

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 15, 2018 **TIME: 8:00 AM (Closed Session)**
8:30 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.

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

- 1. Flow Diversion**
- 2. Potential Litigation-Claim against City of Hesperia**

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

- 3. Threatened or Pending Litigation- Upper Narrows Project**
- 4. Threatened or Pending Litigation- Subregionals**

CONFERENCE WITH LEGAL COUNSEL-REAL PROPERTY NEGOTIATOR (Govt. Code Sec. 54956.8)

- 5. Agency Negotiators: Logan Olds, General Manager; Piero Dallarda, Best Best Krieger
Negotiating Party/Parties: Anaergia, Arun Sharma
Under Negotiation: Real Property**

REGULAR SESSION

CALL TO ORDER & PLEDGE OF ALLEGIANCE

REPORT FROM CLOSED SESSION

PUBLIC COMMENTS – REGULAR SESSION AGENDA

ANNOUNCEMENTS AND CORRESPONDENCE:

- 6. Possible conflict of interest issues**
- 7. Article: OC Agencies set Guinness World Record Title for Most Wastewater Recycled into Drinking Water in 24 Hours**
- 8. Staff Introductions- New Hire**

CONSENT CALENDAR:

- 9. Approve February 2018 Disbursement Registers**
- 10. Approve Minutes from the February 15, 2018 Regular Meeting**
- 11. Recommendation to Ratify Low Voltage Power Emergency Purchases**

ACTION & DISCUSSION ITEMS:

- 12. Request Permission to Enter Into a Maintenance Service Agreement With Wastewater Solids Management**
- 13. Spring Valley Lake CSD Exploratory Group**
- 14. Recommendation to Request Additional Funding For the Professional Services of Dr. Almgren to Perform an Analysis of the Financial Impact of Flow Diversion**
- 15. Recommendation to Approve Resolution 2018-02: To Amend Billing Percentages and Approve Flow Billing Adjustments Relating to the Flow Monitoring Results as Measured by ADS Environmental Services, Inc.**
- 16. Recommendation to Approve Change Order No. 7 For the Hesperia Subregional**
- 17. Recommendation to Approve Change Order No. 8 For the Apple Valley Subregional**
- 18. Recommendation to Approve Amended MWH Contract**

STAFF/PROFESSIONAL SERVICES REPORTS:

- 19. Financial and Investment Report – February 2018**
- 20. Operations & Maintenance Report – February 2018**
- 21. Environmental Compliance Department Reports – February 2018**
- 22. Septage Receiving Facility Reports – February 2018**
- 23. Safety & Communications Report – February 2018**

NEXT VVWRA BOARD MEETING:

Thursday, April 19, 2018– Regular Meeting of the Board of Commissioners

FUTURE AGENDA ITEMS

Leave Policy

COMMISSIONER COMMENTS

ADJOURNMENT

VVWRA Regular Meeting Agenda

Thursday, March 15, 2018

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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.

PRESS RELEASE



FOR IMMEDIATE RELEASE

(Images available upon request)

**OC Agencies set GUINNESS WORLD RECORDS™ Title for
Most wastewater recycled into drinking water in 24 hours**

***Groundwater Replenishment System Celebrates 10th Anniversary with Record and
Community Event Attended by Hundreds***

FOUNTAIN VALLEY, CA (February 16, 2018) – The Orange County Water District (OCWD) and Orange County Sanitation District (OCSD) today succeeded in the attempt to set a GUINNESS WORLD RECORDS™ title for the *Most wastewater recycled to drinking water in 24 hours*.

The GUINNESS WORLD RECORDS title was achieved by the Groundwater Replenishment System (GWRS), which is the world’s largest water purification facility of its kind. This achievement commemorates the 10th anniversary of the facility, a collaboration between the two districts.

“Recycling wastewater is critical to protecting and effectively managing our local water supplies at a time when we are facing extreme weather and droughts,” said OCWD President Denis Bilodeau. “We hope this achievement will raise awareness and better understanding of the importance of facilities like the GRWS because the potential of water recycling in California, and around the world, is tremendous.”

“This is a time to celebrate and learn about this proven technology that is so vital to sustaining our communities and our natural environment,” said OCSD Board Chairman and GWRS Steering Committee Vice-Chair Greg Sebourn. “We have the technology now to produce safe drinking water that ensures long-term reliability of local supplies.”

The GUINNESS WORLD RECORDS title attempt to produce the most wastewater recycled into drinking water in 24 hours started at 3:30 p.m. on Thursday, Feb. 15. The successful completion of the GUINNESS WORLD RECORDS title attempt was announced Friday, Feb. 16, during the Winter Fest, a public event that was held at the GWRS facility. The celebration included a community toast with recycled water from the facility.

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“This was an incredible attempt that impacted the local community and environment. It provided perspective on the process of making water safe for consumption,” said Philip Robertson, official GUINNESS WORLD RECORDS adjudicator. “We congratulate the efforts of Orange County Water District and Orange County Sanitation District and welcome them into the Guinness World Records family.”

Currently, regulations limit the use of advanced purified water to replenish groundwater basins even though the GWRS facility creates water that exceeds state and federal drinking water standards. California law AB 2022, adopted in 2016, seeks to expand the public’s awareness of water treatment advancements by allowing agencies such as OCWD to bottle highly purified recycled water to be handed out for free as an educational tool. The water is so pure, it is near-distilled in quality. The awareness effort is occurring as the state marches toward direct potable reuse of this water.

Around the world there are facilities similar to the GWRS, but the Orange County facility is considered the largest of its kind. The GWRS currently produces 100 million gallons a day of highly purified recycled water to inject into the Orange County Groundwater Basin, managed by OCWD, to increase local drinking water supplies and to prevent seawater intrusion. Work will soon be under way to expand its capacity to produce 130 million gallons a day of purified recycled water—enough for 1 million people.

“For more than a century, California has relied on rivers like the Colorado and Sacramento for our water. Today, we demonstrated we have new rivers to utilize,” said renowned climate expert and scientist Bill Patzert, who emceed the celebration program. “It makes perfect sense to use the technology we have today to use the water we have right in our backyard and recycle it for drinking water.”

For more information about the GWRS, visit www.ocwd.com/gwrs.

About the Orange County Water District

The District is committed to enhancing Orange County’s groundwater quality and reliability in an environmentally friendly and economical manner. The following cities utilize the groundwater basin managed by OCWD and receive approximately 75 percent of their water supply from it: Anaheim, Buena Park, Costa Mesa, Cypress, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, Irvine, La Palma, Los Alamitos, Newport Beach, Orange, Placentia, Santa Ana, Seal Beach, Stanton, Tustin, Villa Park, Westminster, and Yorba Linda. For more information about the Orange County Water District and its board of directors, call (714) 378-3200 or visit www.ocwd.com.

About the Orange County Sanitation District

OCSD is a public agency that provides wastewater collection, treatment, and recycling for approximately 2.6 million people in central and northwest Orange County. OCSD is a special district that is governed by a 25-member Board of Directors comprised of 20 cities, four special districts, and one representative from the Orange County Board of Supervisors. OCSD has two operating facilities that treat wastewater from

OCWD, OCSD sets world record, Page 3

residential, commercial and industrial sources. For more information, about the Orange County Sanitation District visit www.ocsd.com or call (714) 962-2411.

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News media contacts:

Denis Wolcott, Dick Jones Communications: Denis@dickjones.com, 213-200-1563 (Contact for images, footage)


Gina Ayala, OCWD: Gayala@ocwd.com, 714-378-3323

Rebecca Long, OCSD: Rlong@ocsd.com, 714-593-7444



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

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DATE: February 28, 2018
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 2018, check numbers 121411- 121471 and ACH's.

<i>Accounts Payable</i>			
<i>Checks</i>	<i>ACH's and EFT's</i>	<i>Payroll</i>	<i>Total</i>
<i>\$96,540.77</i>	<i>\$948,870.52</i>	<i>\$262,794.08</i>	<i>\$1,308,205.37</i>

Victor Valley Reclamation Authority
Cash Disbursement Register
From 2/1/18 through 2/28/18

Check Number	Check Date	Effective Date	Fund Code	Vendor Name	Transaction Description	Invoice Number	Check Amount
121411	2/1/2018	2/1/2018	01	2G Energy Inc.	Smoke Detectors	415-081700905	\$ 522.66
121412	2/1/2018	2/1/2018	01	Liberty Utilities- Apple Valley Ranchos Water	AV Subregional Water- Otoe	01242018	\$ 101.26
121413	2/1/2018	2/1/2018	01	Battery Mart	BATT000 Credit 266379	266379	\$ (963.74)
121413	2/1/2018	2/1/2018	01	Battery Mart	Golf Cart Batteries	266374	\$ 1,066.21
121414	2/1/2018	2/1/2018	01	Big Bear Electric, Inc.	Emergency Call Out	890	\$ 1,010.00
121415	2/1/2018	2/1/2018	01	Blackline Safety Corp	Loner Device Lease	INV2007420	\$ 210.00
121416	2/1/2018	2/1/2018	01	Charles P. Crowley Company, Inc	TP Pump Parts	24400	\$ 590.26
121417	2/1/2018	2/1/2018	01	City Employees Associates	Supervisors Association Dues	01232018	\$ 50.00
121418	2/1/2018	2/1/2018	01	C.S. Amco	Swing Check Valve	13219	\$ 902.02
121419	2/1/2018	2/1/2018	01	Daily Press	Pretreatment Program Notice	300139621	\$ 131.50
121420	2/1/2018	2/1/2018	01	Edenbros, Llc	Annual Calibration	200602664	\$ 236.42
121421	2/1/2018	2/1/2018	01	Fastenal	Maintenance Consumables	CAVIC56279	\$ 374.41
121422	2/1/2018	2/1/2018	01	Golf Cars Of Riverside	Brake Shoe Set	08988	\$ 503.46
121423	2/1/2018	2/1/2018	01	Hi-Desert Communications	Site Rent	37566	\$ 100.00
121424	2/1/2018	2/1/2018	01	Misco - T.W. Associates	Velocity Logger	123795W	\$ 3,660.42
121425	2/1/2018	2/1/2018	01	Orkin	Pest Control	165474776	\$ 381.53
121426	2/1/2018	2/1/2018	01	Prudential Overall Supply	Uniform Service	22547507	\$ 418.40
121426	2/1/2018	2/1/2018	01	Prudential Overall Supply	Uniform Service	22551069	\$ 418.40
121426	2/1/2018	2/1/2018	01	Prudential Overall Supply	Uniform Service	22554649	\$ 421.39
121427	2/1/2018	2/1/2018	01	Quantum Labs, Inc	Gloves	INV-393085	\$ 538.00
121428	2/1/2018	2/1/2018	01	Quincy Compressor	Compressor Parts	868053	\$ 2,066.83
121429	2/1/2018	2/1/2018	01	Safety-Kleen Systems Inc.	Solvent Disposal	75612789	\$ 1,364.88
121430	2/1/2018	2/1/2018	01	Southern Counties Lubricants	Chevron Oils	358912	\$ 1,838.09
121431	2/1/2018	2/1/2018	01	Sparling Instruments, Inc.	Mag Meter Electronics	10477201	\$ 1,533.44
121432	2/1/2018	2/1/2018	01	S.P.S. Engineering, Inc.	Grit Classifier	A10205-17b	\$ 2,620.00
121433	2/1/2018	2/1/2018	01	United Rentals Northwest, Inc	Reach Lift Rental	153557128-001	\$ 881.64
121434	2/1/2018	2/1/2018	01	Verizon Wireless	Wireless Telephone Charges	9798056248	\$ 1,728.99
121434	2/1/2018	2/1/2018	01	Verizon Wireless	Wireless Telephone Charges	9798056249	\$ 152.04
121434	2/1/2018	2/1/2018	01	Verizon Wireless	Wireless Telephone Charges	9799857578	\$ 1,862.51
121434	2/1/2018	2/1/2018	01	Verizon Wireless	Wireless Telephone Charges	9799857579	\$ 152.04
121435	2/1/2018	2/1/2018	01	City Of Victorville / Sanitation	Trash Service	2776791	\$ 4,273.91
121435	2/1/2018	2/1/2018	01	City Of Victorville / Sanitation	Trash Service	2812847	\$ 5,143.69
121436	2/1/2018	2/1/2018	01	Victor Valley College Foundation	Golf Tournament	102202017	\$ 1,000.00
121437	2/1/2018	2/1/2018	01	Whitson Cm	ERA Level 2 Action Plan	201712.96	\$ 3,000.00
121438	2/1/2018	2/1/2018	01	Cintas Corporation	First Aid Supplies	5009502814	\$ 430.14
121439	2/14/2018	2/14/2018	01	Apple Valley Transfer & Storage Db	Document Shredding	3865	\$ 45.00
121440	2/14/2018	2/14/2018	01	Atmospheric Analysis And Consulting, Inc.	Repair Charge for Damaged Gauge	A-17905	\$ 570.00
121441	2/14/2018	2/14/2018	01	Flyers Energy, Llc	Gasoline	CFS-1554546	\$ 835.85
121442	2/14/2018	2/14/2018	01	G.A. Osborne Pipe & Supply	Piping Supplies	389630	\$ 364.50
121443	2/14/2018	2/14/2018	01	Hi-Desert Communications	Site Rent	37617	\$ 100.00
121444	2/14/2018	2/14/2018	01	International Society Of Automation	IT Survival Basics	1084875445	\$ 3,080.00
121445	2/14/2018	2/14/2018	01	KoFlo Corporation	Static Mixer	K-80015	\$ 147.00
121446	2/14/2018	2/14/2018	01	Orkin	Pest Control	166822282	\$ 381.53
121447	2/14/2018	2/14/2018	01	Prudential Overall Supply	Uniform Service	22558159	\$ 423.02
121447	2/14/2018	2/14/2018	01	Prudential Overall Supply	Uniform Service	22561845	\$ 419.76
121448	2/14/2018	2/14/2018	01	Roto-Rooter Plumbers	Mens Restroom Repairs	A13118010	\$ 218.00
121449	2/14/2018	2/14/2018	01	Royal Wholesale Electric	Processor Repair	6441-553771	\$ 9,203.80
121450	2/14/2018	2/14/2018	01	Sparklets Drinking Water	Bottled Water	14877093 020418	\$ 1,918.86
121451	2/14/2018	2/14/2018	01	ThurloWS Heating & A/C Inc.	ThurloWS Service	21764	\$ 2,379.23
121452	2/14/2018	2/14/2018	01	Town & Country Tire	Club Cart Tires	249025	\$ 782.32
121453	2/14/2018	2/14/2018	01	Whitson Cm	Storm Water Pollution Prevention Plan	201801.88	\$ 500.00
121454	2/14/2018	2/14/2018	01	Cintas Corporation	First Aid Supplies	5009841645	\$ 643.62
121455	2/22/2018	2/22/2018	01	Alpha Omega Septic Service	Pump and Dump	30947	\$ 9,000.00
121455	2/22/2018	2/22/2018	01	Alpha Omega Septic Service	Pump and Dump Activated Sewage Water	30953	\$ 9,000.00
121456	2/22/2018	2/22/2018	01	Liberty Utilities- Apple Valley Ranchos Water	Water Usage	02082018	\$ 758.80
121457	2/22/2018	2/22/2018	01	World Oil Environmental Services	Use Oil Disposal	1500-00293489	\$ 35.00
121458	2/22/2018	2/22/2018	01	Atmospheric Analysis And Consulting, Inc.	Lab Analysis	A-17959	\$ 1,336.00
121459	2/22/2018	2/22/2018	01	Big Bear Electric, Inc.	Demo Electrical at Old Ferric	931	\$ 1,980.00
121459	2/22/2018	2/22/2018	01	Big Bear Electric, Inc.	Replace Feeder to Bldg	930	\$ 5,115.84
121460	2/22/2018	2/22/2018	01	Blaine Tech Services, Inc.	Field Service	2BLRS-171024AP1	\$ 3,500.50
121461	2/22/2018	2/22/2018	01	City Employees Associates	Davis and Laari Dues Deduction	02212018	\$ 50.00
121462	2/22/2018	2/22/2018	01	Daily Press	Public Notice	1801-00004121	\$ 1,020.88
121463	2/22/2018	2/22/2018	01	Fastenal	Eye Sliphook	CAVIC56783	\$ 147.47
121464	2/22/2018	2/22/2018	01	Flyers Energy, Llc	Gasoline	CFS-1563556	\$ 902.87
121465	2/22/2018	2/22/2018	01	Jpr Systems, Inc.	Surge Protection	25358	\$ 611.50
121466	2/22/2018	2/22/2018	01	Konica Minolta Business Solutions	Printing Charges	9004295970	\$ 502.43
121467	2/22/2018	2/22/2018	01	Orkin	Bugs Control	166822283	\$ 381.53
121468	2/22/2018	2/22/2018	01	Prudential Overall Supply	Maint & Ops Uniform Service	22565412	\$ 427.31
121469	2/22/2018	2/22/2018	01	Quill Corporation	Legal Exhibit Dividers	4749954	\$ 35.49
121469	2/22/2018	2/22/2018	01	Quill Corporation	Office Supplies	4715249	\$ 183.86
121469	2/22/2018	2/22/2018	01	Quill Corporation	Office Supplies Color	4744091	\$ 86.38
121469	2/22/2018	2/22/2018	01	Quill Corporation	Office supplies Frame	4718051	\$ 80.65
121470	2/26/2018	2/26/2018	01	Donna Anthony	Retiree Health Benefit Allowance	ANTH022618	\$ 438.00
121471	2/26/2018	2/26/2018	01	Dan Sentman	Retiree Health Benefit Allowance	SENT022618	\$ 212.97
Total Checks							96,540.77
020118SWG	2/1/2018	2/1/2018	01	Southwest Gas Company	Natural Gas	01242018	\$ 1,150.95
021418SWG	2/14/2018	2/14/2018	01	Southwest Gas Company	Subregional Natural Gas- Appaloosa	020818	\$ 704.24
021418UPS	2/14/2018	2/14/2018	01	Ups	Express Shipping	0000615V7V048	\$ 24.51
021418UPS	2/14/2018	2/14/2018	01	Ups	Express Shipping	0000615V7V058	\$ 338.84
021418UPS	2/14/2018	2/14/2018	01	Ups	Express Shipping	0000615V7V068	\$ 222.67
02142018SWG	2/14/2018	2/14/2018	01	Southwest Gas Company	Subregional Nautral Gas- Fresno	02082018	\$ 25.00
022718CHAR	2/27/2018	2/27/2018	01	Charter Communications	Telephone Charges	02072018	\$ 4,839.15
022718SWG	2/27/2018	2/27/2018	01	Southwest Gas Company	AV Subregional Natural Gas- Otoe	292018	\$ 1,097.18
12779437	2/1/2018	2/1/2018	01	Verizon Wireless	Wireless Telephone Charges	9796264871	\$ (3,444.28)
18451-43737670	2/14/2018	2/14/2018	01	Dell Inc.	Precision Workstations	02022018	\$ 7,280.49
2175936	2/14/2018	2/14/2018	09	State Water Resources Control Board	NAVI SRF Loan Payment	12222017	\$ 258,151.05
2208872	2/14/2018	2/14/2018	01	Swrcb	Index No. 325715	SW-0147946	\$ 484.00
32495467	2/1/2018	2/1/2018	01	Hesperia Water District	Hesperia Subregional Water Usage- Fresno	01222018	\$ 1,036.58
3593173-1	2/1/2018	2/1/2018	01	A.D.S. Corp.	Flow Monitoring	12928.22-0118	\$ 8,333.28

**Victor Valley Reclamation Authority
Cash Disbursement Register
From 2/1/18 through 2/28/18**

Check Number	Check Date	Effective Date	Fund Code	Vendor Name	Transaction Description	Invoice Number	Check Amount
3593173-1	2/1/2018	2/1/2018	01	A.D.S. Corp.	Flow Monitoring	12928.22-1217	\$ 8,333.28
3593173-10	2/1/2018	2/1/2018	01	Grainger	Packing Seal	9674035564	\$ 184.22
3593173-10	2/1/2018	2/1/2018	01	Grainger	Security Sign	9644499346	\$ 72.75
3593173-11	2/1/2018	2/1/2018	01	Hach Company	Hach Credit 2148416	2148416	\$ (433.16)
3593173-11	2/1/2018	2/1/2018	01	Hach Company	Lab Supplies	10743316	\$ 723.67
3593173-11	2/1/2018	2/1/2018	01	Hach Company	Lab Supplies	10744825	\$ 236.79
3593173-11	2/1/2018	2/1/2018	01	Hach Company	Lab Supplies	10755131	\$ 582.08
3593173-12	2/1/2018	2/1/2018	01	Jwc Environmental	Rotor Assembly	90293	\$ 24,247.76
3593173-13	2/1/2018	2/1/2018	09	Mwh Constructors	Subregionals CM Services	1774440	\$ 69,522.18
3593173-13	2/1/2018	2/1/2018	09	Mwh Constructors	Subregionals CM Services	1778396	\$ 23,437.28
3593173-14	2/1/2018	2/1/2018	01	Principal Life Ins. Co.	Dental and Vision Insurance February	02012018	\$ 2,991.00
3593173-15	2/1/2018	2/1/2018	01	Protection One	Hesperia Subregional Appaloosa Protection One	120371853	\$ 842.20
3593173-16	2/1/2018	2/1/2018	01	Quinn Company	Belt Tension Gauge	PC8203967939	\$ 522.54
3593173-16	2/1/2018	2/1/2018	07	Quinn Company	Generator Rental	E7002407	\$ 12,592.45
3593173-17	2/1/2018	2/1/2018	09	Michael Baker International	WWTP Stormwater Containment System	1000888	\$ 430.00
3593173-18	2/1/2018	2/1/2018	01	Schaefer Consulting	Financial Software Consulting	2460	\$ 1,628.86
3593173-19	2/1/2018	2/1/2018	01	Teledyne Isco, Inc.	Sampler Parts	S020229962	\$ 1,282.87
3593173-2	2/1/2018	2/1/2018	01	American Express	American Express Charges December 2017	12282017	\$ 14,748.16
3593173-20	2/1/2018	2/1/2018	01	U.S.A. Bluebook	NTU Calibration	440544	\$ 292.03
3593173-21	2/1/2018	2/1/2018	01	Vision Internet Providers	Web Hosting	36100	\$ 243.10
3593173-22	2/1/2018	2/1/2018	01	Victor Valley Wastewater Employees Assoc	Employee Association Dues January 2018	01232018	\$ 575.00
3593173-23	2/1/2018	2/1/2018	01	West Coast Safety Supply	Sensor Calibration	36342	\$ 1,815.82
3593173-3	2/1/2018	2/1/2018	01	Applied Maintenance Supplies & Solution	Maintenance Consumables	96889167	\$ 681.96
3593173-4	2/1/2018	2/1/2018	01	Brenntag Pacific, Inc	Brenntag Credit BP1270040	BP1270040	\$ (405.00)
3593173-4	2/1/2018	2/1/2018	01	Brenntag Pacific, Inc	Ferric Chloride	BP1800300	\$ 5,213.29
3593173-4	2/1/2018	2/1/2018	01	Brenntag Pacific, Inc	Sodium Hypochlorite	BP1801062	\$ 2,147.42
3593173-5	2/1/2018	2/1/2018	09	Carollo Engineers, A Professional Corporation	Desert Knolls Wash Interceptor	0162538	\$ 9,486.00
3593173-5	2/1/2018	2/1/2018	09	Carollo Engineers, A Professional Corporation	Subregional ESDC	0162291	\$ 43,034.87
3593173-6	2/1/2018	2/1/2018	01	Crane Pro Services	Quarterly Crane Inspection	SBD001016172	\$ 1,480.00
3593173-7	2/1/2018	2/1/2018	01	D.K.F. Solutions Inc.	MSO Subscription	13669	\$ 350.00
3593173-7	2/1/2018	2/1/2018	01	D.K.F. Solutions Inc.	Tactical Communication	13686	\$ 1,810.00
3593173-7	2/1/2018	2/1/2018	01	D.K.F. Solutions Inc.	Tactical Communication	13687	\$ 460.00
3593173-8	2/1/2018	2/1/2018	01	Environmental Systems Research Institute, Inc.	ESRI Software Renewal	93999929	\$ 6,751.88
3593173-9	2/1/2018	2/1/2018	01	E.S. Babcock & Sons, Inc.	Lab Testing December 2017	01012018	\$ 19,217.00
3660663-1	2/14/2018	2/14/2018	01	2G Energy Inc.	Cylinder Head	415-081800048	\$ 1,771.72
3660663-1	2/14/2018	2/14/2018	01	2G Energy Inc.	Gasket	415-081800024	\$ 455.97
3660663-10	2/14/2018	2/14/2018	01	Culligan Water Conditioning	Water Softener	201802041401	\$ 470.00
3660663-11	2/14/2018	2/14/2018	01	Eec Acquisition Llc	Lab Dishwasher Repair	95044543	\$ 526.20
3660663-12	2/14/2018	2/14/2018	01	Energy Choice, Inc.	Spark Plug	INV05675	\$ 16,612.39
3660663-13	2/14/2018	2/14/2018	01	E.S. Babcock & Sons, Inc.	Lab Testing	01312018	\$ 19,953.00
3660663-14	2/14/2018	2/14/2018	01	Grainger	Safety Glasses	9637077869	\$ 180.27
3660663-14	2/14/2018	2/14/2018	01	Grainger	Security Sign	9670569715	\$ 72.75
3660663-15	2/14/2018	2/14/2018	01	Larry Walker Associates	Annual Reports	00054.49-1	\$ 2,198.75
3660663-16	2/14/2018	2/14/2018	01	Megrath Rentcorp	Admin Office Lease	1551208	\$ 3,658.12
3660663-17	2/14/2018	2/14/2018	01	Protection One	Protection One Monitoring	120807894	\$ 745.60
3660663-18	2/14/2018	2/14/2018	01	Trimax Systems	Troubleshooting	109064	\$ 1,202.67
3660663-19	2/14/2018	2/14/2018	01	Underground Service Alert Of Southern California	Dig Alert Charges	120180796	\$ 110.65
3660663-2	2/14/2018	2/14/2018	01	Adjusters International, Inc.	DHS/OIG Audit	VVWRA01-010	\$ 2,512.50
3660663-2	2/14/2018	2/14/2018	01	Adjusters International, Inc.	DHS/OIG Audit	VVWRA01-011	\$ 852.50
3660663-20	2/14/2018	2/14/2018	01	U.S.A. Bluebook	Gauge	474791	\$ 402.48
3660663-21	2/14/2018	2/14/2018	01	Vision Internet Providers	Web Hosting	36198	\$ 243.10
3660663-22	2/14/2018	2/14/2018	01	Waxie Sanitary Supply	Janitorial Supplies	77225247	\$ 1,336.62
3660663-23	2/14/2018	2/14/2018	01	Xylem Water Solutions	UV Totalcare Services	3556983857	\$ 29,900.00
3660663-3	2/14/2018	2/14/2018	01	Advanced Systems	Fleet Vehicle Wash	399	\$ 200.00
3660663-4	2/14/2018	2/14/2018	01	All Covered	Cisco ASA	823196	\$ 2,950.88
3660663-4	2/14/2018	2/14/2018	01	All Covered	FirePOWER Services	820401	\$ 2,283.91
3660663-5	2/14/2018	2/14/2018	01	Applied Maintenance Supplies & Solution	Bushing	96899471	\$ 25.30
3660663-6	2/14/2018	2/14/2018	01	Best, Best & Krieger, L.L.P.	CEQA Matters	814824	\$ 3,745.50
3660663-6	2/14/2018	2/14/2018	01	Best, Best & Krieger, L.L.P.	Contract Review	814822	\$ 3,055.50
3660663-6	2/14/2018	2/14/2018	01	Best, Best & Krieger, L.L.P.	Ethics and Governance	814826	\$ 157.50
3660663-6	2/14/2018	2/14/2018	01	Best, Best & Krieger, L.L.P.	Evaluation of Victorville Project	814823	\$ 8,190.00
3660663-6	2/14/2018	2/14/2018	01	Best, Best & Krieger, L.L.P.	FEMA Audit	814827	\$ 1,606.50
3660663-6	2/14/2018	2/14/2018	01	Best, Best & Krieger, L.L.P.	General- Retainer	814818	\$ 11,344.57
3660663-6	2/14/2018	2/14/2018	01	Best, Best & Krieger, L.L.P.	Labor Matters	814819	\$ 1,762.00
3660663-6	2/14/2018	2/14/2018	01	Best, Best & Krieger, L.L.P.	Lahontan Regional Water Quality Control Board	814825	\$ 472.50
3660663-6	2/14/2018	2/14/2018	01	Best, Best & Krieger, L.L.P.	Projects	814820	\$ 79.29
3660663-6	2/14/2018	2/14/2018	01	Best, Best & Krieger, L.L.P.	Public Contract Drafting	814821	\$ 1,562.00
3660663-7	2/14/2018	2/14/2018	01	Biogas Power Systems- Mojave, Llc	Biogas Project	VVWRA-18-02	\$ 64,119.27
3660663-8	2/14/2018	2/14/2018	09	Biogas Engineering	Battery Pod Pad	116	\$ 5,700.00
3660663-8	2/14/2018	2/14/2018	09	Biogas Engineering	Load Bank Design PM Hours	113	\$ 4,032.00
3660663-9	2/14/2018	2/14/2018	01	Brenntag Pacific, Inc	Ferric Chloride	BP1804601	\$ 4,383.01
3660666	2/14/2018	2/14/2018	01	Tarango, Michael	Training Mileage	09262017	\$ 197.29
3686828-1	2/23/2018	2/23/2018	01	All Covered	Firewall P2P	824743	\$ 2,362.50
3686828-10	2/23/2018	2/23/2018	01	Gierlich Mitchell, Inc.	Dominator Series Pump	15143	\$ 1,500.83
3686828-11	2/23/2018	2/23/2018	01	Ilink Business Management	Janitorial Services	151	\$ 2,569.76
3686828-12	2/23/2018	2/23/2018	01	Larry Walker Associates	2017 Local Limits Update	00054.47-2	\$ 3,960.00
3686828-12	2/23/2018	2/23/2018	01	Larry Walker Associates	NPDES Permit Renewal	00054.45-4	\$ 5,817.50
3686828-12	2/23/2018	2/23/2018	01	Larry Walker Associates	Regulatory Assistance	00054.49-2	\$ 2,102.50
3686828-13	2/23/2018	2/23/2018	01	Mc Master-Carr Supply Co.	Sling Hook	55739463	\$ 518.20
3686828-14	2/23/2018	2/23/2018	01	Msdsonline	MSDSonline HQ Account-Renewal	175605	\$ 2,858.00
3686828-15	2/23/2018	2/23/2018	07	Quinn Company	E005 Generator Rental	E70024	\$ 12,592.45
3686828-16	2/23/2018	2/23/2018	01	Reliant Water Technologies	Otoe Pump Station Aeration	11018	\$ 28,896.95
3686828-17	2/23/2018	2/23/2018	01	U.S.A. Bluebook	Loop Powered Indicator Transmitter	480617	\$ 500.06
3686828-17	2/23/2018	2/23/2018	01	U.S.A. Bluebook	Seametrics Insertion Mag Meter	480684	\$ 1,295.25
3686828-18	2/23/2018	2/23/2018	01	U.S. Bank	Cal Card Statement December 2017	12222017	\$ 6,203.28
3686828-19	2/23/2018	2/23/2018	01	Victor Valley Wastewater Employees Assoc	Employees Association Dues	02212018	\$ 550.00
3686828-2	2/23/2018	2/23/2018	01	Allmax Software, Inc.	Allmax Tech Support	23239	\$ 4,985.00
3686828-3	2/23/2018	2/23/2018	01	American Organics	Biosolids	021618-BIOSOLIDS	\$ 10,152.19
3686828-4	2/23/2018	2/23/2018	01	Solenis Llc	PRAESTOL K 260 FLB IBC 1000L	131262511	\$ 6,908.93
3686828-5	2/23/2018	2/23/2018	01	Brenntag Pacific, Inc	Ferric chloride water treatment	BP1808601	\$ 5,361.68
3686828-6	2/23/2018	2/23/2018	01	Caltrol, Inc.	Kit, Repair	CD99038530	\$ 415.62

**Victor Valley Reclamation Authority
Cash Disbursement Register
From 2/1/18 through 2/28/18**

Check Number	Check Date	Effective Date	Fund Code	Vendor Name	Transaction Description	Invoice Number	Check Amount
3686828-7	2/23/2018	2/23/2018	01	Diamond Environmental Services	Rremier Restroom	0001328423	\$ 262.39
3686828-8	2/23/2018	2/23/2018	01	D.K.F. Solutions Inc.	My Safety Officer-Monthly Subscription Fee	13713	\$ 350.00
3686828-9	2/23/2018	2/23/2018	01	Evoqua Water Technologies Llc	Bioxide	903428764	\$ 8,292.71
3693263-1	2/26/2018	2/26/2018	01	Billings, Richard	Retiree Heal Benefit Allowance	BILL022618	\$ 438.00
3693263-10	2/26/2018	2/26/2018	01	Randy Main	Retiroe Health Benefit Allowance	MAIN022618	\$ 438.00
3693263-11	2/26/2018	2/26/2018	01	Mark Mcgee	Retiree Health Benefit Allowance	MCGE	\$ 438.00
3693263-12	2/26/2018	2/26/2018	01	Lillie Montgomery	Retiree Health Benefit Allowance	MONTO226	\$ 438.00
3693263-13	2/26/2018	2/26/2018	01	L. Christina Nalian	Retiree Health Benefit Allowance	NALI022618	\$ 438.00
3693263-14	2/26/2018	2/26/2018	01	Nave, Patrick	Retiree Health Benefit Allowance	NAVE022618	\$ 438.00
3693263-2	2/26/2018	2/26/2018	01	Roy Dagnino	Retiree Health Benefit Allowance	DAGI022618	\$ 438.00
3693263-3	2/26/2018	2/26/2018	01	Tim Davis	Retiree Health Benefit Allowance	DAVI022618	\$ 438.00
3693263-4	2/26/2018	2/26/2018	01	Terrie Gossard Flint	Retiree Health Benefit Allowance	FLIN022618	\$ 249.30
3693263-5	2/26/2018	2/26/2018	01	Gillette, Randy	Retiree Health Benefit Allowance	GILL022618	\$ 438.00
3693263-6	2/26/2018	2/26/2018	01	Andrew Gyurcsik	Retiree Health Benefit Allowance	GYUR022618	\$ 438.00
3693263-7	2/26/2018	2/26/2018	01	Thomas Hinojosa	Retiree Health Benefit Allowance	HINO022618	\$ 438.00
3693263-8	2/26/2018	2/26/2018	01	Patricia J Johnson	Retiree Health Benefit Allowance	JOHN022618	\$ 183.34
3693263-9	2/26/2018	2/26/2018	01	Olin Keniston	Retiree Health Benefit Allowance	KENI022618	\$ 249.30
790695	2/14/2018	2/14/2018	01	Konica Minolta Business Solutions	Big Printer Lease	31429802	\$ 351.02
790695	2/14/2018	2/14/2018	01	Konica Minolta Business Solutions	Individual Printer Lease	31460795	\$ 662.95
82380696860329	2/1/2018	2/1/2018	01	Southern California Edison	Electricity	01172017	\$ 46,114.40
82380696860589	2/27/2018	2/27/2018	01	Southern California Edison	Electricity	02162018	\$ 39,581.26
83950026110589	2/27/2018	2/27/2018	01	Southern California Edison	Hesperia Subregional Electricity- Appaloosa	020918	\$ 5,851.95
83950027690585	2/27/2018	2/27/2018	01	Southern California Edison	Hesperia Subregional Electricity- Fresno	02092018	\$ 203.75
83977752890589	2/27/2018	2/27/2018	01	Southern California Edison	AV Subregional Electricity- Otoe	2918	\$ 4,334.15
91000018912154	2/14/2018	2/14/2018	01	Lincoln Financial Group	Life and Disability Insurance	3606968694	\$ 3,300.37
91000018912154	2/14/2018	2/14/2018	01	Lincoln Financial Group	Life and Disability Insurance	3606969495	\$ 100.66
						Total ACH & EFT	948,870.52

APPROVED
[Signature] 030518

Total Checks	96,540.77
Total ACH and EFT	948,870.52
Total Payroll - February 2018	262,794.08
Total	<u>1,308,205.37</u>

**MINUTES OF A REGULAR MEETING
REGULAR MEETING OF THE BOARD OF COMMISSIONERS
VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY (VWRA)
February 15, 2018**

CALL TO ORDER: Chair Jeff Rigney called the meeting to order at 8:00 am; in Conference Room D at Victorville City Hall, located at 14343 Civic Drive, Victorville California, with the following members present:

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

**Larry Bird, Alternate
Jeff Rigney, Vice Chair**

**Scott Nassif, Secretary
Jim Kennedy, Treasurer**

VWRA Staff and Legal Counsel:

**Logan Olds, General Manager
Kristi Casteel, Secretary to GM/Board
Piero Dallarda, Legal Counsel (BB&K)
Chieko Keagy, Contoller
Eugene Davis, O&M Manager**

**David Wylie, Safety & Communications Officer
Latif Laari, Business Applications Manager
Xiewi Wang, Senior Accountant
Robert Townsend, EC Inspector
Robert Coromina, Director of Administration**

Others Present:

**Nils Bentsen, City of Hesperia
Keith Metzler, City of Victorville
Greg Snyder, Town of Apple Valley
Carl Coleman, Mojave Water
Robert Deloach, Deloach & Associates
Jim Cox, City of Victorville**

**Doug Robertson, Town of Apple Valley
Lori Lamson, Town of Apple Valley
Brian Gengler, City of Victorville
Blanca Gomez, City of Victorville
Kimberly Cox, Helendale
George Harris, City of Victorville**

CLOSED SESSION

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 Nassif made a motion to enter into Closed Session.

REGULAR SESSION

CALL TO ORDER & PLEDGE OF ALLEGIANCE

Chair Rigney called the meeting to order at 9:09 am.

REPORT FROM CLOSED SESSION

PUBLIC COMMENTS- REGULAR SESSION AGENDA

ANNOUNCEMENTS AND CORRESPONDENCE:

4. Possible conflict of interest issues

Commissioner Nassif abstained from any disbursements to Napa Auto Parts.

5. Article: The Final Frontier? Astronauts Could Recycle Their Waste Into Protein Paste

6. Report: WaterWatts: A Modern Look at Wastewater Power-Metering Data

CONSENT CALENDAR:

7. Approve January 2018 Disbursement Registers

Commissioner Nassif abstained from any disbursements to Napa Auto Parts.

8. Approve Minutes from the January 18, 2018 Regular Meeting

9. Recommendation to Ratify Low Voltage Power Emergency Purchases

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

Chair Rigney: Yes

Commissioner Bird: Yes

Commissioner Nassif: Yes

Commissioner Kennedy: Yes

REPORTS & PRESENTATIONS:

10. Presentation: Organizational Performance Assessment- Robert A. DeLoach

Robert DeLoach gave a presentation on Organizational Performance for VVWRA

11. Presentation: Use of Connection Fees 2002-2009

Logan Olds gave a presentation on Use of Connection Fees

PUBLIC COMMENT

Blanca Gomez requested to speak after Reports & Presentations and made general public comments.

ACTION & DISCUSSION ITEMS:

12. Recommendation to Approve Accounting Software

Manager Olds stated that a firm has been selected for the accounting software that the finance department has been reviewing with the help of the Finance Committee. Tyler Technology, they are the low bid and also the firm that is desired by staff.

Chieko Keagy said the staff has been using the current program for the last ten years and we have come to the maximum capacity of this program, it is no longer suited for VVWRA's needs.

Commissioner Kennedy asked if this proposed software package would retain some of VVWRA's sub-systems?

Chieko Keagy stated that this software would tie into and is compatible with VVWRA's inventory and maintenance software.

Commissioner Kennedy made a motion to approve the Recommendation, seconded by Commissioner Nassif

Chair Rigney: Yes

Commissioner Bird: Yes

Commissioner Nassif: Yes

Commissioner Kennedy: Yes

13. Discussion: Flow Diversion and Withholding of Payment for Services Rendered by the City of Hesperia

VVWRA Regular Meeting Minutes
Thursday February 15, 2018
Page 4

There was a lengthy discussion by the Board regarding this matter. There was no action taken.

PUBLIC COMMENT

Joe Fuleute requested to speak; Chair Rigney allowed the public comment and asked that it be made after Item 13. Joe Fuleute made general public comments.

STAFF/PROFESSIONAL SERVICES REPORTS:

14. **Financial and Investment Report – January 2018**
15. **Operations & Maintenance Report – January 2018**
16. **Environmental Compliance Department Reports – January 2018**
17. **Septage Receiving Facility Reports – January 2018**
18. **Safety & Communications Report – January 2018**
19. **Construction Report – January 2018**

NEXT VVWRA BOARD MEETING:

Thursday, March 15, 2018 – Regular Meeting of the Board of Commissioners

FUTURE AGENDA ITEMS

Leave Policy

COMMISSIONER COMMENTS

ADJOURNMENT

APPROVAL:

DATE: _____
 Approved by VVWRA Board

BY: _____
 Scott Nassif, Secretary
 VVWRA Board of Commissioners



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

March 15, 2018

FROM: Chieko Keagy, Controller *OK*

TO: Logan Olds, General Manager

SUBJECT: Low Voltage Power and Failure of Standby Generators 1 and 2

RECOMMENDATION

Per Board direction in response to two low voltage power failure emergencies in May of 2017, which damaged standby generators 1 and 2, staff is bringing new expenses before the Board for ratification in the amount of \$12,592.45 that incurred during January and February of 2018.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel.

BACKGROUND INFORMATION

Please review the attached invoice for the January/February expenses. The attachment also shows the expenses incurred to date, \$509,474.62. The repair work has been delayed due to GE's scheduling. The staff will continue to incorporate the emergency generator switch gear with the plant standby generator switch gear. Staff believes VWVRA will complete the repairs to the standby and emergency generator systems by the March 12, 2018.

FINANCIAL IMPACT

Finance Approval:

Fund 01 or 07	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	01-02-545-6010 and 01-02-80-6000 From FY 2018 budget
Transfer Needed due to Insufficient Budget	Y [] N [X]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	\$ 0.00
Budget Remaining after the Recommendation	
Outside Funding Source if applicable	\$
Original Contract Amount	\$ 0.00

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)	
Transfer Needed due to Insufficient Budget	Y [] N []
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	
Outside Funding Source	\$
Original Contract Amount	\$

Change Order	Y[] N[]
Contract after Change	\$509,474.62

Change Order	Y[] N[]
Contract after Change	\$

RELATED IMPACTS

The staff will report progress toward resolving the damages caused by the low voltage power to equipment and ensure that backup power is available in the future if both standby generators are damaged.

E005 Emergency Expenses
As of 2/28/2018

Previous Expenses

Document Number	Document Date	Document Description	Posted Amount	ID	Fund	Account
05222017	5/22/17	Cal Card Charges May 2017	\$ 113.46	USBA000	01	8060
JE054217	6/1/17	Reclass BIGB000 587	\$ 720.00		01	6035
05222017	5/22/17	Cal Card Charges May 2017	\$ 246.72	USBA000	01	8060
17-0042	5/18/17	Emergency Labor for Backwash pumps/Gen hookup	\$ 617.52	DAVI003	01	6035
17-0043	5/18/17	Emergency Labor for Backwash pumps/Gen hookup	\$ 1,075.33	DAVI003	01	6035
05222017	5/22/17	Cal Card Charges May 2017	\$ 162.69	USBA000	01	8060
M00963	5/18/17	Troubleshoot Generator not Producing Volage	\$ 7,775.55	VALL002	07	6000
108799	5/25/17	Emergency Service Call	\$ 5,655.69	TRIM000	01	6035
JE053417	5/31/17	Reclass PACI004 1413398 and 1413400	\$ 1,981.96		01	7350
58225	5/24/17	Lucky Chaney	\$ 1,129.44	MORR000	01	6035
589	5/30/17	Emergency Labor	\$ 720.00	BIGB000	01	6035
3005139-0001	6/2/17	Generator 1000KW	\$ 4,457.60	JOHN009	07	6000
JE070217	7/12/17	Reclass JOHN009 3005139-0001	\$ 14,181.25		01	6000
JE063417	6/28/17	Reclass VALL002 B38543	\$ 48,378.54		01	6000
6441-538695	6/13/17	VFD Board for Sludge Lagoon Transfer Pump	\$ 3,384.60	ROYA000	01	6015
B38493	5/4/17	Troubleshoot Generator Failure	\$ 2,163.44	VALL002	07	6010
JE061817	6/22/17	Reclass ROYA000 6441-538695	\$ 257.91		01	6015
C10011822	6/22/17	Emergency Parts	\$ 1,902.03	DRAK000	01	6035
JE061917	6/22/17	Reclass PACI004 1413399	\$ 6,660.03		01	7350
S-7483	6/28/17	Unstable Unit	\$ 2,515.15	ABAC000	07	6020
0039942-IN	7/13/17	Generator Docking Station	\$ 17,538.07	ESLP000	07	6000
3005139-0002	6/30/17	Emergency Generator	\$ 11,181.25	JOHN009	07	6000
501302763	6/30/17	Emergency Service Commission	\$ 20,950.00	GEIN001	01	6035
JE064817	6/30/17	Reclass VALL002 B38493	\$ 10,367.50		01	6000
501330500	7/25/17	Main Switchboard Modifications	\$ 75,490.90	GEIN002	01	6000
205757	8/30/17	Emergency Service Used Gen BKR & Troubleshooting	\$ 28,739.08	GEIN002	01	6010
695	8/10/17	Otoe Pump Station Door Switch Failure	\$ 760.00	BIGB000	01	6035
B38953	8/23/17	Emergency Gen Service	\$ 2,850.00	VALL002	01	6010
E7002401	7/27/17	Generator Rental	\$ 12,592.45	QUIN002	07	6000
E7002402	8/24/17	Emergency Generator Rental	\$ 12,592.45	QUIN002	07	6000
M01173	7/29/17	Generator 1 Testing	\$ 11,320.25	VALL002	07	6010
E7002403	9/21/17	E005 Emergency Generator Rental	\$ 12,592.45	QUIN002	07	6000
e7002404	10/19/17	Emergency Generator Rental	\$ 12,592.45	QUIN002	07	7265
501445789	10/30/17	PSG Startup Field Service	\$ 16,351.06	GEIN001	01	6035
17-0175	8/22/17	E005 Generator Termination Cabinet	\$ 109,087.00	DAVI003	01	6060 (42,762.00) 6035 (66,325.00)
E7002405	11/16/2017	E005 Emergency Generator Rental	\$ 12,592.45	QUIN002	07	7265
E7002406	12/14/2017	E005 Emergency Generator Rental	\$ 12,592.45	QUIN002	07	7265
E7002407	1/11/2018	E005 Emergency Generator Rental	\$ 12,592.45	QUIN002	07	7265
			\$ 496,862.17			

New E005 Expenses

Document Number	Document Date	Document Description	Posted Amount	ID	Fund	Account
E700024	2/8/2018	E005 Emergency Generator Rental	\$ 12,592.45	QUIN002	07	7265
			\$ 12,592.45			

Total E005 Expenses to Date \$ 509,474.62



10006 Rose Hills Road
City of Industry, CA 90601
(562) 463-4000
www.quinncompany.com

SALES/RENTAL INVOICE

Make : CATERPILLAR INC.
Model : 1000KW
Serial No : 0SXC00893
Equipment No :
Machine ID No : PR2453 Meter Reading : 8344.0

PLEASE MAKE REMITTANCE TO: QUINN COMPANY P O Box 849665, Los Angeles, CA 90084-9665	
Invoice No.	E7002408
Invoice Date	02/08/2018
Payment Due Date	03/10/2018
Amount Due	\$12,592.45
Payment Terms	Net 30 Days
Credit Memo Amount	
Customer Account No	712270L
Contract No	E70024
Customer PO Number	14729

Please use Remittance Advice on last page of this Invoice.

