revised and amended to reflect recent changes to the State CEQA Guidelines, the Public Resources Code and relevant court opinions.

FINANCIAL IMPACT

None

RELATED IMPACTS

None

RESOLUTION NO. 2019-04**A RESOLUTION OF THE VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY AMENDING AND ADOPTING LOCAL GUIDELINES FOR IMPLEMENTING THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (PUB. RESOURCES CODE §§ 21000 ET SEQ.)**

WHEREAS, the California Legislature has amended the California Environmental Quality Act (“CEQA”) (Pub. Resources Code §§ 21000 et seq.), the Natural Resources Agency has amended the State CEQA Guidelines (Cal. Code Regs., tit. 14, §§ 15000 et seq.) and the California courts have interpreted specific provisions of CEQA; and

WHEREAS, Public Resources Code section 21082 requires all public agencies to adopt objectives, criteria and procedures for (1) the evaluation of public and private projects undertaken or approved by such public agencies, and (2) the preparation, if required, of environmental impact reports and negative declarations in connection with that evaluation; and

WHEREAS, the Victor Valley Wastewater Reclamation Authority must revise its local guidelines for implementing CEQA to make them consistent with the current provisions and interpretations of CEQA and the State CEQA Guidelines.

NOW, THEREFORE, the Victor Valley Wastewater Reclamation Authority (“VWVRA”) hereby resolves as follows:

SECTION 1. The VWVRA adopts the “2019 Local Guidelines for Implementing the California Environmental Quality Act,” a copy of which is on file at the offices of VWVRA and is available for inspection by the public.

SECTION 2. All prior actions of VWVRA enacting earlier guidelines are hereby repealed.

ADOPTED this 21 day of March, 2019.

Jeff Rigney
Chair, VWVRA Board

ATTEST:

James Cox
Secretary, VWVRA Board of Commissioners

APPROVED AS TO FORM:

Piero Dallarda, a Partner of
Best Best & Krieger LLP
General Counsel, VVWRA

CERTIFICATION:

I do hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the Board of Commissioners held on March 21, 2019.

Kristi Casteel – Clerk of the Board

RESOLUTION NO. 2019-02

**A RESOLUTION OF THE VICTOR VALLEY WASTEWATER
RECLAMATION AUTHORITY IN RECOGNITION AND APPRECIATION
OF DEDICATED SERVICE TO JEFFERY RIGNEY**

WHEREAS, Jeffery Rigney has been serving as the primary representative for the County of San Bernardino on the Victor Valley Wastewater Reclamation Authority (VWRA) Board of Commissioners since February 19, 2009; and

WHEREAS, Mr. Rigney's knowledge, experience and accomplishments as Director of the Office of Special Districts for San Bernardino County were invaluable during the term of his service on the VWRA Board of Commissioners for ten consecutive years; and

WHEREAS, Mr. Rigney performed his duties with the utmost diligence and distinction and with perceptive insight of community issues; and

WHEREAS, Mr. Rigney's accomplishments as a member of this Commission have created significant, positive, and lasting impacts on the Victor Valley Wastewater Reclamation Authority and the quality of the environment in the Victor Valley.

NOW THEREFORE, BE IT RESOLVED that this Commission does hereby recognize and extend sincere gratitude and appreciation to JEFFERY RIGNEY for his dedicated service and commitment to the Victor Valley Wastewater Reclamation Authority and his concern for all residents of the Victor Valley.

ADOPTED this 21st day of March 2019.

Scott Nassif, Vice-Chair
VWRA Board of Commissioners

APPROVED AS TO FORM:

Piero C. Dallarda of
Best Best & Krieger LLP

Jim Cox, Secretary
VWRA Board of Commissioners

CERTIFICATION

I, Kristi Casteel, Secretary to the Board of Commissioners of the Victor Valley Wastewater Reclamation Authority, State of California, do hereby certify that the foregoing is a full, true and correct copy of Resolution No. 2019-02, adopted by the Board of Commissioners of said Authority at its meeting of March 21, 2019.

Kristi Casteel
Secretary to the Board of Commissioners

Victor Valley Wastewater Reclamation Authority



Financial and Cash Report

February 2019

Victor Valley Wastewater Reclamation Authority
CASH AND RESERVE SUMMARY
 February 27, 2019

G/L Account	Description	Balance
1000	DCB Checking Account	\$ 1,113,000
1030	DCB Sweep Account	761,483
1075	Cal TRUST	6,209,253
1070	LAIF	1,826,050
	Total Cash	\$ 9,909,786