BILL TO : VICTOR VALLEY WASTEWATER REC
* 20111 SHAY RD
VICTORVILLE, CA 92394

SHIP TO : WASTE WATER TREATMENT PLANT
VICTORVILLE, CA

Customer Contact: LOGAN OLDS

Quinn Sales Representative: JASON WONDOLLECK

Quinn Store Location: RIVERSIDE, 656 E. LA CADENA DR. RIVERSIDE, CA 92507 Ph. 951-683-5960

INVOICE DETAIL Contract Number: E70024 Contract Date: 07/02/2017 Invoice Date: 02/08/2018

QTY	DESCRIPTION	DAY	WEEK	4WEEK	PRICE
	ALL RENTAL ITEMS ARE TAXABLE LINE ITEMS WITH (T) ARE TAXABLE				
1.	ID NO: PR2453 SERIAL NO: 0SXC00893 1000KW GENERATOR - 1000KW HRS OUT: 8344.0	\$1,120	\$3,360	\$10,080	10,080.00
32	ID NO: CABLE 50' SERIAL NO: CABLE 50' CABLE 4/0 50' -	\$0	\$0	\$0	

QUINN POWER SYSTEMS APPRECIATES YOUR BUSINESS

WVWRA
FEB 13 2018

Rental Subtotal: 10,080.00

Miscellaneous Items

1	ENV REC FEE 2(T)				201.60
1	FIRE, THEFT & VANDALISM				1,411.20
	STATE 7.25% COUNTY 0.5% CITY 1% TOTAL TAX: 8.75%				899.65

Invoice Total: 12,592.45

Go Paperless. To receive your invoices and statements electronically, please visit our website at quinncompany.com.

CARB REGULATIONS Any on-road heavy-duty diesel, alternative-diesel, or off-road diesel vehicle, operated in California, may be subject to the California Air Resources Board In-Use On-Road (Truck and Bus) or In-Use Off-Road Diesel Vehicle Regulations. It therefore could be subject to exhaust retrofit or accelerated turnover requirements to reduce emissions of air pollutants. For more information, please visit the California Air Resources Board websites at <http://www.arb.ca.gov/dieselttruck> for the Truck and Bus Regulation or <http://www.arb.ca.gov/msprog/ordiesel/ordiesel.htm> for the Off-Road Regulation. Portable engines operated in California may require State or local air district permitting. Customer is responsible for any required air quality permits necessary to operate this equipment.

TITLE It is understood and agreed that title to and right of possession of any rental item(s) above shall remain vested in the seller until any indebtedness and all sums due or to become due from the customer, whether evidenced by note, book account, judgment or otherwise, shall have been fully paid, at which time ownership shall pass to the customer.

A FINANCE CHARGE OF 1.5% PER MONTH (18% PER ANNUM) will be charged on the past due balance. The past due balance represents all charges remaining unpaid on the closing date of the month following the invoice date. In the event of default in the payment of any amount due, and if the account is placed in the hands of any agency or attorney for collection or legal action, the purchaser agrees to pay finance charges equal to the cost of collection (as permitted by laws governing these transactions). When necessary, Quinn will invoke its repairman's lien pursuant to Sections 3051 and 3051a of the California Civil Code. Acceptance by the customer of the parts, service or equipment listed above is the customer's agreement to be bound by the credit and collection terms set forth above.

Bakersfield • City of Industry • Corcoran • Firebaugh • Foothill Ranch • Fresno • Lancaster
Oxnard • Paso Robles • Pomona • Salinas • Santa Maria • Sylmar • Tulare • Yuma, AZ

QUINN



10006 Rose Hills Road
City of Industry, CA 90601
(562) 463-4000
www.quinncompany.com

Make : CATERPILLAR INC.
Model : 1000KW
Serial No : 0SXC00893
Equipment No :
Machine ID No : PR2453
Meter Reading : 8344.0

SALES/RENTAL INVOICE

BILL TO : VICTOR VALLEY WASTEWATER REC
20111 SHAY RD
VICTORVILLE, CA 92394

SHIP TO : WASTE WATER TREATMENT PLANT
VICTORVILLE, CA

Customer Contact: *LOGAN OLDS*

Quinn Sales Representative: *JASON WONDOLLECK*

Quinn Store Location: RIVERSIDE, 656 E. LA CADENA DR. RIVERSIDE, CA 92507 Ph. 951-683-5960

INVOICE DETAIL

Contract Number: E70024

Contract Date: 07/02/2017

Invoice Date: 02/08/2018

QTY	DESCRIPTION	DAY	WEEK	4WEEK	PRICE
-----	-------------	-----	------	-------	-------

Date Out: 06/30/2017 Fri 07:00 AM

APPROVED TO PAY						
F	LO	CC	ACCT	PROJ	DEBIT	CREDIT
07	02	130	7265	E005	12,592.45	
BY		DATE				PO

RECEIVED
FEB 15 2018
BY: *[Signature]*

Billed for 4 weeks from 1/12/2018 7:00 AM thru 2/9/2018 7:00 AM

CUT HERE AND RETURN WITH REMITTANCE

VICTOR VALLEY WASTEWATER REC
20111 SHAY RD
VICTORVILLE, CA 92394

Account Number : 712270L
Purchase Order No : 14729
Payment Terms : Net 30 Days
Contract Number : E70024

Please send your Payment to:

Invoice No. : E7002408
Invoice Date : 02/08/2018
Due Date : 03/10/2018

Amount Due : **\$12,592.45**

Amount Paid :

QUINN COMPANY
PO Box 849665
Los Angeles, CA 90084-9665

Place this coupon in the return envelope with the mailing addresses clearly visible.



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
 15 March 2018

FROM: Logan Olds, General Manager *Lo*
TO: Board of Commissioners
SUBJECT: Solids Removal from Digesters 2&3

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to enter in to a professional maintenance services contract with Wastewater Solids Management Co. (WSMC) in an amount not to exceed \$22,960.00, twenty two thousand nine hundred and sixty dollars.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel, Eugene Davis, Manager of Operations and Maintenance, and Chieko Keagy, Controller.

BACKGROUND INFORMATION

Staff has continued to progress on identifying issues related to the re-commissioning of digesters 1-3. Digester 2 is approximately 1/3 full of solids and digester 3 is approximately ½ full of solids. In order to complete the structural and internal evaluation of the digesters they must be emptied. Staff has attempted to rent and purchase equipment to perform this task in the past without success. The material that remains is high in viscosity and does not lend itself to pumping without significant head pressure. Operationally adding water creates problems with drying the biosolids, volume in the storage lagoons, mixing and coning (a type of short circuiting). In each case WSMC was retained to complete the pumping and cleaning activities once staff got the digester levels as low as possible.

WSMC has the specialized equipment and knowledge to perform this task and has done so for VVWRA on three separate occasions in the past. Staff has not been able to identify additional maintenance service professionals to obtain multiple quotes for this type of project. Therefore it is staff's recommendation to proceed with WSMC to complete the task of draining and cleaning digesters 2&3. The cleaning of the digesters is not a public works contract under Public Contract Code section 1101 (a public work is generally defined as "erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind."). It is maintenance work (defined as "[r]outine, recurring, and usual work for the preservation or protection of any publicly owned or publicly operated facility for its intended purposes under Public Contract Code, § 22002(d)(1) and not subject to same public bidding requirements.

FINANCIAL IMPACT

Unbudgeted maintenance expense to 01-02-152-7132

Finance Approval:

Fund 01 or 07	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	01-02-152-7132
Transfer Needed due to Insufficient Budget	
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	0
Budget Remaining after the Recommendation	
Outside Funding Source if applicable	\$
Original Contract Amount	\$
Change Order	
Contract after Change	\$22,960

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)	
Transfer Needed due to Insufficient Budget	
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	
Outside Funding Source	\$
Original Contract Amount	\$
Change Order	
Contract after Change	\$

RELATED IMPACTS

VVWRA staff will be able to begin the structural inspections of digesters 2&3.



February 28, 2018

Mr. Eugene Davis
Operations and Maintenance Manager
Victor Valley Water Reclamation Facility
20111 Shay Rd.
Victorville, CA 92394
(760) 246-2638 x 287 phone
(760) 246-5194 fax
(760) 954-5006 cell
edavis@vwwra.com

Dear Eugene:

I would like to thank you for your continued interest in Wastewater Solids Management Company. We are a corporation with over 30 years cumulative experience in digester/lagoon cleaning and biosolids management. We are pleased to extend this quotation to you for the removal of solids from the digesters at the Victor Valley Water Reclamation Facility.

Above all else we are concerned with safety on the job and closely follow the OSHA rules and regulations set forth for maintenance activities. These procedures include lock out/tag out and confined space entry among others.

Attached is the requested quotation for digester cleaning and onsite solids removal services as well as an integrated agreement. Please note that prevailing wage determinations have been included. We anticipate a single mobilization with a four day project duration consisting of approximately two days per tank including set up, transfer to the second tank and tear down operations.

If you have any questions or require any further information, please advise by contacting (541) 547-3213 or (360) 901-4721. We look forward to this opportunity to work with you.

Respectfully submitted,

Victoria E. Prince
General Manager
Wastewater Solids Management Company
vickyprince@wastewatermanagement.com
www.wastewatermanagement.com

Enclosures: quotation / agreement

ADMINISTRATIVE OFFICE
P.O. BOX 430
YACHATS, OR 97498
(541) 547-3213 PHONE
(541) 971-4571 FAX

ACCOUNTING OFFICE
P.O. BOX 1327
LINCOLN, CA 95648

CORPORATE OFFICE
P.O. BOX 826
YERINGTON, NV 89447

Victor Valley WRF
Request for Quotation
Victor Valley Wastewater Facility-Digester Rehabilitation

🌐 QUOTATION DATE: FEBRUARY 28, 2018

🌐 Mobilization/Demobilization, each:	<u>\$ 2,510.00</u>
Digester Cleaning, #2:	<u>\$ 9,500.00</u>
Digester Cleaning, #3:	<u>\$ 10,950.00</u>
PROJECT TOTAL	<u>\$ 22,960.00</u>

🌐 Description:

🌐 Wastewater Solids Management Company will remove all sludge, grit, sand, rags, plastics, grease and other miscellaneous debris from the digesters to the adjacent sludge storage lagoons. Prior to handing over the digesters for cleaning, VVWRA personnel will have the level of the digester drawn down to the cone in Digester #2 and to just below the side access cover in Digester #3. All hatch covers will be removed by VVWRA personnel prior to the commencement of cleaning operations. WWSMC will hydro-wash the interior of the digester at the Victor Valley Water Reclamation Facility with the following provisions:

- 🌐 Digester #2 & #3: Diameter: 40'; sidewall depth: 37'
- 🌐 Digester #2 & #3: Cone Depth: 10'
- 🌐 Maximum solids volume, Digester #2: 90,000 gallons
- 🌐 Maximum solids volume, Digester #3: 190,000 gallons (20')
- 🌐 Material to be pumped to adjacent sludge storage lagoons
- 🌐 Prevailing wage determinations included

This will include all labor and materials except as listed below.

- 🌐 Victor Valley WRA will provide the following:
 - 🌐 Water available, 300 gpm/80 psi
 - 🌐 90 amps, 480 V, 3 phase power
 - 🌐 Sufficient storage area for sludge material
 - 🌐 Removal & replacement of access hatch covers
 - 🌐 Equipment necessary for offloading, placement of WWSM Co. equipment (backhoe or other).


Integrated Agreement
Between Victor Valley WRA and Wastewater Solids Management Co.

This agreement with attachments of addends, represents the entire and integrated agreement between Victor Valley WRA and Wastewater Solids Management Company and supersedes all prior negotiations, representations or agreements, written or oral. However, the proposal submitted by Wastewater Solids Management Company and related documents establish the background and framework in which the contract was prepared and do set forth the expectations of each party to the contract. This agreement may be amended only by written instrument signed by both Victor Valley WRA and Wastewater Solids Management Company.

Dated this the 28th day of February, 2018

Victor Valley WRA

Title




Wastewater Solids Management Co.
General Manager/Corporate Secretary

Title



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
 15 March 2018

FROM: Logan Olds, General Manager 
TO: Board of Commissioners
SUBJECT: Spring Valley Lake – CSD Exploratory Group

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to formally respond to programmatic and strategic questions, if asked to, by the Spring Valley Lake CSD - Exploratory Group. Should this occur VVWRA Staff would provide a draft of the correspondence to Legal Counsel, the City, Town and Special District Managers as well as to the Board for review prior to providing the written response to Mr. Shannon.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel.

BACKGROUND INFORMATION

The community of Spring Valley Lake has created a group to explore the creation of a Special District. Mr. Shannon sent the attached letter dated 14 February 2018 and staff met with Mr. Shannon on 26 February to discuss various options related to the treatment and conveyance of sewage, current status of the VVWRA JPA and its membership process. Staff informed Mr. Shannon that the comments made were for the purpose of identifying parameters for discussion but that any opinion offered did not represent a VVWRA Board position.

Mr. Shannon indicated that as the investigation in to a CSD continues that they may require formal correspondence with VVWRA for the purpose of addressing their questions. The requested information may exceed the parameters of a public information request which is why staff is requesting additional authority and identifying the positions involved with reviewing the correspondence.

FINANCIAL IMPACT

None

RELATED IMPACTS

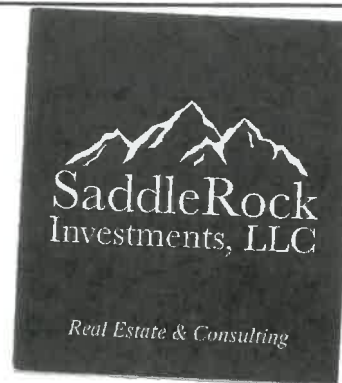
Unknown

SPRING VALLEY LAKE – CSD EXPLORATORY GROUP

February 14, 2018

Mr. Logan Olds
 VVWRA
 20111 Shay Rd.
 Victorville, CA 92394

VVWRA
 FEB 20 2018



Rory Shannon
 Managing Partner

9384 SVL Box
 Victorville, CA 92395
 c. 760. [REDACTED]
 f. 866.800.8235
 [REDACTED]@gmail.com

Dear Mr. Olds,

Residents of Spring Valley Lake/CSA 64 have recently formed a CSD Exploratory Group to investigate the feasibility of creating a CSD for the purpose of providing water, wastewater, trash and park services to our community. This is being done by residents and not the Homeowners Association. This would be a similar process as Helendale and Phelan/Pinon Hills has done. We are currently creating the feasibility study and will present to LAFCO if and when appropriate. Please keep in mind that this is in the feasibility stage only at this time.

Members of this group believe that exploring the option of local control is a valid conversation for our community understanding that the ultimate decision will be that of the community once LAFCO has completed its evaluation and the LAFCO Commission rendered a decision.

In order to fully examine the feasibility of a CSD we are in the process of gathering information. VVWRA is clearly a stakeholder in this process and upon formation of the new CSD will continue to handle the sanitation needs of a newly formed Spring Valley Lake CSD. With that in mind, the Spring Valley Lake CSD Exploratory Group is requesting to meet with you and any interested VVWRA Commissioners to discuss this process. We would like to meet with you as soon as possible.


We look forward to hearing from you soon.

Sincerely,

Rory J. Shannon
 Spring Valley Lake CSD Exploratory Group



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
 15 March 2018

FROM: Logan Olds, General Manager 

TO: Board of Commissioners

SUBJECT: Retention of Dr. Almgren to Assist with Resolution of Mediation Issues

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to increase the professional services of Dr. Almgren for tasks associated with resolving issues associated with the current mediation between parties in an amount not to exceed \$35,000.00, thirty five thousand dollars.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel and Chieko Keagy, Controller.

BACKGROUND INFORMATION

The mediator in connection with the flow diversion issues, Justice King, Ret., indicated that all parties involved in the mediation proceedings believe that there is a benefit to having an independent consultant look at the issues related to the costs that VVWRA has suffered as a result of the flow diversion from a financial perspective. To avoid any appearance of bias, Justice King, Ret., picked the consultant, Dr. Almgren. The Member Entities also agreed that VVWRA would be paying for Dr. Almgren's fees.

The Commissioners approved the professional services agreement with Dr. Almgren on 21 December 2017 in an initial amount of \$10,000.00 (Attached). At the time VVWRA was provided with an estimate by Justice King which ranged as high as \$40,000.00. On 20 February 2018 VVWRA received an invoice from Dr. Almgren (Attached) in the amount of \$32,788.19. This value exceeds the Boards authorized expenditure by \$22,788.19 but is within the range provided by Justice King. Staff recommends increasing the professional service contract to a value of \$35,000.00 to address any final questions that Justice King may request from Dr. Almgren. Staff believes that Dr. Almgren has concluded his work so there should not be any additional significant charges.

FINANCIAL IMPACT

Finance Approval:

Fund 01 or 07	
Accounting Code (String) example: 01-xx-xxx-xxxx (project code if any)	01-02-300-8175
Transfer Needed due to Insufficient Budget	Y [] N []
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	\$35,000.00
Budget Remaining after the Recommendation	
Outside Funding Source if applicable	\$
Original Contract Amount	\$35,000.00
Change Order	Y [] N []
Contract after Change	\$

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



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
21 December 2017

FROM: Logan Olds, General Manager *LO*
TO: Board of Commissioners
SUBJECT: Retention of Dr. Almgren to Assist with Resolution of Mediation Issues

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the General Manager to retain the professional services of Dr. Almgren for tasks associated with resolving issues associated with the current mediation between parties in an amount not to exceed \$10,000.00, ten thousand dollars.

REVIEW BY OTHERS

This recommendation was reviewed by Piero Dallarda, Legal Counsel and Chieko Keagy, Controller.

BACKGROUND INFORMATION

The mediator in connection with the flow diversion issues, Justice King, Ret., indicated that all parties involved in the mediation proceedings believe that there is a benefit to having an independent consultant look at the issues related to the costs that VVWRA has suffered as a result of the flow diversion from a financial perspective. To avoid any appearance of bias, Justice King, Ret., picked the consultant, Dr. Almgren. We understand that the Member Entities have no objection to retaining Dr. Almgren for the limited purpose identified by Justice King. The Member Entities also agreed that VVWRA would be paying for Dr. Almgren's fees.

FINANCIAL IMPACT

Finance Approval:

Fund 01 or 07	
Accounting Code (String) example: 01-xx-xxxx-xxxx (project code if any)	01-02-300-8175
Transfer Needed due to Insufficient Budget	Y [] N []
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	\$10,000.00
Budget Remaining after the Recommendation	

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (mandatory project code)	
Transfer Needed due to Insufficient Budget	Y [] N []
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	
Budget Remaining after the Recommendation	

HOWARD ALMGREN, Ph.D., P.E.
CIVIL ENGINEER

8583 Aero Drive, No. 1047
 San Diego, California 92123

cell: 760-305-2522
 e-mail: halmgren@hotmail.com

INVOICE

February 20, 2018

Victor Valley Wastewater Reclamation Authority
 20111 Shay Road
 Victorville, California 92394

Re: JAMS REF# 1220054043 Victor Valley Wastewater Reclamation Authority

Invoice No. 1 – December 4, 2017 to February 17, 2018

Scope of Services:

Meetings with Justice Jeffrey King on December 4th, February 6th and February 17th.
 Requested and researched documents.
 Prepared Draft Report No. 1 for Justice Jeffrey King.

Professional Services 107.0 hours at \$300.00/hour	\$32,100.00
Expenses per attached accounting	\$688.19
AMOUNT DUE – THIS INVOICE	<u>\$32,788.19</u>

Howard Almgren, Ph.D., P.E.
Civil Engineer
760-305-2522

JAMS REF# 1220054043 Victor Valley Wastewater Reclamation Authority

Almgren Work Product: No. 1
February 17, 2018

Brief Log of Activities to Date

1. The initial telephone contact was on November 27th.
2. On December 4th Almgren visited the JAMS office in Ontario. A general discussion of the situation was held and several documents were given to Almgren for reference.
2 hours
3. On December 4th the following three work items were given to Almgren as a proposed Scope-of-Work:
 - A. It is contended that from about January 1, 2014 to the present the City of Victorville has diverted flow from the VVWRA.
 - B. It is further contended that from January 1, 2014 to the present the City of Victorville has diverted connection fees from the VVWRA.
 - C. To the extent there has been a diversion of flow and/or connection fees from the VVWRA, what are the damages, if any, that have been sustained by the VVWRA?
4. On subsequent days Almgren reviewed some of the material he received; downloaded a few items from the internet; and reviewed Google Maps to get a general layout of the facilities involved.
8 hours
5. On December 15th Mr. Dallarda wrote that he had prepared a letter of engagement for Dr. Almgren but that the City of Victorville objected to part of the Scope-of-Work.
6. On December 21st there was a conference call with the counsels for the agencies involved. During the call Mr. Dallarda indicated he had received approval for the work of Dr. Almgren at a VVWRA Board Meeting.
1 hour
7. On December 22nd Almgren received an e-mail from Andre de Bortnowsky designating Brian Gengler, City Engineer, as the point of Contract for information from the City of Victorville.
8. On December 30th Almgren received an e-mail from Piero Dallarda designating Xiwei Wang as the VVWRA representative for obtaining VVWRA information.
9. On January 10th Mr. King and Almgren spoke about the time that has gone by and that I don't have a formal letter describing my Scope-of-Work, pay provisions, and contract administrative items concerning my assignment.

Howard Almgren, Ph.D., P.E.
Civil Engineer
760-305-2522

10. January 15th Almgren prepared a Log of Activities
2 hours
11. January 16th Almgren started writing a "Initial Request for Information"
6 hours
12. January 17th Almgren finished the request and sent it to both Points-of-Contact
6 hours - - - 25 total
13. January 22nd - e-mails with X. Wang
1 hour
14. January 23rd - reproduction at Staples and filing
2 hours
15. January 24th - reviewing documents
3 hours
16. January 25th - developing concept for damages
2 hours
17. January 26th - reproduction at Staples and review
2 hours
18. January 27th - typing up questions
3 hours
19. January 28th - started Budget book review & attorney Briefs
2 hours
20. January 29th - telephone call with Justice King and with Mr. X. Wang
2 hours - - - 42 total
21. February 1st - reproduction at Staples and filing
2 hours
22. February 2nd - reading VVWRA Budget books, making spreadsheet
3 hours
23. February 3rd - reviewing files on flows & interceptor map for measurement locations
4 hours
24. February 4th - additional spreadsheets
4 hours
25. February 5th - summarizing materials for meeting

Howard Almgren, Ph.D., P.E.
Civil Engineer
760-305-2522

5 hours - - - 60 total

26. February 6th – meeting in JAMS office in Ontario with Justice King
3 hours
27. February 7th – outlined report topics
2 hours
28. February 8th – received connection fees from City of Victorville, reviewing IWTP's permit & annual report
4 hours
29. February 9th – writing "Almgren's Report - #1"
6 hours
30. February 10th – writing "Almgren's Report - #1"
7 hours
31. February 11th – writing "Almgren's Report - #1"
7 hours
32. February 12th – writing "Almgren's Report - #1"
5 hours
33. February 13th - finished writing "Almgren's Report - #1", sent draft report to Justice King
4 hours
34. February 15th – analysis of connection fee schedule from City of Victorville, further analysis of flows and e-mail additional connection fee analysis to Justice King
4 hours
35. February 16th – phone calls with Justice King and preparations for meeting
2 hours
36. February 17th - meeting in JAMS office in Ontario with Justice King
3 hours

Total hours: 107

Prepared Invoice No. 1 – December 4, 2017 to February 17, 2018

Howard Almgren, Ph.D., P.E.
Civil Engineer
760-305-2522

EXPENSE ACCOUNT - Howard Almgren

Re: JAMS REF# 1220054043 Victor Valley Wastewater Reclamation Authority

Item No.	Date	Amount	Description	Receipt
1	12/4/2017	\$143.00	Mileage to JAMS office, December 4th - 220 miles @ 0.65/mile	no
2	1/23/2018	\$81.16	Staples - reproduction & supplies	yes
3	1/28/2018	\$59.86	Staples - reproduction & supplies	yes
4	2/1/2018	\$118.17	Staples - reproduction & supplies	yes
5	2/6/2018	\$143.00	Mileage to JAMS office, February 6th - 220 miles @ 0.65/mile	no
6	2/17/2018	\$143.00	Mileage to JAMS office, February 17th - 220 miles @ 0.65/mile	no
		\$688.19	TOTAL FOR DECEMBER 2017 to FEBRUARY 2018	

STAPLES

4240 Kearny Mesa Road Suite 120
SAN DIEGO, CA 92111
(858) 279-0355

SALE 1764696 13 005 05005
0266 01/23/18 01:47
QTY SKU PRICE

***** Customer Order 2097873436 *****

1	Posters *	
	2503349	29.93
1	Wide Format Exp *	
	2614598	8.97N
1	Documents *	
	1980563	17.29
1	Express Guarant *	
	2623897	5.18N

Questions on Customer Order 2097873436
Call Customer Service at 1-800-3STAPLES

1	STPLS STAN VIEW BN	
	718103198424	4.99
1	STPLS STAN VIEW BN	
	718103198387	4.99
1	STPLS STAN VIEW BN	
	718103216272	4.99
SUBTOTAL		76.34
Standard Tax 7.7500%		4.82
TOTAL		\$81.16

Visa Credit USD\$81.16
Card No.: XXXXXXXXXXXX9752 [C]
Chip Read
Auth No.: 01836C
AID.: A000000031010

TOTAL ITEMS 7

*Item is currently on promotion. Some coupons are only valid on regular priced items. Please see coupon terms and conditions for details.

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STAPLES

4240 Kearny Mesa Road Suite 120
SAN DIEGO, CA 92111
(858) 279-0355

SALE 1844710 13 005 05264
0266 01/26/18 03:43
QTY SKU PRICE

***** Customer Order 2097968892 *****

1	Documents	
	1980563	37.76
1	Express Guarant	
	2623897	11.32N

Questions on Customer Order 2097968892
Call Customer Service at 1-800-3STAPLES

1	STPLSSIAN VIEW BND	
	718103216371	7.29
SUBTOTAL		56.37
Standard Tax 7.7500%		3.49
TOTAL		\$59.86

CHASE VISA USD\$59.86
Card No.: XXXXXXXXXXXX5237 [C]
Chip Read
Auth No.: 07544C
AID.: A000000031010

TOTAL ITEMS 3

Staples brand products.
Below Budget. Above Expectations.

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SALE 1754696 13 005 05699
0266 02/01/18 03:24
QTY SKU PRICE

***** Customer Order 2098122376 *****

1	Documents 1980563	4.14
1	Documents 1980563	81.65
1	Express Guarant 2623897	1.24N
1	Express Guarant 2623897	24.49N

Questions on Customer Order 2098122376
Call Customer Service at 1-800-3STAPLES

SUBTOTAL 111.52
Standard Tax 7.7500% 6.65
TOTAL \$118.17

Visa Credit USD\$118.17
Card No.: XXXXXXXXXXXX9752 [C]
Chip Read
Auth No.: 00779C
AID.: A0000000031010

TOTAL ITEMS 4

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full program details or to enroll.



end for ~



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

March 15, 2018

FROM: Chieko Keagy, Controller *ck*
TO: Logan Olds, General Manager
SUBJECT: Resolution 2018-02 Reapportionment of Flow Billing Percentages

RECOMMENDATION

It is recommended that the Board of Commissioners approve Resolution 2018-02 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:
 Greg Snyder, Town of Apple Valley
 David Burkett, City of Hesperia
 Tim Millington, County of San Bernardino, Special Districts Department
 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 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 (<u>mandatory</u> 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. 2018-02

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 15th day of March 2018.

Russ Blewett, Chair
VVWRA Board of Commissioners

ATTEST:

APPROVED AS TO FORM:

Scott Nassif, Secretary
VWRA Board of Commissioners

Piero C. Dallarda of
Best, Best & Krieger LLP, VWRA 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 15, 2018.

Kristi Casteel – Clerk of the Board

EXHIBIT "A"

VYVRA
Flow Measured by ADS
June 2017


Date	Flows Measured by ADS										Flows not measured by ADS			ADS Unmetered Flow	Mfg 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 Totals	COVW WWTW Watermeter (mhd)				COVW WWTW Sludge (gpd)	CSA64 Park
6/12/2017	1,2040	0,6709	0,7430	2,6786	0,0110	0,7405	1,2770	3,0810	0,8270	0,0630	1,0170	11,5510	0,0000	0,0033	0,0033	10,4170	10,5810	-0,1640
6/22/2017	1,2040	0,6679	0,7270	2,0780	0,0110	0,7110	1,2960	3,0540	0,8180	0,0630	1,0120	11,5190	0,0000	0,0033	0,0033	10,3970	10,3740	0,0230
6/29/2017	1,2010	0,6790	0,6670	2,1180	0,0110	0,7280	1,2970	3,1140	0,8480	0,0630	1,0090	11,6540	0,0000	0,0033	0,0033	10,3390	10,3260	0,0130
6/29/2017	1,2080	0,6690	0,6640	2,0660	0,0120	0,7000	1,2740	3,1090	0,8650	0,0630	1,0480	11,7900	0,0000	0,0033	0,0033	10,7660	10,5770	0,0010
6/29/2017	1,2840	0,6810	0,6380	2,0570	0,0130	0,6550	1,4380	3,0590	0,8280	0,0660	0,8480	11,8790	0,0000	0,0033	0,0033	10,7880	10,4170	0,3710
6/29/2017	1,1840	0,6840	0,6380	2,0750	0,0120	0,7010	1,5930	3,0750	0,8140	0,0660	0,7150	11,9140	0,0000	0,0033	0,0033	10,5400	10,2070	0,3370
6/29/2017	1,1840	0,6720	0,6400	2,0890	0,0130	0,7040	1,5930	3,0370	0,8220	0,0660	0,7250	11,9140	0,0000	0,0033	0,0033	10,5620	10,3810	0,2540
6/11/2017	1,1810	0,6650	0,6670	2,0710	0,0110	0,6550	1,6410	3,0690	0,8440	0,0660	0,7640	11,6290	0,0000	0,0033	0,0033	10,6630	10,4780	0,1850
6/12/2017	1,1860	0,6600	0,6660	2,0470	0,0110	0,6990	1,5740	3,1250	0,8670	0,0680	0,7750	11,6760	0,0000	0,0033	0,0033	10,4720	10,5580	-0,0860
6/14/2017	1,1850	0,6520	0,6650	2,0660	0,0120	0,6820	1,5720	3,1470	0,8100	0,0680	0,7550	11,5850	0,0000	0,0033	0,0033	10,5320	10,4660	0,0640
6/15/2017	1,0550	0,6820	0,6660	2,0660	0,0140	0,6790	1,6150	3,1020	0,7740	0,0700	0,7900	11,4280	0,0000	0,0033	0,0033	10,6230	9,9590	0,6640
6/16/2017	1,2930	0,6820	0,6660	2,1000	0,0120	0,6550	1,6580	3,0880	0,7860	0,0710	0,7130	11,4280	0,0000	0,0033	0,0033	10,4950	10,2170	0,2760
6/18/2017	1,1350	0,6820	0,6660	2,1050	0,0140	0,6400	1,6580	3,0580	0,7950	0,0700	0,7300	11,6260	0,0000	0,0033	0,0033	10,3810	9,8400	0,7410
6/19/2017	1,0450	0,6820	0,6660	2,1020	0,0110	0,6730	1,6120	3,1010	0,8090	0,0710	0,7300	11,6260	0,0000	0,0033	0,0033	10,5670	9,9270	0,6990
6/20/2017	1,2820	0,6820	0,6660	2,0860	0,0130	0,6590	1,6120	3,1040	0,8160	0,0740	0,7460	11,5370	0,0000	0,0033	0,0033	10,4380	8,8720	1,5660
6/21/2017	1,1650	0,6790	0,6670	2,0870	0,0120	0,6540	1,6030	3,2060	0,8070	0,0760	0,7400	11,5370	0,0000	0,0033	0,0033	10,2570	9,6810	0,6160
6/22/2017	1,1450	0,6680	0,6670	2,0880	0,0120	0,6730	1,6270	3,1290	0,8120	0,0790	0,7350	11,5830	0,0000	0,0033	0,0033	10,4740	9,8150	0,6590
6/24/2017	1,2400	0,6680	0,6670	2,1100	0,0120	0,6680	1,6270	3,1780	0,8130	0,0780	0,7290	11,5830	0,0000	0,0033	0,0033	10,5590	9,9640	0,3950
6/25/2017	1,1580	0,6520	0,6670	2,1100	0,0110	0,6610	1,6550	3,2480	0,8250	0,0780	0,7550	11,7270	0,0000	0,0033	0,0033	10,3510	10,8570	-0,3960
6/25/2017	1,1580	0,6520	0,6670	2,1100	0,0110	0,6610	1,6550	3,2480	0,8250	0,0780	0,7550	11,7270	0,0000	0,0033	0,0033	10,3510	10,8570	-0,3960
6/27/2017	1,1720	0,6590	0,6660	2,1240	0,0130	0,6650	1,6290	3,1650	0,8180	0,0800	0,7460	11,6590	0,0000	0,0033	0,0033	10,7560	10,1360	0,5230
6/28/2017	1,1450	0,6890	0,6660	2,1300	0,0130	0,6700	1,6010	3,1680	0,7900	0,0790	0,7300	11,5310	0,0000	0,0033	0,0033	10,2250	10,1120	0,1130
6/29/2017	1,1520	0,6890	0,6660	2,1300	0,0130	0,6700	1,6010	3,1420	0,8090	0,0770	0,7300	11,5310	0,0000	0,0033	0,0033	10,8810	10,5230	0,5580
6/30/2017	1,2190	0,6420	0,6620	2,1050	0,0120	0,6510	1,6110	3,0800	0,8020	0,0750	0,7380	11,5710	0,0000	0,0033	0,0033	10,3260	10,2020	0,1770
Totals	3,3330	18,7650	1,9610	62,5660	0,3700	20,2620	45,8640	93,8650	26,6580	2,1440	23,4300	340,3130	0,0000	0,9983	0,1009	322,0500	299,0460	2,5160
																		Variance %
																		0,8141%

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



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

15 March 2018

FROM: Logan Olds, General Manager 

TO: Board of Commissioners

SUBJECT: Recommendation to approve FINAL Change Order No. 7 for the Hesperia Subregional Construction Project Contract #10943 with W.M. Lyles Co. of a net increase in the amount of \$157,227.17

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the approval of FINAL Change Order No. 7 for the Hesperia Subregional Construction Contract #10943 with W.M. Lyles Co. as dated 28 February 2018 in a net increase in the contract by the amount of \$157,227.17 for a contract total of \$34,146,511.39. There is no time impact in this Change Order. The proposed Change Order #7 is attached.

REVIEW BY OTHERS

This recommendation has been prepared by Logan Olds, General Manager and reviewed by the VVWRA Engineering Committee including Tim Millington, David Burket, Brian Gengler and Greg Snyder.

BACKGROUND INFORMATION

As requested by the Board all potential change orders for the Subregional Project are taken to the VVWRA Engineering Committee for review and comment. Upon review by the VVWRA Engineering Committee on March 5, 2018 it was the consensus of the members present to place this staff recommendation for Change Order No. 7 before the VVWRA Board for approval.

The Subregional Project in Hesperia has completed construction. The Hesperia portion of the overall project has reached Substantial Completion and VVWRA staff are currently performing operational testing. The total construction change order percentage for the Hesperia subregional is 2.79%; this is quite good when industry standard is at 10%.

This Change Order No. 7 contains multiple items. The numbering system of the items is based on the potential change order (PCO) tracking. Backup material is attached to the change order for each of the items. The original contract and Change Orders are shown in the following Table.

Change Order	Amount	% CO
1	0	0%
2	(\$82,532.28)	-0.25%
3	\$201,010.27	0.61%
4	\$154,027.13	0.46%
5	\$435,693.09	1.31%
6	\$61,086.01	0.18%
7	\$157,227.17	0.47%
Total	\$769,284.22	2.79%

This Change Order No. 7 deals with electrical items and staff requests for the WRP. Multiple RFI and Design Clarifications have been communicated through the construction team of VVWRA, Design Engineers, CM Consultant, General Contractor, and Sub-Contractors. Items come from conflicting information in the Bid Documents, requests from VVWRA Operations and Maintenance, and input for a better system from the Contractor. A summary of this Change Order Items follows:

Item No.	Description	Amount
52R	COH - DCM 100 - Deletion of Membrane Coating	\$ 25,307.10
73	COH - RFI 398 - Feed Forward Pumps Functionality	\$ 2,262.14
80	COH - Incorporation of safety shower flow switch signal into SCADA	\$ 1,655.13
83	COH - DC 121 4" Gas Main Addition	\$ 38,358.28
84	COH - RFI 356 Added Ethernet Switch for Cameras	\$ 1,194.65
86	COH - DC 122 VFD Wiring Modifications	\$ 13,426.11
87	COH - DC 114 - MBR Instrument Air Compressor Electrical Changes	\$ (1,036.50)
90	COH - DC 119 - Supervisory Relay Modifications	\$ 5,196.64
91	COH - DC 123 Damper & Make Up Air Unit Controls & FM 200	\$ 34,716.62
92	COH - Modifications to Process Drain Pump Station Level Indicating Transmitter	\$ 12,002.57
93	COH - Addition of a Dedicated Receptacle for PLC UPS	\$ 2,737.72
94	COH - MBR Basin 16" Knife Gate Valve Body Change	\$ 22,330.58
95	COH - Fiberglass Double Door Inactive Leaf Flush Bolt & Astragal	\$ 1,052.02
96	COH- DC-74R Modification to Water Heater Solenoid Valve Control Strategy	\$ 3,484.50
97	COH - Process Blower Intake Pipe Supports	\$ 10,908.52
98	COH - Bid Item B15 Bid Item B15 Credit for Unused Permit Fees	\$ (10,000.00)
99	COH - Bid Item B16 Credit for Unused Allowance - Line Item B16 MBR Electrical	\$ (5,439.95)
100	COH - Bid Item C1 Credit for Unused Allowance - Line Item C1 Owners Reserve	\$ (928.96)
TOTAL		\$ 157,227.17

The approved SRF loan includes contingency for this change order in the amount of \$2,222,795.00 of which \$1,385,041.00 has been requested to date. Of the approved state revolving fund change order contingency there will be a remaining balance of approximately \$680,526.00. VVWRA staff has been working with SRF staff to reallocate those remaining funds towards soft costs. As of 31 January 2018 there remained an additional \$4,662,055.00 to finalize costs (construction, construction management and engineering services) associated with the Hesperia subregional project.

The total of these items is a net increase of \$157,227.17 and no impact to the project construction time. The Change Order No 7 is attached with supporting documentation. Staff has reviewed and agrees with the items within this Change Order. The VVWRA Engineering Committee and VVWRA Staff met on October 5, 2017 to review the list of Potential Change Orders. Staff presented a summary and responded to the committee questions. The Committee evaluated the material and agreed that this Change Order 7 be presented to the Board for approval. As mentioned previously the project is well under a 10% construction change order contingency.

Staff recommends that the Board authorize the approval of Change Order No. 7 Hesperia Subregional Construction Contract #10943 with W.M. Lyles Co. as dated 28 February 2018.

FINANCIAL IMPACT

Finance Approval:

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

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (mandatory project code)	09-54-500-9000, C101
Transfer Needed due to Insufficient Budget	Y[] N[x]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	SRF Loan
Budget Remaining after the Recommendation	\$0
Outside Funding Source	\$44,522,846.00
Original Contract Amount	\$33,220,000.00
Change Order	Y[x] N[]
Contract after Change	\$34,146,511.39

The expense is an increase of \$157,227.17 to FY17/18 Budget Account, 09-54-500-9000, C101.

RELATED IMPACTS

The approved SRF loan includes contingency for this change order.

PCO # 52

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

**COH - DCM 100 - Deletion of
Membrane Coating**

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 09/08/2016
Submitted To: EADOC-VVWRA-Sub-R - Alton
Anderson, EADOC-VVWRA-Sub-R -
Andrew Gilmore, EADOC-VVWRA
-Sub-R - Grant Gourley
Status: Pending
Priority: Medium

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten

Created: 09/08/2016

Contractor's PCO #:

Reason: Owner Request

Requested By: Owner

Change Date:

Schedule ID:

Not to Exceed \$: 0.00

Set:

Approved Thru Last: 118,477.99

Amount Added: 25,507.82

New Approved Amount: 143,985.81

Current Contract Duration: 821

Days Added: 0

New Contract Duration: 821

Budget :

Funding:

Cost Item:

Locations

Element B1 - Hesperia WRP - Vol-05 - 03 - Membrane Filtration Basins

PCO # 52

Sub-Regional WRP Projects
 Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

References

Correspondence # 91	DCM 100 - Deletion of Membrane Coating	Closed
DCM # 100	DC 100 - Deletion of Membrane Coating Requirement	Closed

Contractor

Signature	Print Name	Date
-----------	------------	------

Construction Manager

Signature	Print Name	Date
-----------	------------	------

Owner

Signature	Print Name	Date
-----------	------------	------

PCO COH 052 - Evaluation Summary - OH&P				
Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ -		\$ -
2	Materials	\$ -		\$ -
3	Equipment	\$ -		\$ -
				\$ -
	Total	\$ -		\$ -
	Markup	\$ -	15%	\$ -
	Subtotal	\$ -		\$ -
Subs				
4	CorRay	\$ 24,052.63		\$ 20,735.03
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
	Subcontract Subtotal	\$ 24,052.63		\$ 20,735.03
	Subcontractro Bond & Ins	\$ 240.53	1%	
	Subtotal	\$ 24,293.16		\$ 20,735.03
	GC-Subcontractor Markup	\$ 1,214.66	5%	\$ 1,036.75
	Total	\$ 25,507.82		\$ 21,771.78
	Subcontractor OH&P		15%	\$ 3,110.25
	Subcontractor Bond & Ins		1%	\$ 207.35
	GC Bond & Ins	\$ 255.08	1%	\$ 217.72
	Total	\$ 25,762.90		\$ 25,307.10



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January 16, 2018

Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-52 Membrane Coating Deletion

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in RFI response 305 to delete the coating on the concrete within the membrane basins. The direction came after Cor-Ray Painting Inc. (CRP) had already completed the surface preparation of the concrete and ordered the specified material. CRP was able to return the specified material for a re-stocking fee. Their credit to eliminate the concrete coating within the Membrane Basin is attached titled PCO-004.

CRP was then directed within DCM100 to apply SikaSeal 107 to the walls of the Membrane Basins. This work was completed on a time and material basis and their backup is attached titled PCO-005.

The overall Cost for this change is:

CRP COR-004	<\$21,792.46>
CRP COR-005	\$45,845.10
WML Markup	\$1,202.63
WML Bond	\$252.55
Total	\$25,507.82
	\$25,307.10

WML does not expect any time impacts associated with this extra work. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley – WML Project Executive

Corporate Office: 1250 W. Olive, Fresno, CA 93728 Telephone: (559) 441-1900 • Fax (559) 487-7958

Bakersfield (661) 387-1600 | Fresno (559) 268-1540 | Temecula (951) 973-7393 | Sacramento (916) 375-1833 | Visalia (559) 651-1450



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ISO 9001:2008 Certified

August 31, 2016

CRPC Ref. 305367

W.M. Lyles

Attn: Bryan Case/Grant Gourley

Re: VVWRA Subregional Water Reclamation Plants Project

Subject: PCO-004 Credit for Membrane Coatings

Bryan/Grant

Reference is made to RFI 305 deleting the membrane basin coating at both sites from Cor-Ray Painting Company's (CRPC'S) scope of work. CRPC is offering the individual site credits below based on the SOV value and whether any work was performed. Please see the attached spreadsheets for calculations.

~~Apple Valley WRP Membrane Basin--~~

~~No work was performed at this site. Credit is based on original labor, materials and equipment plus profit and overhead.~~

~~AVWRP Membrane Basin Credit~~

~~\$40,524.81~~

Hesperia WRP Membrane Basin--

Abrasive blasting was performed on the concrete surfaces at this site. Additionally, material was ordered. A return freight and restocking fee was charged. Credit is based on original labor, materials and equipment plus profit and overhead.

Hesperia Membrane Basin Credit

\$21,792.46

~~Total Credit for PCO 004 is:~~

~~\$62,317.27~~

Please review and contact me if you have any questions.

Respectfully,

Craig R. Borel

Craig R. Borel

PROJECT NAME: HWRP-MEM BASIN CREDIT
 ESTIMATOR: BOREL
 DATE: 8/18/2016
 BID NUMBER WORK PERFORMED

ITEM	HOURS/GALS	UNIT	COST
LABOR	120	64	\$ 7,680.00
EQUIP		15	\$ 1,800.00
CONSUMABLES		2	\$ 240.00
INDIRECTS		4	\$ 480.00
MATERIAL-PAINT	1	0	\$ -
MATERIAL-ABR	17	295	\$ 5,015.00
TAX		9.00%	\$ 451.35
FREIGHT CHARGE FOR RETURNED MAT'LS	1	\$ 2,616.00	\$ 2,616.00
SUPER	6	75	\$ 450.00

COST SUBTOTAL			\$ 18,732.35	COST FOR WORK PERFORMED	\$ 18,732.35
MARGIN		0.00%	\$ -		
SELL			\$ 18,732.35		

PROJECT NAME: HWRP-MEM BASIN CREDIT
 ESTIMATOR: BOREL
 DATE: 8/18/2016
 BID NUMBER ORIGINAL ESTIMATE

ITEM	HOURS/GALS	UNIT	COST
LABOR	337	64	\$ 21,568.00
EQUIP		15	\$ 5,055.00
CONSUMABLES		2	\$ 674.00
INDIRECTS		4	\$ 1,348.00
MATERIAL-PAINT	1	4724.5	\$ 4,724.50
MATERIAL-ABR	17	295	\$ 5,015.00
TAX		9.00%	\$ 876.56
SUPER	16.85	75	\$ 1,263.75

COST SUBTOTAL			\$ 40,524.81		
MARGIN		21.05%	\$ 10,802.69	ORIGINAL MARGIN	\$ 10,802.69
SELL			\$ 51,327.50	SUBTOTAL	\$ 29,535.04
				BUDGET VALUE	\$ 51,327.50
				CREDIT	\$ 21,792.46

THE SHERWIN-WILLIAMS CO.
7613 SOMERSET BLVD
PARAMOUNT CA 90723 4129



SHERWIN-WILLIAMS

Visit www.sherwin-williams.com
Store 8544
(562) 531-1850
JOB 20 VVWRA

CHARGE
CORRECT
No. 6532-2



ACCOUNT: 6769-8623-4

APPRVL

PAGE 1 OF 1

PO# 305497

COR-RAY PAINTING CO
ATTN: ACCOUNTS PAYABLE
10114 SHOEMAKER AVE
SANTA FE SPGS CA 90670 3404

DATE: 04/19/2016
TIME: 12:54 PM
2-4954
E71/17385

(562) 447-2579

SALES NUMBER	SIZE	PRODUCT	DESCRIPTION	QTY	PRICE	VALUE
***** CHANGED FROM *****						
6403-88757	LG DRM	B65H910	SHFLEX BEIGE A	159	-33.00	-5,247.00
6403-88880	LG DRM	B65V910	SHFLEX B	53	-33.00	-1,749.00
SUBTOTAL BEFORE TAX						-6996.00
9.000%;1-059072300						-629.64
***** CHANGED TO *****						
5599-2211	EACH	RESTOCK00	RESTOCK ON RET GOODS	1	2,400.00	2,400.00
SUBTOTAL BEFORE TAX						2400.00
9.000%;1-059072300						218.00
***** CORRECTED TOTALS *****						

ORIGINAL
TERM: 17385
TRAN: 62162
DATE: 04/06/2016

Thank You
receipt required for refund

SUBTOTAL BEFORE TAX -4596.00
9.000% SALES TAX:1-059072300 -413.64
CORRECT SUBTOTAL -4596.00
TOTAL TAX -413.64
DUE CUSTOMER
CHARGE CREDIT \$-5009.64

RETURN

S-W SIGNATURE

IT'S OUR POLICY

- Customer satisfaction guaranteed on every product we sell.
- Merchandise (other than tinted paint) may be returned in good condition with proof of purchase within 30 days.
- Small deposit required on all special orders.
- 75% refund on returns of special ordered wallcovering. Sorry, cut rolls not returnable.
- Freight extra on blinds & wallpaper book orders.
- A service fee will be charged for all returned checks. See Store Manager for details.

Handwritten signature

305369

APR 21 2016



COR-RAY PAINTING CO.

Painting • Sandblasting • Fireproofing • Specialty Coatings
ISO 9001:2008 Certified

November 29, 2016

CRPC Ref. 305369

W.M. Lyles

Attn: Bryan Case/Grant Gourley

Re: VVWRA Subregional Water Reclamation Plants Project

Subject: PCO-005 HWRP Membrane Basin T & M Work (RFI 305 & DCM 100)

Bryan/Grant,

Cor-Ray Painting Company (CRPC) is requesting a change order for application of SikaSeal 107 to the Hesperia WRP membrane basin. Please reference RFI 305 and DCM 100. Documentation for material, labor and equipment is attached.

Total Request for PCO-005 is: \$45,845.10

Please review and provide a change order at your earliest convenience.

Respectfully,

Craig R. Borel

TIME & MATERIAL RECAP

DATE	09/28/16	OWNER INITIATED	X	REF# PCO-005			
JOB NO.	305369	CONTRACTOR INITIATED					
JOB NAME	VWVRA-VICTOR VALLEY (HESPERIA SITE)						
DESCRIPTION OF WORK	T & M MEMBRANE BASIN RECOATING-SIKATOP/HUB 100						
TICKET NO. (S)							
TICKET DATE(S)	2/23/16 - 3/3/16						
CRAFT LABOR	ST HR	ST RATE	OT HR	OT RATE	DT HR	DT RATE	AMOUNT
Painter Foreman	51	\$ 57.46	0	\$ 77.50	0	\$ 97.54	\$ 2,930.46
Painter	413	\$ 53.85	0	\$ 72.17	0	\$ 90.50	\$ 22,240.05

LABOR SUBTOTAL	\$25,170.51
LABOR MARK-UP	15% \$3,775.58
LABOR TOTAL	\$28,946.09

EQUIPMENT	QUAN REG	UOM	RATE	QUAN STD BY	UOM	RATE	
<small>(Caltrans Rental Rate in effect at the time work is performed)* All other equipment is CRPC owned equipment</small>							
Pick Up Truck*	128	HR	\$ 26.95	0	HR	\$ 21.56	\$3,449.60
Scaffold Rental	1	LS	\$ 1,377.69	0	LS	\$ -	\$1,377.69
185 CFM Compressor*	84	HR	\$ 87.11	0	HR	\$ 52.27	\$7,317.24
Canned Sand Blast Pot	0	HR	\$ 22.00	0	HR	\$ 17.60	\$0.00
Air Dryer	0	HR	\$ 30.00	0	HR	\$ 24.00	\$0.00
Water Blaster	8	HR	\$ 15.00	0	HR	\$ 15.00	\$120.00
20 KW Generator	0	HR	\$ 28.13	0	HR	\$ 16.88	\$0.00
Forklift*	0	HR	\$ 46.02	0	HR	\$ 32.21	\$0.00

EQUIPMENT SUBTOTAL	\$12,264.53
EQUIPMENT MARK-UP	15% \$1,839.68
EQUIPMENT TOTAL	\$14,104.21

MATERIAL	QUAN	UOM	RATE	
SikaTop Seal 107	48	KITS	\$46.45	\$2,229.60
Hub 100 II Grout	27	BAGS	\$0.00	\$0.00
Material 3	0		\$0.00	\$0.00
Material 4	0		\$0.00	\$0.00
Material 5	0		\$0.00	\$0.00
Material 6	0		\$0.00	\$0.00
Material 7	0		\$0.00	\$0.00
Material 8	0		\$0.00	\$0.00

(Material invoices will be used as primary form of billing)

Sales Tax	9.0% 200.664
MATERIAL SUBTOTAL	\$2,430.26
MATERIAL MARK-UP	15% \$364.54
MATERIAL TOTAL	\$2,794.80
SUBTOTAL	\$45,845.10
BOND	1% \$458.45
TOTAL	\$45,845.10

Date →	8/24/16	8/25/16	8/26/16	8/29/16	8/30/16	8/31/16	9/1/16	9/2/16	9/6/16	9/7/16	9/8/16	9/9/16	9/12/16	9/13/16	9/14/16	9/15/16	9/16/16	Totals
Ticket # →	4731	4821	4733	4815	4730	4732	3600	3631	3632	3604	3603	3605	3606	3607	3609	3608	3601	
LABOR CLASS																		
Painter Foreman	4	8	8		4	8	2		2	1	1	1	8			1	3	51
Painter		8	8	32	32	24	32	32	32	32	32	25	24	24	32	32	12	413
Overtime LABOR CLASS																		
Painter Foreman																		0
Journeyman Painter																		0
Double Time LABOR CLASS																		
Painter Foreman																		0
Journeyman Painter																		0
EQUIPMENT CLASS REG																		
Pick Up Truck*	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	4	128
Scaffold Rental	1																	1
185 CFM Compressor*				8		8	8	4	8	8	8	8	8	8		8		84
Canned Sand Blast Pot																		0
Air Driver																		0
Water Blaster		8																8
20 KW Generator																		0
Forklift*																		0
EQUIPMENT CLASS STD BY / DELAY																		
Pick Up Truck																		0
185 CFM Compressor																		0
935 Compressor																		0
Canned Sand Blast Pot																		0
Air Driver																		0
2500 CFM DH Unit																		0
20 KW Generator																		0
Forklift																		0
MATERIAL CLASS																		
SikaTop Seal 107				9	6					2	3	5	7	6		10		48
Hub 100 II Grout						5	5	2	9	6								27
Material 3																		0
Material 4																		0
Material 5																		0
Material 6																		0
Material 7																		0
Material 8																		0

**CALIFORNIA
SOUTHERN CA - LABOR RATES**

INDUSTRIAL / PREVAILING / FULL SCALE

@ 8/1/2016 till 6/30/2017

PAYROLL TAXES

TAXABLE WAGE	SUI	FICA	MEDICARE	FUI	WORKERS COMP	H & W	PENSION	APPR	LMCC	TOTAL
	6.20%	6.20%	1.45%	0.60%	5.70%	\$8.05	\$3.04	\$0.70	\$0.91	

\$14.25

JOURNEYMAN

REGULAR	32.52	\$1.55	34.07	2.11	2.11	0.49	0.20	1.94	8.05	3.04	0.70	0.91	53.64
OVERTIME	48.78	1.55	50.33	3.12	3.12	0.73	0.30	1.94	8.05	3.04	0.70	0.91	72.24
DOUBLE	65.04	1.55	66.59	4.13	4.13	0.97	0.40	1.94	8.05	3.04	0.70	0.91	90.85

FOREMAN

REGULAR	35.52	1.55	37.07	2.30	2.30	0.54	0.22	2.11	8.05	3.04	0.70	0.91	57.24
OVERTIME	53.28	1.55	54.83	3.40	3.40	0.80	0.33	2.11	8.05	3.04	0.70	0.91	77.57
DOUBLE	71.04	1.55	72.59	4.50	4.50	1.05	0.44	2.11	8.05	3.04	0.70	0.91	97.89

GENERAL FOREMAN

REGULAR	37.52	\$1.55	39.07	2.42	2.42	0.57	0.23	2.23	8.05	3.04	0.70	0.91	59.64
OVERTIME	56.28	1.55	57.83	3.59	3.59	0.84	0.35	2.23	8.05	3.04	0.70	0.91	81.11
DOUBLE	75.04	1.55	76.59	4.75	4.75	1.11	0.46	2.23	8.05	3.04	0.70	0.91	102.58

SUBSISTENCE: Up to \$70.00 / day

PCO # 73

Sub-Regional WRP Projects
Sub Regional WRP Projects



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COH - RFI 398 - Feed Forward Pumps Functionality

Type:	RFC - Request for Change	Submitted :	01/18/2017
Contract:	10943 - Hesperia	Submitted To:	EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Andrew Gilmore, EADOC-VVWRA -Sub-R - Grant Gourley
Contractor:	W M Lyles Co	Status:	Pending
ISO Currency Code:	USD	Priority:	Medium
Purchase Order:	Contract # 10943 - Hesperia	Pending On User:	EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Andrew Gilmore
		Pending On Org:	Victor Valley Wastewater Reclamation Authority, Carollo Engineers

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 01/18/2017

Contractor's PCO #:

Reason: Design Omissions
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last:	272,505.12
Amount Added:	2,497.23
New Approved Amount:	275,002.35
Current Contract Duration:	821
Days Added:	0
New Contract Duration:	821

Budget :
Funding:
Cost Item:

PCO # 73

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05

References

Correspondence # 118	RFI 398 - Feed Forward Pumps Functionality	Closed
RFI # 398	Feed Forward Pumps Functionality	Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

PCO COH 073 - AV 078 Evaluation Summary - OH&P				
Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ -		\$ -
2	Materials	\$ -		\$ -
3	Equipment	\$ -		\$ -
				\$ -
	Total	\$ -		\$ -
	Markup	\$ -	15%	\$ -
	Subtotal	\$ -		\$ -
Subs				
4	Trimax	\$ 2,150.00		\$ 1,853.45
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
	Subcontract Subtotal	\$ 2,150.00		\$ 1,853.45
	Subcontractor Bond & Ins	\$ 21.50	1%	
	Subtotal	\$ 2,171.50		\$ 1,853.45
	GC-Subcontractor Markup	\$ 108.58	5%	\$ 92.67
	Total	\$ 2,280.08		\$ 1,946.12
	Subcontractor OH&P		15%	\$ 278.02
	Subcontractor Bond & Ins		1%	\$ 18.53
	GC Bond & Ins	\$ 22.80	1%	\$ 19.46
	Total	\$ 2,302.88	COH	\$ 2,262.14
			AV	\$ 2,262.14



California Contractor's License No. 422390

Southern Division - **Temecula Office**
 42142 Roick Drive
 Temecula, CA 92590
 Telephone (951) 973-7393
 Fax (951) 698-3031

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January 18, 2017

Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: RFI 398 – Feed Forward Pump Logic Changes

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received RFI response 398 which require program changes to incorporate the feed forward routines. WML deems this change to be additional work and the cost associated with these changes will be ~~\$2,497.23~~. The breakdown of this amount is attached for your review.

~~\$2,497.23~~
\$2,262.14

Please review the items above and respond as soon as possible. If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

1/18/2017

X 

Grant Gourley
 Project Executive
 Signed by: Grant Gourley



COR – Change Order Request
Trimax Systems COR No. 33

To: Southern Contracting Company 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069 Attention: Steve Vickers	Date: January 6, 2017
	Job No.: P-2192
	Project: Victor Valley Wastewater Reclamation District Subregional Water Reclamation Plants
From: Marty McLaughlin	Date Required: January 30, 2017
	Supporting Docs: RFI 389
	Drawing Ref.: none
	Spec Ref.: none

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Fixed Price	\$4,300.00	NA	None

Subject: Feed Forward Pump Logic Changes

Summary: The following PLC panels require program changes to incorporate the feed forward routines:
Each of the following panels require this modification:

- Apple Valley WRP Main
- Hesperia WRP Main

The following is required:

- PLC Program changes
- Local HMI changes
- SCADA program changes
- Start-up and witness testing
- Testing documentation changes for start-up.

Please issue a change order for **\$4,300.00** for the above requested changes.
Trimax Systems, Inc. will proceed upon receipt of change order confirmation.

Trimax Systems, Inc. has excluded the following from this proposal:

- Any other material or labor that is not explicitly mentioned above as being provided

$\$4,300 \times 15\% = \$4,945 \times 1\% = \$4,994.45 / 2 = \$2,497.23$ ~~$\$2,497.23$~~ **\$2,262.14**

PCO # 80

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

COH - Incorporation of safety shower flow switch signal into SCADA

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 06/09/2017
Submitted To: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Andrew Gilmore, EADOC-VVWRA-Sub-R - Grant Gourley
Status: Pending
Priority: High
Pending On User: EADOC-VVWRA-Sub-R - Grant Gourley, EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Andrew Gilmore
Pending On Org: W M Lyles Co, Victor Valley Wastewater Reclamation Authority, Carollo Engineers

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 06/09/2017

Contractor's PCO #:

Reason: Design Omissions
Requested By:

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 708,198.21
Amount Added: 0.00
New Approved Amount: 708,198.21
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

PCO # 80

Sub-Regional WRP Projects
Sub Regional WRP Projects

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Locations

Element B1 - Hesperia WRP - Vol-05 - 05 - Operations Room

References

Correspondence # 129	RFI 437 Response	Closed
RFI # 437	FSH 3710	Closed

Contractor

Signature	Print Name	Date
-----------	------------	------

Construction Manager

Signature	Print Name	Date
-----------	------------	------

Owner

Signature	Print Name	Date
-----------	------------	------

PCO COH 080 Evaluation Summary - OH&P				
Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ -		\$ -
2	Materials	\$ -		\$ -
3	Equipment	\$ -		\$ -
				\$ -
	Total	\$ -		\$ -
	Markup	\$ -	15%	\$ -
	Subtotal	\$ -		\$ -
Subs				
4	Trimax	\$ 1,573.09		\$ 1,356.11
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
	Subcontract Subtotal	\$ 1,573.09		\$ 1,356.11
	Subcontractor Bond & Ins	\$ 15.73	1%	
	Subtotal	\$ 1,588.82		\$ 1,356.11
	GC-Subcontractor Markup	\$ 79.44	5%	\$ 67.81
	Total	\$ 1,668.26		\$ 1,423.92
	Subcontractor OH&P		15%	\$ 203.42
	Subcontractor Bond & Ins		1%	\$ 13.56
	GC Bond & Ins	\$ 16.68	1%	\$ 14.24
	Total	\$ 1,684.94	COH	\$ 1,655.13



California Contractor's License No. 422390

Southern Division - **Temecula Office**
42142 Roick Drive
Temecula, CA 92590
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Fax (951) 698-3031

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June 14, 2017

Victor Valley Wastewater Reclamation Authority
20111 Shay Rd.
Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: RFI 437 – Add New IO for Emergency Eyewash
PCO: COH-80

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from RFI response 437 to add additional IO for the Emergency Eyewash Station. WML deems this change to be additional work and the cost associated with these changes will be \$1,655.13. The breakdown of this amount is attached for your review.

Please review the items above and respond as soon as possible. If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Grant Gourley'.

Grant Gourley
Project Executive
W.M. Lyles Co.

**Trimax Systems, Inc.
Change Order Request**

Job Name	Customer P.O. Number
VVWRA Subregional Plants	T1139-50
To: Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069	Change Order Request: COR-39
Attn: Steve Vickers	Date: 6/1/2017
Description:	
Reference Trimax Systems' RFI-059, 5/31/2017	
At Hesperia WRP: Add one (1) new discrete input to the Headworks PLC, for FSH-3710 located at the emergency eyewash/shower station. An existing spare discrete I/O point will be used. Provide programming, documentation, testing to integrate the new I/O. The flow switch is provided by others.	

Material

Item	Description	Qty	Unit Price	Extended Price
1				\$0.00
2				\$0.00
Subtotal:				\$0.00
Markup:				15.00% \$0.00
Sales w/o Tax:				\$0.00
Sales Tax:				8.75% \$0.00
Total Material Cost:				\$0.00

Non-Taxable Labor

Item	Description	Resource	Hrs	Rate	Extended Price
1	Review and plan the changes described herein	Prog	1.00	160.00	\$160.00
2	Update PLC program to add new I/O	Prog	1.50	160.00	\$240.00
3	Add new point to local Operator Interface	Prog	1.00	160.00	\$160.00
4	Add new tag at SCADA, update displays	Prog	1.00	160.00	\$160.00
5	Update I/O wiring diagram	Des	1.00	110.00	\$110.00
6	Update Loop Diagrams	Des	1.50	110.00	\$165.00
7	Update test documents	Des	1.00	110.00	\$110.00
8	Loop testing	Eng	2.00	160.00	\$320.00
9					\$0.00
Total Non-Taxable Labor Cost:			10.00		\$1,425.00

Other Direct Costs

Item	Description	RT Miles	Qty	Unit Price	Extended Price
1	Mileage		1	\$0.62	\$0.62
2	Freight		1	\$0.00	\$0.00
3	Delivery to job site		1		\$0.00
4	Lodging				\$0.00
5	Per Diem			\$75.00	\$0.00
Total Other Direct Costs:					\$0.00

Complete price for the scope of work described herein: \$1,425.00

Markup 15% \$213.75
Bond 1% \$16.38
Total: \$1,655.13

Trimax Systems, Inc.
Change Order Request

Job Name	Customer P.O. Number
VVWRA Subregional Plants	T1139-50
To: Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069	Change Order Request: COR-39 Date: 6/1/2017
Attn: Steve Vickers	

Exclusions:

1. Flow Switch FSH-3710
2. Providing or installing any relay, accessory or panel modification(s) required to interface with the flow switch
3. Additional PLC I/O modules

This scope letter represents Trimax Systems, Inc. entire proposed scope of work. Unless otherwise noted, no goods or services, other than those specifically described herein, are included or implied.

Quoted prices are valid for 90 days.

If you have any questions regarding this matter, please contact the undersigned.

Very truly yours,

Scott Hoops
Project Manager
Trimax Systems, Inc.

Cell Ph. - 714-599-1062
scotth@trimaxsystems.com



REQUEST FOR INFORMATION (RFI)

Owner:	Victor Valley Wastewater Reclamation Authority	Date:	6/1/17
Contractor:	M W Lyles Co.	Project No.:	8229A.20
Project Name:	Subregional WRPs	RFI No.:	437
RFI Title:	FSH 3710	Spec/Dwg. Reference:	17301
Authored By:	MWH Constructors – Ted Luiten		

Information and Reason Requested

Overview:

Referring to FSH-3710 (C3710) on drawing 03-E-07, we have verified that it is not indicated in the P&ID drawings; then Trimax is considering this instrument as new DI to the Headworks PLC.

Information Requested:

Please confirm if it is required to incorporate FSH-3710 in the Headworks PLC, HMI, & SCADA (which implies also the drawings and related documentation update).

Also, please confirm in Apple Valley and Hesperia WRP Headworks panel requires to incorporate this FSH-3710 as well. Trimax will verify the cost impact and will be included in the corresponding COR quotation.

Authored By: MWH Constructors – Ted Luiten	Date Submitted: 6/1/17
---	-------------------------------

Response to Request:

This is for the eyewash shower in the lab which the Operation room area has no P&ID sheet. It was added in Addendum No. 4 (Hesperia WRP) and Addendum No. 6 (Apple Valley WRP).

It is required to incorporate FSH-3710 in the Headworks (Primary) PLC, HMI, & SCADA for both Apple Valley and Hesperia WRPs per Addendum 4 and Addendum 6.

The programming for FSH-3710 in the Headworks PLC shall indicate use of eye wash and shower; and an ALARM shall be displayed on the local HMI and at SCADA. The programming shall replicate the same programming as was done for Loop 8102 (FSH-8102A or B for chemical area eyewash).

The PLC programming and HMI/SCADA configuration are minor and should require only minimal effort.

In the event, Contractor believes the RFI response does or will cause a change to the requirements of the Contract, Contractor shall immediately give written notice stating that Contractor considers the response to be a Change Order.

Firm: Carollo Engineers Inc	Signature: Adam Nichols, Raymond Genato	Date Returned: 06/05/2017
------------------------------------	--	----------------------------------

If any submittal, RFI, or other document is reviewed by the Third-Party inspector, Engineer shall not be liable and/or responsible for such review and/or the consequences of such review. Engineer shall not be liable for changes made by and/or coordination with any submittals, RFIs or other documents not reviewed by Engineer.

PCO # 83

Sub-Regional WRP Projects
Sub Regional WRP Projects



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COH - DC 121 4" Gas Main Addition

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 08/23/2017
Submitted To: EADOC-VVWRA-Sub-R -
Alton Anderson, EADOC
-VVWRA-Sub-R - Grant
Gourley, EADOC-VVWRA-Sub
-R - Juan Castillo, EADOC
-VVWRA-Sub-R - Lynene
Voelker

Revision Date:
Status: Pending
Priority: High
Pending On User: EADOC-VVWRA-Sub-R -
Alton Anderson, EADOC
-VVWRA-Sub-R - Lynene
Voelker, EADOC-VVWRA-Sub
-R - Juan Castillo
Pending On Org: Victor Valley Wastewater
Reclamation Authority, Carollo
Engineers, W M Lyles Co

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 08/14/2017

Contractor's PCO #:

Reason: Design Omissions
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 48,493.00
Set:

Approved Thru Last: 708,198.21
Amount Added: 38,373.41
New Approved Amount: 746,571.62
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

16-27

PCO # 83

Sub-Regional WRP Projects
 Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05 - 00 - Yard / Site Facilities

References

DCM # 121	DC 121 - Hesperia Natural Gas Line Modifications	Closed
Correspondence # 135	DC 121 4" Gas Main	Closed

Contractor

Signature	Print Name	Date
-----------	------------	------

Construction Manager

Signature	Print Name	Date
-----------	------------	------

Owner

Signature	Print Name	Date
-----------	------------	------



California Contractor's License No. 422390

Southern Division - **Temecula Office**
 42142 Roick Drive
 Temecula, CA 92590
 Telephone (951) 973-7393
 Fax (951) 698-3031

www.wmlyles.com

An Equal Opportunity Employer

January 30, 2018

Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-83 DC 121 4" Gas Main

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in DC 121 to replace the existing gas main at the Hesperia WRP with a 4" gas main. WML deems this change to be additional work and the cost for this change is ~~\$38,373.41~~. The breakdown of this amount is attached.

~~\$38,358.28~~

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
 Project Executive
 W.M. Lyles Co.

W. M. Lyles Co.

Labor

Date	CF	Clead	Carp.	CA	FF	Fin.	LF	Lab.	LATO	MWF	MW	OE
01/02/2018							8	8				8
01/03/2018							8	8				8
01/04/2018							8	8				8
01/05/2018							9	9				9
01/08/2018							8	6				6
01/10/2018							6	6				7
01/11/2018							8	8				8
01/12/2018							6	5				5
Paint Pipe								16				
	0	0	0	0	0	0	61	74	0	0	0	59

Craft	Hours	Rate	Extension
Carp. Foreman	0	\$73.36	\$0.00
Carp. Leadman	0	\$71.35	\$0.00
Carpenter	0	\$69.34	\$0.00
Carp. Apprent.	0	\$53.53	\$0.00
Finisher Fore.	0	\$72.01	\$0.00
Finisher	0	\$67.99	\$0.00
Laborer Fore.	61	\$67.55	\$4,120.55
Laborer	74	\$65.22	\$4,826.28
Lab. Apprent	0	\$56.86	\$0.00
Millwright Fore.	0		\$0.00
Millwright	0		\$0.00
Operating Eng.	59	\$81.99	\$4,837.41
Total Labor =			\$13,784.24

Material

	Quantity	Unit	Price	Extension
Steel Pipe	1	Lot	\$662.00	\$662.00
Asphalt	1	Lot	\$140.00	\$0.00
Home Depot	1	Lot	\$87.00	\$87.00
Concrete	1	Lot	\$880.00	\$880.00
Slurry	1	Lot	\$600.00	\$600.00
HDPE Pipe	1	Lot	\$4,504.26	\$4,504.26
Johnson Cat	1	Lot		\$4,500.00
Total Material =				\$11,233.26

Equipment

Date	Trk	23T	BH	DT	EX	WTR TRK	Skip	FORK	950F	CHIP	GEN	COMPAC
01/02/2018	10				8							
01/03/2018	10				8							
01/04/2018	10				8		8					
01/05/2018	10				8		8					
01/08/2018	9				8		8					
01/10/2018	7				8		8					
01/11/2018	10				8		8					
01/12/2018	8						8					
	74	0	0	0	56	0	48	0	0	0	0	0

Equipment	Hours	Rate	Extension
Truck	74	\$21.50	\$1,591.00
23 Ton Crane	0		\$0.00
Backhoe	0	\$53.91	\$0.00
Dump Truck	0	\$21.00	\$0.00

Excavator	56	\$53.16	\$2,976.96
Water Truck	0	\$71.65	\$0.00
Skip Load	48	\$42.25	\$2,028.00
Fork Lift	0	\$64.11	\$0.00
950F Loader	0	\$70.52	\$0.00
Chipping Gun	0		\$0.00
Generator	0		\$0.00
Compactor	0		\$0.00
Total Equipment =			<u>\$6,595.96</u>

RECAPITULATION

Subcontractors: Dayton Welding	\$1,560.00
WML Markup 5%	\$78.00
W.M. Lyles Co.	
- Labor	\$13,784.24
- Material	\$11,233.26
- Equipment	\$6,595.96
Markup @ 15%	\$4,742.02
Bond @ 1%	\$379.93
	=====
TOTAL CHANGE ORDER REQUEST	\$38,373.41



Invoice: 25214
Date: 1/3/2018

Bill To

W. M. Lyles Co.
P.O. Box 4377
Fresno, CA 93744

Ship To

W. M. Lyles Co.
PO: 55-1139-92
Attn: Juan Castillo
14269 Mojave Street
Hesperia, CA 92345

Terms	Due Date	Your P.O. No.
Net 30	2/2/2018	55-1139-92
Via		F.O.B.
UPS - Ground		Factory

Qty	Item Code	Description	Price Each	Ordered	Prev. Inv.	Backorder	Amount
480	MDPE GAS PIPE	4" DR 11.5 MDPE GAS PIPE X 40'	6.25	480	0	0	3,000.00T
4	MDPE GAS BF	4" DR 11/11.5 MDPE GAS BF 90 ELBOW	45.00	4	0	0	180.00T
2	MDPE GAS FLANGE	4" DR 11.5 MDPE GAS FLANGE TRANSITION	267.00	2	0	0	534.00T
1	Freight	Freight Charges	502.42				502.42

Please send payment to

JPR Systems, Inc.
305 No. Berry Street
Brea, CA 92821
T. 714.674.9520
Email. accounting@jprsystems.com

Subtotal	\$4,216.42
Sales Tax (7.75%)	\$287.84
Total	\$4,504.26
Balance Due	\$4,504.26

Thank you for your business.



57573

Invoice:

25235

Date:

1/5/2018

Bill To

W. M. Lyles Co.
P.O. Box 4377
Fresno, CA 93744

Ship To

W. M. Lyles Co.
PO: 55-1139-55
14269 Mojave Street
Hesperia, CA 92345

RECEIVED

JAN 05 2018

Term Due Date Your P.O. No.

Net 30 2/4/2018 55-1139-55

Via F.O.B.

Best Way

Factory

Qty	Item Code	Description	Price Each	Ordered	Prev. Inv.	Backorder	Amount
1	2" 150# Flange	2" 150# Raised Face Slip-On flange (A105)	28.64	1	0	0	28.64T
1	4" x 2" Reducer		22.60	1	0	0	22.60T
1	2" Thread-o-let		22.00	1	0	0	22.00T
1	4" x 3" Concentric Reducer	(ASTM - A234)	15.50	1	0	0	15.50T
1	3" 90 elbow	(ASTM A234)	20.78	1	0	0	20.78T
4	4" 90 Elbow	Short Radius (ASTM - A234)	26.80	4	0	0	107.20T
2	4" 150# Flange	4" 150# Raised Face Slip-On Flange	41.00	2	0	0	82.00T
3	3" 150# Flange	3" 150# Raised Face Slip-On Flange	36.00	3	0	0	108.00T
2	4" bolt sets	Vendor #	25.00	2	0	0	50.00T
2	4" gaskets	As per spec	15.00	2	0	0	30.00T
4	3" bolt sets	1/2" x 3" A193	18.00	4	0	0	72.00T
4	3" gaskets	Cost Code	14.00	4	0	0	56.00T

TBC
1/12

Job # / Eq # SS.1139 Amt 662.36

Cost Code _____
Approved by _____
Date _____

Please send payment to

JPR Systems, Inc.
305 No. Berry Street
Brea, CA 92821
T. 714.674.9520
Email. accounting@jprsystems.com

T/M

Subtotal \$414.72
Sales Tax (7.75%) \$47.64
Total \$462.36
Balance Due \$462.36

Thank you for your business.



QUOTATION

NO. 170824

3500 Shepherd Street, City of Industry, California 90601
 Box 227044, Los Angeles, California 90022-0744
 (562) 463-6000 Fax: (562) 463-7156

Date: **January 30, 2018** Page: **1 of 4**

To: Contact: **Grant Gourley**
 Company: **W. M Lyles Co.**
 Address: **42142 Roick Drive**
 City, Zip: **Temecula, CA 92590**
 Phone: _____ Email: **ggourley@wmlylesco.com**

Terms: **Net Cash, see T&C's**
 F.O.B. **Jobsite, unloading by others**
 Sales Rep.: **Rogelio V. Deguzman**
 Contact #: **Office: 951-683-5960 Cell: 714-863-4295**
 Email: **Rogelio.deguzman@quinnpower.com**

Project Name: **Victor Valley Water Reclamation Plant, Hesperia and Apple Valley**

Qty:	Description	Unit Price	Extension
1	Cancelled test at Hesperia site for N6R00151 on 1/4/17 and Apple Valley site for N6R00152 on 9/5/17, travel time, mileage, labor, and load bank.		\$4,500.00

PRICE IS FOR EQUIPMENT DELIVERY IN 2015.

SALES TAX IS NOT INCLUDED. Buyer responsible for all taxes. Any offer to sell or any offer accepted shall be subject to the Terms and Conditions page. Unless expressly stated on the face of this quotation, all prices, delivery schedules and product specifications are subject to change without notice. **Quotation is good for 30 days from quote date above, expires after that duration.**



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Date: January 30, 2018

Page: 2 of 4

NOTES, EXCEPTIONS, CLARIFICATION

- The equipment offered in this proposal is CAT standard product as listed above. No other written details, plans, specification sections, contract documents, general or supplementary conditions apply to this quotation. Equipment is as stated above, call for any revisions to equipment quoted. Exception taken to anything not included in this proposal and as listed below.
- Quotation does not include Sales Tax, any Air District or Building Permits, Off-loading or Crane Services, Installation or Anchoring, Initial Fuel fill or Test fuel, Major Testing unless otherwise specified in the Bill of Materials.
- Depending on final height of installed generator set, a personal platform may be required to access the control panel and maintenance doors. Platform not included in this proposal, if required please call for quotation.
- Start Up and Commissioning Services are provided for CAT factory/QPS supplied equipment only. Scope of work for Start Up Services available upon request. Out of Scope services to be billed on Time & Material basis in the field at purchaser's expense. QPS standard labor rates apply. Technician services are provided during normal business hours Monday through Friday.
- Exception taken to NETA 3rd party or independent testing requirements. Any and all testing as listed above to be provided by QPS technicians.

EMISSIONS NOTE

- "California Air Resources Board (CARB) has approved alignment with the federal New Source Performance Standards (NSPS). Such alignment allows for emergency standby engines to be exempt from Tier 4 emissions standards; however, local air districts can require more stringent emissions control. The prospective buyer of the equipment quoted above is hereby notified the NSPS exemption does not apply to non-emergency standby engines (e.g. prime power applications such as peak shaving, parallel operation with the grid, or storm avoidance), or portable engines, even if used for emergency standby. Consult the local air district for permitting requirements and required emissions controls. Presently, South Coast Air Quality Management District (SCAQMD) Rule 1470 requires the use of a particulate filter if an engine is located within 100 meters of a school, and may require either a diesel particulate filter or an oxidation catalyst, depending upon engine size, if the installation is within 50 meters of a sensitive receptor. Particulate filters may also be required for Title V and major polluting facilities. For emissions requirements specific to the project for which this engine is being quoted, please contact SCAQMD at 909-396-2000. Unless otherwise listed above a DPF is not included in this proposal, please call for quotation if a DPF is required for this project."
- Caterpillar engines require a minimum of 30% load to prevent engine damage due to wet-stacking. Depending upon the permit and site specific conditions, SCAQMD emergency engine permits will only allow between 20 and 50 hours of runtime per year for non-emergency applications such as testing and exercising. Passive Diesel Particulate Filter systems depend on generator loading of a minimum of 50-60% to achieve minimum exhaust temperature threshold to keep soot regeneration and the filter backpressure within acceptable levels. If the engine will be operated consistently at low loads/low exhaust temperatures, the customer should make provisions to add load via facility operations or a load bank. Active Diesel Particulate Filter systems require no external load in order to regenerate. If listed above, Passive DPF option pricing, does not include a load bank or a load bank circuit breaker. If a load bank is needed for this project, please call for quotation.



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NO. 170824

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Date: January 30, 2018

Page: 3 of 4

TERMS AND CONDITIONS

1. Acceptance of Order.

This Quotation is for Buyer's information only and is not a valid offer to sell unless signed by an authorized representative of Seller in the place provided on the face of this Quotation. Prices, terms and conditions in an order from Buyer, which are inconsistent with the prices, terms and conditions of this Quotation, will be rejected by Seller, and are of no force and effect unless accepted in writing by Seller. Prices, delivery schedules and the scope of work on this Quotation are subject to change at Seller's discretion.

2. Liability.

Seller's liability on any claim of any kind, including claims for negligence, or for any loss or damage arising out of or connected with the manufacture, sale, delivery, installation, resale or use of any products covered by or furnished under any order connected with this Quotation shall be limited to those claims arising solely from the acts of Seller and Seller shall in no way be liable for any special, indirect, incidental or consequential damages. The term "consequential damages" shall include, but not be limited to, loss of anticipated profits, business interruption, loss of use, revenue, reputation and data, costs incurred, including without limitation, for capital, fuel, power and loss or damage to property or equipment. Buyer expressly acknowledges and agrees that Seller has set its prices in reliance upon the limitations of liability and other terms and conditions specified herein, which allocate the risk between Seller and Buyer and form a basis of this bargain between the parties. Any claims against Seller for shortages in shipments shall be made in writing to Seller within fifteen (15) days of receipt of shipment by Buyer. Unless otherwise provided for in writing, Seller's responsibility for shipment ceases upon delivery to carrier, and any claims for shortage, delays or damage occurring thereafter shall be made direct to carrier by Buyer. Seller shall not be liable for any delays in delivery attributable to strikes, labor disputes, lockouts, accidents, fires, delays in manufacture or in transportation, delays in delivery of component materials, floods, severe weather, or Acts of God, embargoes, governmental actions, or any other cause beyond the reasonable control of Seller. Seller shall not indemnify nor be liable to Buyer, Buyer's assigns, successors, purchasers, lessees or licensees, or to any person or entity for any claims, losses, expenses or judgments arising out of or resulting in any way from the product or integration of compatibility of the product with any other components, processes, facilities or equipment that does not comply with the equipment manufacturer(s) recommendations.

3. Shipments.

Unless otherwise specified, all risk of loss from the goods shall shift to Buyer at such time as the goods are delivered to a carrier for shipment to Buyer. Unless otherwise specified, shipment dates are approximate and all quoted prices exclude shipping costs. Shipment of goods under any order accepted by Seller shall be subject to the approval by Seller of Buyer's financial condition at the time of shipment. Whether or not terms of payment are specified elsewhere, Seller may, at its option, condition shipments under any order accepted by Seller upon receipt of satisfactory security or of cash prior to shipment. If, at Buyer's request, shipment of goods under any order accepted by Seller is delayed more than thirty (30) days after the shipment date specified in the order, or the date the goods are ready for shipment, whichever is later, Seller will require immediate payment in full and/or assess additional charges for the expenses incident to such delay.

4. Termination.

In the absence of a written agreement between Buyer and Seller expressing different terms and conditions as to termination, any order accepted by Seller may be terminated prior to completion by Buyer only upon written notice to Seller and payment of Seller's termination charges. If notice of termination is received by Seller after Seller has committed to buy the principal components for any order, termination charges shall include all direct and indirect costs incurred by Seller and the total profit anticipated by Seller. Additionally, Buyer's instruction to Seller to stop work for thirty (30) days during the time specified for performance in any order may be construed by Seller as the equivalent of written notice of termination from Buyer and previous stipulations will be in effect.

5. Taxes.

Unless expressly stated, Seller's prices do not include sales, use, excise or similar taxes, which Seller may be required to pay in filling Buyer's order. The amount of any applicable tax shall be paid by Buyer as an additional charge unless specifically included in any order accepted by Seller, or in lieu thereof, Buyer shall provide Seller with a tax exemption certificate acceptable to the taxing authorities.

6. Patents.

Seller shall, at its own expense, defend and save Buyer harmless from the expenses and consequences of any suit or procedure brought against Buyer, based on a claim that the use or sale of goods specified in any order accepted by Seller constitutes an infringement of any United States letters of patent in existence on the date of any such order; provided Buyer promptly notifies Seller in writing of such claim and gives the necessary authorization, information and assistance for the defense of such a claim.

7. Changes.

Seller, and Seller's suppliers, may, at any time, without notice to Buyer, make changes (whether in design, materials, the addition of improvements, or otherwise) in any goods specified in any order accepted by Seller without incurring any obligation of any kind as a result thereof, but only to the extent that such change does not cause the goods specified to fail to meet Buyer's requirements. Buyer may, in its order, provide for changes in its requirements with provision for a corresponding equitable change in the price, if any; but in no instance shall Buyer make changes, which are substantially different from the scope of the original order accepted by Seller.

8. Export Sales.

In the event the goods and services specified in any order accepted by Seller are for export, the Buyer shall be responsible for securing export, import and other licenses or authorizations as may be required. The conditions specified in this Section apply to all export transactions. This transaction is only for the sale of the equipment requested and detailed in this Quotation. Not included is any startup assistance, field-testing, training or any other services that might be required on site. Also not included is any installation, installation audits, sea trials (if applicable), or installation materials. To ensure proper application, installation, and warranty integrity, Buyer is encouraged to contact the applicable Caterpillar Dealer for these services. The costs of these services are not included in the sale price nor will Seller be responsible for any such related costs.

9. Permits for Equipment Design, Installation and Operation.

As a supplier of equipment, disclaims responsibility for any and all permits or licenses necessary to design, install and operate the equipment due to zoning, air quality, environmental, safety, building or construction codes or use permits pertaining to Buyer's particular application of such equipment or any similar type of permit. Special attention should be given to the requirements of local air district rules and California Air Resources Board (CARB) regulations pertaining to permit requirements. Seller is quoting on equipment based on the specifications set forth in this Quotation. If additional equipment or engine modifications are required beyond the specifications, such as additional equipment required for compliance by a local air district or CARB, those items are not included and are the responsibility of Buyer. For example, South Coast AQMD (SCAQMD) Rule 1470 may require controls and limits on particulate matter, especially when the engine installation is within 100-meters from a school, or within 50 meters of a sensitive receptor (defined in Rule 1470). Ultra low sulfur fuel is required for particulate filters. CARB Diesel Fuel, or other CARB-approved alternative fuel, is also required for compression ignition (CI) engines operated in California. When indicated in the bill of materials, the proposed equipment may be SCAQMD pre-approved as Certified Equipment. This certification does not eliminate the permit process or responsibility of others to obtain a permit. Procurement of certified equipment assures permitability, reduces the permit processing fees and reduces the time necessary to obtain the permit through SCAQMD.

10. Start-up, Commissioning and Operating Requirements.

Equipment provided in this Quotation may require start-up and commissioning, including inspection(s), to ensure the equipment is installed in accordance with manufacturer(s)'s recommendations and specifications. If Seller has commissioned the equipment, Buyer agrees not to modify the design or components of the installation such that the modifications would violate any legal requirements of the installation, or would cause the installation to deviate from manufacturer(s)'s recommendations and specifications. Buyer acknowledges and agrees that, with respect to products sold to Buyer in connection with this Quotation, Buyer shall have the sole responsibility to ensure the products are properly installed, operated and maintained in accordance with the manufacturer(s)'s recommendations and specifications, and to determine and comply with all applicable Federal, state, local and regulated use restrictions and requirements, including, without limitation, the continuing responsibility to ensure that the use of product is in full compliance with all applicable environmental laws and regulations. Failure to install, operate and maintain the products in accordance with the manufacturer(s)'s recommendations and specifications will invalidate any applicable manufacturer's warranty.

11. Additional material.

Only those items listed in this Quotation are included with any order. For example, unless specifically identified in this Quotation, the following items are not included with any purchased equipment: any exhaust or fuel piping, main fuel tank, fuel, duct work, special tools, insulation, wiring, cable, bus duct, concrete, anchor bolts, rigging or any material or labor incidental to the installation itself. Buyer specifically assumes responsibility for the provision of any such items if not specifically identified in the Quotation.

12. Hours of services.

When included, delivery, startup assistance, field testing, training or any other services required on site will be provided during the normal weekday working hours of 7:00 am to 4:30 pm. Delivery or services occurring at any other time, weekends or holidays is subject to premium charges.

13. Warranty.

The equipment manufacturer's warranty is the only warranty provided in connection with the equipment described in this Quotation. Buyer is responsible for operating and maintaining the equipment as specified by the manufacturer. The manufacturer's warranties are exclusive and in lieu of all other warranties either oral or written, express or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose. Seller is not a manufacturer and makes no warranty and shall not, under any circumstances, be liable for any indirect or special, incidental or consequential damages including but not limited to loss of production, loss of profit, loss of use or business interruption, or any other economic loss, whether arising from contract, tort, strict liability or any other theory of law. Buyer, Buyer's assigns, successors, purchasers or any other person designated to operate the equipment as the end user, is responsible for operating the equipment in accordance with manufacturer(s)'s recommendations and specifications. Failure to perform all scheduled maintenance may result in damage to the equipment, and may be grounds to deny warranty coverage.

14. Terms.

Terms of payment are due upon receipt of invoice with no deductions of any kind for retentions, setoffs, discounts or other similar items. A finance charge of 1.5% per month (not to exceed the maximum allowed by law) will be charged on all past due invoices. When necessary Seller will file a California "Preliminary 20-day notice" pursuant to Section 3097 of the California Civil Code.



QUOTATION

NO. 170824

3500 Shepherd Street, City of Industry, California 90601
Box 227044, Los Angeles, California 90022-0744
(562) 463-6000 Fax: (562) 463-7156

Date: January 30, 2018

Page: 4 of 4

15. Cost additives.

A: Unit Cost.

Quotation prices are valid for 30 days only and are based on current market prices as of date of quotation. The Seller reserves the right to adjust the final invoice with a price escalation up to 6% due to 1) purchase orders being received after expiration of quotation, 2) fluctuations in raw materials market prices at time of order, 3) labor rate increases at time of scheduled field services, 4) delays in submittal approvals and/or release of equipment or 5) additional items or services provided that were not included as part of the original quotation. Since final invoicing can and may take place up to a year or more from original quotation date.

B: Delays.

If delivery is delayed by customer Buyer beyond original shipment date, purchase price is due 30 days after original shipment date and a storage and handling charge will be applied and is due each month until delivery. Finance charge of 1.5% per month (not to exceed the maximum allowed by law) is applicable on any amounts arising hereunder or in connection herewith that are not paid when due.

C: Start up.

If construction of the facility or other delays are experienced or expected, which prohibit the initial startup of the equipment beyond one year from delivery additional costs may be imposed including, but not be limited to, long term storage preparation, inspection charges, parts, service, etc.

16. Lead Times.

Lead times are based on manufactures estimated timetables. Project completion time may vary due to delays in receipt of purchase orders, submittal approval, release of equipment, manufactures unforeseen delays in production or holiday schedules. Project completion time frame cannot be guaranteed. Back orders will be processed as soon as available. Part number changes may be made to provide latest improved interchangeable items of equipment.

17. Governing Law and Venue.

The rights and obligations of the parties with respect to the transactions contemplated by this Quotation shall be governed in all respects by the laws of the State of California. The parties hereto irrevocably agree that the exclusive venue for any litigation arising in connection with the transactions specified in this Quotation shall be in the courts located in the County of Los Angeles, California.

18. Attorneys' Fees and Costs.

In the event of any legal action, controversy, claim, or dispute between the parties involving the transactions contemplated by this Quotation, the prevailing party shall be entitled to recover from the other party reasonable expenses, attorneys' fees, and costs.

19. Additional Conditions.

Buyer shall furnish to Seller, at no cost, suitable working space, storage space, adequate heat, telephone, light, ventilation, regulated electric power and outlets for testing purposes (if applicable). The facilities shall be within a reasonable distance from where any applicable services are to be provided. Seller and its representatives shall have full and free access to the equipment in order to provide any applicable services. Buyer shall provide the means to shut-off and secure electric power to the equipment and provide safe working conditions. Buyer shall not require Seller or its employees, as a condition to site access or otherwise, to further agree or enter into any agreement, which waives, releases, indemnifies or otherwise limits or expands any rights or obligation whatsoever. Any such agreements shall be null and void. Seller is under no obligation to remove or dispose of parts or equipment unless specifically agreed upon in Seller's scope of work. Seller-removed parts become the property of Seller. Seller must not perform any electrical power switching unless specifically requested by Buyer, under the supervision of Buyer, and subject to procedures jointly agreed to in advance. Notwithstanding Buyer's request, Seller may refuse to perform power switching, if in the opinion of Seller, such action would be unsafe. IN THE EVENT THAT SELLER PERFORMS POWER SWITCHING, TO THE FULLEST EXTENT PERMITTED BY LAW, BUYER SHALL INDEMNIFY, DEFEND, AND HOLD SELLER HARMLESS FROM ANY AND ALL LIABILITY, ACTIONS, SUITS, CLAIMS, DEMANDS, DAMAGES, COSTS, AND EXPENSES ("LOSSES") ARISING OUT OF OR IN ANY WAY CONNECTED WITH OR RESULTING FROM SELLER'S PERFORMANCE OF POWER SWITCHING, REGARDLESS OF WHETHER THE LOSSES RESULT FROM SELLER'S NEGLIGENCE (WHETHER ACTION OR PASSIVE, AND WHETHER SOLE, JOINT, OR CONCURRENT), AND EVEN THOUGH CAUSED IN WHOLE OR IN PART BY A PRE-EXISTING DEFECT, STRICT LIABILITY, OR OTHER LEGAL FAULT OF SELLER. THIS INDEMNITY SHALL APPLY TO ANY ACTS OR OMISSIONS OR NEGLIGENT CONDUCT, WHETHER ACTIVE OR PASSIVE, ON THE PART OF EITHER SELLER OR BUYER. If OSHA or any other federal, state or local government, trade association, or contractual regulations or standards require a "safety person" to be on site during the performance of services, or in the event of a trade union jurisdictional dispute where trade union represented personnel are required to assist or stand by during the performance of services by Seller, Buyer shall be responsible for providing for and paying for any charge or wages for such person(s), as applicable. Buyer shall immediately inform Seller, in writing, at the time of order placement and thereafter, of any unsafe or hazardous substance or condition at the site, including, but not limited to, the presence of asbestos or asbestos-containing materials, and shall provide Seller with any applicable Material Data Safety Sheets regarding the same. Any losses, costs, damages, claims and expenses incurred by Seller as a result of Buyer's failure to advise Seller shall be borne by Buyer. Seller, in its sole discretion and without cost or penalty, reserves the right to cancel its performance under this Agreement or any order immediately upon written notice to Buyer following Seller's discovery of unsafe or hazardous site substance or condition or any other circumstance altering Seller performance of Services. Buyer shall appoint a representative familiar with the site and the nature of the Services to be performed by Seller to be accessible at all times that Seller personnel are at the site. Seller shall not be liable for any expenses incurred by Buyer in removing, replacing or refurbishing any Buyer equipment or any part of Buyer's building structure that restricts Seller's access. Buyer's personnel shall cooperate with and provide all necessary assistance to Seller. Seller shall not be liable or responsible for any work performed by Buyer.