\$65 mil Max

Reserves:	Current Balance	Restricted	Assigned	Not Assigned
Targeted Capital Reserve	\$ -	\$ -	\$ -	\$ -
O&M Reserve: 10% of Prior Year Budgeted Operating Expenses	1,235,970		1,435,970	
R&R Reserve: 1% of Land Improvements/Plants/Interceptors PY CAFR	2,954,450		2,954,450	
Reserve for SRF Payments (P& I) - Operating	2,761,133	2,761,133		
Reserve for SRF Payments (P& I) - Capital	2,386,726	2,386,726		
Available for O&M	571,507	-		
Total Cash	\$ 9,909,786	\$ 5,147,859	\$ 4,390,420	\$ -

Note 1: ACCUMULATION FOR SRF LOAN PAYMENTS:

	9.5 MGD, 11.0 MGD, NAVI, Phase III-A	Upper Narrows Replacement	Nanticoke Bypass	Sub- Regional Apple Valley	Sub- Regional Hesperia	Total
Reserve for SRF Payments (P& I) - Operating	\$ 782,104	257,745	203,725	625,220	892,339	\$ 2,761,133
Reserve for SRF Payments (P& I) - Capital	1,348,576	-	67,908	399,731	570,512	2,386,726
	\$ 2,130,680	257,745	271,633	1,024,951	1,462,850	\$ 5,147,859

Payment Month:

9.5 MGD	September
11.0 MGD	April
NAVI	February
Phase III-A	June
Upper Narrows Replacement	December
Nanticoke	June
Subregional - AV	February
Subregional - HES	February

Victor Valley Wastewater Reclamation Authority
Flow Study
For the Month Ended January 31, 2019

Measured by ADS	Percentage of Total %	January Monthly MG
VSD 1 (less North Apple Valley)	6.0872%	21.6820
VSD 2	14.3378%	51.0700
VSD 3	24.9585%	88.9000
VSD 4	6.3098%	22.4750
VSD 5	0.5118%	1.8230
VSD 6	6.1391%	21.8670
VSD Total	58.3442%	207.8170
Apple Valley 01	11.1668%	39.7750
Apple Valley 02	5.9227%	21.0960
Apple Valley North	0.0999%	0.3560
Apple Total	17.1894%	61.2270
Hesperia	19.1689%	68.2780
CSA 64 SVL	4.7918%	17.0680
CSA 42 Oro Grande	0.5058%	1.8010
CSA Total	5.2976%	18.8690
Total Apportioned Flow	100.0000%	356.1910
Mojave Narrows Regional Park		0.1000
Total Study Flow		356.2910

Victor Valley Wastewater Reclamation Authority
Statement of Net Position
February 28, 2019

<i>Assets and Deferred Outflows of Resources</i>	2019
Current assets:	
Cash and cash equivalents	\$ 9,441,450
Interest receivable	10,691
Accounts receivable	5,194,774
Receivable from FEMA Grants	3,679,746
Accounts receivable - Other	18,899
Allowance for Doubtful Accounts	(89,459)
Materials and supplies inventory	83,104
Prepaid expenses and other deposits	258,215
Total current assets	18,597,420
Fixed assets:	
Capital assets not being depreciated	3,157,432
Capital assets being depreciated	192,853,069
Total capital assets	196,010,501
Total assets	214,607,921
Deferred outflows of resources	
Deferred outflows of resources - pension	1,742,472
Total	\$ 216,350,393
<i>Liabilities, Deferred Inflows of Resources, and Net Position</i>	
Current liabilities:	
Accounts payable and accrued expenses	\$ 287,306
Accrued interest on long-term debt	275,043
Long-term liabilities - due within one year:	
Compensated absences	48,647
Loans payables	1,849,149
Other payables	6,852
Total current liabilities	2,466,997
Non-current liabilities:	
Long-term liabilities - due in more than one year:	
Compensated absences	239,372
Other post employment benefits payable	2,285,368
Loans payable	83,371,243
Net Pension Liability	5,750,574
Other payables	350,036
Total non-current liabilities:	91,996,593
Total liabilities	94,463,590
Deferred inflows of resources	
Deferred inflows of resources - pension	89,437
Net position:	
Net investment in capital assets	122,731,832
Restricted for SRF loan covenant	5,285,091
Unrestricted	(528,516)
Decrease in net position FY 19	(5,691,041)
Total net position	121,797,366
Total	\$ 216,350,393

Victor Valley Wastewater Reclamation Authority
 Revenues and Expenses
Operations and Maintenance
 For the Month Ended February 28, 2019