ACCEPTED BY:

By: _____

Company: _____

Date: _____

P.O. #: _____

PCO # 84

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

COH - RFI 356 Added Ethernet Switch for Cameras

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 08/18/2017
Submitted To: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Grant Gourley, EADOC-VVWRA-Sub-R - Lynene Voelker
Status: Pending
Priority: Low
Pending On User: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Lynene Voelker
Pending On Org: Victor Valley Wastewater Reclamation Authority, Carollo Engineers

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 08/18/2017

Contractor's PCO #:

Reason: Design Omissions
Requested By:

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last:	708,198.21
Amount Added:	1,194.65
New Approved Amount:	709,392.86
Current Contract Duration:	821
Days Added:	0
New Contract Duration:	821

Budget :
Funding:
Cost Item:

PCO # 84

Sub-Regional WRP Projects
Sub Regional WRP Projects

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Locations

Element B1 - Hesperia WRP - Vol-05

References

Correspondence # 136	RFI 356 Added Ethernet Switch for Cameras	Closed
RFI # 356	Camera 1, 2, & 3 Reroute	Closed

Contractor

Signature	Print Name	Date
-----------	------------	------

Construction Manager

Signature	Print Name	Date
-----------	------------	------

Owner

Signature	Print Name	Date
-----------	------------	------

PCO COH 084 - AV 087 Evaluation Summary - OH&P				
Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ -		\$ -
2	Materials	\$ -		\$ -
3	Equipment	\$ -		\$ -
				\$ -
	Total	\$ -		\$ -
	Markup	\$ -	15%	\$ -
	Subtotal	\$ -		\$ -
Subs				
4	Trimax	\$ 1,135.43		\$ 978.82
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
	Subcontract Subtotal	\$ 1,135.43		\$ 978.82
	Subcontractor Bond & Ins	\$ 11.35	1%	
	Subtotal	\$ 1,146.79		\$ 978.82
	GC-Subcontractor Markup	\$ 57.34	5%	\$ 48.94
	Total	\$ 1,204.12		\$ 1,027.76
	Subcontractor OH&P		15%	\$ 146.82
	Subcontractor Bond & Ins		1%	\$ 9.79
	GC Bond & Ins	\$ 12.04	1%	\$ 10.28
	Total	\$ 1,216.17	COH	\$ 1,194.65
			AV	\$ 1,194.64



**Trimax Systems, Inc.
Change Order Request**

Job Name	Customer P.O. Number
VVWRA Subregional Plants	T1139-50
To: Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069	Change Order Request: COR-45 Date: 8/15/2017
Attn: Steve Vickers	Reference RFI-356

Description:
Provide for each Hesperia and Apple valley:

- (1) 1000-POE4+ Injector
- (1) Ethernet 1FT patch cable
- Install above and wire the power into the Networks panel

Item	Description		Qty	Unit Price	Extended Price
1	1000-POE4+ Injector	RED LION	2	\$699.00	\$1,398.00
2	Ethernet 1 FT Industrial Patch Cable		2	\$10.00	\$20.00
Subtotal:					\$1,418.00
Markup: 15.00%					\$212.70
Sales w/o Tax:					\$1,630.70
Sales Tax: 7.75%					\$126.38
Total Material Cost:					\$1,757.08

Non-Taxable Labor

Item	Description	Resource	Hrs	Rate	Extended Price
1	Review, plan and coordinate changes - Both Sites	Prog		160.00	\$0.00
2	Update panel I/O drawings - Both Sites	Des Eng	0.50	160.00	\$80.00
3	O&M Manual Modifications HWRP	Des Eng		160.00	\$0.00
3	O&M Manual Modifications AVWRP	Des Eng		160.00	\$0.00
4	Update loop drawings HWRP (1 dwg)	Des Eng		160.00	\$0.00
5	Update loop drawings AVWRP (1 dwg)	Des Eng		160.00	\$0.00
6	Add PLC program for HWRP	Prog		160.00	\$0.00
7	Add PLC program for AVWRP	Prog		160.00	\$0.00
8	Add HMI program for HWRP	Prog		160.00	\$0.00
9	Add HMI program for AVWRP	Prog		160.00	\$0.00
10	Add SCADA app for HWRP	Prog		160.00	\$0.00
11	Add SCADA app for AVWRP	Prog		160.00	\$0.00
12	Loop testing - Both Sites	Field Tech		110.00	\$0.00
13	Operational testing - Both Sites	Prog		160.00	\$0.00
14	Field Installation - Mounting and Wiring - Both Sites	Field Tech	2.00	110.00	\$220.00
Total Non-Taxable Labor Cost:			2.50		\$300.00

Other Direct Costs

Item	Description	RT Miles	Qty	Unit Price	Extended Price
1	Mileage			\$0.62	\$0.00
2	Freight			\$0.00	\$0.00
3	Delivery to job site				\$0.00
4	Lodging				\$0.00
5	Per Diem			\$75.00	\$0.00
Total Other Direct Costs:					\$0.00

Complete price for the scope of work described herein: \$2,057.08

WML Markup 15% = \$308.56
 Bond 1% = \$23.65
 Total = \$2,389.29

COH = \$1,194.65
 TOAV = \$1,194.64



**Trimax Systems, Inc.
Change Order Request**

Job Name	Customer P.O. Number
VVWRA Subregional Plants	T1139-50
To: Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069	Change Order Request: COR-45 Date: 8/15/2017
Attn: Steve Vickers	Reference RFI-356

Exclusions:

1. Mounting stanchion, mounting plate.
2. Materials for installation.
3. Additional PLC I/O modules to accommodate new I/O.
4. Installation of furnished equipment.

This scope letter represents Trimax Systems, Inc. entire proposed scope of work. Unless otherwise noted, no goods or services, other than those specifically described herein, are included or implied.

Quoted prices are valid for 90 days.

If you have any questions regarding this matter, please contact the undersigned.

Very truly yours,

Marty McLaughlin
Project Manager
Trimax Systems, Inc.

Cell Ph. - 714-595-1269
brianb@trimaxsystems.com

PCO # 86Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2

COH - DC 122 VFD Wiring Modifications

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 09/27/2017
Submitted To: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Charles Reynolds, EADOC-VVWRA-Sub-R - Grant Gourley, EADOC-VVWRA-Sub-R - Lynene Voelker
Status: Pending
Priority: High
Internal Priority: High
Pending On User: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Lynene Voelker
Pending On Org: Victor Valley Wastewater Reclamation Authority, Carollo Engineers

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 09/27/2017

Contractor's PCO #:

Reason: Design Omissions
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 708,198.21
Amount Added: 13,550.54
New Approved Amount: 721,748.75
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

PCO # 86

Sub-Regional WRP Projects
 Sub Regional WRP Projects

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Locations

Element B1 - Hesperia WRP - Vol-05

References

DCM # 122	DC 122 - VFD wiring modifications	Closed
Correspondence # 138	DC 122 VFD Wiring Modifications	Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

Southern Contracting Co.

CHANGE ORDER REQUEST

No. 00136

TITLE: DC 122 VFD Mods

DATE: 12/14/2017

PROJECT: Victor Valley Subregional WRPq

JOB: 100531

TO: Attn: Grant Gourley
W.M. Lyles

CONTRACT NO: 1

42142 Roick Drive
Temecula, CA 92590
Phone: 951-973-7393

Fax: 951-698-3031

RE: To: From: Number:

DESCRIPTION OF PROPOSAL

Provide modifications to VFDs as directed in DC 122

Item	Description	Stock #	Quantity	Units	Unit Price	Tax Rate	Tax Amount	Net Amount
00001	Provide VFD Modifications as directed in DC 122		1.000		\$25,555.00	0.00%	\$0.00	\$25,555.00

Unit Cost: \$25,555.00
Unit Tax: \$0.00
Total: \$25,555.00

WML Markup: \$1,277.75
WML Bond: \$268.33
WML total: \$27,101.08

~~\$13,426.11 COH = \$13,550.54
\$13,426.11 TOAV = \$13,550.54~~

APPROVAL:

By: _____
Grant Gourley

By: _____
Brendan Bradford

Date: _____

Date: _____



Southern Contracting Company

PO Box 445, San Marcos, CA 92079-0445
(T) 760-744-0760 (F) 760-744-6475
Lic. No. 222252

Cost Proposal/Estimate for Extra Work

PROJECT: **Victor Valley Wastewater Reclamation Authority**
Subregional WRP's
W.M. Lyles Co.
TO: **Attention: Grant Gourly**
42142 Roick Drive
Temecula, CA 92590

LYLES NO. _____
SCC COR NO. 136
SCC JOB NO. 100531

THE FOLLOWING BUDGET PROPOSALIS SUBMITTED HEREWITH FOR YOUR APPROVAL:

REFERENCE: **DC 122 VFD Wiring Modifications**

DESCRIPTION: **Provide Wiring Modifications as directed in DC 122**

(a) Direct Materials [from Breakdown]	\$	18,060
(b) Sales Tax on Materials [8.0% of (a)]	\$	1,445
(c) Direct Labor [from Breakdown]	\$	1,945
(d) Rental Equipment [from Breakdown]	\$	510
(e) Sales Tax on Rental Equipment [8.0% of (d)]	\$	41
(f) Subcontract & Outside Services [from Breakdown]	\$	-
(g) SUBTOTAL [(a)+(b)+(c)+(d)+(e)+(f)]	\$	22,001
(h) Overhead and Profit:		
Materials [15% of (a)+(b)]	\$	2,926
Direct Labor [15% of (c)]	\$	292
Equipment [15% of (d)+(e)]	\$	83
Subcontract & Outside Services [15% of (f)]	\$	-
(i) SUBTOTAL [(g)+(h)]	\$	25,302
(j) Bond [1.0% of (i)]	\$	253
TOTAL PROPOSAL/ESTIMATE [(i)+(j)]	\$	25,555
Estimated Time Extension Required	TBD	days

SUBMITTED BY: _____
Brendan Bradford

DATE: 12/14/2017

APPROVED BY: _____

DATE: _____

Breakdown of Direct Cost

AWC PCO NO. 0

CONTRACTOR WORK ITEMS	QTY	MATERIAL		LABOR		LABOR		EQUIPMENT			
		UNIT (\$)	EXT	UNIT (HR)	EXT	UNIT (HR)	EXT	RATE (\$)	EXT		
1 Hesperia											
2 LS Pumps 01-P-110 and 01-P-120	1 lot	3,277.50	3,277.50		-		-				
3 Hesperia WRP Feed Forward Pumps	1 Lot	4,916.25	4,916.25		-		-				
4 EATON Drives MCC	1 Lot	2,475.00	2,475.00								
5 Scc Support	1			2.00	2.00	8.00	8.00	12.8	20.00	255.00	
6 Truck											
7 Apple Valley											
8 Apple Valley Feed Forward Pumps	1 lot	4,916.25	4,916.25		-		-				
9 EATON Drives MCC	1 Lot	2,475.00	2,475.00								
10 Scc Support	1 Lot			2.50	2.50	13.00	13.00	12.8	20.00	255.00	
11 Truck											
12											
13											
14											
15											
16											
TOTAL CONTRACTOR'S WORK				\$	18,060.00	\$	365.58	\$	1,578.99	\$	510.00
				TOTAL HRS		\$		1,944.57			
				TOTAL HRS		4.50		TOTAL HRS		21.00	
				RATE / HR		\$81.24		RATE / HR		\$75.19	

SUBCONTRACTOR WORK ITEMS	QTY	MATERIAL		LABOR		LABOR		EQUIPMENT		
		UNIT (\$)	EXT	UNIT (\$)	EXT	UNIT (\$)	EXT	DAYS	RATE (\$)	EXT
TOTAL SUBCONTRACTOR'S WORK										
TOTAL SUBCONTRACTOR'S WORK		\$	-	\$	-	\$	-	\$	-	-

Steve Vickers

From: Wadnal, Anthony <AnthonyWadnal@Eaton.com>
Sent: Monday, September 25, 2017 4:35 PM
To: Steve Vickers
Cc: Pflimlin, Gina M; Craig Stephens
Subject: RE: [EXTERNAL] DC 122 VFD wiring modification.pdf - QUOTE LSN00013935

Hey Steve,

The cost for parts and labor to rewire these drives, is below:

Rewire VFD's in MCC item 102 (units 2M & 3M) and MCC item 103 (units 6M & 7M)
 Cost for parts and labor - \$4,950
 Estimated 2 days labor, including travel

Thanks!

Tony Wadnal
 Sales Engineer
 Eaton
 4863 Shawline Street, Suite E
 San Diego, California 92111
 Office: +1 619 692-6273
 Cell: +1 619 481-0141
anthonywadnal@eaton.com
www.eaton.com



Powering Business Worldwide

From: Steve Vickers [mailto:SVickers@southerncontracting.com]
Sent: Thursday, September 21, 2017 10:01 AM
To: Wadnal, Anthony
Cc: Pflimlin, Gina M; Craig Stephens
Subject: RE: [EXTERNAL] DC 122 VFD wiring modification.pdf

Yes it is as you have shown these VFD's are in the MCC's

The others are Benshaw

From: Wadnal, Anthony [mailto:AnthonyWadnal@Eaton.com]
Sent: Thursday, September 21, 2017 9:59 AM
To: Steve Vickers <SVickers@southerncontracting.com>
Cc: Pflimlin, Gina M <GinaMPflimlin@Eaton.com>
Subject: RE: [EXTERNAL] DC 122 VFD wiring modification.pdf



CORPORATE OFFICE: 615 Alpha Drive, Pittsburgh, PA 15238

Telephone: 412 . 968 . 0100 • Fax: 412 . 968 . 5415

www.benshaw.com

QUOTATION

Date : Oct. 5, 2017
 P.O.Number :
 Job Number :
 Quote # : DP171005SC, Rev. 0
 Term/Rep/Sis/prn : PG/ML
 Customer # : 3024413
 Bill to Address : Southern Contracting
 559 North Twin Oaks Valley
 San Marcos, CA 92069

Project or End User : Victor Vailey
 Application : Pumps
 Quote By : Dave Parshall
 Ship To Address: TBD

Name : Steve Vickers
 Telephone # : 619-520-8248
 Email : svickers@southerncontracting.com

Terms : Net 30 days /2% Monthly after 30 days
 Freight : Prepaid & Add
 Ship Date : TBD
 Ship Via : Best Way
 F.O.B. : Shipping Point

QUOTE VALID FOR 60 DAYS

PLEASE REFERENCE QUOTE NUMBER WITH YOUR ORDER

ITEM	QTY	PART NUMBER / DESCRIPTION	UNIT PRICE	EXTENDED PRICE
A	1	<p>Retrofit/Field Modification</p> <p>Work to be performed: 1. Benshaw to revise drawing sets per customer Mark Up dwgs. 2. Provide parts (relays, lights and misc wiring). 3. Field Service to modify existing drives per reviewed drawings. See attached Summary Table.</p> <p>Field Service is included in the quoted price and includes estimated 4 hrs per drive. Travel and Living expenses are included in the quote and these are also an estimate. Actual expenses will be invoiced.</p>	\$13,110.00	\$13,110.00
<p>*This proposal is subject to the Benshaw, Inc. Standard Terms and Conditions of Sale. A copy is available on request. - Due to the uncontrollable rise in commodity material costs & fuel, all orders that ship 6-months post order entry date, due to customer delays are subject to surcharges.</p>			SUB TOTAL	\$13,110.00



Summary Table

Quote # DP171005SC, Rev. 0 (Pg. 2)

Name	Location	ID	Dwg	Rev.	Customer Mark Up Control Dwg	High Pressure Inlet	Common Fault Inlet	High Pressure Alarm Inlet	Common Fault Light	High Pressure	Reset
Feed Forward Pump	Hessville WRP	05-P-110	RBS190605G4CBA12-ENG-00002	7	04-E-02	CR4	CR7	LT4	LT7	TD2	PBS
		05-P-120	RBS190605G4CBA12-ENG-00002	7	05-E-04	Mod	Add	Add	Add	Mod	Add Contact
		05-P-130	RBS190605G4CBA12-ENG-00002	7	05-E-02	Mod	Add	Add	Add	Mod	Add Contact
Feed Forward Pump	Aurora Valley	05-P-110	RBS190605G4CBA12-ENG-00003	8	04-E-02	CR4	CR7	LT4	LT7	TD2	PBS
		05-P-120	RBS190605G4CBA12-ENG-00003	8	05-E-04	Mod	Add	Add	Add	Mod	Add Contact
		05-P-130	RBS190605G4CBA12-ENG-00003	8	05-E-02	Mod	Add	Add	Add	Mod	Add Contact
Lift Station Pump	HLS Lift Station	01-P-110	RBS190605G4CBA12-ENG-00001	8	00-E-004	CR7	CR8	LT7	LT4	TD2	PBS
		01-P-120	RBS190605G4CBA12-ENG-00001	8	00-E-004	Mod	Add	Add	Mod	Mod	Add Contact



BENSHAW STANDARD TERMS AND CONDITIONS OF SALE

APPLICABILITY/ACCEPTANCE OF TERMS/ENTIRE AGREEMENT. Unless otherwise provided, the sale by Benshaw, Inc. ("Seller") of any products or services described herein shall be governed solely by these terms and conditions of sale and such other provisions agreed upon in writing by duly authorized representatives of Seller. Any oral understandings are expressly excluded. Seller shall not be deemed to have waived these terms and conditions of sale if it fails to object to provisions appearing on, incorporated by reference in, or attached to Buyer's purchase order, written acknowledgement or other authorization to proceed, which provisions are hereby expressly rejected. Buyer's silence or acceptance or use of products constitutes its acceptance of these terms and conditions of sale. These terms and conditions of sale shall apply to any order for products whether or not they are referenced in such order.

CANCELLATION. Buyer has no right to cancel this order, in whole or in part, absent the prior written agreement of Seller.

PRICES AND PAYMENTS. After formal credit approval, payment terms are net thirty (30) days from the date of invoice. Without credit approval, ten percent (10%) of the total price is due in advance, with the balance C.O.D. A one and one half percent (1.5%) monthly service charge will be added to invoices not paid within thirty (30) days of the Invoice date. If, in Seller's sole judgment, the financial condition or credit-worthiness of Buyer does not warrant shipment of the products ordered, Seller may at its option require full payment prior to shipment, or may refuse to ship without Seller incurring liability to Buyer.

CONFLICTING PROVISIONS. In the event of any conflict between these terms and conditions of sale, and the provisions contained in any purchase order, confirmation, or other similar document issued to Seller by Buyer, the provisions of these terms and conditions shall prevail.

ASSIGNMENT. Neither party shall assign these terms and conditions of sale and any purchase order or any portion thereof without the advance, written consent of the other party, which consent shall not be unreasonably withheld. Notwithstanding the foregoing, Seller may assign this agreement to any entity controlled by or under common control of Benshaw, Inc.

WAIVER. Failure by Seller to assert all or any of its rights upon any breach of these terms and conditions of sale shall not be deemed a waiver of such rights either with respect to such breach or any subsequent breach, nor shall any waiver be implied from the acceptance of any payment or service.

INSPECTION. Buyer shall inspect and accept or reject products delivered pursuant to these terms and conditions and the purchase order promptly after Buyer takes custody of such products. In the event the products do not comply with the applicable specifications, Buyer shall notify Seller of such noncompliance and Seller shall have a reasonable opportunity to correct any such noncompliance. Buyer shall be deemed to have accepted any products delivered hereunder and to have waived any such noncompliance in the event Seller does not receive such notification from Buyer within fifteen (15) days after Buyer takes custody

WARRANTY. Seller warrants that the products and services delivered to Buyer shall be free from defects in material and workmanship, provided that the unit has not been subject to accident, abuse, or misuse, and that the unit has been operated in accordance with the manufacturer's recommendations. Such warranty shall be effective for a period of 12 months after installation or 18 months after delivery, whichever occurs first. If a product is determined to be in breach of this warranty, Seller shall repair or replace such product, at its option, which shall be Buyer's sole remedy for such breach of warranty. **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WHETHER STATUTORY OR OTHERWISE, AND BUYER WAIVES ALL OTHER WARRANTIES, OBLIGATION OR LIABILITIES, ORAL OR WRITTEN, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION AN IMPLIED WARRANTY OF COMMERCIAL ACCEPTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS**

EXCUSABLE DELAY. The Seller shall be excused from delays in delivery and performance of other contractual obligations under the purchase order caused by acts or omissions that are beyond the reasonable control and without the fault or negligence of Seller including but not limited to Government embargoes, blockades, seizure or freeze of assets, delays or refusals to grant an export license or the suspension or revocation thereof, or any other acts of any Government, fires, floods, severe weather conditions, or any other acts of God, quarantines, labor strikes or lockouts, riots, strife, insurrection, civil disobedience, war, material shortages or delays in deliveries to Seller by third parties. If the excusable delay circumstances extend for six months, either party may, at its option, terminate these terms and conditions of sale and the purchase order without penalty or liability and without being deemed in default or in breach thereof.

TITLE RETENTION AND SECURITY INTEREST. Seller retains title to the equipment until the Buyer performs all its obligations under this Agreement. Seller retains and Buyer grants a security interest in the equipment to secure performance of all Buyer's obligations arising under this Agreement. At the request of Seller, Buyer will execute one or more financing statements in a form satisfactory to Seller.

INSURANCE. Buyer shall maintain and carry liability insurance which includes but is not limited to commercial general liability (including product liability and for services to be performed, completed operations liability) in a sum no less than \$5 million, automobile liability in a sum no less than \$5 million, workmen's compensation in an amount no less than the applicable statutory minimum requirement and employer's liability in an amount of no less than \$1 million, with insurance carriers acceptable to Seller. Buyer will, if requested by Seller, furnish certificates of insurance from its carrier(s) on the foregoing

SPECIAL TOOLING AND DATA. Unless otherwise agreed in writing, all material, software, data, processes, equipment, facilities and special tooling, which term includes but is not limited to jigs, dies, fixtures, mold, patterns, special taps, special gages, special test equipment, other special equipment and manufacturing aids and replacements thereof, used in the manufacture of products covered by an order shall be and remain the property of Seller. Seller retains all rights title and interest in drawings, engineering instructions, specifications and all other written data if any furnished with the products.

TIME OF DELIVERY. Unless otherwise agreed in writing by the Seller, delivery of the Goods shall be made ex-works on a day nominated by the Seller, time not being of the essence, and the Buyer shall be responsible for their prompt collection, transport, off loading and storage. The Seller may, at the Buyer's request, sole risk and expense, arrange carriage of the Goods, in which case the Buyer will be responsible for their prompt off-loading. In all cases, the Buyer shall be responsible for the safe and proper storage of the Goods once they have been delivered. If the Buyer is not able for any reason promptly to accept delivery of the Goods or the Seller exercises its right to withhold delivery of the Goods due to Buyer's financial condition or failure to timely pay Seller, the Seller may, at its discretion and as appropriate, charge the Buyer for any delay in collection or transport or off-loading of the Goods and for their storage and

Any delivery dates notified to the Buyer by the Seller are given by the Seller in good faith, but are business estimates only and the Seller will not be liable to the Buyer for any loss or damage sustained by the Buyer as a result of the Seller's failure to comply with them for whatever reason. The Seller may at its own discretion make delivery of the goods by installments. Each installment shall be treated as the subject of a separate contract upon these terms and conditions and the Seller may invoice for each installment separately.

LIMITATION OF LIABILITY. The sole exclusive remedies of Buyer are those specifically set forth herein Seller's maximum liability for any and all claims arising directly or indirectly from the performance of its obligations under any Agreement with Buyer, including any warranty set forth herein, whether resulting from breach of contract, breach of warranty, tort, products liability, negligence or otherwise, shall not exceed the aggregate purchase price of the particular

and services which are the subject of the claim. UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE TO BUYER OR ANY THIRD PARTY FOR LOSS OF BUSINESS, LOST PROFITS, OR ANY OTHER ECONOMIC LOSS, OR ANY INCIDENTAL, EXEMPLARY, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

INTELLECTUAL PROPERTY INDEMNITY. Except insofar as a purchase order calls for products pursuant to Buyer's designs, drawings or specifications, Seller agrees to pay the amount of any final judgment against Buyer resulting from a suit claiming that any commercial products manufactured or furnished hereunder, by reason of their manufacture, sale or use, infringes any United States patent which has issued at date of contract, and Buyer's reasonable costs and expenses in defense of such suit if Seller does not undertake the defense thereof, provided Seller is promptly notified of the threat or commencement of such suit and is offered full and exclusive control to conduct the defense or settlement thereof. Seller's indemnity shall not apply where infringement would not have occurred from the normal use for which the products were designed. Seller's liability for damages hereunder is limited to those computed solely on the value of

In no event shall Seller be liable for consequential damages or costs applicable thereto. Buyer agrees to pay all costs and expenses incurred by Seller in its defense and the amount of any judgment against Seller, in any suit or proceeding against Seller based upon a claim of infringement resulting solely from the Buyer combining any product furnished hereunder with any item not manufactured or furnished by Seller or from the sale or use of any such combination by Buyer. In the event any product to be furnished under the purchase order is to be made in accordance with drawings, samples or manufacturing specifications designated by Buyer and is not the design of Seller, Buyer agrees to defend, indemnify and hold Seller harmless to the same extent and subject to the same requirements as set forth in Seller's obligation to Buyer as above. The rights and obligations above are in lieu of any other indemnity or warranty, express or

EXPORT CONTROL. The products or information covered by this agreement may be subject to export regulations of the U.S. Government. Buyer will not export, re-export, resell, transfer or disclose, directly or indirectly, any product, technical data or software obtained hereunder outside the U.S. without (i) complying with applicable export control laws, (ii) notifying and obtaining written permission of Seller, and (iii) providing such reasonable assurances as Seller may request

SOFTWARE LICENSE. In the event that any software or software documentation is provided to Buyer by Seller in any form whatsoever under a purchase order and no software license agreement governing this transfer has been signed between Buyer and Seller, Buyer and Seller agree to accept the terms and conditions stated below effective the date of the first delivery hereunder. Subject to the terms and conditions herein, the Seller grants to Buyer a nonexclusive, nontransferable license to use the software or software documentation provided herein:

(i) in the course of the normal operation in or with Seller products, (ii) on Seller or non-Seller products that are used to test, maintain, download, or process information compiled by Seller products. All title and ownership of such software and software documentation, including, without limitation, the copyrights thereto, shall remain exclusively with Seller. Buyer shall not itself, or with the assistance of others, decompile, reverse engineer, or in any other manner attempt to decipher in whole or in part the logic or coherence of any software or software documentation licensed hereunder. Third party software provided by Seller may be subject to a separate license agreement and limitations on copying and use.

TAXES. The prices quoted herein do not include sums necessary to cover any taxes or duties including but not limited to Federal, State, municipal excise, sales or use taxes or import duties upon the production, sales, distribution, or delivery of goods or furnishing of services hereunder. Any taxes or duties that are due and owing hereunder shall be paid by the Buyer

RISK OF LOSS. Unless otherwise agreed to in writing, all risk of loss, theft, or damage from any cause whatsoever, shall be on the Buyer and its insurers, if any, after the delivery by Seller to the carrier at F.O.B. point.

INSOLVENCY/BANKRUPTCY/FINANCIAL DEFAULT. If the Buyer fails to pay any sum due to Seller hereunder, or shall fail to satisfy any of its obligations hereunder and such default shall continue for ten (10) days after the sending by Seller to the Buyer by a registered letter advising of such default, or if the Buyer by the subject of any proceedings under bankruptcy laws or other insolvency laws or be declared subject to judicial supervision or enter into liquidation, Seller shall have the right to immediately repossess the equipment and to terminate this Agreement

SETOFF. All amounts that Buyer owes Seller under an order shall be due and payable according to the terms of such order. Buyer is prohibited from and shall not set off such amounts or any portion thereof, whether or not liquidated, against sums which Buyer asserts are due it, its parent affiliates, subsidiaries or other divisions or units under other transactions with Seller, its parents, affiliates, subsidiaries or other divisions or units

INDEMNITY. Buyer will indemnify, hold harmless and defend Seller from and against any claims, suits, judgments, expenses or liabilities of any nature (including without limitation all reasonable attorneys' fees) which are threatened or brought against, or are incurred by, Seller arising from any actions, omissions or misrepresentations of Buyer in the use, promotion or sale of products or services provided by Seller under this sale

DISPUTE RESOLUTION FOR CONTRACTS WITH NON-U.S. ENTITIES. If either party to this Contract is a non-U.S. entity, any dispute, controversy or claim arising out of or relating to this Agreement, or the breach, termination or invalidity thereof, shall be settled by arbitration in accordance with the International Chamber of Commerce ("ICC") Rules of Arbitration as in force at the commencement of the arbitration. The arbitration shall be conducted by a sole arbitrator that is appointed by the ICC in Accordance with its Rules. The place of arbitration shall be Geneva, Switzerland. Any arbitral tribunal constituted pursuant to this agreement shall apply the law of England to all disputes

The arbitration shall be conducted in English. The award of the arbitrator shall be final and binding upon the parties and may be entered and/or enforced in any court of competent jurisdiction. The parties acknowledge that this Agreement and any award rendered pursuant to it shall be governed by the United Nations Convention on the Recognition and Enforcement of Foreign Arbitral Awards. Notwithstanding the foregoing, Seller may initiate suit in any jurisdiction for protection and enforcement of its intellectual property rights

DISPUTE RESOLUTION FOR CONTRACTS WITH U.S. ENTITIES. If both parties to this Contract are U.S. entities, any controversy or claim arising out of or relating to this Agreement or its breach shall be settled by arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association ("AAA") then in effect. The arbitration shall be conducted by a sole arbitrator that is appointed by the AAA in Accordance with its Rules. No arbitrator may be affiliated, whether directly or indirectly, with any of the parties, including, without limitation, as an employee, consultant, partner or shareholder. The arbitrator(s) shall permit each of the parties to the Arbitration to engage in a reasonable amount of discovery. In the event either party requests arbitration, the arbitration shall be held in Charlotte, North Carolina. The award by the arbitrator or arbitrators shall be final, and judgment upon the award rendered may be entered in any court having jurisdiction thereof. Notwithstanding the foregoing, Seller may initiate suit in any jurisdiction for protection and

APPLICABLE LAW. Except for agreements with non-U.S. entities, this agreement shall be interpreted in accordance with the laws of the State of New York, exclusive of any choice of law provisions. The Seller and Buyer expressly agree to exclude from this Agreement the United Nations Convention on Contracts for the International Sale of Goods, 1980, and any successor therein

COST OF COLLECTION AND ATTORNEYS FEES. In the event any action is taken by Seller to collect amounts billed to Buyer by Seller, Buyer shall be liable for all costs and expenses incurred by Seller in relation thereto, including legal fees.

100-021 Rev. D
02/2015

Approval: L. Mannella,

PCO # 87

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

COH - DC 114 - MBR Instrument Air Compressor Electrical Changes

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 10/02/2017
Submitted To: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Grant Gourley, EADOC-VVWRA-Sub-R - Juan Castillo, EADOC-VVWRA-Sub-R - Lynene Voelker
Status: Pending
Priority: High
Pending On User: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Lynene Voelker, EADOC-VVWRA-Sub-R - Juan Castillo
Pending On Org: Victor Valley Wastewater

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 10/02/2017

Contractor's PCO #: The MBR instrument air compressors shown on Drawing 00-E-04 are shown to be fed by separate 40A breakers. During the meeting with Eaton on March 24, 2016, it was determined and communicated to HDR that the air compressors would be controlled from a single local control panel (LCP), and that a 50 ampere (A) feeder breaker would be sufficient to power the LCP.

Reason: Design Omissions
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last:	769,284.22
Amount Added:	-1,036.50
New Approved Amount:	768,247.72
Current Contract Duration:	821
Days Added:	0
New Contract Duration:	821

Budget :
Funding:
Cost Item:

PCO # 87

Sub-Regional WRP Projects
 Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05

References

DCM # 114	DC 114 - MBR Instrument Air Compressor Electrical Modifications	Closed
Correspondence # 139	DC 114 - MBR Instrument Air Compressor Electrical Changes	Closed

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

W.M. Lyles

CHANGE ORDER REQUEST

No. 00122

42142 Roick Drive
Temecula, CA 92590

Phone: 951-973-7393
Fax: 951-698-3031

TITLE: DC 114

DATE: 03/16/2017

PROJECT: Victor Valley Subregional WRPq

JOB: 100531

TO: Attn: Steve Vickers
Southern Contracting Co.
P.O. Box 445
559 N. Twin Oaks Valley Road
San Marcos, CA 92079-0445
Phone: 760-744-0760 Fax: 760-744-6475

CONTRACT NO: 1

RE: To: From: Number:

DESCRIPTION OF PROPOSAL

Change from 2 feeds to a single feed to LCP
Conduit marked as spare no credit for conduit

Item	Description	Stock #	Quantity	Units	Unit Price	Tax Rate	Tax Amount	Net Amount
00001	Reroute wiring and delete feed		1.000		(\$2,073.00)	0.00%	\$0.00	(\$2,073.00)

Unit Cost: (\$2,073.00)
Unit Tax: \$0.00
Total: (\$2,073.00)

Credit Totals:

TOAV = \$1,036.50
COH = \$1,036.50

APPROVAL:

By: _____
Steve Vickers

By: _____
Grant Gourley

Date: _____

Date: _____



Southern Contracting Company

PO Box 445, San Marcos, CA 92079-0445
 (T) 760-744-0760 (F) 760-744-6475
 Lic. No. 222252

Cost Proposal/Estimate for Extra Work

PROJECT: Victor Valley Wastewater Reclamation Authority
 Subregional WRP's
 W.M. Lyles Co.
 TO: Attention: Grant Gourly
 42142 Roick Drive
 Temecula, CA 92590

LYLES NO. _____
 SCC COR NO. 122
 SCC JOB NO. 100531

Handwritten signature

THE FOLLOWING BUDGET PROPOSALIS SUBMITTED HEREWITH FOR YOUR APPROVAL:

REFERENCE: DC 114 MBR Instrument Air

DESCRIPTION: Re-route conduit and wire as directed

Delete feed

Direct Materials [from Breakdown]	\$	(781)
(b) Sales Tax on Materials [8.0% of (a)]	\$	(62)
(c) Direct Labor [from Breakdown]	\$	(1,209)
(d) Rental Equipment [from Breakdown]	\$	-
(e) Sales Tax on Rental Equipment [8.0% of (d)]	\$	-
(f) Subcontract & Outside Services [from Breakdown]	\$	-
(g) SUBTOTAL [(a)+(b)+(c)+(d)+(e)+(f)]	\$	(2,052)
(h) Overhead and Profit:		
Materials [0 of (a)+(b)]	\$	-
Direct Labor [15% of (c)]	\$	-
Equipment [15% of (d)+(e)]	\$	-
Subcontract & Outside Services [15% of (f)]	\$	-
(i) SUBTOTAL [(g)+(h)]	\$	(2,052)
(j) Bond [1.0% of (i)]	\$	(21)
TOTAL PROPOSAL/ESTIMATE [(i)+(j)]	\$	(2,073)

Estimated Time Extension Required TBD days

SUBMITTED BY: _____
 Steve Vickers

DATE: 10/4/2017

APPROVED BY: _____

DATE: _____

Job Name: Victor Valley WRA
 Job Number: 1763
 Extension Name: dc 114 MBR AC

[Items and ByProducts]

Material Filter: <None>
 Report: Price 1 & SCC Bid Labor

Label Set: Combined, Combined, Combined, Combined, Combined				(\$217.42)	-8.32		
Cost Code: 020 - Wire/Cable				(\$217.42)	-5.28		
75	10 XHHW CU STRANDED	-150.00	\$183.10 M	(\$27.46)	6.40 M	-0.96	c020
77	6 XHHW CU STRANDED	-450.00	\$422.13 M	(\$189.96)	9.60 M	-4.32	c020
Cost Code: 030 - Power Distribution				\$0.00		-3.04	
8,801	60A 600V 3 PH 3 FUSED	-1.00	\$0.00 Q	\$0.00	3.04 E	-3.04	c030
[Items and ByProducts] Total:				(\$217.42)	-8.32		

PCO # 90

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

COH - DC 119 - Supervisory Relay Modifications

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 10/02/2017
Submitted To: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Grant Gourley, EADOC-VVWRA-Sub-R - Juan Castillo, EADOC-VVWRA-Sub-R - Lynene Voelker
Status: Pending
Priority: High
Pending On User: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Lynene Voelker, EADOC-VVWRA-Sub-R - Juan Castillo
Pending On Org: Victor Valley Wastewater Reclamation Authority, Carollo Engineers, W M Lyles Co

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 10/02/2017

Contractor's PCO #:

Reason: Design Omissions
Requested By: Owner

Change Date:**Schedule ID:****Not to Exceed \$:** 0.00**Set:**

Approved Thru Last:	769,284.22
Amount Added:	6,145.01
New Approved Amount:	775,429.23
Current Contract Duration:	821
Days Added:	0
New Contract Duration:	821

Budget :**Funding:****Cost Item:**

16-61

eadoC

PCO # 90

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05

References

DCM # 119	DC 119 - Supervisory Relay Modifications- RFI 411	Closed
Correspondence # 142	DC 119 - Supervisory Relay Modifications	Closed

Contractor

Signature	Print Name	Date
-----------	------------	------

Construction Manager

Signature	Print Name	Date
-----------	------------	------

Owner

Signature	Print Name	Date
-----------	------------	------

PCO COH 090 - Evaluation Summary - OH&P				
Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ -		\$ -
2	Materials	\$ -		\$ -
3	Equipment	\$ -		\$ -
	CAT Material Credit			\$ -
	Total	\$ -		\$ -
	Markup	\$ -	15%	\$ -
	Subtotal	\$ -		\$ -
Subs				
4	Southern Electrical	\$ 4,230.76		\$ 3,642.50
		\$ 714.67		\$ 615.30
	Subcontract Subtotal	\$ 4,945.43		\$ 4,257.80
	Subcontract Bond & Ins	\$ 49.45	1%	
	Subtotal	\$ 4,994.89		\$ 4,257.80
	GC-Subcontractor Markup	\$ 249.74	5%	\$ 212.89
	Total	\$ 5,244.63		\$ 4,470.69
	Subcontractor OH&P		15%	\$ 638.67
	Subcontractor Bond & Ins		1%	\$ 42.58
	GC Bond & Ins	\$ 52.45	1%	\$ 44.71
	Total	\$ 5,297.08	COH	\$ 5,196.64



California Contractor's License No. 422390

Southern Division - **Temecula Office**
 42142 Roick Drive
 Temecula, CA 92590
 Telephone (951) 973-7393
 Fax (951) 698-3031

www.wmlyles.com

An Equal Opportunity Employer

January 26, 2018

Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-90 – DC 119 Supervisory Relay Modifications

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in DC 119 to provide four supervisory relays for the Storm Water Pump Control Panels. Below is the cost incurred for making the modifications.

Trimax	\$829.02
<u>Southern</u>	<u>\$4,486.97</u>
Total	\$5,315.99
	\$5,196.64

The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
 Project Executive
 W.M. Lyles Co.



COR – Change Order Request Trimax Systems COR No. 43

To: Southern Contracting Company 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069 Attention: Steve Vickers	Date: January 17, 2018
	Job No.: P-2192
	Project: Victor Valley Wastewater Reclamation District Subregional Water Reclamation Plants
From: Brian Bryce	Date Required: February 24, 2017
	Supporting Docs: DC119
	Drawing Ref.: None
	Spec Ref.: 11312G-3 2.01

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Fixed Price	\$1,427.50	N/A	None

Subject: Supervisory relays four (4) total for pumps P-1510 & P-1520 at Hesperia and Apple Valley

Summary: Provide four (4) supervisory KSB pump safe relays in Storm Water Pump Control Panels 01-LCP-500 for both Hesperia and Apple Valley per Trimax RFI-055.

Includes installation, wire, testing and updates to drawings and schematics.

Please issue a change order for \$1,427.50 for the above requested changes.

Trimax Systems, Inc. has completed this work and the pricing is based on T&M costing.

TOAV	
Trimax	\$713.75
WML Markup	\$107.06
WML Bond	\$8.21
Total	\$829.02



Southern Contracting Company

PO Box 445, San Marcos, CA 92079-0445
(T) 760-744-0760 (F) 760-744-6475
Lic. No. 222252

Cost Proposal/Estimate for Extra Work

LYLES NO.
SCC COR NO. 131
SCC JOB NO. 100531

PROJECT: Victor Valley Wastewater Reclamation Authority
Subregional WRP's
W.M. Lyles Co.
TO: Attention: Grant Gourly
42142 Roick Drive
Temecula, CA 92590

THE FOLLOWING BUDGET PROPOSALIS SUBMITTED HEREWITH FOR YOUR APPROVAL:

REFERENCE: DC119

DESCRIPTION: T and M Supervisory Relays

Table with 2 columns: Description and Amount. Rows include Direct Materials (\$6,745), Sales Tax on Materials (\$540), Direct Labor, Rental Equipment, Sales Tax on Rental Equipment, Subcontract & Outside Services, SUBTOTAL (7,285), Overhead and Profit (Materials \$1,093, Direct Labor, Equipment, Subcontract & Outside Services), SUBTOTAL (8,378), Bond (\$84), and TOTAL PROPOSAL/ESTIMATE (8,462).

Estimated Time Extension Required TBD days
WML Markup - \$423.10
WML Bond - \$88.85
WML Total - \$8,973.95

SUBMITTED BY: Brendan Bradford DATE: 1/26/2018

APPROVED BY: DATE:
COH - 4,486.97 TOAV - \$4,486.98
16-66

Breakdown of Direct Cost

AWC PCO NO. 0

CONTRACTOR WORK ITEMS	QTY	MATERIAL		LABOR		EQUIPMENT	
		UNIT (\$)	EXT	UNIT (HR)	EXT	RATE (\$)	EXT
1 This Design Clarification (DC) includes the wiring modifications for the supervisory relays needed to meet the pump supplier's warranty requirement, per RFI 411. Control wiring diagrams for the following pumps are revised: Reclaimed water pumps (CD-10), Plant water pumps (CD-10A), Feed forward pumps (CD-05), and Hesperia LS pumps (CD-01). All of the control wiring diagrams listed above have also been modified to provide an ON-DELAY contact for the suspension of the evaluation of the pump protection circuits upon energization. The contact from an existing ON-Delay timer was used for the RWPS and FFPS pumps. However, a new ON-Delay timer was needed for the Hesperia Lift Station pumps.	Lot	6,745.13	6,745.13				
				RATE / HR	\$69.14		
TOTAL CONTRACTOR'S WORK		\$	6,745.13	\$	-	\$	-

SUBCONTRACTOR WORK ITEMS	QTY	MATERIAL		LABOR		EQUIPMENT		
		UNIT (\$)	EXT	UNIT (\$)	EXT	DAYS	RATE (\$)	EXT
TOTAL SUBCONTRACTOR'S WORK		\$	-	\$	-	\$	-	-



CORPORATE OFFICE
615 ALPHA DRIVE
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BENSHAW CANADA
550 BRIGHT ST. E.
LISTOWEL, ONTARIO N4W 3W3
CANADA
PHONE: 519 . 291 . 5112
FAX: 519 . 291 . 2595
www.benshaw.com

QUOTATION: 100162424 Rev.5/10/2017 1:53 PM

DATE	3/24/2017	PROJECT/APPLICATION	RSI015SG4CBA12-ENG-00001
PO NUMBER	PO 36996 (Change Order 00001)	QUOTED BY	Brian Barrett
JOB NUMBER REF	MODIFACTIONS PGH004180		
CUSTOMER	SOUTHERN CONTRACTING COMPANY	SHIP TO NAME	HESPERIA WRP
BILL TO ADDRESS	559 NORTH TWIN OAKS VALLEY ROAD	SHIP TO ADDRESS	14269 MOJAVE STREET
	SAN MARCOS		HESPERIA
	CA		CA
	92069		92345
	US		US
NAME	STEVE VICKERS	TERMS	Net 30
BUSINESS PHONE	(760) 744-0760	FREIGHT	Due
MOBILE PHONE	(619) 520-6248		
FAX		SHIP VIA	BESTWAY (RBC CC GROUP)
EMAIL	svickers@southerncontracting.com	FOB	Shipping Point

QUOTE VALID FOR 60 DAYS

PLEASE REFERENCE QUOTE NUMBER WITH YOUR ORDER

LINE	QTY	ITEM	TYPE	PRICE	UOM	NET
1	6.0	TRAVEL LV OVERTIME	Bill Only	\$159.00	HR	\$954.00
2	6.0	LABOR LV OVERTIME	Bill Only	\$159.00	HR	\$954.00
3	7.0	TRAVEL LV	Bill Only	\$106.00	HR	\$742.00
4	16.0	LABOR LV STANDARD	Bill Only	\$0.00	HR	\$0.00
5	1.0	FS AIRFARE	Bill Only	\$1,183.88	EA	\$1,183.88
6	1.0	FS HOTEL	Bill Only	\$947.60	EA	\$947.60
7	6.0	FS MEALS	Bill Only	\$40.00	DA	\$240.00
8	1.0	FS RENTAL CAR / TAXI	Bill Only	\$339.46	EA	\$339.46
9	180.0	FS MILEAGE	Bill Only	\$0.70	MI	\$126.00
10	1.0	FS MISC	Bill Only	\$115.00	EA	\$115.00
Subtotal						\$5,601.94
T&E Administration Fees						\$295.19
Total						\$5,897.13

Please note that this is an estimate. Benshaw, Inc. invoices per the current service rate sheet for actual services rendered. Weekend and/or holiday travel will be charged per the current rate sheet.

* This proposal is subject to the Bensch



CORPORATE OFFICE
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FAX: 412 . 968 . 5415
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550 BRIGHT ST. E.
LISTOWEL, ONTARIO N4W 3W3
CANADA
PHONE: 519 . 291 . 5112
FAX: 519 . 291 . 2595
www.benshaw.com

QUOTATION: 100200853 Rev.8/21/2017 10:58 AM

DATE	7/11/2017	PROJECT/APPLICATION	RSI519060SG4CBA12-ENG-00001
PO NUMBER	PO 36996 (Change Order 00001) MODS	QUOTED BY	Brian Barrett
JOB NUMBER REF	PGH004201		
CUSTOMER	SOUTHERN CONTRACTING COMPANY	SHIP TO NAME	APPLE VALLEY WRP
BILL TO ADDRESS	559 NORTH TWIN OAKS VALLEY ROAD	SHIP TO ADDRESS	21024 OTOE ROAD
	SAN MARCOS CA 92069 US		APPLE VALLEY CA 92307 US
NAME	STEVE VICKERS	TERMS	Net 30
BUSINESS PHONE	(760) 744-0760	FREIGHT	PPB
MOBILE PHONE	(619) 520-6248		
FAX		SHIP VIA	FEDEX 2 DAY AIR
EMAIL	svickers@southerncontracting.com	FOB	Shipping Point

QUOTE VALID FOR 60 DAYS PLEASE REFERENCE QUOTE NUMBER WITH YOUR ORDER

LINE	QTY	ITEM	TYPE	PRICE	UOM	NET
3	8.0	LABOR LV STANDARD	Bill Only	\$106.00	HR	\$848.00
				Subtotal		\$848.00
				T&E Administration Fees		0
				Total		\$848.00

Please note that this is an estimate. Benshaw, Inc. invoices per the current service rate sheet for actual services rendered. Weekend and/or holiday travel will be charged per the current rate sheet.

* This proposal is subject to the Bensch

PCO # 91

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

**COH - DC 123 Damper & Make Up
Air UNIT Controls & FM 200**

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 10/15/2017
Submitted To: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Grant Gourley, EADOC-VVWRA-Sub-R - Lynene Voelker
Status: Pending
Priority: High
Pending On User: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Lynene Voelker
Pending On Org: Victor Valley Wastewater Reclamation Authority, Carollo Engineers

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 10/15/2017

Contractor's PCO #:

Reason: Design Omissions
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 769,284.22
Amount Added: 35,360.21
New Approved Amount: 804,644.43
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

PCO # 91

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05

References

DCM # 123.A	DC 123 - Damper and Make Up Air Unit Controls	Closed
DCM # 123.B	DC 123R - Revision to Damper and Make Up Air Unit Controls	Closed
Correspondence # 144	DC 123 Damper & Make Up Air UNit Controls & FM 200	Closed

Contractor

Signature	Print Name	Date
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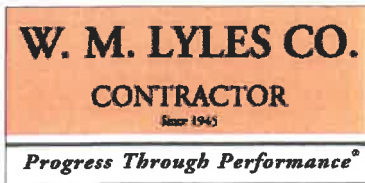
Construction Manager

Signature	Print Name	Date
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Owner

Signature	Print Name	Date
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PCO COH 091 & TOAV 096 - Evaluation Summary - OH&P				
Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ -		\$ -
2	Materials	\$ -		\$ -
3	Equipment	\$ -		\$ -
	Trimax	\$ 8,121.18		\$ 8,121.18
	Total	\$ 8,121.18		\$ 8,121.18
	Markup	\$ 1,218.18	15%	\$ 1,218.18
	Subtotal	\$ 9,339.36		\$ 9,339.36
Subs				
4	Southern Electrical	\$ 16,158.03		\$ 13,911.35
	AMS HVAC	\$ 4,523.00		\$ 3,894.10
		\$ -		\$ -
	Alert-One	\$ 3,380.59		\$ 2,910.54
	Subcontract Subtotal	\$ 24,061.63		\$ 20,715.99
	Subcontractor Bond & Ins	\$ 240.62	1%	
	Subtotal	\$ 24,302.24		\$ 20,715.99
	GC-Subcontractor Markup	\$ 1,215.11	5%	\$ 1,035.80
	Total	\$ 34,856.71		\$ 31,091.15
	Subcontractor OH&P		15%	\$ 3,107.40
	Subcontractor Bond & Ins		1%	\$ 207.16
	GC Bond & Ins	\$ 348.57	1%	\$ 310.91
	Total	\$ 35,205.28	COH	\$ 34,716.62
			TOAV	\$ 34,716.62



California Contractor's License No. 422390

Southern Division - **Temecula Office**
 42142 Roick Drive
 Temecula, CA 92590
 Telephone (951) 973-7393
 Fax (951) 698-3031

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February 5, 2018

Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-91 DC 123 Damper, FM 200 & Makeup Air Units Changes

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from DC 123 to modify the Damper, FM 200 and Makeup Air units. WML completed this work as directed and the cost to complete this work is ~~\$35,360.21~~. The breakdown of this amount is attached. **\$34,716.62**

WML does not expect any time impacts associated with this extra work. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
 Project Executive
 W.M. Lyles Co.

Subcontractors:	AMS HVAC	\$ 9,046.00	Suppliers:	Trimax	\$ 16,242.36
	AlertOne Fire	\$ 6,761.18		WML Markup	\$ 3,248.47
	Southern Contracting	\$ 32,316.05			
	<u>Sub Total</u>	<u>\$ 48,123.23</u>			
	WML Markup	\$ 2,406.16			
	<u>Total Subs</u>	<u>\$ 50,529.39</u>		<u>Total Supplier</u>	<u>\$ 19,490.83</u>
	Bond	\$ 700.20			
	<u>Total</u>	<u>\$ 70,720.43</u>			
	COH	\$ 35,360.21			
	TOAV	\$ 35,360.21			



13619 Terrace Pl
Whittier, CA 90601
(417) 731-2229

Change Order

Quote #: PCO-03
Date: 10/5/2017
Valid Until: N/A
Quoted By: Christopher Visocky
Phone: (760) 809-4151
Email: cvisocky@alertone.us

Project Name: Subregional Water Reclamation Plants Project - T-1139

Quoted To:
WM Lyles PO Box 4377 Fresno, CA 93744

Scope of Work
Added Equipment and material to monitor and shutdown added damper in room 1110 servicing room 1101. Apple Valley site

Qty	Model Number	Description	Price Ea	Ext Price
1	PAD 100-TRTI	PAD 100 Two Relay /Two Input	\$ 196.79	\$ 196.79
1	0	Conduit, connectors, backboxes, mounting material	\$ 514.29	\$ 514.29
24	Labor		\$ 92.86	\$ 2,228.57
Special Instructions			Subtotal:	\$ 2,939.64
			Tax:	
			Freight:	
			10%	\$ 293.96
			5%	\$ 146.98
			Total Price:	\$ 3,380.59

Terms & Conditions

Accepted: _____
Date: _____



AMS AMERICA, INC., G.P.

ANDERSON AIR CONDITIONING, L.P.

2100 E. Walnut Avenue, Fullerton, CA 92831 (714) 888-6800 FAX: (714) 888-2697

California License No. 894408
B, C-10 & C-20
Nevada License No. 0074325
C21B

January 26, 2018

WM Lyles Co.
PO Box 4377
Fresno, Ca. 93744
Attn: Grant Gourley

Change Order #5: work associated with DC-123 for both Hesperia & Apple Valley WRP Sites -
(REVISED 1-26-18)

Scope of Work (for both Apple Valley and Hesperia WRP):

- Demo existing balancing dampers on OSA duct between walls and the Air Handling Unit Section (of 11-AC-01)
- Install new 24"x16" smoke damper and new 24"x16" balancing damper between walls and the Air Handling Unit Section (of 11-AC-01). The smoke dampers will be the same make/model/type that we have already submitted on for the rest of the project.
- For all units that have duct mounted smoke detectors, we need to remove all thermostat wiring within the controls conduit so the that the electrician can add a conduit from the smoke detectors to the controls conduit before it goes through the roof. After the electrician is completed, we will reinstall (or replace as needed) all controls wiring from the AC units to the thermostats and add wiring to interlock the AC unit to the smoke detector. (For units that serve Electrical Rooms, while the electricians are reworking the conduit, we will temporarily relocate the thermostats to the return duct and set the fan to run 24/7 so that the Electrical Rooms stay cool.)

Scope of Work (for the Operations Area at Hesperia WRP only):

- Since there is no alarm control for the smoke damper within this space, we will:
 - Disconnect and safe off power at the nearest junction box for all smoke dampers.
 - Loosen up damper linkages and/or set screws for all smoke dampers, twist shafts to open position and tighten all linkages and/or set screws

Our Price for the scope above is: \$9,046.00

- Labor (Journeyman = \$4,665.00 / Apprentice = \$1,442.00) = \$6107.00
- Material (including tax & mark-up) = \$2,939.00

Exclusions: Any work not listed above including the Apple Valley WRP Operations Area as we do not know what the final controls strategy is for that space.

Thank you

Accepted By: _____

Garret Patterson

Date: _____

Southern Contracting Co.

CHANGE ORDER REQUEST

No. 00137

TITLE: DC 123 Damper and Make Up Air Unit

DATE: 02/02/2018

PROJECT: Victor Valley Subregional WRPq

JOB: 100531

TO: Attn: Grant Gourley
W.M. Lyles

CONTRACT NO: 1

42142 Roick Drive
Temecula, CA 92590
Phone: 951-973-7393

Fax: 951-698-3031

RE: To: From: Number:

DESCRIPTION OF PROPOSAL

Design Change # 123 Damper and Make up Air Unit Controls

T&M Electrical work for DC 123

Item	Description	Stock #	Quantity	Units	Unit Price	Tax Rate	Tax Amount	Net Amount
3	DC 123 Damper and Make Up Air Unit Controls		1.000		\$32,316.05	0.00%	\$0.00	\$32,316.05

Unit Cost: \$32,316.05

Unit Tax: \$0.00

Total: \$32,316.05

APPROVAL:

By: _____
Grant Gourley

By: _____
Brendan Bradford

Date: _____

Date: _____

Southern Contracting Co.

T&M Recapitulation Work Sheet

SCC Job No: 100531

Project Descr: Victor Valley WRP - DC 123

Customer: W.M. Lyles Co.

Page	Amount	Hours	Labor	Material	Equipment
1	\$6,876.40	42	\$3,825.01	\$2,180.41	\$802.90
2	\$4,039.10	28	\$2,550.01	\$471.79	\$977.31
3	\$6,950.60	42	\$3,837.97	\$1,260.87	\$1,782.95
4	\$11,251.81	66	\$6,017.21	\$2,808.93	\$2,314.27
5	\$2,967.51	23	\$2,169.17	\$237.66	\$531.30
6	\$230.62	0	\$0.00	\$2.28	\$0.00
Subtotals	\$32,316.05	201	\$18,399.37	\$6,961.94	\$6,408.73
Grand Total	\$32,316.05				



T&M COST BREAKDOWN

SCC JOB NO. 100531
DESCRIPTION: DC 123 Damper and make up air unit controls

Daily Work Report No.

Table with columns for Labor Classification, Rate, Hours (10/30/2017 to 11/3/2017), Total Hours, Cost Summary, and Totals. Includes sub-sections for Equipment (Service Truck, Threader, Green Lee Bender) and Materials, Services, Other (various electrical supplies).



T&M COST BREAKDOWN

SCC JOB NO. 100531
 DESCRIPTION: 123 Damper and make up air unit controls

Daily Work Report No.				
12/5/2017	12/6/2017	12/7/2017		

LABOR							Total Hours	Cost Summary	Totals
Classification	Rate	Hours	Hours	Hours	Hours	Hours			
General Foreman	\$84.46 /hr	5	1	5.5			11.5	\$971.29	
Foreman	\$78.85 /hr	4	3	4.5			11.5	\$906.78	
							0		
							0		
							0		
							0		
							0		
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							0		
Totals		9	4	10	0	0	23		
								Subtotal 1	\$1,878.07
								OH 10.00%	\$187.81
								Subtotal 2	\$2,065.88
								Profit 5.00%	\$103.29
								Subtotal 3	\$2,169.17
EQUIPMENT							Total Units		
Description	Rate	Hours	Hours	Hours	Hours	Hours			
							0		
							0		
							0		
Service Truck (Utility Bed)	ST \$20.00 /hr	9	4	10			23	\$460.00	
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								Subtotal 4	\$460.00
								OH 10.00%	\$46.00
								Subtotal 5	\$506.00
								Profit 5.00%	\$25.30
								Subtotal 6	\$531.30
MATERIALS, SERVICES, OTHER							Total Qty	Taxable	
Description	Price Unit	Qty	Qty	Qty	Qty	Qty			
Wire Lables	\$2.00 ea	40	6	10			56	Y \$112.00	
Eaton D3PA2 Base	\$12.92 ea	1		1			2	Y \$25.84	
Eaton Relay D3PF2AA	\$24.90 ea	1		1			2	Y \$49.80	
#14 MTW Wire	\$0.12 ea	12		12			24	Y \$2.88	
							0	Y	
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								Subtotal 7	\$190.52
								TAX 8.00%	\$15.24
								Subtotal 8	\$205.76
								OH 10.00%	\$20.58
								Subtotal 9	\$226.34
								Profit 5.00%	\$11.32
								Subtotal 10	\$237.66
								Bond 1.00%	\$29.38
								TOTAL - Pg. 5	\$2,967.51



T&M COST BREAKDOWN

SCC JOB NO. 100531
 DESCRIPTION: DC 123 Damper and make up air unit controls

Daily Work Report No.				
1/25/2018	1/29/2017			

LABOR		Rate	1/25/2018	1/29/2017				Total Hours		Cost Summary	Totals
Classification	Local		Hours	Hours	Hours	Hours	Hours				
Foreman		\$78.85 /hr	1	1				2		\$157.70	
								0			
								0			
								0			
								0			
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								0			
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								0			
								0			
								0			
Totals			1	1	0	0	0	2			

Subtotal 1		\$157.70
OH	10.00%	\$15.77
Subtotal 2		\$173.47
Profit	5.00%	\$8.67
Subtotal 3		\$182.14

EQUIPMENT		Rate	1/25/2018	1/29/2017				Total Units			
Description			Hours	Hours	Hours	Hours	Hours				
Service Truck (Utility Bed)	ST	\$20.00 /hr	1	1				2		\$40.00	
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Totals			1	1				2			

Subtotal 4		\$40.00
OH	10.00%	\$4.00
Subtotal 5		\$44.00
Profit	5.00%	\$2.20
Subtotal 6		\$46.20

MATERIALS, SERVICES, OTHER		Price Unit	Qty	Qty	Qty	Qty	Qty	Total Qty	Taxable		
Description											
								0	Y		
								0	Y		
								0	Y		
								0	Y		
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								0	Y		
								0	Y		
								0	Y		
Totals								0	Y		

Subtotal 7		\$0.00
TAX	8.00%	\$0.00
Subtotal 8		\$0.00
OH	10.00%	\$0.00
Subtotal 9		\$0.00
Profit	5.00%	\$0.00
Subtotal 10		\$0.00
Bond	1.00%	\$2.28
TOTAL - Pg. 6		\$230.62



COR – Change Order Request - Trimax Systems COR No. 50

To: Southern Contracting Company 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069 Attention: Steve Vickers	Date: December 14, 2017 Job No.: P-2192 Project: VVWRA Sub-regional Water Reclamation Plants Date Required: December 15, 2017 Supporting Docs: DC123
From: Marty McLaughlin	

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Time and Material	\$16,242.36	Complete as of 12-8-2017	N/A

Subject:

Interlocking Fans with the FACP and providing alarming features.

Each facility requires (Hesperia and Apple Valley):

- Adding (3) Digital Inputs from the fire alarm control panel FACP for trouble, alarm and supervisory.
- Adding (1) Digital Output for fan interlocks.
- Adding (1) 4 pole relay for hardwired fan shutdown interlocks
- Modifying PLC programs, HIMI Programs and SCADA programs to add the new features associated with the new digital inputs from the FACP only and the new digital output for the new added relay.
- Drawing Updates include new loop drawing, modifications to the fan panels to show the added FACP alarm, modifications to the main PLC panel drawings to show the added I/O, modifications to the panel layout drawings to show the added relay.
- Updating testing documents.
- Field installation of the 4 pole relay.
- Point to Point testing.
- Loop testing.
- Operation verification.

This proposal is based on all new I/O is to be wired to existing spare I/O. Existing drawings shall be modified to show these changes.



	Apple Valley			Hesperia		
Taxable						
Materials						
Relay - 4 pole for fan interlocks (10) wires	1	\$ 114.60	\$ 114.60	1	\$ 114.60	\$ 114.60
Material Cost			\$ 114.60			\$ 114.60
Material Profit		15%	\$ 17.19		15%	\$ 17.19
Sub Total			\$ 131.79			\$ 131.79
Sales Taxes		7.75%	\$ 10.21		7.75%	\$ 10.21
Sub Total			\$ 142.00			\$ 142.00
Labor	Hours	Rate		Hours	Rate	
Engineering	38.5	\$ 160.00	\$ 6,160.00	38.5	\$ 160.00	\$ 6,160.00
Technician	13.5	\$ 110.00	\$ 1,485.00	13.5	\$ 110.00	\$ 1,485.00
Truck						
Mileage to/from Sites to/from Brea	539	\$ 0.62	\$ 334.18	539	\$ 0.62	\$ 334.18
Total Non-Taxable			\$ 7,979.18			\$ 7,979.18
12/14/2017			\$ 8,121.18			\$ 8,121.18

Please issue a change order for \$16,242.36

PCO # 92

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

**COH - Modifications to Process
Drain Pump Station Level Indicating
Transmitter**

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 11/26/2017
Submitted To: EADOC-VVWRA-Sub-R - Alton
Anderson, EADOC-VVWRA-Sub-R -
Charles Reynolds, EADOC-VVWRA
-Sub-R - Grant Gourley, EADOC
-VVWRA-Sub-R - Juan
Castillo, EADOC-VVWRA-Sub-R -
Lynene Voelker
Status: Pending
Priority: High
Internal Priority: High
Pending On User: EADOC-VVWRA-Sub-R - Alton
Anderson, EADOC-VVWRA-Sub-R -
Lynene Voelker, EADOC-VVWRA
-Sub-R - Juan Castillo
Pending On Org: Victor Valley Wastewater
Reclamation Authority, Carollo
Engineers, W M Lyles Co

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 11/26/2017

Contractor's PCO #:

Reason: Unforeseen / Changed Site Conditions
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 769,284.22
Amount Added: 12,017.00
New Approved Amount: 781,301.22
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

16-87

eadoc

Budget :

PCO # 92

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05 - 19 - Process Drains Pump Station

References

RFI # 441	Ultrasonic Level Sensor for the Process Drain PS	Closed
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Contractor

Signature	Print Name	Date
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Construction Manager

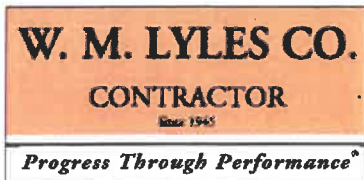
Signature	Print Name	Date
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Owner

Signature	Print Name	Date
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PCO TOAV 092 - Evaluation Summary - OH&P

Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ 554.68		\$ 554.68
2	Materials	\$ -		\$ -
3	Equipment	\$ 107.80		\$ 107.80
	Trimax	\$ 8,305.69		\$ 8,305.69
	Total	\$ 8,968.17		\$ 8,968.17
	Markup	\$ 1,345.23	15%	\$ 1,345.23
	Subtotal	\$ 10,313.40		\$ 10,313.40
Subs				
4	Southern Electrical	\$ 1,507.42		\$ 1,299.50
	Tirmax	\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
	Subcontract Subtotal	\$ 1,507.42		\$ 1,299.50
	Subcontract Bond & Ins	\$ 15.07	1%	
	Subtotal	\$ 1,522.49		\$ 1,299.50
	GC-Subcontractor Markup	\$ 76.12	5%	\$ 64.98
	Total	\$ 11,912.01		\$ 11,677.87
	Subcontractor OH&P		15%	\$ 194.93
	Subcontractor Bond & Ins		1%	\$ 13.00
	GC Bond & Ins	\$ 119.12	1%	\$ 116.78
	Total	\$ 12,031.13		\$ 12,002.57



California Contractor's License No. 422390

Southern Division - **Temecula Office**
 42142 Roick Drive
 Temecula, CA 92590
 Telephone (951) 973-7393
 Fax (951) 698-3031

www.wmlyles.com

An Equal Opportunity Employer

February 8, 2018

Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-92 Ultrasonic Level Sensor for the Process Drain PS

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to remove and replace the level sensors in the Process Drain PS. WML deems this change to be additional work and the cost for this change is ~~\$12,017.00~~. The breakdown of this amount is attached. \$12,002.57

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
 Project Executive
 W.M. Lyles Co.

W. M. Lyles Co.
 42142 Roick Drive
 Temecula, CA 92590

Date: 8-Feb-18

Reference #:

Attention: Alton Anderson

Project: VVWRA Subregional Plants Project

Description: COH 92 Process Drain Pump Station Level Transmitter Mods

Item:	Unit	Total MH	MH Cost	Total MH Cost	Eq. Cost	Material	Subcont.	Total Cost
COH 92 Process Drain Pump Station Level Transmitter LS	LS	8	-	\$ 554.68	\$ 107.80	\$ 8,305.69	\$ 1,509.50	\$ 10,477.67
Total Costs		8		\$ 554.68	\$ 107.80	\$ 8,305.69	\$ 1,509.50	\$ 10,477.67

Subtotal	\$	10,477.67
Mark-up - Labor	\$	83.20
Mark-up - Equipment	\$	16.17
Mark-up - Materials	\$	1,245.85
Mark-up - Subcontractor	\$	75.48
Bond	\$	118.98
Total This Change Order	\$	12,017.00

Comments:

VWRA Subregional Plants Project

COH 92 Process Drain Pump Station Level Transmitter Mods

2/8/2018

A. Labor

0.00

Description	Op FM	Op	Lab FM	Lab	Carp	CM			
Install Stilling Well					8				
	0	0	0	0	8	0		0	0

Name	Rate	Hours	Extension
Op FM	\$84.63	0	\$0.00
Op	\$81.99	0	\$0.00
Lab FM	\$67.55	0	\$0.00
Lab	\$65.23	0	\$0.00
Carp	\$69.33	8	\$554.68
CM	\$67.98	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
		8	
Total Labor =			\$554.68

B. Equipment

Description	15.205	18.284	15.184	18.254	35.066	18.278	31.012	30.045	30.628
Pickup	4								
	4	0	0	0	0	0	0	0	0

Number	Description	Rate	Hours	Extension
15.205	Truck	\$26.95	4	\$107.80
18.284	Yard Truck	\$26.95	0	\$0.00
15.184	Truck	\$26.95	0	\$0.00
18.254	Truck	\$26.95	0	\$0.00
35.066	Loader	\$142.00	0	\$0.00
18.278	Truck	\$26.95	0	\$0.00
30.045	John Deere Backhoe	\$58.53	0	\$0.00
30.628	CAT Rental Backhoe	\$39.56	0	\$0.00
31.012	Skidsteer	\$30.00	0	\$0.00
Total Equipment =				\$107.80

C. Materials

Description	Quantity	Unit	Price	Extension
Trimax	1	LS	\$8,305.69	\$8,305.69
				\$0.00
				\$0.00
				\$0.00
				\$0.00
Total Material =				\$8,305.69

D. Subcontractor

Description	Quantity	Unit	Price	Extension
Southern Contracting	1	LS	\$1,509.50	\$1,509.50
				\$0.00
				\$0.00
				\$0.00
Total Subcontract =				\$1,509.50



Southern Contracting Company

PO Box 445, San Marcos, CA 92079-0445
(T) 760-744-0760 (F) 760-744-6475
Lic. No. 222252

Cost Proposal/Estimate for Extra Work

PROJECT: **Victor Valley Wastewater Reclamation Authority**
Subregional WRP's
W.M. Lyles Co.
TO: **Attention: Grant Gourly**
42142 Roick Drive
Temecula, CA 92590

LYLES NO. _____
SCC COR NO. 138
SCC JOB NO. 100531

THE FOLLOWING BUDGET PROPOSALIS SUBMITTED HEREWITH FOR YOUR APPROVAL:

REFERENCE: **RFI #441B**

DESCRIPTION: **Ultrasonic Level Sensor for the Process Drain PS**

(a) Direct Materials [from Breakdown]	\$	667
(b) Sales Tax on Materials [8.0% of (a)]	\$	53
(c) Direct Labor [from Breakdown]	\$	1,447
(d) Rental Equipment [from Breakdown]	\$	400
(e) Sales Tax on Rental Equipment [8.0% of (d)]	\$	32
(f) Subcontract & Outside Services [from Breakdown]	\$	-
(g) SUBTOTAL [(a)+(b)+(c)+(d)+(e)+(f)]	\$	2,599
(h) Overhead and Profit:		
Materials [15% of (a)+(b)]	\$	108
Direct Labor [15% of (c)]	\$	217
Equipment [15% of (d)+(e)]	\$	65
Subcontract & Outside Services [15% of (f)]	\$	-
(i) SUBTOTAL [(g)+(h)]	\$	2,989
(j) Bond [1.0% of (i)]	\$	30
TOTAL PROPOSAL/ESTIMATE [(i)+(j)]	\$	3,019

Estimated Time Extension Required TBD days

SUBMITTED BY: _____
Brendan Bradford

DATE: 1/26/2018

APPROVED BY: _____

DATE: _____

Breakdown of Direct Cost

AWC PCO NO. 0

CONTRACTOR WORK ITEMS	QTY	MATERIAL		LABOR		LABOR		EQUIPMENT		
		UNIT (\$)	EXT	UNIT (HR)	EXT	UNIT (HR)	EXT	RATE (\$)	EXT	
1 Hesperia										
2 Labor	1 Lot		-	1.00	1.00	8.00	8.00			-
3 Material	1 Lot	236.54	236.54		-		-			-
4 Truck			-		-		-	10.0	\$ 20.00	\$ 200.00
5			-		-		-			-
6			-		-		-			-
7 Apple Valley										-
8 Labor	1 Lot		-	2.00	2.00	8.00	8.00			-
9 Material	1 Lot	430.51	430.51		-		-			-
10 Truck			-		-		-	10.0	\$ 20.00	\$ 200.00
11			-		-		-			-
12			-		-		-			-
13			-		-		-			-
14			-		-		-			-
15			-		-		-			-
16			-		-		-			-
				TOTAL HRS	3.00	TOTAL HRS	16.00			
				RATE / HR	\$81.24	RATE / HR	\$75.19			
TOTAL CONTRACTOR'S WORK		\$	667.05	\$	243.72	\$	1,203.04	\$		400.00
				TOTAL HRS		\$	1,446.76			

SUBCONTRACTOR WORK ITEMS	QTY	MATERIAL		LABOR		LABOR		EQUIPMENT		
		UNIT (\$)	EXT	UNIT (\$)	EXT	UNIT (\$)	EXT	DAYS	RATE (\$)	EXT
TOTAL SUBCONTRACTOR'S WORK		\$	-	\$	-	\$	-	\$		-

PL08089
72

DAILY WORK REPORT

SOUTHERN CONTRACTING COMPANY, INC.
P. O. BOX 445 — SAN MARCOS, CALIFORNIA

RTI 441

LICENSE #22225

TO MWH / Wm Lyles SUPT. OR FOREMAN
 LOCATION Hesperia W.K.P. DAY OF WEEK Friday JOB NO. 700581
 DESCRIPTION LIT change out for process drain pump station and S-Box Installation. DATE 1/17/17

CUSTOMER APPROVAL

TIME SHIFT START 6:30 TIME SHIFT STOP 3:00

CLASSIFICATION	EMPLOYEE'S NAME			TOTAL HRS.	REG HRS.	RATE		AMOUNT	O.T. HRS.	RATE		AMOUNT	TOTAL LABOR COST
	LAST NAME	FIRST NAME	INITIAL										
FW	Long	Douglas		8									
GFW	Stephens	Craig		1									

NO.	SIZE	EQUIPMENT	TOTAL HRS.	[HEAD OFFICE USE ONLY]				LABOR [INCLUDES PAYROLL TAXES, INSURANCE, AND UNION BENEFITS]	MATERIALS, SUBS, SERVICES & RENTALS	SUB-TOTAL	OVERHEAD _____ %	PROFIT _____ %	TOTAL _____ %
				RATE	S. T. AMOUNT	RATE	S. T. AMOUNT						
		Ford F-150 #235	8										
		Chevy #621	1										

INVOICE OR DELIVERY TICKET NO.	QTY.	PURCHASES OF MATERIALS, SUBS, SERVICES & RENTALS	AMOUNT
	1	8" x 6" x 4" S.S. S-Box	
	6"	Dir Nail	
	2	End Anchors	
	2	Terminal Blocks	
	8	Wire Labels	
	3'	TSP Wire	
	6	S.S. 1/4" x 1" Bolts, Washers, Nuts	

EQUIPMENT

TOTAL

[HEAD OFFICE USE ONLY]

Charles Reyna
1/17/17

Item #	Item Name	Quantity	Price 1	U	Ext Price 1
Label Set: Combined, Combined, Combined, Combined, Combined					<u>\$236.54</u>
Cost Code: 010 - Conduit/Raceway					<u>\$200.41</u>
2,614	1/4x1" SS SCREWS	6.00	\$28.88	C	\$1.73
2,621	1/4" SS SADDLE WASHER	6.00	\$35.60	C	\$2.14
2,624	1/4" SS WASHER	6.00	\$10.56	C	\$0.63
2,631	1/4" SS NUT	6.00	\$7.38	C	\$0.44
60,136	N4X 8"x6"x4" Pull Box	1.00	\$195.46	E	\$195.46
Cost Code: 020 - Wire/Cable					<u>\$13.13</u>
4	16 TSP - SHIELDED CABLE BELDEN	3.15	\$360.00	M	\$1.13
60,138	Wire Lables	8.00	\$1.50	E	\$12.00
Cost Code: 140-Instrumentation					<u>\$23.00</u>
60,135	6" Din Rail	1.00	\$10.00	E	\$10.00
60,137	Terminal Blocks	2.00	\$5.00	E	\$10.00
60,139	End Anchors	2.00	\$1.50	E	\$3.00
					<u>\$236.54</u>

PEO# 099

DAILY WORK REPORT

RFI 441

SOUTHERN CONTRACTING COMPANY, INC.
P. O. BOX 445 -- SAN MARCOS, CALIFORNIA

LICENSE # 22221

TO MWH/Wm Lyles SUPT. OR FOREMAN
 LOCATION Apple Valley WWP DAY OF WEEK Thursday DATE 11/18
 DESCRIPTION LIT change out for process drain pump station and box installation. JOB NO. 100581

CUSTOMER APPROVAL

TIME SHIFT START 6:30 TIME SHIFT STOP 3:00

CLASSIFICATION	EMPLOYEE'S NAME			TOTAL HRS.	REG HRS.	RATE	AMOUNT	O.T. HRS.	RATE	AMOUNT	TOTAL LABOR COST
	LAST NAME	FIRST NAME	INITIAL								
FW	Lang	Douglas		8							
GFW	Stephens	Craig		2							

NO.	SIZE	EQUIPMENT	TOTAL HRS.	[HEAD OFFICE USE ONLY]				LABOR (INCLUDES PAYROLL TAXES, INSURANCE, AND UNION BENEFITS)	MATERIALS, SUBS, SERVICES & RENTALS	SUB-TOTAL	OVERHEAD _____ %	PROFIT _____ %	TOTAL _____ %
				RATE	S. T. AMOUNT	RATE	S. T. AMOUNT						
		Ford F 150 #235	8										
		Chery #621	2										

INVOICE OR DELIVERY TICKET NO.	QTY.	PURCHASES OF MATERIALS, SUBS, SERVICES & RENTALS	AMOUNT
	1	8"x6"x4" S.S. J-Box	
	6"	Pin Rail	
	2	End Anchor	
	2	Terminal blocks	
	8	Wire Labels	
	3'	TSP Wire	
	6	SS. 1/4"x1" Bolts, Washers, Nuts	
	6	1/2 ocal straight Conn.	
	2'	Seal Tite	

EQUIPMENT

TOTAL

[HEAD OFFICE USE ONLY]

Charles Rynolds
11/18

Item #	Item Name	Quantity	Price 1	U	Ext Price 1
Label Set: Combined, Combined, Combined, Combined, Combined					<u>\$430.51</u>
Cost Code: 010 - Conduit/Raceway					<u>\$394.38</u>
2,614	1/4x1" SS SCREWS	6.00	\$28.88	C	\$1.73
2,621	1/4" SS SADDLE WASHER	6.00	\$35.60	C	\$2.14
2,624	1/4" SS WASHER	6.00	\$10.56	C	\$0.63
2,631	1/4" SS NUT	6.00	\$7.38	C	\$0.44
3,804	1/2 FLEX WP	2.00	\$178.20	C	\$3.56
3,905	1/2" FLEX WP OCAL STR CONN	6.00	\$31.74	E	\$190.41
60,136	N4X 8"x6"x4" Pull Box	1.00	\$195.46	E	\$195.46
Cost Code: 020 - Wire/Cable					<u>\$13.13</u>
4	16 TSP - SHIELDED CABLE BELDEN	3.15	\$360.00	M	\$1.13
60,138	Wire Lables	8.00	\$1.50	E	\$12.00
Cost Code: 140-Instrumentation					<u>\$23.00</u>
60,135	6" Din Rail	1.00	\$10.00	E	\$10.00
60,137	Terminal Blocks	2.00	\$5.00	E	\$10.00
60,139	End Anchors	2.00	\$1.50	E	\$3.00
					<u>\$430.51</u>



COR – Change Order Request - Trimax Systems COR No. 51

To: WM Lyles 42142 Roick Drive Temecula, CA 92590 Attention: Grant Gourley	Date: February 6, 2018 Job No.: P-2192 Project: VVWRA Sub-regional Water Reclamation Plants Date Required: December 15, 2017 Supporting Docs: RFI441B
From: Marty McLaughlin	

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Time and Material	\$16,611.38	Complete as of 1-29-2018	N/A

Subject: Time and Material as required

Date	Day	Eng/Tech	Hours		Reg	Overtime		Mileage		IRS + 15%	Hotel + 15%	Per Diem	Totals
			Travel	On-Site		Hours	Rate	Hours	Rate				
12/22/2017	Friday	Marvin	3	6.5	8	\$ 110.00	1.5	\$ 165.00	79	79	\$ 0.62		\$ 1,225.46
12/22/2017	Friday	George	3	6.5	8	\$ 160.00	1.5	\$ 240.00	79	79	\$ 0.62		\$ 1,737.96
1/11/2018	Thursday	Marvin	3	7	8	\$ 110.00	2	\$ 165.00	79	79	\$ 0.62		\$ 1,307.96
1/15/2018	Monday	Marvin	3	9	8	\$ 110.00	4	\$ 165.00	79	79	\$ 0.62		\$ 1,637.96
1/24/2018	Wednesday	Marvin	3	2.5	5.5	\$ 110.00	0	\$ 165.00	79	79	\$ 0.62		\$ 702.96
1/24/2018	Wednesday	George	3	2.5	5.5	\$ 160.00	0	\$ 240.00	79	79	\$ 0.62		\$ 977.96
1/25/2018	Thursday	George	3	7.75	8	\$ 160.00	2.75	\$ 240.00	79	79	\$ 0.62		\$ 2,037.96
1/25/2018	Thursday	Maria	0	7	7	\$ 160.00	0	\$ 240.00	0	0	\$ 0.62		\$ 1,120.00
1/29/2018	Monday	Marvin	3	2	5	\$ 110.00	0	\$ 165.00	79	79	\$ 0.62		\$ 647.96
1/29/2018	Monday	George	3	2	5	\$ 160.00	0	\$ 165.00	79	79	\$ 0.62		\$ 897.96
Reference P-2192 COR-51													\$ 12,294.14

Quantity	Item	Description	Unit Price	Amount
1	1	TAXABLE FMB53-AA21JD1CGE25B2 Hydrostatic Level Transmitter 65 ft. Cable Tag #APL-LE/LIT-7705	\$ 1,685.34	\$ 1,685.34
1	2	FMB53-AA21JD1CGE25B2 Hydrostatic Level Transmitter 75 ft. Cable Tag #HES-LE/LIT-7705	\$ 1,701.74	\$ 1,701.74
2	3	P55R-VA24 IDEC PWR SUPPLY 24VDC 0.3A 7.5W DIN MTD	\$ 26.25	\$ 52.50
Reference P-2192 COR-51				
Sub Total				\$ 3,439.58
Material Profit -				15.00% \$ 515.94
Material Sub Total				\$ 3,955.52
Sales Tax -				7.75% \$ 306.55
Shipping Fees				\$ 55.17
Engineer/Field Tech Hours and Mileage (see chart)				\$ 12,294.14
Total Invoice Amount				\$ 16,611.38
Total				\$ 16,611.38

Please issue a change order for \$16,611.38

FOR: T&M Work **W. M. LYLES CO.**
 LOCATION: VMRA-Hesperia 14259 Mojave Street
 Hesperia, CA 92345
 DESCRIPTION: COH-92 Process Drain Pump Station Level Transmitter Modifications
Install Stillage Well
 Date: January 11, 2018
 JOB No. 55.1139 REPORT No. 1
 16,005.0310

EMPLOYEE	CLASSIFICATION	S. T. EARNINGS			EQUIPMENT	Hrs.	Rate	Amount	Total L & E	AMOUNT
		Regular Hrs.	Overtime Hours	Total Amount						
Raymond Lopez	Carp	4.0	0.0	4.0	17.120 Field Truck	4.0			12.00	
Gabriel Ortega	Carp	4.0	0.0	4.0						
		0.0	0.0	0.0						
TOTALS										8.0
DATE	INVOICE NO.	SUPPLIER		MATERIAL OR SUBCONTRACT						
		8.0		0.0		8.0		PVC Material for Stillage Well		
										TOTAL

Charles Reynolds
 MWH Authorized Signatory
 Date: 01/12/2018

Jonathan Quezada
 Digitally signed by Jonathan Quezada
 DN: cn=Jonathan Quezada, email=j.quezada@wmlco.com,
 o=W.M. Lyles Co., ou=Jonathan Quezada
 Date: 2018.01.12 01:15:49-0700
 Date: 1/12/2018

MWH Authorized Signatory
 Date:

PCO # 93

Sub-Regional WRP Projects
Sub Regional WRP Projects



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COH - Addition of a Dedicated Receptacle for PLC UPS

Type:	RFQ - Request for Quotation	Submitted :	11/28/2017
Contract:	10943 - Hesperia	Submitted To:	W M Lyles Co
Contractor:	W M Lyles Co	Status:	Pending
ISO Currency Code:	USD	Priority:	Medium
Purchase Order:	Contract # 10943 - Hesperia		

Created By: MWH Constructors, EADOC-VWRA-Sub-R - Charles Reynolds
Created: 11/28/2017

Contractor's PCO #: 93

Reason: Owner Request
Requested By: Owner

Change Date:

Schedule ID:

Not to Exceed \$: 0.00

Set:

Approved Thru Last:	769,284.22
Amount Added:	2,737.72
New Approved Amount:	772,021.94
Current Contract Duration:	821
Days Added:	0
New Contract Duration:	821

Budget :

Funding:

Cost Item:

Proposed Design Change Summary:

During the preliminary witnessed FAT test for the PLC control panels, it was suggested, to have a single outlet receptacle dedicated to the UPS along with the duplex general purpose receptacle already in the panels.

Please provide a cost proposal for the addition of a single outlet dedicated receptacle for the UPS. Each TRIMAX provided PLC located at the Hesperia WRP and Hesperia Lift Station shall be modified per this request for a total of 3-three

PCO # 93

Sub-Regional WRP Projects
Sub Regional WRP Projects

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receptacles. The UPS receptacle shall be labeled "UPS" and the general purpose receptacle shall be labeled "Convenience Receptacle".

Locations

Element B1 - Hesperia WRP - Vol-05

Element B2 - Hesperia LS-PL - Vol-06

References

RFI # 385	UPS Dedicated Receptacle	Closed
-----------	--------------------------	--------

Contractor

Signature	Print Name	Date
-----------	------------	------

Construction Manager

Signature	Print Name	Date
-----------	------------	------

Owner

Signature	Print Name	Date
-----------	------------	------

PCO COH 093 - Evaluation Summary - OH&P

Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ -		\$ -
2	Materials	\$ -		\$ -
3	Equipment	\$ -		\$ -
	Trimax	\$ 2,357.06		\$ 2,357.06
	Total	\$ 2,357.06		\$ 2,357.06
	Markup	\$ 353.56	15%	\$ 353.56
	Subtotal	\$ 2,710.62		\$ 2,710.61
Subs				
4		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
	Trimax	\$ -		\$ -
	Subcontract Subtotal	\$ -		\$ -
	Subcontract Bond & Ins	\$ -	1%	
	Subtotal	\$ -		\$ -
	GC-Subcontractor Markup	\$ -	5%	\$ -
	Total	\$ 2,710.62		\$ 2,710.61
	Subcontractor OH&P		15%	\$ -
	Subcontractor Bond & Ins		1%	\$ -
	GC Bond & Ins	\$ 27.11	1%	\$ 27.11
	Total	\$ 2,737.73		\$ 2,737.72



California Contractor's License No. 422390

Southern Division - **Temecula Office**
42142 Roick Drive
Temecula, CA 92590
Telephone (951) 973-7393
Fax (951) 698-3031

www.wmlyles.com
An Equal Opportunity Employer

January 12, 2018

Victor Valley Wastewater Reclamation Authority
20111 Shay Rd.
Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-93 Added Receptacle At PLC's

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in RFI 385 response to add a dedicated receptacle to the PLC's. WML deems this change to be additional work and received pricing from Trimax. The cost for this change is \$2,737.72. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Grant Gourley', is written in a cursive style.

Grant Gourley
Project Executive
W.M. Lyles Co.



COR – Change Order Request
Trimax Systems COR No. 31

To: Southern Contracting Company 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069 Attention: Steve Vickers	Date: December 15, 2017 Job No.: P-2192 Project: Victor Valley Wastewater Reclamation District Subregional Water Reclamation Plants Date Required: December 16, 2017 Supporting Docs: RFI 385 Drawing Ref.: none Spec Ref.: none
From: Marty McLaughlin	

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Time and Material – Now Complete	\$3,928.44	NA	None

Subject: Add Dedicated Receptacle
--

Summary: Trimax Systems has adding (1) dedicated 15Amp receptacle in each of the following panels:

- Apple Valley WRP Main
- Apple Valley WRP Headworks
- Hesperia WRP Main
- Hesperia WRP Headworks
- Hesperia Lift Station

The following was added:

- Five (5) 15Amp Single Gang Box, Single Gang Receptacles and Cover Plates.
- Five (5) 15Amp 120VAC 1P din rail circuit breaker.
- Wiring modifications for (5) panels.
- Drawings and documentation modifications for (5) Panels include:
 - Power Distribution
 - Panel Layouts
 - Material List
 - Operations and Maintenance Manuals
 - Witness testing

Please issue a change order for **\$3,928.44** for the above requested changes.

WML Markup 15% - \$589.26
 WML Bond 1% - \$45.17
 WML Total - \$4,562.87

COH = \$2,737.72
 TOAV = \$1,825.15

PCO # 94

Sub-Regional WRP Projects
Sub Regional WRP Projects



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COH- MBR Basin Drain 16" Knife Gate Valve Body Change

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 01/09/2018
Submitted To: Victor Valley Wastewater Reclamation Authority, W M Lyles Co
Revision Date:
Status: Pending
Priority: High
Pending On Org: Victor Valley Wastewater Reclamation Authority

Created By: MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds
Created: 01/09/2018

Contractor's PCO #:

Reason: Design Errors
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 769,284.22
Amount Added: 22,330.58
New Approved Amount: 791,614.80
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

Proposed Design Change Summary:

Each MBR Basin has a 16" Knife Gate Valve for draining the basins. The valves specified and supplied are metal to metal seating, which has an allowable leakage per AWWA. Under the low head conditions of the MBR Basins the daily leakage is

PCO # 94

Sub-Regional WRP Projects
 Sub Regional WRP Projects

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too excessive causing operational issues in maintaining a high mix-liquor concentration required to operate the MBR system.

MBR System Provider, Anaergia, has contacted the valve manufacturer and a recommendation to replace the valve body with a resilient seated valve has been excepted as a fix resolving the leakage issue.

Please provide two resilient seated knife gage valve bodies to be used with the existing motorized operators already in place.

Locations

Element B1 - Hesperia WRP - Vol-05 - 03 - Membrane Filtration Basins

Files

RE_ Hesperia Problems.pdf	1.2 MB
Brochure_KGC-ES.PDF	685.02 KB
Cutsheet_KGC-ES.PDF	551.16 KB

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

PCO COH 094 - TOAV 106 Evaluation Summary - OH&P				
Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ -		\$ -
2	Materials	\$ -		\$ -
3	Equipment	\$ -		\$ -
4	Anaergia	\$ 19,225.64		\$ 19,225.64
	Total	\$ 19,225.64		\$ 19,225.64
	Markup	\$ 2,883.85	15%	\$ 2,883.85
	Subtotal	\$ 22,109.49		\$ 22,109.49
Subs				
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
	Subcontract Subtotal	\$ -		\$ -
	Subcontracto Bond & Ins	\$ -	1%	
	Subtotal	\$ -		\$ -
	GC-Subcontractor Markup	\$ -	5%	\$ -
	Total	\$ 22,109.49		\$ 22,109.49
	Subcontractor OH&P		15%	\$ -
	Subcontractor Bond & Ins		1%	\$ -
	GC Bond & Ins	\$ 221.09	1%	\$ 221.09
	Total	\$ 22,330.58	COH	\$ 22,330.58
			TOAV	\$ 22,330.58



California Contractor's License No. 422390

Southern Division - **Temecula Office**
42142 Roick Drive
Temecula, CA 92590
Telephone (951) 973-7393
Fax (951) 698-3031

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January 12, 2018

Victor Valley Wastewater Reclamation Authority
20111 Shay Rd.
Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-94 Knife Gate Valve Replacement

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to remove and replace the Knife Gate Vales that drain the Membrane Tanks. WML deems this change to be additional work and received pricing from Anaergia to complete this work. The attached pricing include furnish and install of these new valves. The cost for this change is \$22,330.58. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Grant Gourley', is written over a light blue circular stamp.

Grant Gourley
Project Executive
W.M. Lyles Co.



Change Order

Anaergia DB Inc.
 4210 South Service Road
 Burlington, ON L7L 4X5
 Canada
 Phone: (905) 766-3333

Date	C.O. No.
11/28/2017	VVWRA_CO_MBR_17_09

Vendor	
W.M. Lyles Co. 42142 Roick Drive Temecula, Ca 92590	
Contact: Grant Gourley Phone: Email: ggourley@wmlylesco.com	9517604169

Ship To	
Anaergia DB Inc. 4210 South Service Road Burlington, ON L7L 4X5 Canada	
Contact: Trevor Shackelford Phone: (760) 885-5003 Email: trevor.shackelford@anaergia.com	

Terms	Expected	Ship Via	Project Number	Cost Code/PCS
NET 30	6-8 Weeks	FOB Job Site	8229A10	155

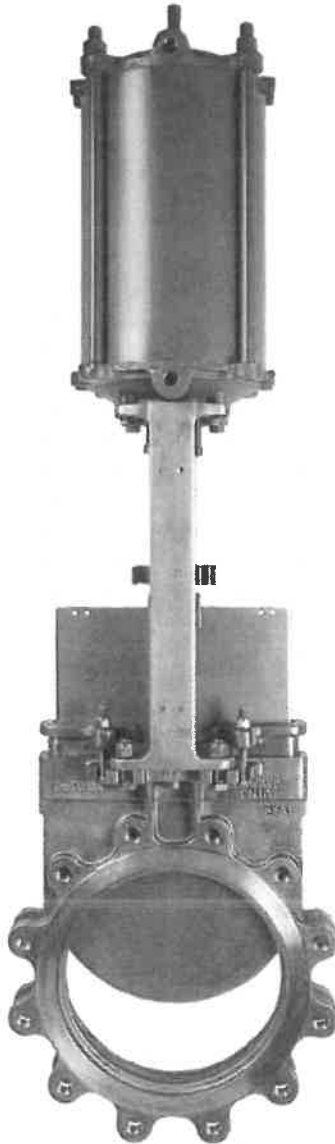
Description	Qty	Rate	Amount
1) Desurik KGC-ES (Cast Stainless Steel Knife Gate) - 16" ANSI 150 Flanged, 3.5" Lay Length - Body: 316 SS, ASTM A351 CF8 - Packing: PTFE Braided Packing - Gate: 316 SS, ASTM A240 - Seat Ring: EPDM - Resilient Seated (Leak Tight/Drip Tight) - Rated form 0 to 150 psi - Direct Swap to existing Actuator	4	\$ 9,412.82	\$ 37,651.28
2) Function Testing/Inspection by Manufacturer	1	\$ 800.00	\$ 800.00
*Price includes taxes and freight costs VENDOR TO PROVIDE WORK AND MATERIALS, WHICH WILL BE MADE PAYABLE PURSUANT TO MEMBRANE SYSTEM PROCUREMENT PACKAGE AGREEMENT VOLUME 9 OF 10.		Anaergia Total \$38,451.28 WML Markup 15%: \$5,767.69 WML Bond 1%: \$442.19 WML Total: \$44,661.16 COH - \$22,330.58 TOAV - \$22,330.58	
Anaergia P&ID attached for reference			
GST/HST No. 81503 4400 RT0001		Total	USD 38,451.28
Phone # (905) 766-3333		Web Site www.anaergia.com	

Approval Signature: Trevor Shackelford

Approval Date: 11/28/2017

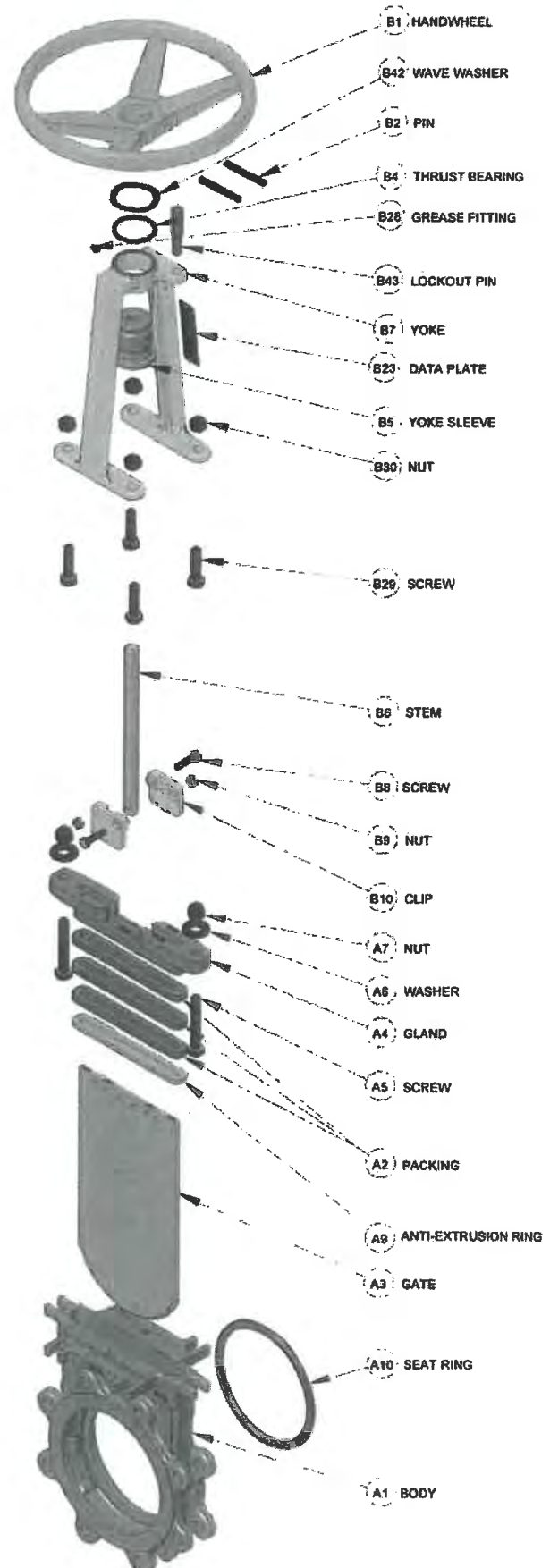


**DeZURIK KGC-ES
EXTENDED SERVICE LIFE
CAST STAINLESS STEEL
KNIFE GATE VALVES
TECHNICAL SPECIFICATIONS**



Materials of Construction

Item	Description	Material
A1	Body	304 Stainless Steel, ASTM A351 CF8
		316 Stainless Steel, ASTM A351 CF8M
		317 Stainless Steel, ASTM A351 CG8M
		254-SMO Stainless Steel, ASTM A351 CK3MCuN
		2205 Duplex Stainless Steel, ASTM A890 CD3MN
		Hastelloy C 276, ASTM A494 CW12MW
A2	Packing	ASP - Self-Adjusting PTFE Braided Packing with AFLAS Fluoroelastomer Cord to 400°F (205°C) (pH Range 0-14)
		SMP - PTFE Braided Packing to 500°F (260°C) (pH Range 0-14)
		TDP - Dry Service, Dry PTFE Braided Packing with Solid PTFE Cord to 500°F (260°C) (pH Range: 0-14)
		HTP - High Temperature Braided Packing to 650°F (343°C) (pH Range: 1-12)
		HMP - High Temperature Braided Packing with Metal Scraper Ring to 1000°F (540°C) (pH Range: 3-10)
A3	Gate	FGP - Food Grade Service to 450°F (232°C) (pH Range: 3-11)
		304 Stainless Steel, ASTM A240
		316 Stainless Steel, ASTM A240
		317 Stainless Steel, ASTM A240
		17-4 Stainless Steel H900 Heat Treated, ASTM A564
		254 - SMO Stainless Steel, ASTM A240
		2205 Duplex Stainless Steel, ASTM A276
		Hastelloy C 276, ASTM B574
410 Stainless Steel, ASTM A240		
A4	Gland	Matches Body Material
A5	Screw	304 Stainless Steel
A6	Washer	304 Stainless Steel
A7	Nut	304 Stainless Steel
A9	Anti-Extrusion Ring	PTFE, Glass Filled to 500°F (260°C) (pH Range 0-14). Used with SMP, TDP, ASP and FGP packing.
		Square Braid with weave of fully-annealed copper wire scrapers to 1000°F (540°C) (pH Range 3-10). Used with HMP packing.
		Carbon Fabric Reinforced Graphite to 800°F (427°C) (pH Range 1-12). Used with HTP packing.
A10	Seat Ring*	CR - Chloroprene to 180°F (83°C)
		NBR - Acrylonitrile-Butadiene to 180°F (83°C)
		EPDM - Terpolymer of Ethylene, Propylene and a Diene to 250°F (122°C)
		FKM - Fluoro Rubber to 400°F (204°C)
		17-4 PH Stainless Steel H900 Heat Treated
		CRW - Chloroprene, Off White to 140°F (60°C)
		PTFE - Polytetrafluoroethylene, white to 450°F (230°C)
Reinforced PTFE - Polytetrafluoroethylene, to 500°F (260°C)		
B1	Handwheel	Painted, Cast Iron
B2	Roll Pin	Carbon Steel or 420 Stainless Steel
B4	Thrust Bearing	Oil Impregnated Bronze
B5	Yoke Sleeve	Aluminum Bronze
B6	Stem	304 Stainless Steel
B7	Yoke	Cast Steel or 304 Stainless Steel
B8	Screw	Zinc Plated Steel or 18-8 Stainless Steel
B9	Nut	Zinc Plated Steel or 18-8 Stainless Steel
B10	Clip	304 Stainless Steel
B23	Data Plate	316 Stainless Steel
B28	Grease Fitting	Zinc Plated Steel
B29	Screw	Zinc Plated Steel or 18-8 Stainless Steel
B30	Nut	Zinc Plated Steel or 18-8 Stainless Steel
B42	Wave Washer	304 Stainless Steel
B43	Lockout Pin	304 Stainless Steel



*The replaceable Seat Ring is standard on resilient-seated valves and optional on metal-seated valves. The standard integral metal seat matches the body material.