	Actual February 2019	YTD Actual FY 18-19	Approved Budget FY 18-19
REVENUES			
User Charges	\$ 1,068,755	\$ 9,033,281	\$ 13,661,700
Sludge Flow Charge	9,374	68,316	120,000
High Strength Waste Surcharges	-	17,380	20,000
ADM FOG Tipping Fee Revenue	20,868	183,242	200,000
Septage Receiving Facility Charges	53,599	400,821	550,000
Reclaimed Water Sales	659	4,835	25,000
Potable Well Water Sales	53	414	-
Leased Property Income	50	400	-
Interest	117	950	-
Pretreatment Fees	6,200	37,400	50,000
Finance Charge	-	-	-
Grant - FEMA/Cal-EMA	-	-	-
Grant - Proposition 1	-	-	-
Grant- Water Recycling	-	-	-
Grant- CEC Microgrid	-	-	-
Sale of Assets, Scrap, & Misc Income	-	834	1,200
Total REVENUES	\$ 1,159,675	\$ 9,747,873	\$ 14,627,900
EXPENSES			
Personnel	\$ 323,426	\$ 3,050,117	\$ 4,080,784
Maintenance	29,957	891,481	2,194,767
Operations	112,324	1,739,910	3,151,072
Administrative	49,803	1,269,142	2,183,749
Construction	-	96,818	-
Total EXPENSES	\$ 515,510	\$ 7,047,468	\$ 11,610,372
Revenues over Expenses before Depreciation, Debt Service and Transfers	\$ 644,165	\$ 2,700,405	\$ 3,017,528
Depreciation Expense	(1,035,455)	(8,303,380)	-
FEMA CalOES Retention	\$ -	\$ -	\$ 747,034
DEBT SERVICE			
SRF Principal	\$ -	\$ -	\$ 2,094,805
SRF Interest	386,055	447,196	762,842
	<u>\$ 386,055</u>	<u>\$ 447,196</u>	<u>\$ 2,857,647</u>
FUND TRANSFERS IN			
Salary/Benefits Charge from Capital	\$ 8,930	\$ 71,437	\$ -
Admin Charge from Capital	3,393	27,146	-
Total FUND TRANSFERS IN	\$ 12,323	\$ 98,583	\$ -
FUND TRANSFERS OUT			
Transfer to Repairs and Replacements Fund	\$ -	\$ -	\$ 2,749,326
Inter-fund loan payment to Capital	-	-	-
Total FUND TRANSFERS OUT	\$ -	\$ -	\$ 2,749,326
Excess Revenues Over Expenses	\$ (765,022)	\$ (5,951,588)	\$ (1,842,411)

Victor Valley Wastewater Reclamation Authority
Revenues and Expenditures
Repairs and Replacement
For the Month Ended February 28, 2019

	Actual February 2019	YTD Actual FY 18-19	Approved Budget FY 18-19
REVENUES			
R&R Revenues	\$ _____	\$ _____	\$ _____
Total REVENUES	\$ _____ - \$ _____	\$ _____ - \$ _____	\$ _____ - \$ _____
OTHER FINANCING SOURCES			
SRF Loan Funding	\$ _____ - \$ _____	\$ _____ - \$ _____	\$ _____ - \$ _____
CAPITAL EXPENSES			
Personnel	\$ _____ - \$ _____	\$ _____ - \$ _____	\$ _____ - \$ _____
Maintenance	8,864	301,262	1,204,326
Operations	-	-	25,000
Administrative	-	61,628	150,000
Construction	-	455,666	1,370,000
Total CAPITAL EXPENSES	\$ _____ 8,864 \$ _____	\$ _____ 818,556 \$ _____	\$ _____ 2,749,326 \$ _____
Revenues over Expenses before Debt Service and Transfers	\$ _____ (8,864) \$ _____	\$ _____ (818,556) \$ _____	\$ _____ (2,749,326) \$ _____
FUND TRANSFERS IN			
Transfer from Operations and Maintenance Fund	\$ _____ - \$ _____	\$ _____ - \$ _____	\$ _____ 2,749,326 \$ _____
Interfund Loan Payment from O&M	-	-	-
Total FUND TRANSFERS IN	\$ _____ - \$ _____	\$ _____ - \$ _____	\$ _____ 2,749,326 \$ _____
FUND TRANSFERS OUT			
Salary/Benefits Charge to O & M	\$ _____ - \$ _____	\$ _____ - \$ _____	\$ _____ - \$ _____
Admin Charge to O & M	-	-	-
Total FUND TRANSFERS OUT	\$ _____ - \$ _____	\$ _____ - \$ _____	\$ _____ - \$ _____
Excess Revenues Over Expenses	\$ _____ (8,864) \$ _____	\$ _____ (818,556) \$ _____	\$ _____ - \$ _____

Accrual Basis

Victor Valley Wastewater Reclamation Authority
Revenues and Expenditures
CAPITAL
For the Month Ended February 28, 2019

	Actual February 2019	YTD Actual FY 18-19	Approved Budget FY 18-19
REVENUES			
Connection Fees	\$ 93,914	\$ 1,355,593	\$ 2,000,000
Title 16 Grant - Subregional	-	-	-
Grant- Water Recycling	-	-	-
Sale of Assets, Scrap, & Misc Income	-	-	-
Interest	15,603	131,193	35,000
Proposition 1 Grant	-	-	-
Proposition 84 Grant	-	-	-
FMV Adjustment	3,148	21,366	-
CEC Microgrid Grant	-	18,143	-
Grant - FEMA/Cal-EMA	-	-	3,105,375
Total REVENUES	\$ 112,665	\$ 1,526,295	\$ 5,140,375
CAPITAL EXPENSES			
Personnel	\$ -	-	\$ 378,554
Maintenance	-	-	-
Operations	-	-	170
Administrative	-	(2,054)	-
Construction	-	55,600	430,000
Total CAPITAL EXPENSES	\$ -	\$ 53,546	\$ 808,724
Revenues over Expenses before Debt Service and Transfers	\$ 112,665	\$ 1,472,749	\$ 4,331,651
DEBT SERVICE			
SRF Principal	\$ -	-	\$ 2,002,675
SRF Interest	282,370	295,063	437,219
	\$ 282,370	\$ 295,063	\$ 2,439,894
FUND TRANSFERS IN			
Capital Recovery - Septage from O&M	\$ -	-	\$ -
Interfund Loan Payment from O&M	-	-	-
Total FUND TRANSFERS IN	\$ -	\$ -	\$ -
FUND TRANSFERS OUT			
Salary/Benefits Charge to O & M	\$ 8,930	\$ 71,437	\$ -
Admin Charge to O & M	3,393	27,146	-
Total FUND TRANSFERS OUT	\$ 12,323	\$ 98,583	\$ -
Excess Revenues Over Expenses	\$ (182,028)	\$ 1,079,103	\$ 1,891,757

Accrual Basis

VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
SRF LOAN SUMMARY
 February 28, 2019

Existing 9.5 MGD Capital Improvements	Existing 11 MGD Expansion	Existing North Apple Valley Interceptor	Existing Phase IIIA Regulatory Upgrades	Existing UN Replacement Project	Existing Nanticoke Pump Station Bypass	Existing Apple Valley Sub-Regional	Existing Hesperia Sub-Regional	Total Agreed SRF Loans
4573	4574	4658	5376	7805	7833	4806	4807	

SRF LOAN #

Original Amount Financed	\$ 11,430,726.00	\$ 4,084,688.00	\$ 18,581,561.00	\$ 4,286,380.00	\$ 4,495,212.79	\$ 26,455,228.84	\$ 37,758,384.81	\$ 111,162,040.44
SRF Interest Rate (fixed)	* 0.00%	2.50%	2.70%	1.90%	1.90%	1.00%	1.00%	Varies
Local Match Amount	1,905,159.00	-	-	-	-	-	-	1,905,159.00
Principal Forgiveness	n/a	n/a	3,000,000.00	n/a	n/a	n/a	n/a	3,000,000.00
SRF Amount Borrowed	9,525,567.00	4,084,688.00	15,717,667.66	4,286,380.00	4,495,212.79	26,455,228.84	37,758,384.81	106,392,988.10
Annual Payment Amount	265,049.56	258,151.05	1,027,609.73	257,745.38	271,632.70	1,024,950.85	1,462,850.30	5,147,859.53
Annual Payment Due Date	April 3	February 13	June 30	December 31	June 30	February 28	February 28	Varies
Loan Term (years)	20	20	20	20	20	30	30	Varies
Years remaining	4	6	14	15	19	30	30	Varies
DEBT SERVICE								
Loan Outstanding Balance	258,332.81	1,421,928.33	11,848,942.94	2,990,766.22	4,298,323.84	25,691,197.89	36,667,491.56	85,395,110.76
Principal Paid to Date	3,811,526.19	2,662,759.67	3,868,724.72	1,295,613.78	196,888.95	764,030.95	1,090,893.25	20,997,877.34
Interest Paid to Date	1,167,477.10	951,357.03	2,239,158.53	171,431.28	74,743.75	260,919.90	371,957.05	7,040,850.96
First Payment Date	Sept. 15, 2000	Feb. 13, 2005	June 30, 2013	Dec. 31, 2016	Jun 30, 2018	February 28 2019	February 28 2019	Varies
Final Payment Date	Sept. 15, 2019	Feb. 13, 2024	June 30, 2032	Dec. 31, 2032	Jun. 30, 2037	February 28, 2048	February 28, 2048	Varies
Effective interest rate	2.544%	2.499%	2.700%	1.900%	1.900%	1.00%	1.00%	Varies

* An imputed interest rate is 1.707% per annum.

Victor Valley Wastewater Reclamation Authority



Operations and Maintenance Report

February 2019

VWRA O&M Monthly Report – February 2019

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**Victor Valley Wastewater Reclamation Authority
Operations and Maintenance Report
February 2019**

TO: Logan Olds, General Manager
FROM: Operations & Maintenance Staff
SUBJECT: OPERATIONS/MAINTENANCE REPORT
DATE: February 07, 2019

The following information details the operation of the Victor Valley Wastewater Reclamation Authority Facility. Included in this report is pertinent information regarding flows, process control information, process sampling, permit requirements, operations activities, and facility maintenance activities. This report is based on O&M activities for February 2019.