Valve Selection Shut-Off Capabilities

Resilient Seats	Leak tight/drip tight
Metal Seats	Meet MSS SP-81 and TAPPI TIS 405-8

Pressure Ratings

2-48" (50-1200mm)	150 psi C.W.P. (1030 kPa)
Optional 30 & 36" (750 & 900mm)	100 psi C.W.P. (690 kPa)

Notes:

Valve can handle Full Reverse Pressure without damage.

Valves with Chloroprene, off white seats are limited to 50 psi (350 kPa). Contact DeZURIK with service conditions.

Flow Parameters Round Port

Valve Size	Cv* Kv*	K** (resistance)	Port Area (in ² /cm ²)
2" 50mm	300 260	0.16	3.1 20
3" 80mm	675 584	0.16	7.1 46
4" 100mm	1200 1040	0.16	12.6 81
5" 125mm	1900 1640	0.16	19.6 126
6" 150mm	2700 2340	0.16	28.3 183
8" 200mm	4800 4200	0.16	50.3 325
10" 250mm	7500 6500	0.16	78.5 506
12" 300mm	10800 9300	0.16	113 729
14" 350mm	13200 11400	0.16	138 890
16" 400mm	17400 15100	0.16	183 1180
18" 450mm	22300 19300	0.16	234 1510
20" 500mm	27800 24000	0.16	291 1880
22" 550mm	34000 29400	0.16	355 2290
24" 600mm	40500 35000	0.16	425 2740
26" 650mm	47800 41300	0.16	501 3230
28" 700mm	55600 48100	0.16	583 3760
30" 750mm	64000 55400	0.16	672 4340
32" 800mm	73000 63100	0.16	767 4950
36" 900mm	93000 80400	0.16	976 6300
42" 1050mm	126000 109000	0.16	1336 8620
48" 1200mm	165000 142700	0.16	1750 11290

*Cv = Flow in GPM of water at 1 psi pressure drop.

Kv = Flow in m³/hr. of water at 100 kPa pressure drop.

** K = The resistance coefficient of the valve. The constant (K) can be used to determine the equivalent length of pipe.

$L = \frac{K \times D}{f}$ Where
 L = Equivalent length of pipe in feet
 K = Resistance coefficient
 D = Pipe diameter in feet
 f = Friction factor, related to type of pipe

Applicable Standards

DeZURIK KGC-ES Knife Gate Valves are designed and/or tested to meet the following standards:	
MSS SP-81	Metal Seated Valves, Stainless Steel, Bonnetless, Flanged Knife Gate Valves
ANSI B16.5 2-24" (50-600mm)	Flanges and Flanged Fittings, ANSI 150 Conforms to related drilling dimensions
ANSI 16.47 26-48" (650-1200mm)	Large diameter Steel Flanges. Series A. Conforms to related dimensions
International Standards	Conforms to flanged bolt guides — JIS 10; DIN 10 and DIN 16; ISO 7005-1/PN10 and 7005-2/PN16; BS 4504/PN10 and BS 4504/PN16; and AS 2129 Tables D and E; SANS 1123-1000 and SANS 1123-1600
TAPPI TIS 405-8	Recommendations for Stainless Steel, Bonnetless, Flanged, Wafer Knife Gate Valves. Revoked by TAPPI, Same as MSS SP-81

Flow Parameters V-port 60 Degrees

Valve Size	Cv* Kv*	K** (resistance)	Port Area (in ² /cm ²)
2" 50mm	89 77	1.80	1.9 12
3" 80mm	210 584	1.63	4.3 28
4" 100mm	386 330	1.53	7.7 50
5" 125mm	665 580	1.27	11.5 74
6" 150mm	900 780	1.42	17.2 111
8" 200mm	1660 1400	1.32	30.6 197
10" 250mm	2320 2000	1.65	42.0 271
12" 300mm	3490 3000	1.52	61.9 399
14" 350mm	4650 4000	1.27	80.8 521
16" 400mm	6110 5300	1.29	106 680
18" 450mm	8000 6900	1.23	138 890
20" 500mm	10100 8700	1.20	170 1100
22" 550mm	11900 10300	1.28	213 1370
24" 600mm	15100 13100	1.14	250 1610
26" 650mm	16800 14500	1.28	300 1940
28" 700mm	19500 16900	1.29	350 2260
30" 750mm	23900 20700	1.14	389 2510
32" 800mm	25600 22100	1.30	460 2970
36" 900mm	35200 30400	1.11	568 3660
42" 1050mm	44100 38100	1.32	800 5180
48" 1200mm	57800 50000	1.33	1050 6770

Valve Selection

Valve and Actuator Weights

Pounds
Kilograms

Valve Size	Basic Valve	With Lever	With Handwheel	With Chainwheel	With Bevel Gear Handwheel*	With Cylinder		
						Size	lbs.	Kg.
2" / 50mm	10 / 4.5	20 / 9	20 / 9	32 / 14.5	—	4" (100mm)	29	13
3" / 80mm	16 / 7	37 / 17	27 / 12	39 / 18	88 / 40	4" (100mm)	37	17
4" / 100mm	24 / 11	48 / 22	36 / 16	48 / 22	96 / 43.5	4" (100mm)	45	20
						6" (150mm)	63	29
5" / 125mm	32 / 14.5	60 / 27	51 / 23	66 / 30	108 / 49	4" (100mm)	58	26
						6" (150mm)	76	35
						8" (200mm)	88	40
6" / 150mm	38 / 17	66 / 30	57 / 26	75 / 34	113 / 51	4" (100mm)	63	29
						6" (150mm)	81	37
						8" (200mm)	93	42
8" / 200mm	65 / 30	98 / 44.5	86 / 39	101 / 46	144 / 65	6" (150mm)	112	51
						8" (200mm)	124	56
10" / 250mm	103 / 47	157 / 71	141 / 85	179 / 81	191 / 87	8" (200mm)	174	79
						10" (250mm)	220	100
						12" (300mm)	257	117
12" / 300mm	148 / 67	213 / 97	187 / 85	227 / 103	241 / 109	8" (200mm)	225	102
						10" (250mm)	270	122
						12" (300mm)	309	140
14" / 350mm	199 / 90	N/A	265 / 120	284 / 129	303 / 137	10" (250mm)	332	151
						12" (300mm)	372	169
16" / 400mm	272 / 123	N/A	341 / 155	358 / 162	380 / 172	10" (250mm)	409	186
						12" (300mm)	449	204
						14" (350mm)	495	225
18" / 450mm	361 / 164	N/A	433 / 197	449 / 204	473 / 215	12" (300mm)	551	250
						14" (350mm)	602	273
						16" (400mm)	813	369
20" / 500mm	518 / 235	N/A	593 / 269	653 / 296	637 / 289	12" (300mm)	712	323
						14" (350mm)	760	345
						16" (400mm)	982	445
22" / 550mm	622 / 282	N/A	698 / 317	N/A	760 / 345	12" (300mm)	830	377
						14" (350mm)	881	400
						16" (400mm)	1101	500
24" / 600mm	725 / 329	N/A	803 / 364	N/A	882 / 400	18" (450mm)	1144	519
						12" (300mm)	947	430
						14" (350mm)	1001	454
26" / 650mm	918 / 417	N/A	N/A	N/A	1104 / 501	16" (400mm)	1219	553
						18" (450mm)	1262	572
						12" (300mm)	1200	544
28" / 700mm	1111 / 503	N/A	N/A	N/A	1325 / 601	14" (350mm)	1251	568
						16" (400mm)	1524	692
						18" (450mm)	1578	716
30" / 750mm	1446 / 656	N/A	N/A	N/A	1594 / 723	20" (500mm)	1711	777
						12" (300mm)	1417	643
						14" (350mm)	1467	666
32" / 800mm	1700 / 772	N/A	N/A	N/A	1825 / 828	16" (400mm)	1648	748
						18" (450mm)	1830	830
						20" (500mm)	1963	891
36" / 900mm	2204 / 1000	N/A	N/A	N/A	2366 / 1073	12" (300mm)	1718	780
						14" (350mm)	1768	802
						16" (400mm)	1985	900
42" / 1050mm	3600 / 1634	N/A	N/A	N/A	3908 / 1774	18" (450mm)	2205	1000
						20" (500mm)	2365	1073
						12" (300mm)	1901	862
48" / 1200mm	4997 / 2266	N/A	N/A	N/A	5450 / 2474	14" (350mm)	1951	886
						16" (400mm)	2121	963
						18" (450mm)	2300	1044
						20" (500mm)	2426	1101
						14" (350mm)	2541	1153
						16" (400mm)	2755	1250
						18" (450mm)	2987	1355
						20" (500mm)	3150	1428
						On Application		
						On Application		

Note: Weights are approximate and do not include crating.

* For Bevel Gear with Chainwheel, add the following weight to the bevel gear with handwheel weight:
 2-18" add 7 lbs. (3kg)
 20-24" add 26 lbs. (12kg)
 30" add 74 lbs. (34kg)
 36" add 68 lbs. (31kg)

Ordering

To order, simply complete the valve order code from information shown. An ordering example is shown for your reference.

Valve Style

Give valve style code as follows:

KGC = Cast Stainless Steel Knife Gate Valve

Valve Size

Give valve size code as follows:

2 = 2" (50mm)	20 = 20" (500mm)
3 = 3" (80mm)	22 = 22" (550mm)
4 = 4" (100mm)	24 = 24" (600mm)
5 = 5" (125mm)	26 = 26" (650mm)
6 = 6" (150mm)	28 = 28" (700mm)
8 = 8" (200mm)	30 = 30" (750mm)
10 = 10" (250mm)	32 = 32" (800mm)
12 = 12" (300mm)	36 = 36" (900mm)
14 = 14" (350mm)	42 = 42" (1050mm)
16 = 16" (400mm)	48 = 48" (1200mm)
18 = 18" (450mm)	

Body Style

Give body style code as follows:

ES = Extended Service Life with DeZURIK Exclusive Premium Packing System

End Connection

Give end connection code as follows:

F1 = ANSI 150 UNC Tapping for Threads
 F110 = ISO 7005/PN10 Drilling
 F116 = ISO 7005/PN16 Drilling
 F1DA = AS2129 Table D Drilling
 F1EA = AS2129 Table E Drilling
 F1UN⁽¹⁾ = ANSI 150 UN-8 Tapping for Threads
 F1S10 = SANS 1123-1000
 F1S16 = SANS 1123-1600

Optional End Connections

F1T = ANSI 150 Through Bolting
 F1J1 = JIS 10 Drilling

On Application

Other end connections available on application.

Body Material

Give body material code as follows:

Standard

S1 = 304 Stainless Steel
 S2 = 316 Stainless Steel
 S3 = 317 Stainless Steel

On Application

HC = Hastelloy C
 S6 = 254 Stainless Steel
 S10 = 2205 Duplex Stainless Steel

Packing Material

Give packing material code as follows:

Standard Packing

SMP = PTFE Braided Packing to 500°F (260°C) (pH Range 0-14)

Optional Packing

ASP = Self-Adjusting PTFE Braided Packing with AFLAS Fluoroelastomer Cord to 400°F (205°C) (pH Range 0-14)
 TDP = Dry Service, Dry PTFE Braided Packing with Solid PTFE Cord to 500°F (260°C) (pH Range: 0-14)
 HTP = High Temperature Braided Packing to 650°F (343°C) (pH Range: 1-12)
 HMP = High Temperature Braided Packing with Metal Scraper Ring to 1000°F (540°C) (pH Range: 3-10)
 FGP = Food Grade Service to 450°F (232°C) (pH Range: 3-11)

Gate Material (3)

Give gate material code as follows:

Standard Gate Materials

S1 = 304 Stainless Steel (Standard for S1 body material)
 S2 = 316 Stainless Steel (Standard for S2 body material)
 S3 = 317 Stainless Steel (Standard for S3 body material)

Optional Gate Materials

S5 = 17-4 Stainless Steel H900 Heat Treated (Used with S1, S2, & S3 body materials)

On Application

S6 = 254-SMO Stainless Steel (Used with S6 body material)
 S8 = 410 Stainless Steel (Used with S1, S2 & S3 body materials)
 S10 = 2205 Duplex Stainless Steel (Used with S2, S3 OR S10 body materials)
 HC = Hastelloy C (Used with HC body materials)

Seat Material (2)

Give seat material code as follows:

Standard Seat Materials

M = Metal
 V = V-Orifice All Metal
 CR = Chloroprene to 180°F (83°C)
 NBR = Acrylonitrile-Butadiene to 180°F (83°C)
 EPDM = Terpolymer of Ethylene, Propylene and a Diene to 250°F (122°C)

Optional Seat Materials

FKM = Fluoro Rubber to 400°F (204°C)
 S5D = 17-4 PH Stainless Steel H900 Heat Treated

On Application

CRW = Chloroprene, Off White to 140°F (60°C)
 PTFE or RTFE

Standard Options

Give option code as follows:

ARRA = ARRA Compliant
 PSA = Purge Ports in Seat Area
 PCA = Purge Ports in Chest Area
 PSC = Purge Ports in Seat and Chest Area
 CMC = Certificate of Material Conformance
 CRT = Certified Physical and Chemical Test Reports
 — = Optional Coating
 — = DeZURIK Standard Test Certification
 P100 = 30" and 36" (750 and 900mm) valves with 100 psi (690 kPa) pressure rating

Notes:

- (1) Applies to valves 18" (450mm) and larger. Flange bolt hole threads are 8 threads per inch in accordance with ANSI, API and MSS standards.
- (2) The limiting factor in valve selection is the lowest temperature of the packing or seat.
- (3) Gate material limitations by body style in parentheses.

Ordering Example:

KGC,6,ES,F1,S2,ASP,S2-CR*Actuator

~~Cylinder Actuator Accessories~~

~~Position Indicating Switches~~

~~Position Indicating Switches are available for use on double acting cylinder actuators. Order as part of a complete valve/actuator assembly by adding the appropriate code from the table below to the valve and actuator order code. Two switches will automatically be set to indicate full open and full closed positions.~~

~~Two Switches - Open/Closed~~

Quantity/Description	Switch Type	Rating	Manufacturer	Order Code
2 SPDT	Mechanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA1A-1A	SE649
2 DPDT	Mechanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA2B-1A	SE524
2 SPDT	Mechanical	Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell LSXA3K-1A	SEH95
2 DPDT	Mechanical	Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell LSXA4L-1A	SEH96
2 SPDT, SST Housing	Proximity	CSA/FM Class 1, Division 1, Explosion Proof	GO-73-13526-A2	SEHK4
2 SPDT, SST Housing	Proximity	CSA Class I, Div 2, Hazardous Locations, (Groups A,B,C,D), Class II, (Groups E,F,G), Class III	GO-11-11124-A2	SEH94
2 SPDT, SST Housing	Proximity	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Stonel HK2077SG and HK2077SR	SEHK3

~~One Switch - Open~~

Quantity/Description	Switch Type	Rating	Manufacturer	Order Code
1 SPDT	Mechanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA1A-1A	SEJ49
1 DPDT	Mechanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA2B-1A	SEJ42
1 SPDT	Mechanical	Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell LSXA3K-1A	SEJ46
1 DPDT	Mechanical	Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell LSXA4L-1A	SEJ44
1 SPDT, SST Housing	Proximity	CSA/FM Class 1, Division 1, Explosion Proof	GO-73-13526-A2	SEHK5
1 SPDT, SST Housing	Proximity	CSA Class I, Div 2, Hazardous Locations, (Groups A,B,C,D), Class II, (Groups E,F,G), Class III	GO-11-11124-A2	SEJ38
1 SPDT, SST Housing	Proximity	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Stonel HK2077SG	SEK27

~~One Switch - Closed~~

Quantity/Description	Switch Type	Rating	Manufacturer	Order Code
1 SPDT	Mechanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA1A-1A	SEJ41
1 DPDT	Mechanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA2B-1A	SEJ43
1 SPDT	Mechanical	Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell LSXA3K-1A	SEJ47
1 DPDT	Mechanical	Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell LSXA4L-1A	SEJ45
1 SPDT, SST Housing	Proximity	CSA/FM Class 1, Division 1, Explosion Proof	GO-73-13526-A2	SEHK6
1 SPDT, SST Housing	Proximity	CSA Class I, Div 2, Hazardous Locations, (Groups A,B,C,D), Class II, (Groups E,F,G), Class III	GO-11-11124-A2	SEJ39
1 SPDT, SST Housing	Proximity	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Stonel HK2077SR	SEK87

Electric Motor Actuators

DeZURIK Knife Gate Valves can be furnished with electric motor actuators including Limitorque, Auma, Rotork, E.I.M. and others.

When ordering electric motor actuators, specify valve order code, shutoff pressure, service conditions (flowing media and installation direction); type of application (on/off or throttling); speed of operation; NEMA rating (4, 7, submersible, etc.); electrical characteristics (voltage and phase); actuator accessories and controls as per specification requirements.

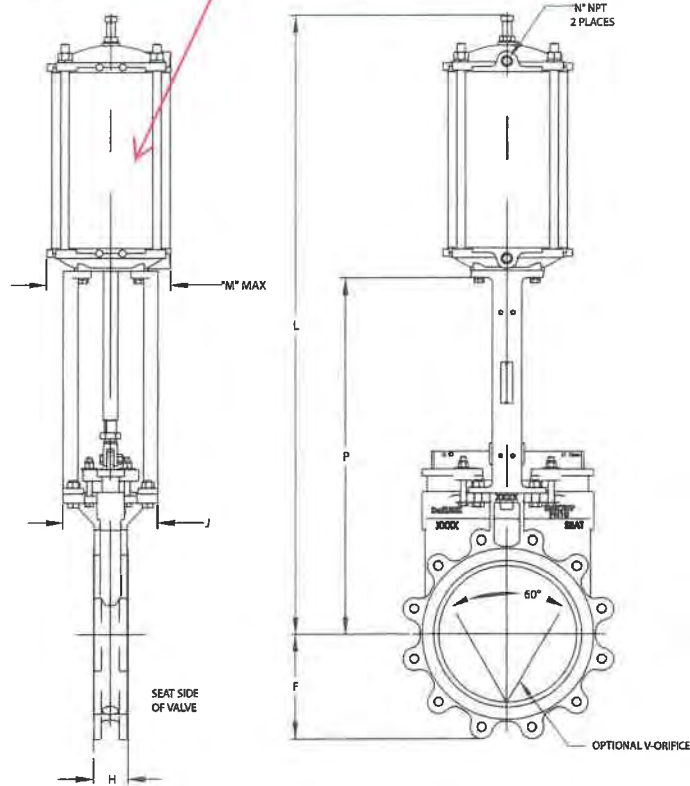
Dimensions

Basic Valve with Cylinder Actuator

Valve Size	Dimensions		
	F	H	J
2"	3.00	1.88	4.00
50mm	76	48	102
3"	3.75	2.00	4.75
80mm	95	51	121
4"	4.50	2.00	5.00
100mm	114	51	127
5"	5.00	2.25	5.75
125mm	127	57	146
6"	5.50	2.25	5.75
150mm	140	57	146
8"	6.75	2.75	6.38
200mm	171	70	162
10"	8.00	2.75	8.25
250mm	203	70	210
12"	9.50	3.00	8.25
300mm	241	76	210
14"	10.50	3.00	8.25
350mm	267	76	210
16"	11.75	3.50	8.69
400mm	298	89	221
18"	12.50	3.50	9.31
450mm	318	89	236
20"	13.75	4.50	9.42
500mm	349	114	239
22"	15.00	4.50	9.19
550mm	381	114	233
24"	16.00	4.50	9.42
600mm	406	114	239
26"	17.13	4.63	9.50
650mm	435	117	241
28"	18.25	5.00	10.69
700mm	464	127	271
30**	19.38	5.50	11.25
750mm	492	140	286
32"	20.88	6.00	11.25
800mm	530	152	286
36**	23.00	6.00	11.25
900mm	584	152	286
42"	26.50	6.50	13.50
1050mm	673	165	343
48"	Contact DeZURIK		
1200mm			

* 100 psi, face-to-face (H dimension) on 30" and 36" (750 and 900mm) is 4.62" (117mm)

Inches
Millimeters



To Re-Use Existing Rotork Actuator

2-16" (50-400mm) Valves

Actuator Order Code	Dimensions										M	N
	L											
	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"		
	50mm	80mm	100mm	125mm	150mm	200mm	250mm	300mm	350mm	400mm		
CY-PC4	22.26 565	23.98 609	26.26 667	30.64 778	32.18 817	—	—	—	—	—	5.38 137	1/4
CY-PC6	—	—	27.81 701	32.00 813	33.56 852	39.11 993	47.13 1197	None	—	—	7.88 200	1/4
CY-PC8	—	—	—	32.38 822	33.94 862	39.49 1003	49.57 1259	53.19 1351	59.06 1500	62.74 1594	10.50 267	1/2
CY-PC10	—	—	—	—	—	—	50.97 1295	54.59 1387	60.35 1533	64.03 1626	13.00 330	1/2
CY-PC12	—	—	—	—	—	—	50.94 1294	54.56 1386	60.70 1542	64.38 1635	15.00 381	1/2
CY-PC14	—	—	—	—	—	—	—	—	—	63.68 1617	17.00 432	1/2

Inches
Millimeters

18-48" (450-1200mm) Valves

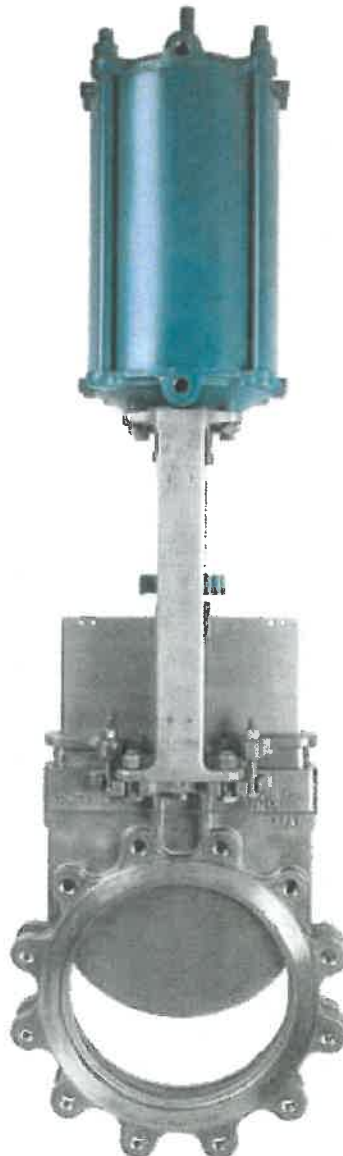
Actuator Order Code	Dimensions											M	N
	L												
	18"	20"	22"	24"	26"	28"	30"	32"	36"	42"	48"		
	450mm	500mm	550mm	600mm	650mm	700mm	750mm	800mm	900mm	1050mm	1200mm		
CY-PC10	73.59 1869	77.16 1960	—	—	—	—	—	—	—	—	—	13.00 330	1/2
CY-PC12	73.935 1878	77.495 1968	85.52 2172	89.475 2273	—	—	—	—	—	—	—	15.00 381	1/2
CY-PC14	73.24 1860	76.81 1951	85.52 2172	88.78 2255	95.38 2423	101.44 2577	108.19 2748	—	—	—	—	17.00* 432	1/2
CY-PC16	70.25 1784	75.94 1929	82.00 2083	87.91 2233	95.50 2426	101.56 2580	108.31 2751	113.94 2894	125.81 3196	—	—	17.00 432	1/2
CY-PC18	—	—	—	88.16 2239	95.75 2432	101.81 2585	108.56 2757	114.19 2900	126.06 3202	143.19 3637	—	19.00 483	3/4
CY-PC20	—	—	—	—	—	102.06 2592	109.81 2789	115.44 2932	126.31 3208	143.44 3643	—	21.00 533	3/4

* M dimension on 26-30" (650-750mm) is 14.75" (375mm)

Inches
Millimeters



**DeZURIK KGC-ES
EXTENDED SERVICE LIFE
CAST STAINLESS STEEL
KNIFE GATE VALVES**



DeZURIK KGC-ES (Extended Service Life) Cast Stainless Steel Knife Gate Valves

Applications

DeZURIK KGC-ES Cast Stainless Steel Knife Gate Valves are designed for the toughest corrosive, abrasive liquid, slurry or dry material applications including: Pulp and Paper, Mining, Waste Water, Chemical, Petrochemical, Power, Steel, Food Processing, etc.

Design and Construction

The heart of the KGC-ES is the DeZURIK **Exclusive Premium Packing System**. This system features a tight tolerance machined packing chamber, rounded gate edge, Anti-Extrusion Ring, and many packing options to meet the demands of your specific application. All of these features together will improve sealing, extend packing life, and reduce maintenance.

Depending on what your application requires, the cast body and packing gland are available in 304, 316, 317, 254-SMO, 2205 Duplex Stainless Steel or Hastelloy C 276. Other body and gate materials are available upon request.

KGC-ES Knife Gate Valves are available in sizes 2" - 48" (50mm - 1200mm) with metal or resilient seated versions.

The actuator superstructure is heavy duty cast carbon steel or cast stainless steel to minimize corrosion. A variety of actuator options are available including: handwheels, chainwheels, bevel gears, levers, pneumatic cylinders, hydraulic cylinders, and electric motors. A full complement of accessories is also offered.

Applicable Standards

DeZURIK KGC-HD Knife Gate Valves are designed and/or tested to meet the following standards:	
MSS SP-B1 Metal Seated Valves	Stainless Steel, Bonnetless, Flanged Knife Gate Valves
ANSI B16.5 2" - 24" (50 - 600mm)	Carbon Steel Flanges and Flanged Fittings, ANSI 150. Conforms to related drilling dimensions
ANSI 16.47 26" - 48" (650 - 1200mm)	Large diameter Steel Flanges. Series A. Conforms to related dimensions.
ASME B16.20 2" - 48" (50 - 1200mm)	Metallic Gaskets for Pipe Flanges. Conforms to Spiral-Wound gasket dimensions
International Standards	Conforms to flanged bolt guides: JIS 10; DIN 10 and DIN 16; ISO 7005-1/PN10 and 7005-2/PN16; BS 4504/PN10 and BS 4504/PN16; and AS 2129 Tables D and E; SANS 1123-1000 and SANS 1123-1600



DeZURIK Exclusive Rounded Stainless Steel Gate

Gates are available in 304, 316, 317, 17-4, 254-SMO, 410, 2205 Duplex Stainless Steel or Hastelloy C for corrosion resistance. The gate has a precision ground finish on both sides to prevent packing and seat damage. The beveled knife-like gate edge with machined tooth on each side pushes away or cuts through solids in the flow stream.

- Provides superior sealing
- Improves packing life
- Requires less compression and thus reduces friction
- Eliminates sharp corners where leakage first occurs

Cast Gate Guides and Jams

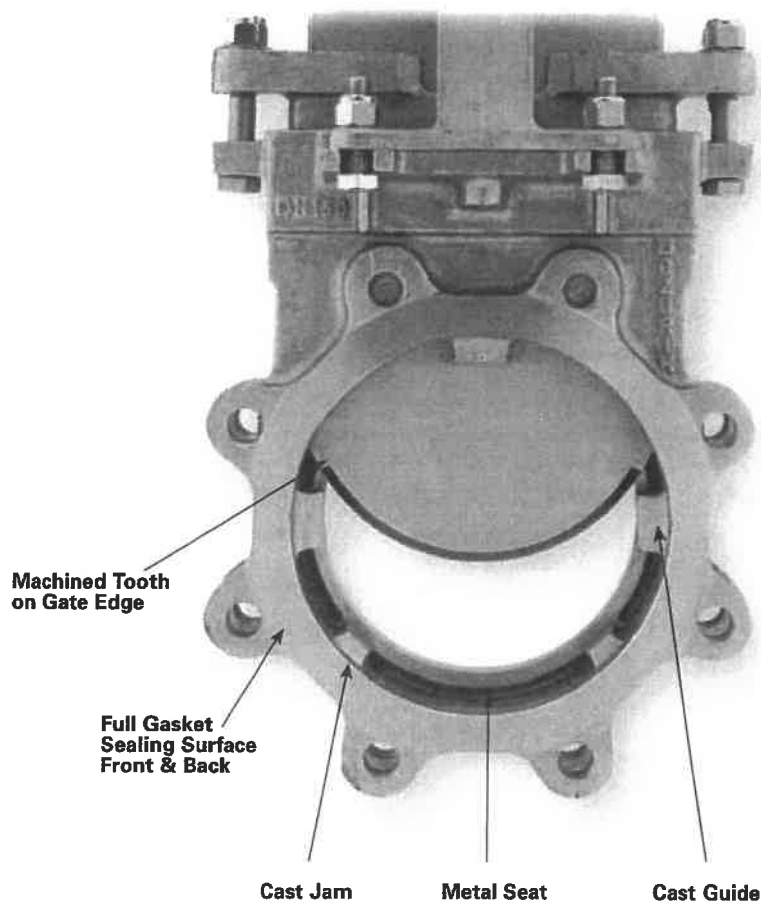
The cast gate guides provide support for the moving gate and will not break off like welded guides. Cast gate jams at the bottom of the body hold the gate securely against the seat to assure positive shutoff. All KGC-ES valves can handle full reverse pressure without damage. The body has raised face end connections with drilled and tapped lugs.

High Flow Capacity

100%, round port design allows high flow capacity and minimum pressure drop. DeZURIK's KGC-ES valve seat I.D. is equal to the inside diameter of standard pipe (ASME B36.10).

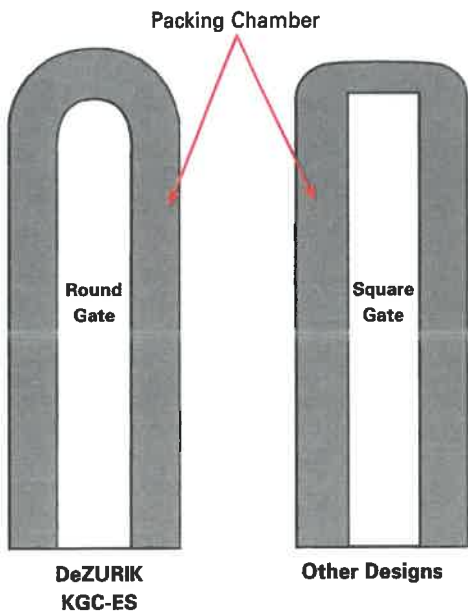
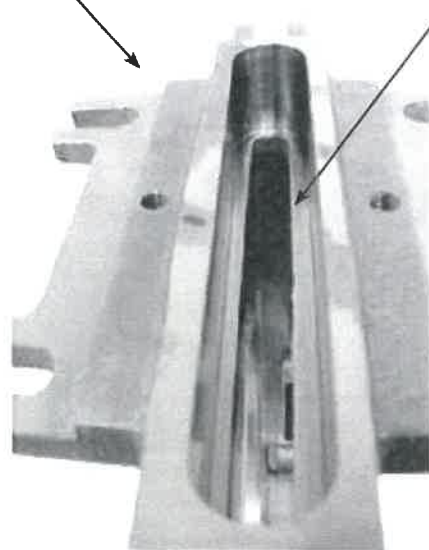
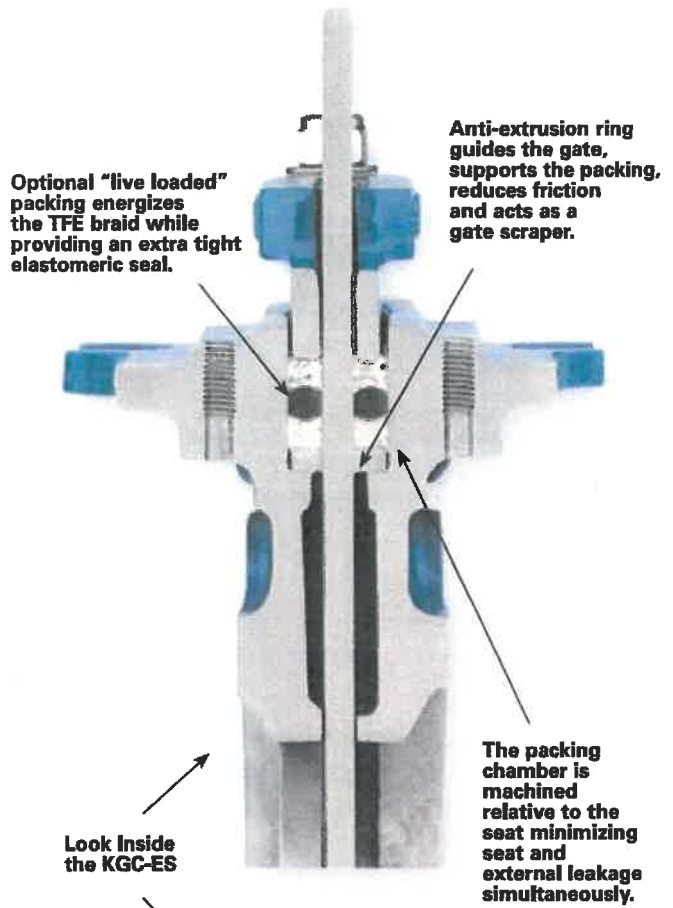
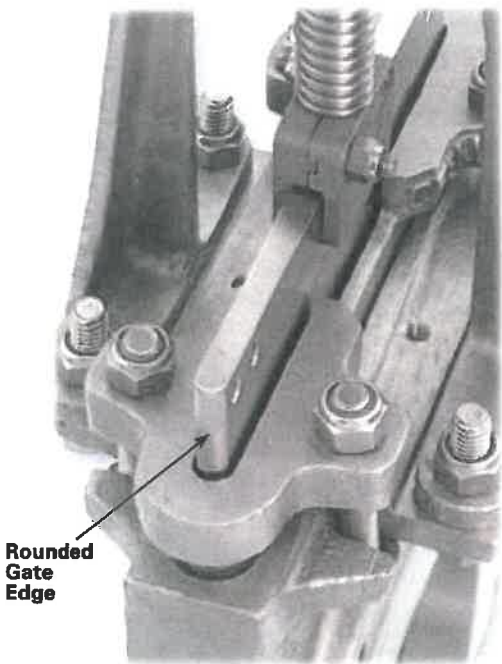
Full Gasket Sealing Front and Back

For maximum gasket sealing the KGC-HD end connections conform to ASME B16.20 dimensions for Spiral-Wound gaskets.



DeZURIK Exclusive Premium Packing System Ensures Long-Life by Sealing, Scraping and Supporting

DeZURIK KGC-ES Valves have a unique packing system that ensures a long-life tight seal with minimal packing gland pressure. The Premium Packing System is available for general, moderate, severe, and high temperature applications. The machined packing chamber, rounded gate edge, and Anti-Extrusion Ring form the base. The system is completed by careful selection of the packing material. Temperature, pH, and media properties will determine the most suitable packing option. KGC-ES valves can be re-packed without being removed from the pipeline.



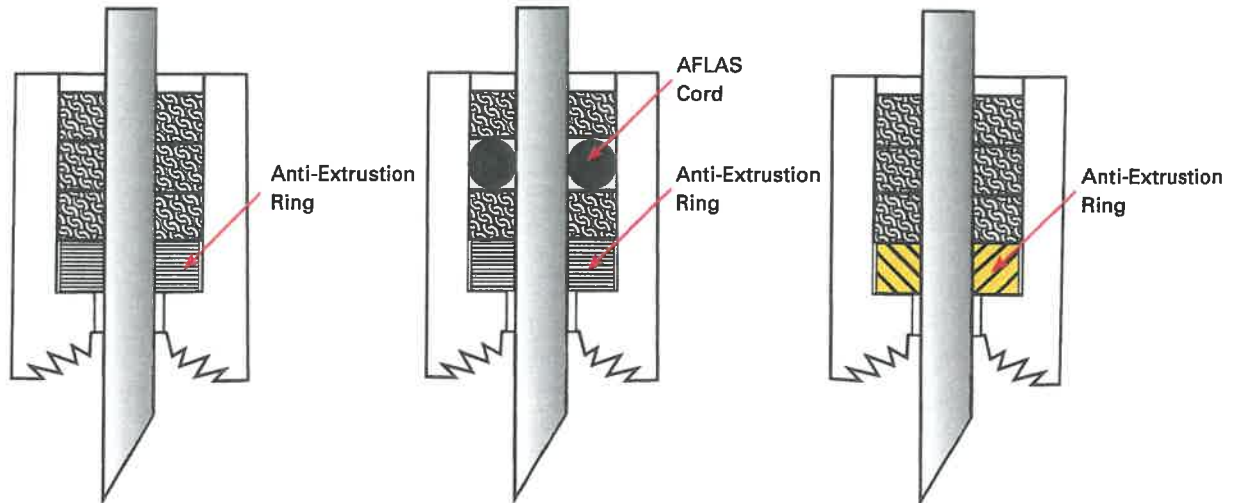
Test Data Proves - the "premium packing system" requires fewer packing adjustments and provides extended service life.

Putting "The Premium Packing System" To Work

The KGC-ES packing system includes a number of features that:

- Extend service life
- Reduce external leakage
- Minimize friction and actuator thrust required
- Require fewer packing adjustments
- Ensure alignment of the gate
- Allow field replacement of packing

High Performance Packing Material Options



SMP

PTFE Braided Packing with Anti-Extrusion Ring to 500°F (260°C)
(pH Range: 0-14)

TDP

Dry Service, Dry PTFE Braided Packing with Solid PTFE Cord and Anti-Extrusion Ring to 500°F (260°C)
(pH Range: 0-14)

FGP

Food Grade Service with Anti-Extrusion Ring to 450°F (232°C)
(pH Range: 3-11)

ASP

Adjusting PTFE Braided Packing with AFLAS Fluoroelastomer Cord and Anti-Extrusion Ring to 400°F (205°C)
(pH Range: 0-14)

HTP

High Temperature Braided Packing with Carbon Fabric Reinforced Graphite Anti-Extrusion Ring to 650°F (343°C)
(pH Range: 1-12)

HMP

High Temperature Braided Packing with Metal Scraper Anti-Extrusion Ring to 1000°F (540°C)
(pH Range: 3-10)

Application Factors That Affect Your Packing Selection For Optimal Sealing

- Compatibility with process media
 - Wet or dry application
 - Food grade or non food grade
 - Life cycle stroke frequency
 - Temperature
 - pH Acid-Base level
 - Scaling or crystallization on gate
- Sealing
 - Energized AFLAS Fluoroelastomer Cord in ASP Packing will keep pressure on the packing material to maximize seal
 - Adjustable Packing Gland will renew and compress the packing to seal the valve
- Scraping
 - Anti-Extrusion Ring functions as a gate scraper, preventing process media from entering packing chamber.
- Supporting
 - Anti-Extrusion Ring supports packing, keeps packing from extruding between body and gate, and also maintains gate alignment to maximize sealing performance

Seat Options

Both metal and resilient seated valves are offered in a 100%, round port design. The integral metal seated or the replaceable 17-4 PH Stainless Steel H900 Heat Treated version is available with shutoff capability exceeding current MSS-SP81 standards.

Resilient Seated Valves

Resilient seated valves are available for applications where drip-tight shutoff is required. Unlike valves which use an o-ring seal, DeZURIK KGC-ES Valves have a replaceable resilient seat designed especially for knife gate valve applications. The resilient seat material is molded on three sides of the stainless steel seat ring. When the valve is closed, the gate is pushed against the seat and held in place by the gate jams. When the valve is open, the gate moves away from the seat, allowing clearance, which prevents seat damage and reduces operating force.

A variety of seat materials are available.

Options include:

CR - Chloroprene

NBR - Acrylonitrile-Butadiene

EPDM - Terpolymer of Ethylene, Propylene and a Diene

FKM - Fluoro Rubber

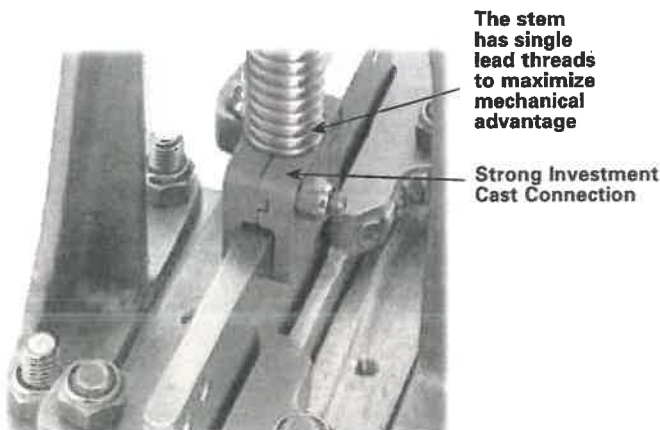
CRW - Chloroprene, off white

PTFE - Polytetrafluoroethylene, white

Reinforced PTFE - Polytetrafluoroethylene

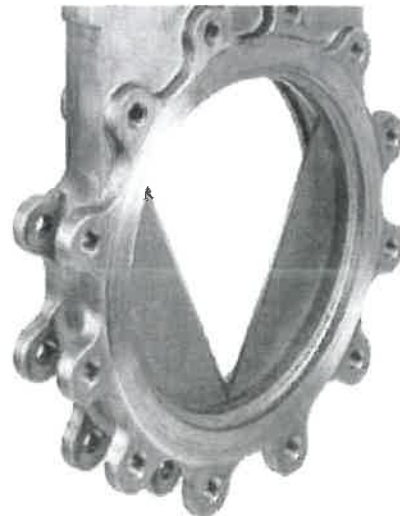
Low Rim-Pull Force

A strong investment cast clip complements KGC-ES's robust construction. The single lead threads on the manual stem result in a lower required handwheel rim-pull force.



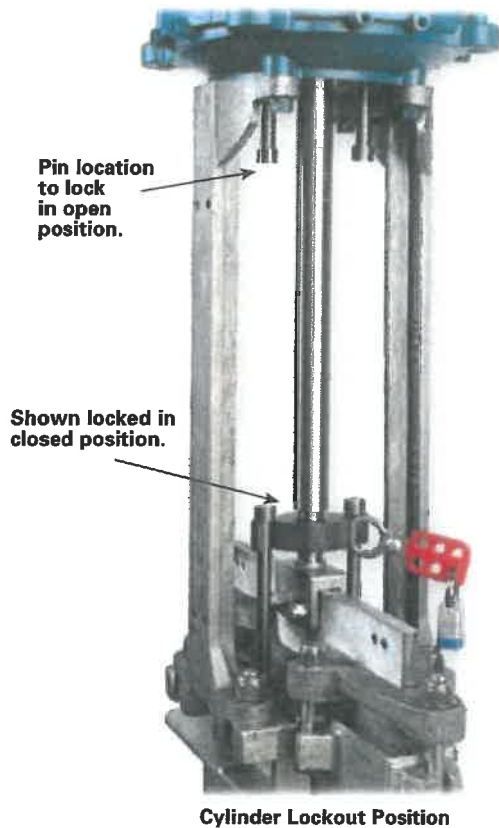
V-Orifice Design for Reliable Throttling and Modulation Control

An integral metal-seated V-port design is also available for reliable throttling control of thick slurries including paper stock. The constant V-orifice is maintained from open valve position to closed to prevent bridging or plugging and to ensure maximum control accuracy. Other orifice shapes available upon request.



Lockout Option

KGC-ES provides the latest in lockout design technology to protect both people and the environment. Unique designs for manual and automated models are available. The lockout collar for the automated models allows fine adjustment to ensure tight shutoff and maximum opening position. Lockouts are rated to withstand the maximum output of the actuators.



Handwheel Lockout Option

Actuators

- Handwheels
- Chainwheels
- Levers
- Bevel Gears
- Pneumatic Cylinders
- Hydraulic Cylinders
- Electric Motors

Accessories

A variety of accessories are offered as standard, including handwheel extensions, floorstands and a variety of cylinder actuator accessories for customizing the valve/actuator package to meet specific application requirements.