	Total	Average
Effluent to Mojave	176.203	6.293
Effluent to Ponds	182.3507	5.8823
		Limit
Biochemical Oxygen Demand (BOD)		10 mg/l
Effluent to Mojave	<4.72	
Percent Removal	>98.525	
		Limit
Total Suspended Solids (TSS)		10 mg/l
Effluent to Mojave	<2.1	
Percent Removal	>99.352	
		Limit
Turbidity		2.0 ntu
30 Day Average	0.55	

Major Operations Activities

Headworks

The Headworks area operated as intended throughout the months with normal equipment maintenance performed on a weekly basis.

Primary Treatment

Overall removal efficiency of the primary clarifiers was 41.36% removal of influent BOD and 62.22% removal of TSS. Typical operating parameters are 25 to 35 percent removal of BOD and 50 to 60 percent removal of TSS. The primary sludge concentration averaged 2.83% total solids at 73,746 gallons per day.

Primary clarifiers: #1,#2 ,#3, #5, #6 #7, #8 are currently online and continue to treat all incoming flow. Primaries #4 remained offline for the month. With one clarifier off line, the remaining 7 primary clarifiers are capable of treating peak flows up to 27 MGD.

The digester gas conditioning system remains online. The system will prevent premature wear and tear on engines #2 & #3 by removing siloxanes by the addition of ferric chloride. The system increases fuel pressure to the blower gas system, allowing for more output from the blower engine. Digester #4 and 5 gas is mixed and sent to the gas conditioning system. This all but eliminates the use of Natural gas to run engines #2 and #3.

Staff continues to add ADM/ Grease to Daft #3 from Primaries and truck deliveries where it is then feed it to Digesters #4 and #5. This operation is assisting in additional grease removal from the primary clarifiers and increased gas production in the anaerobic digesters.

Secondary Process

Secondary Clarifiers #1 thru #6 are currently offline, not needed at this time.

Aeration basins #1 thru 12 have been retrofitted with the new Aquarius diffusers and are currently performing very well reducing the RPM's on the Piller blower. Currently basins #1-6 and 7-12 are online.

Piller #1 is supplying air to basins #1-6, mixed liquor channel and aerated grit chamber. Piller #6 is supplying air to AB's #7-12.

Staff continues to monitor the solids under aeration and SVI to compare against the SRT Master Control Program. The SRT Master program is performing well. The secondary process has been performing well as a result of the SRT Master Control Program. Weekly Nitrogen studies performed by VVWRA staff produced results below regulatory requirements.

Thioguard was not used during the month.

Secondary turbidity averaged 2.76 (NTU) during the month of February 2019
The 30 minute settleometer test averaged 180.9 mL/L.
The average "pop time" of the MLSS was >82 min.

Percolation Ponds

South percolation ponds #7, #8, #10, #11, #12 and #13 were used and rotated during the month.

All Percolation Pond freeboard level requirements have been met during the month. All ponds are being rotated on a daily basis. Percolation Pond #6 remains off line and drained to minimal levels. No flow seepage has been observed. The north percolation ponds were used sparingly during the month.

Tertiary Filters

Aqua Diamond Filters #1 and #2 were utilized for the month of February. Filter Effluent average Turbidity of 0.79 NTU.

Solids

Digester #1 ,#2 and #3 were filled with water and heating test was conducted in the month of February.

Staff has been operating Digester #4 and #5 at predetermined sludge levels which is controlled by the SCADA system.

VVWRA received 518,268 gallons of ADM (Anaerobically Digestible Material) and FOG (Fats Oil and Grease). Total is comprised of 477,062 gallons of ADM and 45,206 gallons of FOG.

A Total 20,530,641cf/day of gas was created by digesters #4 and 5 for the month of February 2019. That is an average gas production of 733,237cf/day.
 Digester #4 averaged 376,611cf/day.
 Digester #5 averaged 356,626cf/day.
 Digester Volatile Acid/Alkalinity averaged 0.015 for the month.

Ultra Violet Disinfection (UV)

The UV system is currently operating via one channel mode.
 Monthly UV intensity probe and flow meter calibration checks were performed.

Permit Continuous Monitoring Requirements and Permit Violations

All permit required, continuous monitoring equipment was on-line, in calibration and working properly during the month.

Date of last reportable incident: March 10, 2015

Days since last reportable incident: 1,451 days

Discharge Sampling

All required samples during the month of February 2019 were collected and processed as scheduled.

Miscellaneous

Maintenance Activities

VVWRA O&M Monthly Report – February 2019

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CMMS Work Order Activity

VVWRA KPI Report

3/4/2019

2:44 PM

2/1/2019 - 2/28/2019

KPI	Count	Percent
Planned Work Total	302	
Planned Work Completed	261	86.42%
Planned Work Completed On-Time	202	66.89%
Planned Work Incomplete	41	13.58%
Planned Work Completed Late	64	21.19%
Total Work Completed	569	
Reactive Work Completed	109	19.16%
PM Work Completed	410	72.06%

Safety

1. Monthly Vehicle Safety Inspections completed.
2. Monthly gas tech monitor inspections completed.
3. Monthly Eyewash safety showers inspected.
4. Monthly SCBA inspections.
5. Hazardous storage area inspection.
6. Spill kit inspections.
7. HAZWOPER refresher training.

Preliminary Process

1. Aqua Guard pre-treatment screen inspected and serviced.
2. Headwork's Conveyor Belt Lube & Inspect.

VVWRA O&M Monthly Report – February 2019

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3. Grit classifier monthly lube.
4. Septage EQ basin quarterly cleaning completed.
5. Septage receiving auger brush replacement.

Primary Process

1. All PH and conductivity probes cleaned and calibrated.
2. Influent PH and conductivity probe calibrations complete.
3. Primary sludge pumps 2 and 6 repairs.
4. Primary clarifiers 4 shear pin replacement.

Secondary Process

1. Piller blowers 1 & 6 weekly inspections complete.
2. Service Air compressors inspection and service completed.
3. Waukesha engines inspections.
4. Piller #1 and #6 Filters Replacement.

Tertiary

1. Monthly gear box and platform drive wheel service complete
2. Filter #1 & #2 monthly platform gear box PM's comp
3. Monthly festoon inspection.

4. Filter #1 & #2 monthly backwash wasting pumps oil checks complete
5. All PH and conductivity probes cleaned and calibrated.
6. Filter cleaning completed.

Ultra Violet Disinfection (UV)

1. PH and conductivity probes cleaned and calibrated
2. UVT probe calibrated
3. UV Compliance sample pumps foot valve cleaning.
4. UV MCC filters cleaning.
5. UV lamp wiper air leaks repair.

Treatment Disposal

1. DAFT #1 and #2 Air Compressors 1&2 PM services complete.
2. DAFT monthly lube.
3. Dewatering for drying beds setup.
4. Digester 1-3 ongoing repairs.

Miscellaneous Plant

1. Emergency generator monthly test.
2. Monthly Blower buildings AHU filter replacement.
3. Storm water catch basin cleaning.

G/CHP 1&2

1. Monthly UREA refill completed CHP #1 & #2

2. CHP1&2 differential pressure readings taken within normal range, Gas DP pressure collected within normal range.
3. Monthly gas samples collected.
4. CHP #2 Jacket water pump repair.

Gas Conditioning Skid

1. Monthly gas sampling collected.
2. Monthly gas conditioning skid inspection.

OGPS

1. Monthly Generator Test completed.

Hesperia WRP

1. Biofilter Drain maintenance.
2. Equipment inspection for startup.

AVPS OTOE

1. Monthly Emergency generator test.
2. Wet-well cleaning.

OFFROAD EQUIPMENT

1. Brown Bear weekly PM's completed.
2. JCB front loader weekly PM's complete.

FLEET

1. Monthly fleet inspections completed pumps, vehicles, hose reel trailer, light towers.

Victor Valley Wastewater Reclamation Authority



Environmental Compliance Department Report

February 2019

VWRA Environmental Compliance Department
Industrial Pretreatment Program

I. Interceptors Operation and Maintenance:

1. Interceptors cleaning & CCTV:

- ✓ I Ave and Hesperia Interceptors cleaning is scheduled for April 2019

2. Interceptors Inspections:

The following interceptors were visually inspected for signs of damage, vandalism and evidence of sanitary sewer overflows:

- ✓ South Apple Valley & North Apple Valley.
- ✓ Schedule 1, 2, 3 & 4
- ✓ UNE Bypass HDPE pipe
- ✓ Hesperia, I Ave and Santa Fe.
- ✓ CSA 64
- ✓ Adelanto
- ✓ SCLA1

3. Damage and repair summary:

- ✓ No Damage found during inspections and no repair was needed or performed.

4. Sanitary sewer overflows (SSO) summary:

- ✓ Date of last reportable SSO: June 30th, 2019

5. Interceptors maintenance budget remaining:

- ✓ The fiscal year 2018-2019 Interceptor sewer maintenance amount remaining for sewer cleaning and inspection services is \$65,300.91

6. Dig Alert Underground tickets processed:

- ✓ A total of One hundred and Twenty-four (124) USA Tickets were received and processed in February 2019.

7. Flow monitoring Studies:

- ✓ A flow monitoring study by ADS Environmental is continuing.