Options

DeZURIK Cast Knife Gate Valves may be ordered with the following options to meet your application requirements:

- Purge port connections
- Corrosion resistant cylinder actuator materials
- Lockouts
- Hardened/removable seats
- Hardened gates
- Bonnets

PCO # 95

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

**COH - Fiberglass Double Door
Inactive Leaf Flush Bolt & Astragal**

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 01/09/2018
Submitted To: Victor Valley Wastewater
Reclamation Authority, W M Lyles Co
Status: Pending
Priority: High
Pending On Org: Victor Valley Wastewater
Reclamation Authority

Created By: MWH Constructors, EADOC-VWRA-Sub-R - Charles Reynolds
Created: 01/09/2018

Contractor's PCO #:

Reason: Unforeseen / Changed Site Conditions
Requested By: Owner

Change Date:**Schedule ID:**

Not to Exceed \$: 0.00

Set:

Approved Thru Last: 769,284.22
Amount Added: 1,052.02
New Approved Amount: 770,336.24
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :**Funding:****Cost Item:****Proposed Design Change Summary:**

The large fiber glass double doors, Door-42-Fine Screens Room and Door-45-Chemical Feed Room for a total of 2-units are susceptible to misalignment becoming unlatched in high winds.

Please provide:

PCO # 95

Sub-Regional WRP Projects
 Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Change the bottom flush bolt(s) to a manual type (Rockwood 555) to keep the inactive leaf secured until opening of this door is required. Install a lock astragal (Rockwood 320CL) on the active door to prevent the door from passing too far past the inactive door.

Locations

Element B1 - Hesperia WRP - Vol-05 - 02 - Chemical Feed Room

Element B1 - Hesperia WRP - Vol-05 - 01 - Influent Screening

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date



California Contractor's License No. 422390

Southern Division - **Temecula Office**
42142 Roick Drive
Temecula, CA 92590
Telephone (951) 973-7393
Fax (951) 698-3031

www.wmlyles.com

An Equal Opportunity Employer

January 22, 2018

Victor Valley Wastewater Reclamation Authority
20111 Shay Rd.
Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-95 Fiberglass Door Fix

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to change the bottom automatic flush bolt to a manual type and add a lock astragal to not allow the active door to pass the inactive door at the Screening and Chemical Room. WML deems this change to be additional work and the cost for this change is \$1,052.02. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Grant Gourley', is written in a cursive style.

Grant Gourley
Project Executive
W.M. Lyles Co.



17861 Georgetown Lane
 Huntington Beach, CA 92647
 Ph: 714-842-0299 F: 714-842-0229

Invoice

Date 1/19/2018 Invoice # 11527

Bill To
 W.M. Lyles
 PO Box 4377
 Fresno, CA 93744

Ship To
 W.M. Lyles Co.
 Sub-Regional WRP
 21028 Otoe Road
 Apple Valley, CA 92307
 Grant Gourley 951-760-4169

P.O. Number	Terms	Rep	Ship	Via	F.O.B.	Project
T1139-29	Net 30	DP	1/17/2018	Our Truck	Jobsite	214172-8 Both sites

Description	Quantity		
ADS COR 08 Hesperia & Apple Valley Sites			
Change Bottom Flush Bolts to Rockwood 555 (per door)	4		
Install Rockwood 320 Lock Guard (per door)	4		
Trip charge (per jobsite)	2		
<p>Accurate Door Solution - \$1,984.00 WML Markup 5% - \$99.20 WML Bond 1% - \$20.83 WML Total - \$2,104.03</p> <p>COH - \$1,052.02 TOAV - \$1,052.01</p>			
<table border="1"> <tr> <td>Sales Tax (7.975..</td> <td>\$0.00</td> </tr> </table>		Sales Tax (7.975..	\$0.00
Sales Tax (7.975..	\$0.00		

Payments made with credit cards are subject to additional fees.
 (Cash, Checks and Visa Cards are accepted.)

Total \$1,984.00

Interest at 1½% per month but not more than allowed by law will be added on past due accounts.
 Buyer agrees if collection becomes necessary, buyer shall pay all costs including court costs and reasonable attorney fees.

PCO # 96

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

**COH - DC-74R Modification to
Water Heater Solenoid Valve Control
Strategy**

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 01/11/2018
Submitted To: W M Lyles Co
Status: Pending
Priority: Low

Created By: MWH Constructors, EADOC-VWRA-Sub-R - Charles Reynolds
Created: 01/11/2018

Contractor's PCO #: 96

Reason: Contractor Request
Requested By: Contractor

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 769,284.22
Amount Added: 3,484.50
New Approved Amount: 772,768.72
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

Proposed Design Change Summary:

The control strategy to perform maintenance cleans of the fine screens with hot water was modified allowing additional control for operator staff.

PCO # 96

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element B1 - Hesperia WRP - Vol-05 - 01 - Influent Screening

References

Correspondence # 151	DC 74R - Solenoid Valve and Control Strategy Change	Closed
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Contractor

Signature	Print Name	Date
-----------	------------	------

Construction Manager

Signature	Print Name	Date
-----------	------------	------

Owner

Signature	Print Name	Date
-----------	------------	------

PCO COH 096 - Evaluation Summary - OH&P

Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ -		\$ -
2	Materials	\$ -		\$ -
3	Equipment	\$ -		\$ -
	Trimax	\$ 3,000.00		\$ 3,000.00
	Total	\$ 3,000.00		\$ 3,000.00
	Markup	\$ 450.00	15%	\$ 450.00
	Subtotal	\$ 3,450.00		\$ 3,450.00
Subs				
4	Trimax	\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
	Subcontract Subtotal	\$ -		\$ -
	Subcontract Bond & Ins	\$ -	1%	
	Subtotal	\$ -		\$ -
	GC-Subcontractor Markup	\$ -	5%	\$ -
	Total	\$ 3,450.00		\$ 3,450.00
	Subcontractor OH&P		15%	\$ -
	Subcontractor Bond & Ins		1%	\$ -
	GC Bond & Ins	\$ 34.50	1%	\$ 34.50
	Total	\$ 3,484.50		\$ 3,484.50



California Contractor's License No. 422390

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42142 Roick Drive
Temecula, CA 92590
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Fax (951) 698-3031

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January 12, 2018

Victor Valley Wastewater Reclamation Authority
20111 Shay Rd.
Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: ~~COH-94~~ Modify Program for Loop 3101C
COH-096

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in DC-74R to modify the programming and loop drawings for the cold water supply valve in the Fine Screen Room. WML deems this change to be additional work and received pricing from Trimax. The cost for this change is \$3,484.50. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
Project Executive
W.M. Lyles Co.



**Trimax Systems, Inc.
Change Order Request**

Job Name VWVRA Subregional Plants	Customer P.O. Number T1139-50
To: Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069	Change Order Request: COR-44 Date: 7/28/2017
Attn: Steve Vickers	Reference DC-074R

Description:

Modify programs and documents for the following loop changes and additions

LOOP NO. 3101C	Plant Cold Water Supply Solenoid Valve (Reference P&ID 03-N-01)				Page 1 of 1
COMPONENT SUMMARY					
Tag Number(s)	Component Name/Type	Process Range/Setpoint	Full Scale Range	Process Fluid	Process Connection(s)
None	N/A	N/A	N/A	CWR	N/A

FUNCTIONAL DESCRIPTION

A solenoid normally open to plant cold water supply. Operator selects to close valve or have valve remain open on the local HMI or SCADA.

SUMMARY OF LOOP FUNCTIONS EXTERNAL TO PLC AND HMI
None

SUMMARY OF PLC AND HMI LOOP FUNCTIONS

Local PLC HMI and SCADA provides MANUAL or AUTO control for the plant cold water supply solenoid valve. In MANUAL mode, operator can issue command to close the solenoid valve to shut off cold water to the screen system. In AUTO mode, the PLC shall close this normally open valve when HCC-3101H is called to open.

**LOOP FUNCTION DATA SHEET
Hesperia Water Reclamation Plant**

LOOP NO. 3101H	Plant Hot Water Supply Solenoid Valve (Reference P&ID 03-N-01)				Page 1 of 1
COMPONENT SUMMARY					
Tag Number(s)	Component Name/Type	Process Range/Setpoint	Full Scale Range	Process Fluid	Process Connection(s)
None	N/A	N/A	N/A	HWR	N/A

A FUNCTIONAL DESCRIPTION

A solenoid normally closed to plant hot water supply. Operator selects to open valve or have valve remain closed on the local HMI or SCADA.

B SUMMARY OF LOOP FUNCTIONS EXTERNAL TO PLC AND HMI
None

C SUMMARY OF PLC AND HMI LOOP FUNCTIONS

1 Local PLC HMI and SCADA provides MANUAL or AUTO control for the plant hot water supply solenoid valve
 2 In MANUAL mode, operator can issue command to open the solenoid valve, allowing hot water to flow to the screen system
 3 In AUTO mode, the operator can make the following selection on the local or SCADA HMI: PLANT WATER ONLY, ONCE A DAY, TWICE A DAY, CONTINUOUSLY. The SCADA system will choose to open solenoid or have solenoid remain closed based on the operator's selection. In the PLANT WATER ONLY mode, the solenoid will not open. In the ONCE A DAY MODE, the SCADA system will open the solenoid the first time the on-line screen is called to run after an operator adjustable time of day (12:01 am - 11:59 pm) is reached. The solenoid will remain open for an operator adjustable time delay. In the TWICE A DAY MODE, the solenoid will open the first time the on-line screen is called to run after an operator adjustable time of day is reached and again 12 hours later. The same operator setpoint used to govern the open duration during the ONCE A DAY MODE shall be used in the TWICE A DAY MODE. In the CONTINUOUSLY mode, the solenoid will remain open.

D INTERLOCKS
None

Material

Item	Description	Qty	Unit Price	Extended Price
1		0	\$0.00	\$0.00
2		0	\$0.00	\$0.00
Subtotal:				\$0.00
Markup:				15.00%
Sales w/o Tax:				\$0.00
Sales Tax:				7.75%
Total Material Cost:				\$0.00

Non-Taxable Labor

Item	Description	Resource	Hrs	Rate	Extended Price



**Trimax Systems, Inc.
Change Order Request**

Job Name		Customer P.O. Number			
VWVRA Subregional Plants		T1139-50			
To: Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069		Change Order Request: COR-44			
Attn: Steve Vickers		Date: 7/28/2017			
		Reference DC-074R			
1	Review, plan and coordinate changes - Both Sites	Prog	2.00	160.00	\$320.00
2	Update panel I/O drawings - Both Sites	Des Eng	2.00	160.00	\$320.00
3	O&M Manual Modifications HWRP	Des Eng	2.00	160.00	\$320.00
3	O&M Manual Modifications AVWRP	Des Eng	1.00	160.00	\$160.00
4	Update loop drawings HWRP (1 dwg)	Des Eng	3.00	160.00	\$480.00
5	Update loop drawings AVWRP (1 dwg)	Des Eng	3.00	160.00	\$480.00
6	Add PLC program for HWRP	Prog	6.00	160.00	\$960.00
7	Add PLC program for AVWRP	Prog	4.00	160.00	\$640.00
8	Add HMI program for HWRP	Prog	1.50	160.00	\$240.00
9	Add HMI program for AVWRP	Prog	1.50	160.00	\$240.00
10	Add SCADA app for HWRP	Prog	1.50	160.00	\$240.00
11	Add SCADA app for AVWRP	Prog	1.50	160.00	\$240.00
12	Loop testing - Both Sites	Fid Eng	4.00	110.00	\$440.00
12	Operational testing - Both Sites	Prog	4.00	160.00	\$640.00
Total Non-Taxable Labor Cost:			37.00		\$5,720.00

Other Direct Costs

Item	Description	RT Miles	Qty	Unit Price	Extended Price
1	Mileage		1	\$0.62	\$0.00
2	Freight		1	\$0.00	\$0.00
3	Delivery to job site		1		\$0.00
4	Lodging				\$0.00
5	Per Diem			\$75.00	\$0.00
Total Other Direct Costs:					\$0.00

Complete price for the scope of work described herein:

\$5,720.00

TOAV Cost -	\$2,720.00	COH Cost -	\$3,000.00
WML Markup -	\$408.00	WML Markup -	\$450.00
WML Bond -	\$31.28	WML Bond -	\$34.50
WML Total -	\$3,159.28	WML Total -	\$3,484.50



**Trimax Systems, Inc.
Change Order Request**

Job Name	Customer P.O. Number
VVWRA Subregional Plants	T1139-50
To: Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069	Change Order Request: COR-44 Date: 7/28/2017
Attn: Steve Vickers	Reference DC-074R

Exclusions:

1. Mounting stanchion, mounting plate.
2. Materials for installation.
3. Additional PLC I/O modules to accommodate new I/O.
4. Installation of furnished equipment.

This scope letter represents Trimax Systems, Inc. entire proposed scope of work. Unless otherwise noted, no goods or services, other than those specifically described herein, are included or implied.

Quoted prices are valid for 90 days.

If you have any questions regarding this matter, please contact the undersigned.

Very truly yours,

Marty McLaughlin
Project Manager
Trimax Systems, Inc.

Cell Ph. - 714-595-1269
brianb@trimaxsystems.com

PCO # 97

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

**COH - Process Blower Floor
Supported Intake Pipe Support**

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 02/08/2018
Submitted To: EADOC-VVWRA-Sub-R -
Alton Anderson, VVWRA-Sub-R
- Ted Luiten, W M Lyles Co
Revision Date:
Status: Pending
Priority: High
Internal Priority: High
Pending On User: EADOC-VVWRA-Sub-R -
Alton Anderson
Pending On Org: Victor Valley Wastewater
Reclamation Authority, W M
Lyles Co

Created By: MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds
Created: 02/01/2018

Contractor's PCO #: 97

Reason: Unforeseen / Changed Site Conditions
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 769,284.22
Amount Added: 0.00
New Approved Amount: 769,284.22
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

PCO # 97

Sub-Regional WRP Projects
 Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Proposed Design Change Summary:

Process Blower generate a low frequency wave, which is currently resonating into floor slab via the hanger pipe support system. This annoying vibration and noise has been detected when blower #1 is in operation and in operation at different speeds of the blower. The vibration and annoying noise is most disturbing in the stairwell and air-plenum room of the building.

Please provide a floor mounted pipe support with six inch diameter post support bolted to the floor of the building with a B-Line, type B3093 pipe saddle and 1/4" rubber spacer between the pipe and saddle. The existing clevis hanger support w/bracing to remain in place for seismic vertical and lateral support (loose fit nuts on vertical all-thread rod) see figure attached. Location, each blower at northwest corner of blower

Please provide all materials and labor to install a floor mounted pipe support to be mounted to the foundation floor of the process blower equipment room.

Files

Process Blower Vibration - Pipe Support.pdf	132.86 KB
---	-----------

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

PCO COH 97 - Evaluation Summary - OH&P				
Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ 3,939.35		\$ 3,939.35
2	Materials	\$ 5,129.00		\$ 5,129.00
3	Equipment	\$ 323.40		\$ 323.40
				\$ -
	Total	\$ 9,391.75		\$ 9,391.75
	Markup	\$ 1,408.76	15%	\$ 1,408.76
	Subtotal	\$ 10,800.51		\$ 10,800.51
Subs				
4		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
	Subcontract Subtotal	\$ -		\$ -
	Subcontracto Bond & Ins	\$ -	1%	
	Subtotal	\$ -		\$ -
	GC-Subcontractor Markup	\$ -	5%	\$ -
	Total	\$ 10,800.51		\$ 10,800.51
	Subcontractor OH&P		15%	\$ -
	Subcontractor Bond & Ins		1%	\$ -
	GC Bond & Ins	\$ 108.01	1%	\$ 108.01
	Total	\$ 10,908.52		\$ 10,908.52



California Contractor's License No. 422390

Southern Division - **Temecula Office**
 42142 Roick Drive
 Temecula, CA 92590
 Telephone (951) 973-7393
 Fax (951) 698-3031

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February 8, 2018

Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: COH-97 Added Pipe Supports for Aer Blower Piping

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to add three pipe supports for on the inlet blower piping on the Aeration Blowers. WML deems this change to be additional work and the cost for this change is ~~\$10,909~~. The breakdown of this amount is attached.

\$10,908.52

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
 Project Executive
 W.M. Lyles Co.

W. M. Lyles Co.
 42142 Roick Drive
 Temecula, CA 92590

Date: 8-Feb-18

Reference #:

Attention: Alton Anderson

Project: VVWRA Subregional Plants Project

Description: COH-97 Pipe Supports on Aeration Blower

Item:	Unit	Total MH	MH Cost	Total MH Cost	Eq. Cost	Material	Subcont.	Total Cost
COH-97 Pipe Supports on Aeration Blower	LS	56	-	\$ 3,939.35	\$ 323.40	\$ 5,129.00	\$ -	\$ 9,391.75
Total Costs		56		\$ 3,939.35	\$ 323.40	\$ 5,129.00	\$ -	\$ 9,391.75

Subtotal	\$	9,391.75
Mark-up - Labor	\$	590.90
Mark-up - Equipment	\$	48.51
Mark-up - Materials	\$	769.35
Mark-up - Subcontractor	\$	-
Bond	\$	108.01
Total This Change Order	\$	10,909.00

Comments:

VVWRA Subregional Plants Project

TOAV-109 Pipe Supports on Aeration Blower

2/8/2018

A. Labor

0.00

Description	Op FM	Op	Lab FM	Lab	Carp	CM			
Install Supports	8			16	32				
	8	0	0	16	32	0		0	0

Name	Rate	Hours	Extension
Op FM	\$84.63	8	\$677.02
Op	\$81.99	0	\$0.00
Lab FM	\$67.55	0	\$0.00
Lab	\$65.23	16	\$1,043.61
Carp	\$69.33	32	\$2,218.72
CM	\$67.98	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
		56	
		Total Labor =	\$3,939.35

B. Equipment

Description	15.205	18.284	15.184	18.254	35.066	18.278	31.012	30.045	30.628
Pickup	12								
	12	0	0	0	0	0	0	0	0

Number	Description	Rate	Hours	Extension	
15.205	Truck	\$26.95	12	\$323.40	
18.284	Yard Truck	\$26.95	0	\$0.00	
15.184	Truck	\$26.95	0	\$0.00	
18.254	Truck	\$26.95	0	\$0.00	
35.066	Loader	\$142.00	0	\$0.00	
18.278	Truck	\$26.95	0	\$0.00	
30.045	John Deere Backhoe	\$58.53	0	\$0.00	
30.628	CAT Rental Backhoe	\$39.56	0	\$0.00	
31.012	Skidsteer	\$30.00	0	\$0.00	
				Total Equipment =	\$323.40

C. Materials

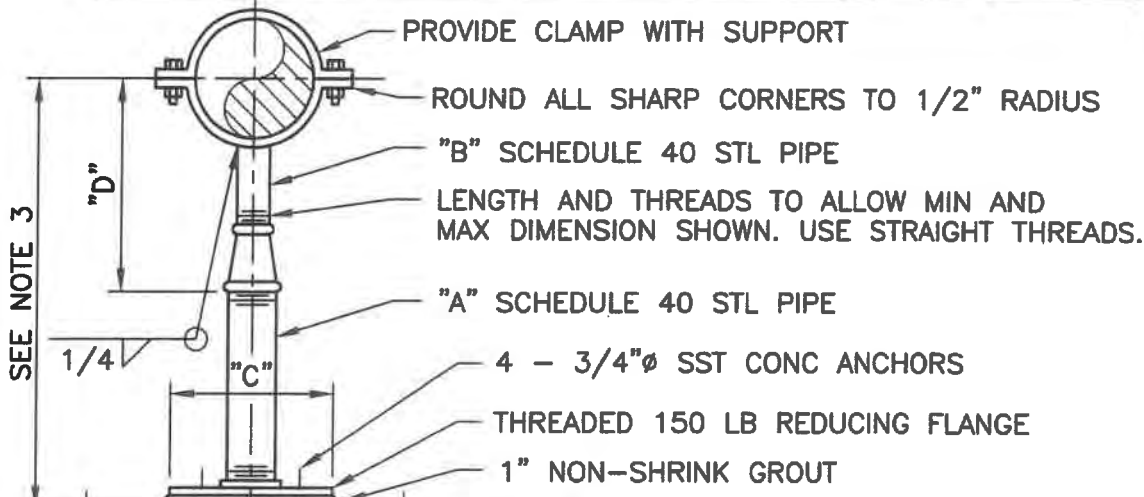
	Quantity	Unit	Price	Extension	
				\$0.00	
Pipe Supports	3	EA	\$1,493.00	\$4,479.00	
Anchor Bolts	12	EA	\$25.00	\$300.00	
Grout	1	LS	\$150.00	\$150.00	
Neoprene	1	LS	\$200.00	\$200.00	
				\$0.00	
				Total Material =	5,129.00

D. Subcontractor

	Quantity	Unit	Price	Extension	
				\$0.00	
				\$0.00	
				\$0.00	
				\$0.00	
				\$0.00	
				Total Subcontract =	\$0.00

ADJUSTABLE PIPE SADDLE SUPPORT SCHEDULE					
DIMENSIONS IN INCHES					
SIZE OF SUPPORTED PIPE	PIPE SIZE "A"	PIPE SIZE "B"	"C"	"D"	
				MINIMUM	MAXIMUM
2 1/2 *	2 1/2	1 1/2	9	8	13
3	2 1/2	1 1/2	9	8 1/2	13 1/2
3 1/2	2 1/2	1 1/2	9	8 1/2	13 1/2
4	3	2 1/2	9	9 1/2	14
6	3	2 1/2	9	10 1/2	15 1/2
8	3	2 1/2	9	11 1/2	16 1/2
10	3	2 1/2	9	13 1/2	18 1/2
12	3	2 1/2	9	15	19 1/2
14	4	3	11	16 1/2	20 1/2
16	4	3	11	17 1/2	22 1/2
18	6	3 1/2	13 1/2	19 1/2	24
20	6	3 1/2	13 1/2	21	25 1/2
24	6	4	13 1/2	23 1/2	28 1/2
30	6	4	13 1/2	27	31 1/2
32	6	4	13 1/2	28 1/2	32 1/2
36	6	4	13 1/2	30 1/2	34 1/2

6 EA
20" Stl Pipe
12' Tall



- NOTES:**
1. HOT-DIP GALVANIZE SUPPORT AFTER FABRICATION.
 2. * USE 2 1/2" SUPPORTS FOR PIPES LESS THAN 2 1/2"Ø
 3. HEIGHT SHOULD NOT EXCEED 3 FEET WITHOUT PROVISIONS FOR LATERAL BRACING. FOR SUCH PROVISIONS SEE MECHANICAL DRAWINGS

P624	ADJUSTABLE PIPE SUPPORT
TYP	NS

05-16-09

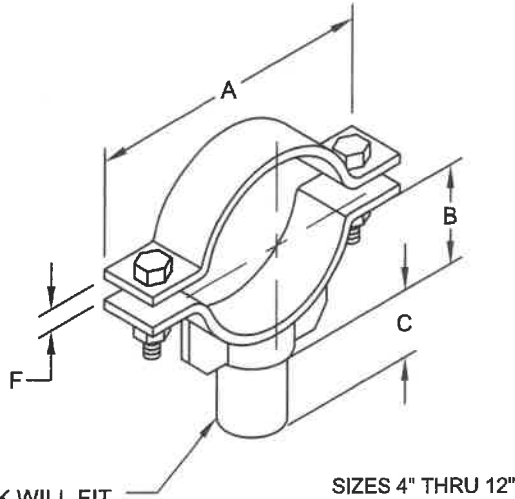
TRIPAC FIG. TP-811 PIPE SADDLE WITH STRAP

SIZE RANGE-4" THRU 36" PIPE

SERVICE-DESIGNED FOR SUPPORTING PIPE FROM FLOOR STANCHION. TOP CLAMP HOLDS PIPE SECURELY IN PLACE.

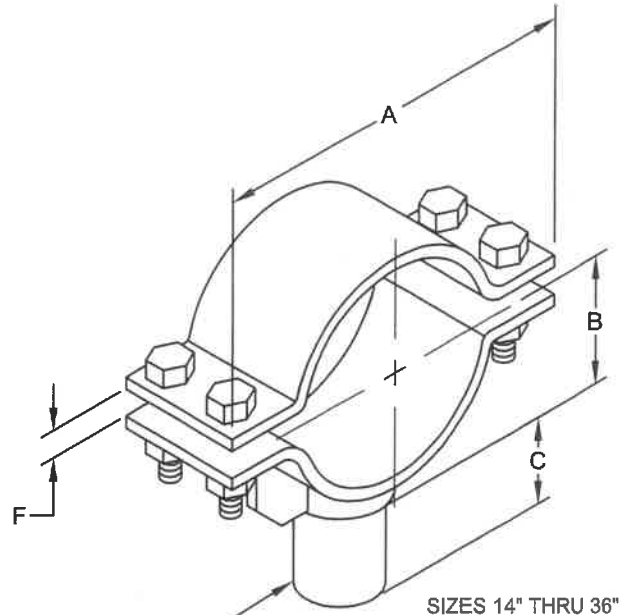
**MATERIAL-CARBON STEEL, T-304 AND T-316
FINISHES-PLAIN, ELECTRO-GALVANIZED, HDG**

8" AND LARGER WILL HAVE GUSSETS



D-SHANK WILL FIT INTO E SIZE SCH. 40 PIPE

SIZES 4" THRU 12"



D-SHANK WILL FIT INTO E SIZE SCH. 40 PIPE

SIZES 14" THRU 36"

DIMENSIONS

PIPE SIZE	A	B	C	D	E	F	BOLT SIZE
4"	7"	3-13/16"	2"	2-3/8"	2-1/2"	3/4"	1/2"
5"	8-5/8"	4-3/16"	2"	2-3/8"	2-1/2"	3/4"	1/2"
6"	11"	4-7/8"	2"	2-3/8"	2-1/2"	7/8"	5/8"
8"	13-7/8"	6-15/16"	2"	2-3/8"	2-1/2"	1"	5/8"
10"	16"	7-15/16"	2"	2-3/8"	2-1/2"	1"	3/4"
12"	18-1/4"	9-1/8"	3"	2-3/8"	2-1/2"	1"	3/4"
14"	19-3/4"	10-1/2"	3"	2-7/8"	3"	1-1/8"	3/4"
16"	22-3/4"	11-1/2"	3"	2-7/8"	3"	1-1/8"	3/4"
18"	25-1/16"	13-1/2"	4"	3-3/4"	4"	1-1/4"	3/4"
20"	27-3/4"	14-1/2"	4"	3-3/4"	4"	1-3/8"	3/4"
22"	29-3/4"	15-1/2"	4"	3-3/4"	4"	1-3/8"	3/4"
24"	32-3/8"	17-1/2"	4"	3-3/4"	4"	1-5/8"	7/8"
26"	35"	18-1/2"	4"	3-3/4"	4"	2"	7/8"
30"	39-3/8"	20-5/8"	4"	3-3/4"	4"	2"	7/8"
32"	41-3/8"	21-5/8"	4"	3-3/4"	4"	2"	7/8"
36"	45-3/8"	23-5/8"	4"	3-3/4"	4"	2"	7/8"



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TRIPAC FIG. TP-816 PIPE STAND TRIPAC FIG. TP-816T THREADED PIPE STAND

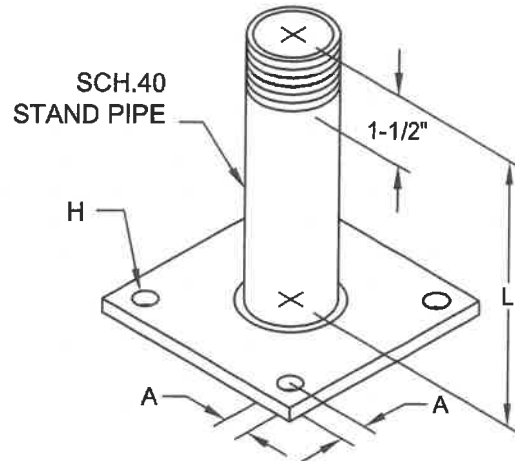
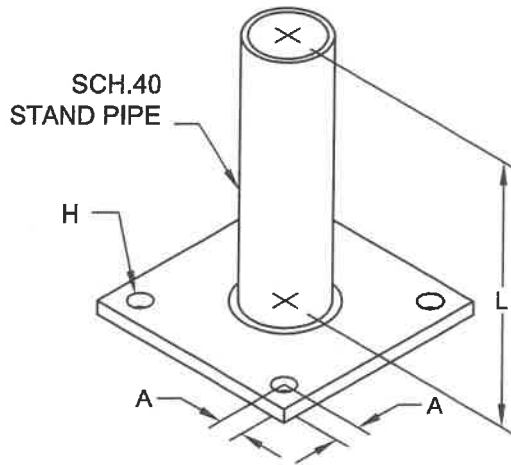
SIZE RANGE-1" THRU 8" PIPE

SERVICE-DESIGNED TO PROVIDE A SUPPORT BASE FOR FLOOR STANCHION SUPPORT. USE WITH SADDLES TP-811, TP-814, TP-817, TP-818 AND WHEN VERTICAL ADJUSTMENT IS NEEDED USE TP-819 PIPE ADJUSTER.

MATERIAL-CARBON STEEL, T-304 AND T-316

FINISHES-PLAIN, ELECTRO-GALVANIZED, HDG

"L" DIMENSION FROM TOP OF PIPE TO TOP OF PLATE TO TOP OF PLATE



DIMENSIONS & WEIGHTS

STAND PIPE SIZE	A	H	PLATE SIZE	APPROX. WT./100
1"	1"	1/2"	6" SQ.	423
1-1/4"	1"	1/2"	6" SQ.	482
1-1/2"	1"	1/2"	6" SQ.	525
2"	1"	1/2"	6" SQ.	748
2-1/2"	1-1/8"	5/8"	8" SQ.	1377
3"	1-1/8"	5/8"	9" SQ.	1555
4"	1-1/4"	3/4"	11" SQ.	2514
6"	1-1/2"	7/8"	14" SQ.	4469
8"	1-1/2"	1"	16" SQ.	10120

* WEIGHT IS BASED ON "L" DIMENSION OF 1'-0"



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TRIPAC FIG. TP-819 THREADED PIPE ADJUSTER

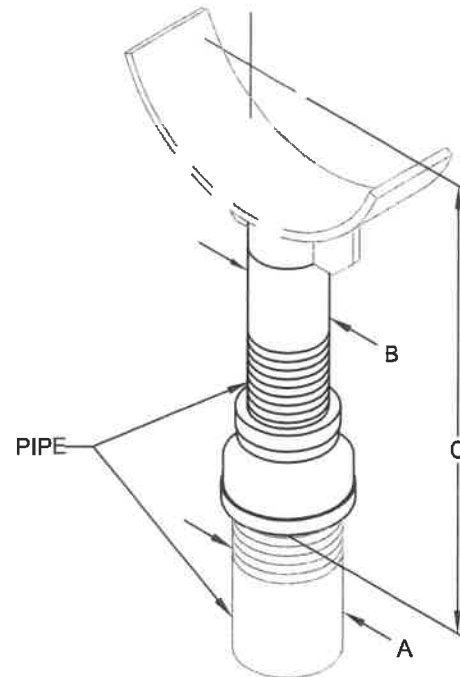
SIZE RANGE-FOR USE WITH 2-1/2" THRU 36" PIPE

SERVICE-DESIGNED TO PROVIDE UP TO 4-1/2" OF VERTICAL ADJUSTMENT AFTER INSTALLATION. TYPICALLY USED IN CONJUNCTION WITH TP-816T PIPE STAND AND TP-811, TP-814, TP-817 & TP-818 PIPE SADDLES.

MATERIAL-CARBON STEEL, T-304 AND T-316

FINISHES-PLAIN, ELECTRO-GALVANIZED, HDG

COMPLIES WITH FEDERAL SPECIFICATION WW-H-171-E (TYPE #39 2-1/2" THRU 36") AND MANUFACTURERS STANDARDIZATION SOCIETY MSS AND SP-69 (TYPE #38), WHEN USED WITH PIPE STAND AND PIPE SADDLE.



DIMENSIONS & WEIGHTS

ADJUSTER SIZE	PIPE SIZE	MAX. O.D. OF PIPE	A PIPE SIZE	B PIPE SIZE	C MIN.	C MAX.	APPROX. WT./100
1-1/2" x 2-1/2"	2-1/2"	2-7/8"	2-1/2"	1-1/2"	7"	11-1/2"	304
1-1/2" x 2-1/2"	3"	3-1/2"	2-1/2"	1-1/2"	7-5/16"	11-13/16"	304
1-1/2" x 2-1/2"	3-1/2"	4"	2-1/2"	1-1/2"	7-9/16"	12-1/16"	304
2-1/2 x 3"	4"	4-7/8"	3"	2-1/2"	10-1/4"	14-3/4"	793
2-1/2 x 3"	5"	5-5/8"	3"	2-1/2"	11-1/16"	15-9/16"	793
2-1/2 x 3"	6"	7"	3"	2-1/2"	11-9/16"	16-1/16"	793
2-1/2 x 3"	8"	9-1/8"	3"	2-1/2"	13-9/16"	18-1/16"	793
2-1/2 x 3"	10"	11-1/8"	3"	2-1/2"	14-5/8"	19-1/8"	793
2-1/2 x 3"	12"	13-1/2"	3"	2-1/2"	15-5/8"	20-1/8"	793
3" x 4"	14"	14"	4"	3"	18-7/8"	23-3/8"	1220
3" x 4"	16"	16"	4"	3"	19-7/8"	24-3/8"	1220
4" x 6"	18"	18"	6"	4"	22-1/4"	26-3/4"	2248
4" x 6"	20"	20"	6"	4"	23-1/4"	27-3/4"	2248
4" x 6"	22"	22"	6"	4"	24-1/4"	28-3/4"	2248
4" x 6"	24"	24"	6"	4"	26-1/2"	31"	2248
4" x 6"	26"	26"	6"	4"	27-1/2"	32"	2248
4" x 6"	30"	30"	6"	4"	29-5/8"	24-1/8"	2248
4" x 6"	32"	32"	6"	4"	30-5/8"	35-1/8"	2248
4" x 6"	36"	36"	6"	4"	32-5/8"	37-1/8"	2248

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PCO # 98

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

**COH - Bid Item B15 Creid for
Unused Permit Fees**

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 02/27/2018
Submitted To: MWH Constructors, Victor Valley
Wastewater Reclamation Authority, W
M Lyles Co
Status: Pending
Priority: Low
Pending On Org: Victor Valley Wastewater
Reclamation Authority, W M Lyles Co

Created By: MWH Constructors, EADOC-VWRA-Sub-R - Charles Reynolds
Created: 02/27/2018

Contractor's PCO #:

Reason: Owner Request
Requested By: Owner

Change Date:**Schedule ID:**

Not to Exceed \$: 0.00

Set:

Approved Thru Last:	769,284.22
Amount Added:	-10,000.00
New Approved Amount:	759,284.22
Current Contract Duration:	821
Days Added:	0
New Contract Duration:	821

Budget :**Funding:****Cost Item:****Proposed Design Change Summary:**

Contract Bid Documents included a line item amount of \$10,000 for City of Hesperia Permit Fees. This credit change order is for the amount of \$10,000.00 of unused funds.

PCO # 98

Sub-Regional WRP Projects
Sub Regional WRP Projects

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References

Specification 01210 Allowances

Published

Contractor

Signature

Print Name

Date

Construction Manager

Signature

Print Name

Date

Owner

Signature

Print Name

Date

PCO # 99

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

**COH - Credit for Unused Allowance
- Line Item B16 MBR Electrical**

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 02/27/2018
Submitted To: MWH Constructors, Victor Valley
Wastewater Reclamation Authority, W
M Lyles Co
Status: Pending
Priority: Low
Pending On Org: Victor Valley Wastewater
Reclamation Authority, W M Lyles Co

Created By: MWH Constructors, EADOC-VWRA-Sub-R - Charles Reynolds
Created: 02/27/2018

Contractor's PCO #:

Reason: Owner Request
Requested By: Owner

Change Date:**Schedule ID:**

Not to Exceed \$: 0.00

Set:

Approved Thru Last:	769,284.22
Amount Added:	-5,439.95
New Approved Amount:	763,844.27
Current Contract Duration:	821
Days Added:	0
New Contract Duration:	821

Budget :**Funding:****Cost Item:****Proposed Design Change Summary:**

Contract Bid Documents included a line item amount of \$50,000 for the installation of electrical related equipment and conduit in the membrane basin area. This credit change order is for the amount of \$5,439.95 of unused funds.

PCO # 99

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

References

Specification 01210 Allowances

Published

Contractor

Signature

Print Name

Date

Construction Manager

Signature

Print Name

Date

Owner

Signature

Print Name

Date

PCO # 100

Sub-Regional WRP Projects
Sub Regional WRP Projects



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**COH - Credit for Unused Allowance
- Line Item C1 Owners Reserve
Allowance**

Type: RFC - Request for Change
Contract: 10943 - Hesperia
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10943 - Hesperia

Submitted : 02/27/2018
Submitted To: MWH Constructors, Victor Valley Wastewater Reclamation Authority, W M Lyles Co
Revision Date:
Status: Pending
Priority: Low
Pending On Org: Victor Valley Wastewater Reclamation Authority, W M Lyles Co

Created By: MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds
Created: 02/27/2018

Contractor's PCO #:

Reason: Owner Request
Requested By: Owner

Change Date:**Schedule ID:****Not to Exceed \$:** 0.00**Set:**

Approved Thru Last: 769,284.22
Amount Added: -928.96
New Approved Amount: 768,355.26
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :**Funding:****Cost Item:**

PCO # 100

Sub-Regional WRP Projects
Sub Regional WRP Projects

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Proposed Design Change Summary:

Contract Bid Documents included a line item amount of \$500,000 for miscellaneous work required during the completion of the project to be used at the discretion of the Owner and Owner's representatives. This credit change order is for the amount of \$928.96 of unused funds

References

Specification 01210 Allowances


Published

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date



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

15 March 2018

FROM: Logan Olds, General Manager 

TO: Board of Commissioners

SUBJECT: Recommendation to approve FINAL Change Order No. 8 for the Apple Valley Subregional Construction Project Contract #10942 with W.M. Lyles Co. of a net increase in the amount of \$183,489.01.

RECOMMENDATION

It is recommended that the Board of Commissioners authorize the approval of FINAL Change Order No. 8 for the Apple Valley Subregional Construction Contract #10942 with W.M. Lyles Co. as dated February 28, 2018 in a net increase in the contract by the amount of \$183,489.01, for a contract total of \$33,672,671.34. There is no time impact in this Change Order. The proposed Change Order #8 is attached.

REVIEW BY OTHERS

This recommendation has been prepared by Logan Olds, General Manager and reviewed by the VVWRA Engineering Committee including Tim Millington, David Burket, Brian Gengler and Greg Snyder.

BACKGROUND INFORMATION

As requested by the Board all potential change orders for the Subregional Project are taken to the VVWRA Engineering Committee for review and comment. Upon review by the VVWRA Engineering Committee on March 5, 2018 it was the consensus of the members present to place this staff recommendation for Change Order No. 8 before the VVWRA Board for approval.

The Subregional Project in Apple Valley has completed construction. The Apple Valley portion of the overall project has reached Substantial Completion and VVWRA staff are currently performing operational testing. The total construction change order percentage for the Apple Valley subregional is 3.05%; this is quite good when industry standard is 10%.

This Change Order No. 8 contains multiple items. The numbering system of the items is based on the potential change order (PCO) tracking. Backup material is attached to the change order for each of the items. The original contract and Change Orders are shown in the following Table.

Change Order	Amount	% CO
1	0	0%
2	\$288,062.22	0.88%
3	(\$48,730.95)	-0.15%
4	\$205,409.03	0.63%
5	\$230,957.75	0.71%
6	\$49,806.88	0.15%
7	\$87,677.40	0.27%
8	\$183,489.01	0.56%
Total	\$996,671.34	3.05%

This Change Order No. 7 deals with electrical items and staff requests for the WRP. Multiple RFI and Design Clarifications have been communicated through the construction team of VVWRA, Design Engineers, CM Consultant, General Contractor, and Sub-Contractors. Items come from conflicting information in the Bid Documents, requests from VVWRA Operations and Maintenance, and input for a better system from the Contractor. A summary of the Change Order Items follows:

Item Number	Description	Amount
90	TOAV - DC 122 VFD Wiring Modifications	\$ 13,426.11
91	TOAV - DC 114 - MBR Instrument Air Compressor Electrical Changes	\$ (1,036.50)
96	TOAV - DC 123 Damper & Make Up Air Unit Controls & FM 200	\$ 34,716.62
97	TOAV - Chlorination or Existing Piping Off Site	\$ 9,834.31
99	TOAV - Modifications to Process Drain Pump Station Level Indicating Transmitter	\$ 12,194.94
103R	TOAV - Provide water for all testing at the WRP	\$ 27,765.10
104	TOAV - Area Remediation	\$ 35,545.00
105	TOAV - DC-43R Modification to Exhaust Fan Control Strategy	\$ 12,999.32
106	TOAV - MBR Basin Drain 16" Knife Gate Valve Body Change	\$ 22,330.58
107	TOAV - Fiberglass Double Door Inactive Leaf Flush Bolt & Astragal	\$ 1,052.02
108	TOAV - DC-74R Modification to Water Heater Solenoid Valve Control Strategy	\$ 3,159.28
109	TOAV - Process Blower Intake Pipe Supports	\$ 10,908.52
110	TOAV - Bid Item A14 Credit Unused Allowance - Line Item A14 MBR Electrical	\$ (5,439.95)
111	TOAV - Bid Item C1 Credit Unused Allowance - Line Item C1 Owners Reserve	\$ (942.21)
112	TOAV - Percolation Pond Programming	\$ 6,975.87
TOTAL		\$ 183,489.01

The approved SRF loan includes contingency for this change order in the amount of \$2,003,280.00 of which \$1,159,562.00 has been requested to date. Of the approved state revolving fund change order contingency there will be a remaining balance of approximately \$660,229.00 after this change order. VVWRA staff has been working with SRF staff to reallocate those remaining funds towards soft costs. As of 31 January 2018 there remained an additional \$3,659,438.00 to finalize costs (construction, construction management and engineering services) associated with the Apple Valley subregional project.

The total of these items is a net increase of \$189,489.01 and no impact to the project construction time. The Change Order No 8 is attached with supporting documentation. Staff has reviewed and agrees with the items within this Change Order. The VVWRA Engineering Committee and VVWRA Staff met on October 5, 2017 to review the list of Potential Change Orders. Staff presented a summary and responded to the committee questions. The Committee evaluated the material and agreed that this Change Order 8 be presented to the Board for approval. As mentioned previously the project is well under a 10% construction change order contingency.

Staff recommends that the Board authorize the approval of Change Order No. 8 Apple Valley Subregional Construction Contract #10943 with W.M. Lyles Co. as dated 28 February 2018.

FINANCIAL IMPACT

Finance Approval:

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

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (mandatory project code)	09-55-500-9000, C103
Transfer Needed due to Insufficient Budget	Y[] N[x]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	SRF Loan
Budget Remaining after the Recommendation	\$0
Outside Funding Source	\$34,673,280.00
Original Contract Amount	\$32,670,000.00
Change Order	Y[x] N[]
Contract after Change	\$33,672,671.34

The expense is an increase of \$189,489.01 to FY 17/18 Budget Account, 09-55-500-9000, C103.

RELATED IMPACTS

The approved SRF loan includes contingency for this change order.

PCO # 90

Sub-Regional WRP Projects
Sub Regional WRP Projects



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TOAV - DC 122 VFD Wiring Modifications

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 09/27/2017
Submitted To: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Charles Reynolds, EADOC-VVWRA-Sub-R - Grant Gourley, EADOC-VVWRA-Sub-R - Lynene Voelker
Status: Pending
Priority: High
Internal Priority: High
Pending On User: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Lynene Voelker
Pending On Org: Victor Valley Wastewater Reclamation Authority, Carollo Engineers

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 09/27/2017

Contractor's PCO #:

Reason: Design Omissions
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 725,504.93
Amount Added: 13,550.54
New Approved Amount: 739,055.47
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

PCO # 90

Sub-Regional WRP Projects
Sub Regional WRP Projects

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Locations

Element A1 - Apple Valley WRP - Vol4

References

DCM # 122	DC 122 - VFD wiring modifications	Closed
Correspondence # 138	DC 122 VFD Wiring Modifications	Closed

Contractor

Signature	Print Name	Date
-----------	------------	------

Construction Manager

Signature	Print Name	Date
-----------	------------	------

Owner

Signature	Print Name	Date
-----------	------------	------

PCO COH 086 & TOAV 090 - Evaluation Summary - OH&P				
Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ -		\$ -
2	Materials	\$ -		\$ -
3	Equipment	\$ -		\$ -
				\$ -
	Total	\$ -		\$ -
	Markup	\$ -	15%	\$ -
	Subtotal	\$ -		\$ -
Subs				
4	Southern Electrical	\$ 12,777.08		\$ 11,000.50
		\$ -		\$ -
	Subcontract Subtotal	\$ 12,777.08		\$ 11,000.50
	Subcontractor Bond & Ins	\$ 127.77	1%	
	Subtotal	\$ 12,904.85		\$ 11,000.50
	GC-Subcontractor Markup	\$ 645.24	5%	\$ 550.03
	Total	\$ 13,550.09		\$ 11,550.53
	Subcontractor OH&P		15%	\$ 1,650.08
	Subcontractor Bond & Ins		1%	\$ 110.01
	GC Bond & Ins	\$ 135.50	1%	\$ 115.51
	Total	\$ 13,685.60	COH	\$ 13,426.11
			TOAV	\$ 13,426.11

Southern Contracting Co.

CHANGE ORDER REQUEST

No. 00136

TITLE: DC 122 VFD Mods

DATE: 12/14/2017

PROJECT: Victor Valley Subregional WRPq

JOB: 100531

TO: Attn: Grant Gourley
W.M. Lyles

CONTRACT NO: 1

42142 Roick Drive
Temecula, CA 92590
Phone: 951-973-7393

Fax: 951-698-3031

RE: To: From: Number:

DESCRIPTION OF PROPOSAL

Provide modifications to VFDs as directed in DC 122

Item	Description	Stock #	Quantity	Units	Unit Price	Tax Rate	Tax Amount	Net Amount
00001	Provide VFD Modifications as directed in DC 122		1.000		\$25,555.00	0.00%	\$0.00	\$25,555.00

Unit Cost: \$25,555.00
Unit Tax: \$0.00
Total: \$25,555.00

WML Markup: \$1,277.75
WML Bond: \$268.33
WML total: \$27,101.08

~~\$13,426.11 COH = \$13,550.54
\$13,426.11 TOAV = \$13,550.54~~

APPROVAL:

By: _____
Grant Gourley

By: _____
Brendan Bradford

Date: _____

Date: _____



Southern Contracting Company

PO Box 445, San Marcos, CA 92079-0445
(T) 760-744-0760 (F) 760-744-6475
Lic. No. 222252

Cost Proposal/Estimate for Extra Work

PROJECT: **Victor Valley Wastewater Reclamation Authority**
Subregional WRP's
W.M. Lyles Co.
TO: **Attention: Grant Gourly**
42142 Roick Drive
Temecula, CA 92590

LYLES NO. _____
SCC COR NO. 136
SCC JOB NO. 100531

THE FOLLOWING BUDGET PROPOSALIS SUBMITTED HEREWITH FOR YOUR APPROVAL:

REFERENCE: **DC 122 VFD Wiring Modifications**

DESCRIPTION: **Provide Wiring Modifications as directed in DC 122**

(a) Direct Materials [from Breakdown]	\$	18,060
(b) Sales Tax on Materials [8.0% of (a)]	\$	1,445
(c) Direct Labor [from Breakdown]	\$	1,945
(d) Rental Equipment [from Breakdown]	\$	510
(e) Sales Tax on Rental Equipment [8.0% of (d)]	\$	41
(f) Subcontract & Outside Services [from Breakdown]	\$	-
(g) SUBTOTAL [(a)+(b)+(c)+(d)+(e)+(f)]	\$	22,001
(h) Overhead and Profit:		
Materials [15% of (a)+(b)]	\$	2,926
Direct Labor [15% of (c)]	\$	292
Equipment [15% of (d)+(e)]	\$	83
Subcontract & Outside Services [15% of (f)]	\$	-
(i) SUBTOTAL [(g)+(h)]	\$	25,302
(j) Bond [1.0% of (i)]	\$	253
TOTAL PROPOSAL/ESTIMATE [(i)+(j)]	\$	25,555

Estimated Time Extension Required TBD days

SUBMITTED BY: _____
Brendan Bradford

DATE: 12/14/2017

APPROVED BY: _____

DATE: _____

Steve Vickers

From: Wadnal, Anthony <AnthonyWadnal@Eaton.com>
Sent: Monday, September 25, 2017 4:35 PM
To: Steve Vickers
Cc: Pflimlin, Gina M; Craig Stephens
Subject: RE: [EXTERNAL] DC 122 VFD wiring modification.pdf - QUOTE LSN00013935

Hey Steve,

The cost for parts and labor to rewire these drives, is below:

Rewire VFD's in MCC item 102 (units 2M & 3M) and MCC Item 103 (units 6M & 7M)
 Cost for parts and labor - \$4,950
 Estimated 2 days labor, including travel

Thanks!