II. Industrial pretreatment Activities:

1. **New Business Questionnaires and permits applications evaluated:**
 - ✓ Five (15) New Business Questionnaires were processed in the month of February 2019.
 - ✓ Zero (0) New Business Inspection was conducted in the month of February 2019.
2. **New permits issued:**
 - ✓ One (1) New permits were issued in the month of February 2019.
3. **Permit renewals issued:**
 - ✓ Fourteen (14) Class III permit renewals were issued in the month of February 2019.
4. **Work Orders:**
 - ✓ 54 Work Orders were completed in February 2019
5. **Monthly revenues collected, and invoices issued:**
 - ✓ Revenues: \$
 - ✓ Invoiced: \$7,100.00

III. Industrial Pretreatment Activities (continued)

1. Current enforcement actions:

- ✓ Two (2) Notice of Violation was issued in February 2019.

2. Current active industrial pretreatment permits:

- ✓ The current number of VVWRA’s industrial wastewater discharge permits is 429, they are comprised as follows:

1	Class I	Categorical Industrial User
11	Class II	Non-Categorical Significant Industrial User
405	Class III	Non-Significant Industrial User
1	Class IV	Zero Discharge Industrial User
11	Class V	Sanitary Waste Haulers

- ✓ The permitted establishments include:

17	Automotive Service Facility
13	Bakery
1	Brewery/Winery
21	Car Wash/Truck Wash/Bus Wash
3	Coffee Shop
9	Dry Cleaner
297	FSE
22	Grocery Store
3	Hospital
3	Misc. Food
3	Misc. Industrial
3	Other
1	Photographic
1	Print Shop
1	Prison
3	School
4	Water Retail
11	Waste Haulers

- ✓ Permitted businesses are distributed among member entities as follows: 167 in Victorville, 113 in Apple Valley, 123 in Hesperia and 1 in Oro Grande.

Victor Valley Wastewater Reclamation Authority



Environmental Compliance Department

Septage/FOG/ADM Monthly Report

February 2019

1. Septage/FOG/ADM receiving invoices and payments monthly report:

Payments and Invoices period: February 1st thru February 28th – Septage rate per Gallon: \$ 0.0936
FOG/ADM rate per Gallon: \$ 0.04

Receiving invoices

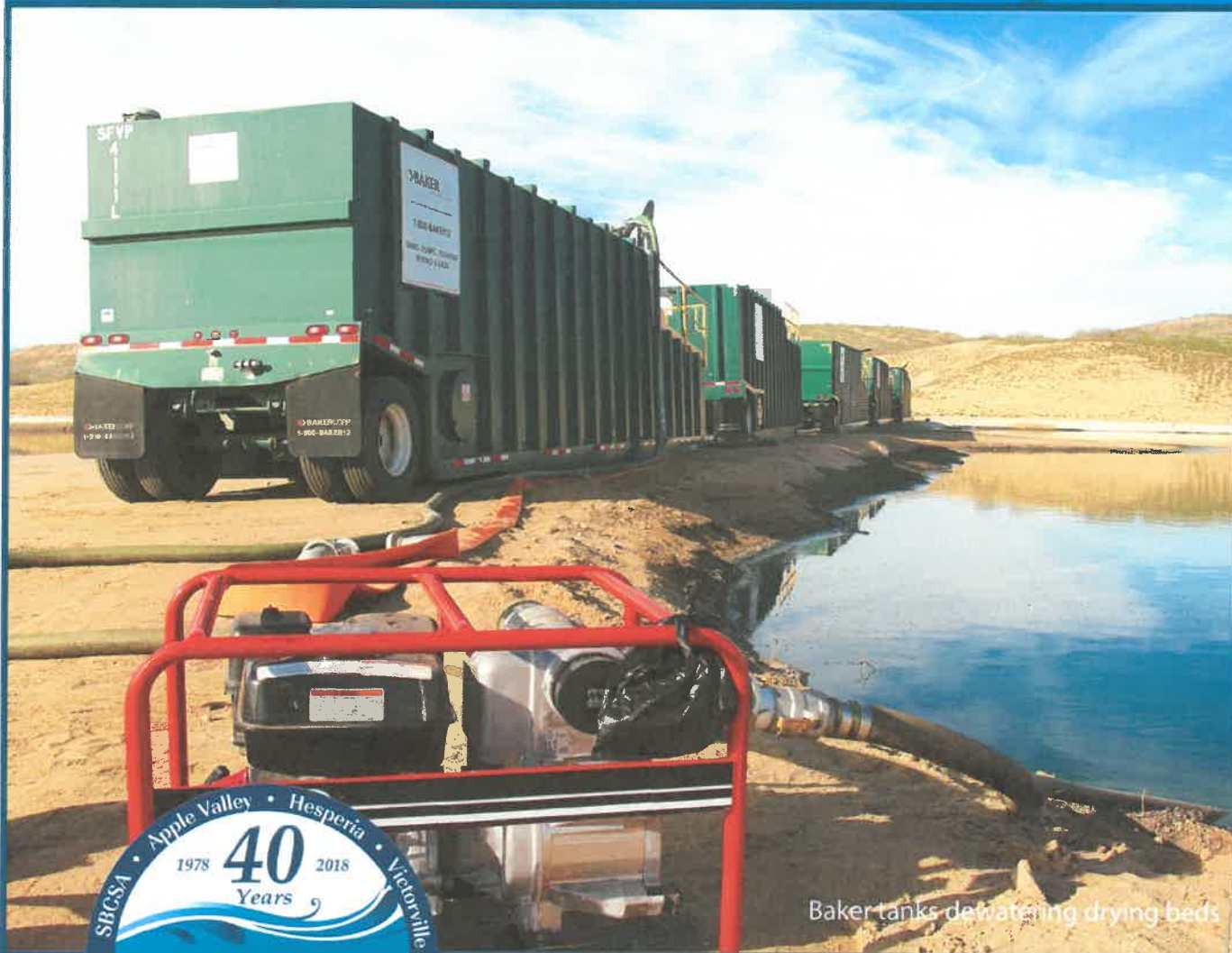
ID No	Septage Hauler	Invoice Date	Total Gallons	Invoice Amount
ABS000	Absolute Pumping	2/28/2019	45,810	\$4,287.82
ALP000	Alpha Omega Septic Service	2/28/2019	167,898	\$15,715.25
BUR000	Burns Septic	2/28/2019	72,000	\$6,739.20
HIT000	Hitt Plumbing	2/28/2019	0	\$0
HON001	Honest Johns Septic Service, Inc	2/28/2019	82,707	\$7,741.47
ROT001	T.R. Stewart Corp. dba Roto Rooter	2/28/2019	102,328	\$9,577.90
USA000	USA Septic	2/28/2019	101,900	\$9,537.84
ALP000	Alpha Omega Septic Service (Nutro)	2/28/2019	72,268	\$2,890.72
COW000	Co-West Commodities	2/28/2019	140,000	\$5,600.00
LIQ000	Liquid Environmental Solutions of CA	2/28/2019	0	\$0
SMC000	SMC Grease Specialist, Inc.	2/28/2019	306,000	\$12,240.00
WES004	West Valley MRF, LLC Burrtec Waste Industries, Inc.	2/28/2019	0	\$0
HIT000	Hitt Plumbing	2/28/2019	3,435	\$137.40
Grand Totals			1,094,346	\$74,467.60

Septage/FOG/ADM receiving payments:

ID No	Business Name	Payments Received
ABS000	Absolute Pumping	\$3,144.40
ALP000	Alpha Omega Septic Service	\$25,948.26
BUR000	Burns Septic	\$0
HON001	Honest Johns Septic Service, Inc	\$0
ROT001	T.R. Stewart Corp. dba Roto Rooter	\$6,335.50
USA000	USA Septic	\$6,598.80
ALP000	Alpha Omega Septic Service (Nutro)	\$0
COW000	Co-West Commodities	\$4,800.00
LIQ000	Liquid Environmental Solutions of CA	\$0
SMC000	SMC Grease Specialist, Inc.	\$7,470.00
WES004	West Valley MRF, LLC Burrtec Waste Industries, Inc.	\$0
HIT000	Hitt Plumbing	\$0
Grand Total		\$54,296.96



Safety & Communications Report



Baker tanks dewatering drying beds



February 2019



Safety

STAFF SAFETY TAILGATE/ORIENTATION

- February 7--Preventing hand injuries



- February 14--Fire extinguishers

- February 21--Ladder Safety



- February 26--Keeping work area clean

- February 28--Workplace housekeeping





Safety

SAFETY EVENTS/ TRAINING

- Safety tailgates
- Daily, weekly and monthly plant inspections
- 24 hour hazwoper training
- Marijuana laws and effect on employees

UNSAFE CONDITIONS REPORTED/RESOLVED

DATE OF LAST REPORTABLE ACCIDENT/INJURY:
JANUARY 22, 2019

DAYS SINCE LAST REPORTABLE ACCIDENT/INJURY:
37 DAYS



Safety

NEXT MONTH'S SCHEDULE OF STAFF TRAINING/SAFETY EVENTS :

- Safety Tailgates will be conducted at the Thursday weekly staff briefings.
- Safety Tailgates will be conducted at the monthly Administrative staff meetings.
- Hazwoper training scheduled for February 2019.

Communications

- Continued marking VWRA's 40th anniversary in social media etc.
- Maintained VWRA website and social media sites including Facebook & Twitter.





Communications

ACTIVITIES

- Attended San Bernardino County Operational Area Coordinating Council



- Led 2 tours for approximately 30 foreign exchange students.



- Represented VWRA at farewell for SB Co Fire Chief Mark Hartwig



- Spoke to students at Lewis Center in Apple Valley about careers in wastewater