Tony Wadnal
 Sales Engineer
 Eaton
 4863 Shawline Street, Suite E
 San Diego, California 92111
 Office: +1 619 692-6273
 Cell: +1 619 481-0141
anthonywadnal@eaton.com
www.eaton.com



Powering Business Worldwide

From: Steve Vickers [mailto:SVickers@southerncontracting.com]
Sent: Thursday, September 21, 2017 10:01 AM
To: Wadnal, Anthony
Cc: Pflimlin, Gina M; Craig Stephens
Subject: RE: [EXTERNAL] DC 122 VFD wiring modification.pdf

Yes it is as you have shown these VFD's are in the MCC's

The others are Benshaw

From: Wadnal, Anthony [mailto:AnthonyWadnal@Eaton.com]
Sent: Thursday, September 21, 2017 9:59 AM
To: Steve Vickers <SVickers@southerncontracting.com>
Cc: Pflimlin, Gina M <GinaMPflimlin@Eaton.com>
Subject: RE: [EXTERNAL] DC 122 VFD wiring modification.pdf



CORPORATE OFFICE: 615 Alpha Drive, Pittsburgh, PA 15238

Telephone: 412 . 968 . 0100 • Fax: 412 . 968 . 5415

www.benshaw.com

QUOTATION

Date : Oct. 5, 2017
 P.O.Number :
 Job Number :
 Quote # : DP171005SC, Rev. 0
 Term/Rep/Spec'n : PG/ML
 Customer # : 3024413
 Bill to Address : Southern Contracting
 558 North Twin Oaks Valley
 San Marcos, CA 92069

Project or End User : Victor Valley
 Application : Pumps
 Quote By : Dave Parshall
 Ship To Address: TBD

Name : Steve Vickers
 Telephone # : 619-520-6248
 Email : svickers@southerncontracting.com
 QUOTE VALID FOR 60 DAYS

Terms : Net 30 days /2% Monthly after 30 days
 Freight : Prepaid & Add
 Ship Date : TBD
 Ship Via : Best Way
 F.O.B. : Shipping Point
 PLEASE REFERENCE QUOTE NUMBER WITH YOUR ORDER

ITEM	QTY	PART NUMBER / DESCRIPTION	UNIT PRICE	EXTENDED PRICE
A	1	Retrofit/Field Modification Work to be performed: 1. Benshaw to revise drawing sets per customer Mark Up dwgs. 2. Provide parts (relays, lights and misc wiring). 3. Field Service to modify existing drives per revised drawings. See attached Summary Table. Field Service is included in the quoted price and includes estimated 4 hrs per drive. Travel and Living expenses are included in the quote and these are also an estimate. Actual expenses will be invoiced.	\$13,110.00	\$13,110.00
*This proposal is subject to the Benshaw, Inc. Standard Terms and Conditions of Sale. A copy is available on request. - Due to the uncontrollable rise in commodity material costs & fuel, all orders that ship 6-months post order entry date, due to customer delays are subject to surcharges.			SUB TOTAL	\$13,110.00



Summary Table

Quote # DP171005SC, Rev. 0 (Pg. 2)

Name	Location	ID	Dwg	Rev.	Customer Mark Up Control Dwg	High Pressure Inhibitor	Common Fault Safety	High Pressure Alarm Up	Common Fault Light	High Pressure	Reset
Feed Forward Pump	Hempick WRP	05-P-110	RS15190605G4CBA12-ENG-00002	7	04-E-02	Mod	Add	Add	Add	Mod	Add Contact
		05-P-120	RS15190605G4CBA12-ENG-00002	7	05-E-04	Mod	Add	Add	Add	Mod	Add Contact
		05-P-130	RS15190605G4CBA12-ENG-00002	7	09-E-02	Mod	Add	Add	Add	Mod	Add Contact
Feed Forward Pump	Apple Valley	05-P-110	RS15190605G4CBA12-ENG-00003	6	04-E-02	Mod	Add	Add	Add	Mod	Add Contact
		05-P-120	RS15190605G4CBA12-ENG-00003	6	05-E-04	Mod	Add	Add	Add	Mod	Add Contact
		05-P-130	RS15190605G4CBA12-ENG-00003	6	09-E-02	Mod	Add	Add	Add	Mod	Add Contact
LR Station Pump	HES LR Station	01-P-110	RS15190605G4CBA12-ENG-00001	8	00-E-00A	Mod	Add	Add	Mod	Mod	Add Contact
		01-P-120	RS15190605G4CBA12-ENG-00001	8	00-E-00B	Mod	Add	Add	Mod	Mod	Add Contact



BENSHAW STANDARD TERMS AND CONDITIONS OF SALE

APPLICABILITY/ACCEPTANCE OF TERMS/ENTIRE AGREEMENT. Unless otherwise provided, the sale by Benshaw, Inc. ("Seller") of any products or services described herein shall be governed solely by these terms and conditions of sale and such other provisions agreed upon in writing by duly authorized representatives of Seller. Any oral understandings are expressly excluded. Seller shall not be deemed to have waived these terms and conditions of sale if it fails to object to provisions appearing on, incorporated by reference in, or attached to Buyer's purchase order, written acknowledgement or other authorization to proceed, which provisions are hereby expressly rejected. Buyer's silence or acceptance or use of products constitutes its acceptance of these terms and conditions of sale. These terms and conditions of sale shall apply to any order for products whether or not they are referenced in such order.

CANCELLATION. Buyer has no right to cancel this order, in whole or in part, absent the prior written agreement of Seller.

PRICES AND PAYMENTS. After formal credit approval, payment terms are net thirty (30) days from the date of invoice. Without credit approval, ten percent (10%) of the total price is due in advance, with the balance C.O.D. A one and one half percent (1.5%) monthly service charge will be added to invoices not paid within thirty (30) days of the Invoice date. If, in Seller's sole judgment, the financial condition or credit-worthiness of Buyer does not warrant shipment of the products ordered, Seller may at its option require full payment prior to shipment, or may refuse to ship without Seller incurring liability to Buyer.

CONFLICTING PROVISIONS. In the event of any conflict between these terms and conditions of sale, and the provisions contained in any purchase order, confirmation, or other similar document issued to Seller by Buyer, the provisions of these terms and conditions shall prevail.

ASSIGNMENT. Neither party shall assign these terms and conditions of sale and any purchase order or any portion thereof without the advance, written consent of the other party, which consent shall not be unreasonably withheld. Notwithstanding the foregoing, Seller may assign this agreement to any entity controlled by or under common control of Benshaw, Inc.

WAIVER. Failure by Seller to assert all or any of its rights upon any breach of these terms and conditions of sale shall not be deemed a waiver of such rights either with respect to such breach or any subsequent breach, nor shall any waiver be implied from the acceptance of any payment or service.

INSPECTION. Buyer shall inspect and accept or reject products delivered pursuant to these terms and conditions and the purchase order promptly after Buyer takes custody of such products. In the event the products do not comply with the applicable specifications, Buyer shall notify Seller of such noncompliance and Seller shall have a reasonable opportunity to correct any such noncompliance. Buyer shall be deemed to have accepted any products delivered hereunder and to have waived any such noncompliance in the event Seller does not receive such notification from Buyer within fifteen (15) days after Buyer takes custody

WARRANTY. Seller warrants that the products and services delivered to Buyer shall be free from defects in material and workmanship, provided that the unit has not been subject to accident, abuse, or misuse, and that the unit has been operated in accordance with the manufacturer's recommendations. Such warranty shall be effective for a period of 12 months after installation or 18 months after delivery, whichever occurs first. If a product is determined to be in breach of this warranty, Seller shall repair or replace such product, at its option, which shall be Buyer's sole remedy for such breach of warranty. **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WHETHER STATUTORY OR OTHERWISE, AND BUYER WAIVES ALL OTHER WARRANTIES, OBLIGATION OR LIABILITIES, ORAL OR WRITTEN, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION AN IMPLIED WARRANTY OF COMMERCIAL ACCEPTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS**

EXCUSABLE DELAY. The Seller shall be excused from delays in delivery and performance of other contractual obligations under the purchase order caused by acts or omissions that are beyond the reasonable control and without the fault or negligence of Seller including but not limited to Government embargoes, blockades, seizure or freeze of assets, delays or refusals to grant an export license or the suspension or revocation thereof, or any other acts of any Government, fires, floods, severe weather conditions, or any other acts of God, quarantines, labor strikes or lockouts, riots, strife, insurrection, civil disobedience, war, material shortages or delays in deliveries to Seller by third parties. If the excusable delay circumstances extend for six months, either party may, at its option, terminate these terms and conditions of sale and the purchase order without penalty or liability and without being deemed in default or in breach thereof.

TITLE RETENTION AND SECURITY INTEREST. Seller retains title to the equipment until the Buyer performs all its obligations under this Agreement. Seller retains and Buyer grants a security interest in the equipment to secure performance of all Buyer's obligations arising under this Agreement. At the request of Seller, Buyer will execute one or more financing statements in a form satisfactory to Seller.

INSURANCE. Buyer shall maintain and carry liability insurance which includes but is not limited to commercial general liability (including product liability and for services to be performed, completed operations liability) in a sum no less than \$5 million, automobile liability in a sum no less than \$5 million, workmen's compensation in an amount no less than the applicable statutory minimum requirement and employer's liability in an amount of no less than \$1 million, with insurance carriers acceptable to Seller. Buyer will, if requested by Seller, furnish certificates of insurance from its carrier(s) on the foregoing ~~insurance~~ which shall provide that each carrier shall not be changed without thirty (30) days advance written notification to Seller from the carrier(s).

SPECIAL TOOLING AND DATA. Unless otherwise agreed in writing, all material, software, data, processes, equipment, facilities and special tooling, which term includes but is not limited to jigs, dies, fixtures, mold, patterns, special taps, special gages, special test equipment, other special equipment and manufacturing aids and replacements thereof, used in the manufacture of products covered by an order shall be and remain the property of Seller. Seller retains all rights title and interest in drawings, engineering instructions, specifications and all other written data if any furnished with the products.

TIME OF DELIVERY. Unless otherwise agreed in writing by the Seller, delivery of the Goods shall be made ex-works on a day nominated by the Seller, time not being of the essence, and the Buyer shall be responsible for their prompt collection, transport, off loading and storage. The Seller may, at the Buyer's request, sole risk and expense, arrange carriage of the Goods, in which case the Buyer will be responsible for their prompt off-loading. In all cases, the Buyer shall be responsible for the safe and proper storage of the Goods once they have been delivered. If the Buyer is not able for any reason promptly to accept delivery of the Goods or the Seller exercises its right to withhold delivery of the Goods due to Buyer's financial condition or failure to timely pay Seller, the Seller may, at its discretion and as appropriate, charge the Buyer for any delay in collection or transport or off-loading of the Goods and for their storage and

Any delivery dates notified to the Buyer by the Seller are given by the Seller in good faith, but are business estimates only and the Seller will not be liable to the Buyer for any loss or damage sustained by the Buyer as a result of the Seller's failure to comply with them for whatever reason. The Seller may at its own discretion make delivery of the goods by installments. Each installment shall be treated as the subject of a separate contract upon these terms and conditions and the Seller may invoice for each installment separately.

LIMITATION OF LIABILITY. The sole exclusive remedies of Buyer are those specifically set forth herein Seller's maximum liability for any and all claims arising directly or indirectly from the performance of its obligations under any Agreement with Buyer, including any warranty set forth herein, whether resulting from breach of contract, breach of warranty, tort, products liability, negligence or otherwise, shall not exceed the aggregate purchase price of the particular

and services which are the subject of the claim. UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE TO BUYER OR ANY THIRD PARTY FOR LOSS OF BUSINESS, LOST PROFITS, OR ANY OTHER ECONOMIC LOSS, OR ANY INCIDENTAL, EXEMPLARY, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

INTELLECTUAL PROPERTY INDEMNITY. Except insofar as a purchase order calls for products pursuant to Buyer's designs, drawings or specifications, Seller agrees to pay the amount of any final judgment against Buyer resulting from a suit claiming that any commercial products manufactured or furnished hereunder, by reason of their manufacture, sale or use, infringes any United States patent which has issued at date of contract, and Buyer's reasonable costs and expenses in defense of such suit if Seller does not undertake the defense thereof, provided Seller is promptly notified of the threat or commencement of such suit and is offered full and exclusive control to conduct the defense or settlement thereof. Seller's indemnity shall not apply where infringement would not have occurred from the normal use for which the products were designed. Seller's liability for damages hereunder is limited to those computed solely on the value of

In no event shall Seller be liable for consequential damages or costs applicable thereto. Buyer agrees to pay all costs and expenses incurred by Seller in its defense and the amount of any judgment against Seller, in any suit or proceeding against Seller based upon a claim of infringement resulting solely from the Buyer combining any product furnished hereunder with any item not manufactured or furnished by Seller or from the sale or use of any such combination by Buyer. In the event any product to be furnished under the purchase order is to be made in accordance with drawings, samples or manufacturing specifications designated by Buyer and is not the design of Seller, Buyer agrees to defend, indemnify and hold Seller harmless to the same extent and subject to the same requirements as set forth in Seller's obligation to Buyer as above. The rights and obligations above are in lieu of any other indemnity or warranty, express or

EXPORT CONTROL. The products or information covered by this agreement may be subject to export regulations of the U.S. Government. Buyer will not export, re-export, resell, transfer or disclose, directly or indirectly, any product, technical data or software obtained hereunder outside the U.S. without (i) complying with applicable export control laws, (ii) notifying and obtaining written permission of Seller, and (iii) providing such reasonable assurances as Seller

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(i) in the course of the normal operation in or with Seller products, (ii) on Seller or non-Seller products that are used to test, maintain, download, or process information compiled by Seller products. All title and ownership of such software and software documentation, including, without limitation, the copyrights thereto, shall remain exclusively with Seller. Buyer shall not itself, or with the assistance of others, decompile, reverse engineer, or in any other manner attempt to decipher in whole or in part the logic or coherence of any software or software documentation licensed hereunder. Third party software provided by Seller

TAXES. The prices quoted herein do not include sums necessary to cover any taxes or duties including but not limited to Federal, State, municipal excise, sales or use taxes or import duties upon the production, sales, distribution, or delivery of goods or furnishing of services hereunder. Any taxes or duties that are due and owing hereunder shall be paid by the Buyer

RISK OF LOSS. Unless otherwise agreed to in writing, all risk of loss, theft, or damage from any cause whatsoever, shall be on the Buyer and its insurers, if any, after the delivery by Seller to the carrier at F.O.B. point.

INSOLVENCY/BANKRUPTCY/FINANCIAL DEFAULT. If the Buyer fails to pay any sum due to Seller hereunder, or shall fail to satisfy any of its obligations hereunder and such default shall continue for ten (10) days after the sending by Seller to the Buyer by a registered letter advising of such default, or if the Buyer by the subject of any proceedings under bankruptcy laws or other insolvency laws or be declared subject to judicial supervision or enter into liquidation, Seller shall have the right to immediately repossess the equipment and to terminate this Agreement

SETOFF. All amounts that Buyer owes Seller under an order shall be due and payable according to the terms of such order. Buyer is prohibited from and shall not set off such amounts or any portion thereof, whether or not liquidated, against sums which Buyer asserts are due it, its parent affiliates, subsidiaries or other divisions or units under other transactions with Seller, its parents, affiliates, subsidiaries or other divisions or units

INDEMNITY. Buyer will indemnify, hold harmless and defend Seller from and against any claims, suits, judgments, expenses or liabilities of any nature (including without limitation all reasonable attorneys' fees) which are threatened or brought against, or are incurred by, Seller arising from any actions, omissions or misrepresentations of Buyer in the use, promotion or sale of products or services provided by Seller under this sale

DISPUTE RESOLUTION FOR CONTRACTS WITH NON-U.S. ENTITIES. If either party to this Contract is a non-U.S. entity, any dispute, controversy or claim arising out of or relating to this Agreement, or the breach, termination or invalidity thereof, shall be settled by arbitration in accordance with the International Chamber of Commerce ("ICC") Rules of Arbitration as in force at the commencement of the arbitration. The arbitration shall be conducted by a sole arbitrator that is appointed by the ICC in Accordance with its Rules. The place of arbitration shall be Geneva, Switzerland. Any arbitral tribunal constituted pursuant to this agreement shall apply the law of England to all disputes

The arbitration shall be conducted in English. The award of the arbitrator shall be final and binding upon the parties and may be entered and/or enforced in any court of competent jurisdiction. The parties acknowledge that this Agreement and any award rendered pursuant to it shall be governed by the United Nations Convention on the Recognition and Enforcement of Foreign Arbitral Awards. Notwithstanding the foregoing, Seller may initiate suit in any jurisdiction for protection and enforcement of its intellectual property rights

DISPUTE RESOLUTION FOR CONTRACTS WITH U.S. ENTITIES. If both parties to this Contract are U.S. entities, any controversy or claim arising out of or relating to this Agreement or its breach shall be settled by arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association ("AAA") then in effect. The arbitration shall be conducted by a sole arbitrator that is appointed by the AAA in Accordance with its Rules. No arbitrator may be affiliated, whether directly or indirectly, with any of the parties, including, without limitation, as an employee, consultant, partner or shareholder. The arbitrator(s) shall permit each of the parties to the Arbitration to engage in a reasonable amount of discovery. In the event either party requests arbitration, the arbitration shall be held in Charlotte, North Carolina. The award by the arbitrator or arbitrators shall be final, and judgment upon the award rendered may be entered in any court having jurisdiction thereof. Notwithstanding the foregoing, Seller may initiate suit in any jurisdiction for protection and

APPLICABLE LAW. Except for agreements with non-U.S. entities, this agreement shall be interpreted in accordance with the laws of the State of New York, exclusive of any choice of law provisions. The Seller and Buyer expressly agree to exclude from this Agreement the United Nations Convention on Contracts for the International Sale of Goods, 1980, and any successor thereto

COST OF COLLECTION AND ATTORNEYS FEES. In the event any action is taken by Seller to collect amounts billed to Buyer by Seller, Buyer shall be liable for all costs and expenses incurred by Seller in relation thereto, including legal fees.

100-021 Rev. D

02/2015

Approval: L. Mannella,

PCO # 91

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

TOAV - DC 114 - MBR Instrument Air Compressor Electrical Changes

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 10/02/2017
Submitted To: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Charles Reynolds, EADOC-VVWRA-Sub-R - Grant Gourley, EADOC-VVWRA-Sub-R - Juan Castillo, EADOC-VVWRA-Sub-R - Lynene Voelker
Status: Pending
Priority: High
Internal Priority: High
Pending On User: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Lynene Voelker, EADOC-VVWRA-Sub-R - Juan Castillo
Pending On Org: Victor Valley Wastewater Reclamation Authority, Carollo Engineers, W M Lyles Co

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 10/02/2017

Contractor's PCO #:

Reason: Design Omissions
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 786,590.94
Amount Added: -1,036.50
New Approved Amount: 785,554.44
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

17-15

eado

Budget .

PCO # 91

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element A1 - Apple Valley WRP - Vol4

References

DCM # 114	DC 114 - MBR Instrument Air Compressor Electrical Modifications	Closed
Correspondence # 139	DC 114 - MBR Instrument Air Compressor Electrical Changes	Closed

The MBR instrument air compressors shown on Drawing 00-E-04 are shown to be fed by separate 40A breakers. During the meeting with Eaton on March 24, 2016, it was determined and communicated to HDR that the air compressors would be controlled from a single local control panel (LCP), and that a 50 ampere (A) feeder breaker would be sufficient to power the LCP.

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

PCO # 96

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

**TOAV - DC 123 Damper & Make Up
Air Unit Controls & FM 200**

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 10/15/2017
Submitted To: EADOC-VVWRA-Sub-R -
Alton Anderson, EADOC
-VVWRA-Sub-R - Grant
Gourley, EADOC-VVWRA-Sub
-R - Lynene Voelker

Revision Date:
Status: Pending
Priority: High
Pending On User: EADOC-VVWRA-Sub-R -
Alton Anderson, EADOC
-VVWRA-Sub-R - Lynene
Voelker
Pending On Org: Victor Valley Wastewater
Reclamation Authority, Carollo
Engineers

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 10/15/2017

Contractor's PCO #:

Reason: Design Omissions
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 813,182.33
Amount Added: 35,360.21
New Approved Amount: 848,542.54
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

17-17

ea**doc**

PCO # 96

Sub-Regional WRP Projects
 Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element A1 - Apple Valley WRP - Vol4

References

DCM # 123.A	DC 123 - Damper and Make Up Air Unit Controls	Closed
DCM # 123.B	DC 123R - Revision to Damper and Make Up Air Unit Controls	Closed
Correspondence # 144	DC 123 Damper & Make Up Air UNit Controls & FM 200	Closed

Contractor

Signature	Print Name	Date
-----------	------------	------

Construction Manager

Signature	Print Name	Date
-----------	------------	------

Owner

Signature	Print Name	Date
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PCO COH 091 & TOAV 096 - Evaluation Summary - OH&P				
Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ -		\$ -
2	Materials	\$ -		\$ -
3	Equipment	\$ -		\$ -
	Trimax	\$ 8,121.18		\$ 8,121.18
	Total	\$ 8,121.18		\$ 8,121.18
	Markup	\$ 1,218.18	15%	\$ 1,218.18
	Subtotal	\$ 9,339.36		\$ 9,339.36
Subs				
4	Southern Electrical	\$ 16,158.03		\$ 13,911.35
	AMS HVAC	\$ 4,523.00		\$ 3,894.10
		\$ -		\$ -
	Alert-One	\$ 3,380.59		\$ 2,910.54
	Subcontract Subtotal	\$ 24,061.63		\$ 20,715.99
	Subcontractor Bond & Ins	\$ 240.62	1%	
	Subtotal	\$ 24,302.24		\$ 20,715.99
	GC-Subcontractor Markup	\$ 1,215.11	5%	\$ 1,035.80
	Total	\$ 34,856.71		\$ 31,091.15
	Subcontractor OH&P		15%	\$ 3,107.40
	Subcontractor Bond & Ins		1%	\$ 207.16
	GC Bond & Ins	\$ 348.57	1%	\$ 310.91
	Total	\$ 35,205.28	COH	\$ 34,716.62
			TOAV	\$ 34,716.62



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Southern Division - **Temecula Office**
 42142 Roick Drive
 Temecula, CA 92590
 Telephone (951) 973-7393
 Fax (951) 698-3031

www.wmlyles.com

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January 30, 2018

Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA 92394.

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-96 DC 123 Damper, FM 200 & Makeup Air Units Changes

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from DC 123 to modify the Damper, FM 200 and Makeup Air units. WML completed this work as directed and the cost to complete this work is ~~\$35,360.21~~. The breakdown of this amount is attached.

\$34,716.62

WML does not expect any time impacts associated with this extra work. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
 Project Executive
 W.M. Lyles Co.

Subcontractors:	AMS HVAC	\$ 9,046.00	Suppliers:	Trimax	\$ 16,242.36
	AlertOne Fire	\$ 6,761.18		WML Markup	\$ 3,248.47
	Southern Contracting	\$ 32,316.05			
	<u>Sub Total</u>	<u>\$ 48,123.23</u>			
	WML Markup	\$ 2,406.16			
	Total Subs	\$ 50,529.39	Total Supplier		\$ 19,490.83

Bond	\$ 700.20
Total	\$ 70,720.43
COH	\$ 35,360.21 \$34,716.62
TOAV	\$ 35,360.21 \$34,716.62



13619 Terrace Pl
Whittier, CA 90601
(417) 731-2229

Change Order

Quote #: PCO-03
Date: 10/5/2017
Valid Until: N/A
Quoted By: Christopher Visocky
Phone: (760) 809-4151
Email: cvisocky@alertone.us

Project Name: Subregional Water Reclamation Plants Project - T-1139

Quoted To:
WM Lyles PO Box 4377 Fresno, CA 93744

Scope of Work
Added Equipment and material to monitor and shutdown added damper in room 1110 servicing room 1101. Apple Valley site

Qty	Model Number	Description	Price Ea	Ext Price
1	PAD 100-TRTI	PAD 100 Two Relay /Two Input	\$ 196.79	\$ 196.79
1	0	Conduit, connectors, backboxes, mounting material	\$ 514.29	\$ 514.29
24	Labor		\$ 92.86	\$ 2,228.57
Special Instructions			Subtotal:	\$ 2,939.64
			Tax:	
			Freight:	
			10%	\$ 293.96
			5%	\$ 146.98
			Total Price:	\$ 3,380.59

Terms & Conditions

Accepted: _____
Date: _____



AMS AMERICA, INC., G.P.

ANDERSON AIR CONDITIONING, L.P.

2100 E. Walnut Avenue, Fullerton, CA 92831 (714) 888-6800 FAX: (714) 888-2697

California License No. 894408
B, C-10 & C-20
Nevada License No. 0074325
C21B

January 26, 2018

WM Lyles Co.
PO Box 4377
Fresno, Ca. 93744
Attn: Grant Gourley

Change Order #5: work associated with DC-123 for both Hesperia & Apple Valley WRP Sites -
(REVISED 1-26-18)

Scope of Work (for both Apple Valley and Hesperia WRP):

- Demo existing balancing dampers on OSA duct between walls and the Air Handling Unit Section (of 11-AC-01)
- Install new 24"x16" smoke damper and new 24"x16" balancing damper between walls and the Air Handling Unit Section (of 11-AC-01). The smoke dampers will be the same make/model/type that we have already submitted on for the rest of the project.
- For all units that have duct mounted smoke detectors, we need to remove all thermostat wiring within the controls conduit so the that the electrician can add a conduit from the smoke detectors to the controls conduit before it goes through the roof. After the electrician is completed, we will reinstall (or replace as needed) all controls wiring from the AC units to the thermostats and add wiring to interlock the AC unit to the smoke detector. (For units that serve Electrical Rooms, while the electricians are reworking the conduit, we will temporarily relocate the thermostats to the return duct and set the fan to run 24/7 so that the Electrical Rooms stay cool.)

Scope of Work (for the Operations Area at Hesperia WRP only):

- Since there is no alarm control for the smoke damper within this space, we will:
 - Disconnect and safe off power at the nearest junction box for all smoke dampers.
 - Loosen up damper linkages and/or set screws for all smoke dampers, twist shafts to open position and tighten all linkages and/or set screws

Our Price for the scope above is: \$9,046.00

- Labor (Journeyman = \$4,665.00 / Apprentice = \$1,442.00) = \$6107.00
- Material (including tax & mark-up) = \$2,939.00

Exclusions: Any work not listed above including the Apple Valley WRP Operations Area as we do not know what the final controls strategy is for that space.

Thank you

Accepted By: _____

Garret Patterson

Date: _____

Southern Contracting Co.

CHANGE ORDER REQUEST

No. 00137

TITLE: DC 123 Damper and Make Up Air Unit

DATE: 02/02/2018

PROJECT: Victor Valley Subregional WRPq

JOB: 100531

TO: Attn: Grant Gourley
W.M. Lyles

CONTRACT NO: 1

42142 Roick Drive
Temecula, CA 92590
Phone: 951-973-7393

Fax: 951-698-3031

RE: To: From: Number:

DESCRIPTION OF PROPOSAL

Design Change # 123 Damper and Make up Air Unit Controls

T&M Electrical work for DC 123

Item	Description	Stock #	Quantity	Units	Unit Price	Tax Rate	Tax Amount	Net Amount
3	DC 123 Damper and Make Up Air Unit Controls		1.000		\$32,316.05	0.00%	\$0.00	\$32,316.05

Unit Cost: \$32,316.05
Unit Tax: \$0.00
Total: \$32,316.05

APPROVAL:

By: _____
Grant Gourley

By: _____
Brendan Bradford

Date: _____

Date: _____

Southern Contracting Co.
T&M Recapitulation Work Sheet

SCC Job No: 100531

Project Descr: Victor Valley WRP - DC 123

Customer: W.M. Lyles Co.

Page	Amount	Hours	Labor	Material	Equipment
1	\$6,876.40	42	\$3,825.01	\$2,180.41	\$802.90
2	\$4,039.10	28	\$2,550.01	\$471.79	\$977.31
3	\$6,950.60	42	\$3,837.97	\$1,260.87	\$1,782.95
4	\$11,251.81	66	\$6,017.21	\$2,808.93	\$2,314.27
5	\$2,967.51	23	\$2,169.17	\$237.66	\$531.30
6	\$230.62	0	\$0.00	\$2.28	\$0.00
Subtotals	\$32,316.05	201	\$18,399.37	\$6,961.94	\$6,408.73

Grand Total \$32,316.05



T&M COST BREAKDOWN

SCC JOB NO. 100531
DESCRIPTION: DC 123 Damper and Make Up Air Unit Controls

Daily Work Report No.

Table with columns for Labor (Classification, Rate, Hours 11/6/2017 to 11/9/2017, Total Hours), Equipment (Description, Rate, Hours, Total Units), and Materials, Services, Other (Description, Price Unit, Qty, Total Qty, Taxable). Includes subtotals and profit calculations.



COR – Change Order Request - Trimax Systems COR No. 50

To: Southern Contracting Company 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069 Attention: Steve Vickers	Date: December 14, 2017 Job No.: P-2192 Project: VVWRA Sub-regional Water Reclamation Plants Date Required: December 15, 2017 Supporting Docs: DC123		
From: Marty McLaughlin			
Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Time and Material	\$16,242.36	Complete as of 12-8-2017	N/A

Subject:

Interlocking Fans with the FACP and providing alarming features.

Each facility requires (Hesperia and Apple Valley):

- Adding (3) Digital Inputs from the fire alarm control panel FACP for trouble, alarm and supervisory.
- Adding (1) Digital Output for fan interlocks.
- Adding (1) 4 pole relay for hardwired fan shutdown interlocks
- Modifying PLC programs, HIMI Programs and SCADA programs to add the new features associated with the new digital inputs from the FACP only and the new digital output for the new added relay.
- Drawing Updates include new loop drawing, modifications to the fan panels to show the added FACP alarm, modifications to the main PLC panel drawings to show the added I/O, modifications to the panel layout drawings to show the added relay.
- Updating testing documents.
- Field installation of the 4 pole relay.
- Point to Point testing.
- Loop testing.
- Operation verification.

This proposal is based on all new I/O is to be wired to existing spare I/O. Existing drawings shall be modified to show these changes.



	Apple Valley			Hesperia		
Taxable Materials						
Relay - 4 pole for fan interlocks (10) wires	1	\$ 114.60	\$ 114.60	1	\$ 114.60	\$ 114.60
Material Cost			\$ 114.60			\$ 114.60
Material Profit		15%	\$ 17.19		15%	\$ 17.19
Sub Total			\$ 131.79			\$ 131.79
Sales Taxes		7.75%	\$ 10.21		7.75%	\$ 10.21
Sub Total			\$ 142.00			\$ 142.00
Labor		Hours	Rate		Hours	Rate
Engineering	38.5	\$ 160.00	\$ 6,160.00	38.5	\$ 160.00	\$ 6,160.00
Technician	13.5	\$ 110.00	\$ 1,485.00	13.5	\$ 110.00	\$ 1,485.00
Truck						
Mileage to/from Sites to/from Brea	539	\$ 0.62	\$ 334.18	539	\$ 0.62	\$ 334.18
Total Non-Taxable			\$ 7,979.18			\$ 7,979.18
12/14/2017			\$ 8,121.18			\$ 8,121.18

Please issue a change order for \$16,242.36

PCO # 99

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

TOAV - Modifications to Process Drain Pump Station Level Indicating Transmitter

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 11/26/2017
Submitted To: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Charles Reynolds, EADOC-VVWRA-Sub-R - Grant Gourley, EADOC-VVWRA-Sub-R - Juan Castillo, EADOC-VVWRA-Sub-R - Lynene Voelker
Status: Pending
Priority: High
Internal Priority: High
Pending On User: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Lynene Voelker, EADOC-VVWRA-Sub-R - Juan Castillo
Pending On Org: Victor Valley Wastewater Reclamation Authority, Carollo Engineers, W M Lyles Co

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 11/26/2017

Contractor's PCO #:

Reason: Unforeseen / Changed Site Conditions
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 813,182.33
Amount Added: 12,210.00
New Approved Amount: 825,392.33
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

17-34

eadooc

Budget .

PCO # 99

Sub-Regional WRP Projects
Sub Regional WRP Projects

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Locations

Element A1 - Apple Valley WRP - Vol4 - 19 - Process Drains Pump Station

References

RFI # 441	Ultrasonic Level Sensor for the Process Drain PS	Closed
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Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

PCO COH 92 - Evaluation Summary - OH&P				
Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ 693.35		\$ 693.35
2	Materials	\$ -		\$ -
3	Equipment	\$ 134.75		\$ 134.75
	Trimax	\$ 8,305.69		\$ 8,305.69
	Total	\$ 9,133.79		\$ 9,133.79
	Markup	\$ 1,370.07	15%	\$ 1,370.07
	Subtotal	\$ 10,503.86		\$ 10,503.86
Subs				
4	Southern Electrical	\$ 1,509.37		\$ 1,299.50
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
	Subcontract Subtotal	\$ 1,509.37		\$ 1,299.50
	Subcontracto Bond & Ins	\$ 15.09	1%	
	Subtotal	\$ 1,524.46		\$ 1,299.50
	GC-Subcontractor Markup	\$ 76.22	5%	\$ 64.98
	Total	\$ 12,104.54		\$ 11,868.33
	Subcontractor OH&P		15%	\$ 194.93
	Subcontractor Bond & Ins		1%	\$ 13.00
	GC Bond & Ins	\$ 121.05	1%	\$ 118.68
	Total	\$ 12,225.59		\$ 12,194.94



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Southern Division - **Temecula Office**
 42142 Roick Drive
 Temecula, CA 92590
 Telephone (951) 973-7393
 Fax (951) 698-3031

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February 8, 2018

Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-99 Ultrasonic Level Sensor for the Process Drain PS

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to remove and replace the level sensors in the Process Drain PS. WML deems this change to be additional work and the cost for this change is ~~\$12,210.00~~. The breakdown of this amount is attached. **\$12,194.94**

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
 Project Executive
 W.M. Lyles Co.

W. M. Lyles Co.
 42142 Roick Drive
 Temecula, CA 92590

Date: 8-Feb-18

Reference #:

Attention: Alton Anderson

Project: VAWRA Subregional Plants Project

Description: TOAV-99 Process Drain Pump Station Level Transmitter Mods

Item:	Unit	Total MH	MH Cost	Total MH Cost	Eq. Cost	Material	Subcont.	Total Cost
TOAV-99 Process Drain Pump Station Level Transmitter LS	LS	10	-	\$ 693.35	\$ 134.75	\$ 8,305.69	\$ 1,509.50	\$ 10,643.29
Total Costs		10		\$ 693.35	\$ 134.75	\$ 8,305.69	\$ 1,509.50	\$ 10,643.29

Subtotal	\$	10,643.29
Mark-up - Labor	\$	104.00
Mark-up - Equipment	\$	20.21
Mark-up - Materials	\$	1,245.85
Mark-up - Subcontractor	\$	75.48
Bond	\$	120.89
Total This Change Order	\$	12,210.00

Comments:

VWRA Subregional Plants Project
TOAV-99 Process Drain Pump Station Level Transmitter Mods

2/8/2018

A. Labor

0.00

Description	Op FM	Op	Lab FM	Lab	Carp	CM			
Install Stilling Well					10				
	0	0	0	0	10	0		0	0

Name	Rate	Hours	Extension
Op FM	\$84.63	0	\$0.00
Op	\$81.99	0	\$0.00
Lab FM	\$67.55	0	\$0.00
Lab	\$65.23	0	\$0.00
Carp	\$69.33	10	\$693.35
CM	\$67.98	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
10			
Total Labor =			\$693.35

B. Equipment

Description	15.205	18.284	15.184	18.254	35.066	18.278	31.012	30.045	30.628
Pickup	5								
	5	0	0	0	0	0	0	0	0

Number	Description	Rate	Hours	Extension
15.205	Truck	\$26.95	5	\$134.75
18.284	Yard Truck	\$26.95	0	\$0.00
15.184	Truck	\$26.95	0	\$0.00
18.254	Truck	\$26.95	0	\$0.00
35.066	Loader	\$142.00	0	\$0.00
18.278	Truck	\$26.95	0	\$0.00
30.045	John Deere Backhoe	\$58.53	0	\$0.00
30.628	CAT Rental Backhoe	\$39.56	0	\$0.00
31.012	Skidsteer	\$30.00	0	\$0.00
Total Equipment =				\$134.75

C. Materials

Description	Quantity	Unit	Price	Extension
Trimax	1	LS	\$8,305.69	\$8,305.69
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
Total Material =				8,305.69

D. Subcontractor

Description	Quantity	Unit	Price	Extension
Southern Contracting	1	LS	\$1,509.50	\$1,509.50
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
Total Subcontract =				\$1,509.50



Southern Contracting Company

PO Box 445, San Marcos, CA 92079-0445
(T) 760-744-0760 (F) 760-744-6475
Lic. No. 222252

Cost Proposal/Estimate for Extra Work

PROJECT: **Victor Valley Wastewater Reclamation Authority**
Subregional WRP's
W.M. Lyles Co.
TO: **Attention: Grant Gourly**
42142 Roick Drive
Temecula, CA 92590

LYLES NO. _____
SCC COR NO. 138
SCC JOB NO. 100531

THE FOLLOWING BUDGET PROPOSAL IS SUBMITTED HEREWITH FOR YOUR APPROVAL:

REFERENCE: **RFI #441B**

DESCRIPTION: **Ultrasonic Level Sensor for the Process Drain PS**

(a) Direct Materials [from Breakdown]	\$	667
(b) Sales Tax on Materials [8.0% of (a)]	\$	53
(c) Direct Labor [from Breakdown]	\$	1,447
(d) Rental Equipment [from Breakdown]	\$	400
(e) Sales Tax on Rental Equipment [8.0% of (d)]	\$	32
(f) Subcontract & Outside Services [from Breakdown]	\$	-
(g) SUBTOTAL [(a)+(b)+(c)+(d)+(e)+(f)]	\$	2,599
(h) Overhead and Profit:		
Materials [15% of (a)+(b)]	\$	108
Direct Labor [15% of (c)]	\$	217
Equipment [15% of (d)+(e)]	\$	65
Subcontract & Outside Services [15% of (f)]	\$	-
(i) SUBTOTAL [(g)+(h)]	\$	2,989
(j) Bond [1.0% of (i)]	\$	30
TOTAL PROPOSAL/ESTIMATE [(i)+(j)]	\$	3,019

Estimated Time Extension Required TBD days

SUBMITTED BY: _____
Brendan Bradford

DATE: 1/26/2018

APPROVED BY: _____

DATE: _____

Item #	Item Name	Quantity	Price 1	U	Ext Price 1
Label Set: Combined, Combined, Combined, Combined, Combined					<u>\$236.54</u>
Cost Code: 010 - Conduit/Raceway					<u>\$200.41</u>
2,614	1/4x1" SS SCREWS	6.00	\$28.88	C	\$1.73
2,621	1/4" SS SADDLE WASHER	6.00	\$35.60	C	\$2.14
2,624	1/4" SS WASHER	6.00	\$10.56	C	\$0.63
2,631	1/4" SS NUT	6.00	\$7.38	C	\$0.44
60,136	N4X 8"x6"x4" Pull Box	1.00	\$195.46	E	\$195.46
Cost Code: 020 - Wire/Cable					<u>\$13.13</u>
4	16 TSP - SHIELDED CABLE BELDEN	3.15	\$360.00	M	\$1.13
60,138	Wire Lables	8.00	\$1.50	E	\$12.00
Cost Code: 140-Instrumentation					<u>\$23.00</u>
60,135	6" Din Rail	1.00	\$10.00	E	\$10.00
60,137	Terminal Blocks	2.00	\$5.00	E	\$10.00
60,139	End Anchors	2.00	\$1.50	E	\$3.00
					<u>\$236.54</u>

Item #	Item Name	Quantity	Price 1	U	Ext Price 1
Label Set: Combined, Combined, Combined, Combined, Combined					<u>\$430.51</u>
Cost Code: 010 - Conduit/Raceway					<u>\$394.38</u>
2,614	1/4x1" SS SCREWS	6.00	\$28.88	C	\$1.73
2,621	1/4" SS SADDLE WASHER	6.00	\$35.60	C	\$2.14
2,624	1/4" SS WASHER	6.00	\$10.56	C	\$0.63
2,631	1/4" SS NUT	6.00	\$7.38	C	\$0.44
3,804	1/2 FLEX WP	2.00	\$178.20	C	\$3.56
3,905	1/2" FLEX WP OCAL STR CONN	6.00	\$31.74	E	\$190.41
60,136	N4X 8"x6"x4" Pull Box	1.00	\$195.46	E	\$195.46
Cost Code: 020 - Wire/Cable					<u>\$13.13</u>
4	16 TSP - SHIELDED CABLE BELDEN	3.15	\$360.00	M	\$1.13
60,138	Wire Lables	8.00	\$1.50	E	\$12.00
Cost Code: 140-Instrumentation					<u>\$23.00</u>
60,135	6" Din Rail	1.00	\$10.00	E	\$10.00
60,137	Terminal Blocks	2.00	\$5.00	E	\$10.00
60,139	End Anchors	2.00	\$1.50	E	\$3.00
					<u>\$430.51</u>



COR – Change Order Request - Trimax Systems COR No. 51

To: WM Lyles 42142 Roick Drive Temecula, CA 92590 Attention: Grant Gourley	Date: February 6, 2018 Job No.: P-2192 Project: VVWRA Sub-regional Water Reclamation Plants Date Required: December 15, 2017 Supporting Docs: RFI441B
From: Marty McLaughlin	

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Time and Material	\$16,611.38	Complete as of 1-29-2018	N/A

Subject: Time and Material as required

Date	Day	Eng/Tech	Hours		Reg		Overtime		Mileage		IRS + 15%	Hotel + 15%	Per Diem	Totals
			Travel	On-Site	Hours	Rate	Hours	Rate	To Site	From Site				
12/22/2017	Friday	Marvin	3	6.5	8	\$ 110.00	1.5	\$ 165.00	79	79	\$ 0.62			\$ 1,225.46
12/22/2017	Friday	George	3	6.5	8	\$ 160.00	1.5	\$ 240.00	79	79	\$ 0.62			\$ 1,737.96
1/11/2018	Thursday	Marvin	3	7	8	\$ 110.00	2	\$ 165.00	79	79	\$ 0.62			\$ 1,307.96
1/15/2018	Monday	Marvin	3	9	8	\$ 110.00	4	\$ 165.00	79	79	\$ 0.62			\$ 1,637.96
1/24/2018	Wednesday	Marvin	3	2.5	5.5	\$ 110.00	0	\$ 165.00	79	79	\$ 0.62			\$ 702.96
1/24/2018	Wednesday	George	3	2.5	5.5	\$ 160.00	0	\$ 240.00	79	79	\$ 0.62			\$ 977.96
1/25/2018	Thursday	George	3	7.75	8	\$ 160.00	2.75	\$ 240.00	79	79	\$ 0.62			\$ 2,037.96
1/25/2018	Thursday	Maria	0	7	7	\$ 160.00	0	\$ 240.00	0	0	\$ 0.62			\$ 1,120.00
1/29/2018	Monday	Marvin	3	2	5	\$ 110.00	0	\$ 165.00	79	79	\$ 0.62			\$ 647.96
1/29/2018	Monday	George	3	2	5	\$ 160.00	0	\$ 165.00	79	79	\$ 0.62			\$ 897.96
Reference P-2192 COR-51														\$ 12,294.14

Quantity	Item	Description	Unit Price	Amount
1	1	TAXABLE FMB53-AA21JD1CGE25B2 Hydrostatic Level Transmitter 65 ft. Cable Tag #APL-LE/LIT-7705	\$ 1,685.34	\$ 1,685.34
1	2	FMB53-AA21JD1CGE25B2 Hydrostatic Level Transmitter 75 ft. Cable Tag #HES-LE/LIT-7705	\$ 1,701.74	\$ 1,701.74
2	3	PSSR-VA24 IDEC PWR SUPPLY 24VDC 0.3A 7.5W DIN MTD	\$ 26.25	\$ 52.50
Reference P-2192 COR-51				
Sub Total				\$ 3,439.58
Material Profit -				15.00%
Material Sub Total				\$ 3,955.52
Sales Tax -				7.75%
Shipping Fees				\$ 55.17
Engineer/Field Tech Hours and Mileage (see chart)				\$ 12,294.14
Total Invoice Amount				\$ 16,611.38
Total				\$ 16,611.38

Please issue a change order for \$16,611.38

PCO # 103

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

TOAV - Provide water for all testing at the WRP

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 12/07/2017
Submitted To: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Grant Gourley, EADOC-VVWRA-Sub-R - Juan Castillo, EADOC-VVWRA-Sub-R - Lynene Voelker
Status: Pending
Priority: Medium
Pending On User: EADOC-VVWRA-Sub-R - Alton Anderson, EADOC-VVWRA-Sub-R - Lynene Voelker, EADOC-VVWRA-Sub-R - Juan Castillo
Pending On Org: Victor Valley Wastewater Reclamation Authority, Carollo Engineers, W M Lyles Co

Created By: MWH Constructors, VVWRA-Sub-R - Ted Luiten
Created: 12/07/2017

Contractor's PCO #:

Reason: Contractor Request
Requested By:

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 813,182.33
Amount Added: 27,765.10
New Approved Amount: 840,947.43
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

17-45

ea**doc**

PCO # 103

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element A1 - Apple Valley WRP - Vol4

References

Correspondence # 148	PCO for Testing Water	Closed
----------------------	-----------------------	--------

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date



California Contractor's License No. 422390

Southern Division - **Temecula Office**
42142 Roick Drive
Temecula, CA 92590
Telephone (951) 973-7393
Fax (951) 698-3031

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January 16, 2018

Victor Valley Wastewater Reclamation Authority
20111 Shay Rd.
Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-103 Provide Water for Commissioning

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to provide the needed water for the commissioning of the Apple Valley WRP. WML deems this change to be additional work because the contract states the owner is to provide the need water for commissioning. The cost to purchase water for commissioning from 10/20/17 to 12/20/17 is \$27,765.10. The breakdown of this amount is attached.

WML does not expect any time impacts associated with this extra work. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
Project Executive
W.M. Lyles Co.



Liberty Utilities P.O. Box 7005
Apple Valley, CA 92307-0711

Office Location: 21760 Ottawa Road
Walk-in Office Hours: M-F 8am - 5 pm
General Office or Emergency: (760) 247-6484
24 hour automated information line (800) 481-9190
Please visit our website @ www.libertyutilities.com

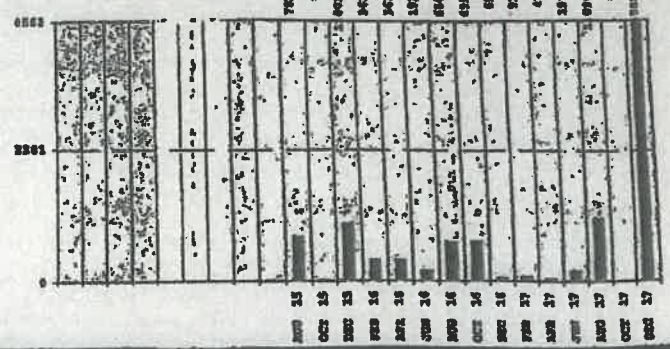
Account Number: 017225
Customer Number: 244807
Service Address: 7201 HYDRANT METER-41143007
Type of Service: COMMERCIAL/REGULAR
Service Period: 10/20/2017 to 12/20/2017
Date of Bill: 12/20/2017

Current Water Charges

Surcharge 216-W-A	\$1,961.66
Surcharge 223-W	\$296.53
CARW Surcharge	\$1.38
Water Usage Charge (4,562 CCF * \$ 4.5180)	\$20,611.12
Service Charge	\$694.50
CA Public Utilities Commission Fee	\$339.34
TOTAL CURRENT WATER CHARGES	\$23,904.53

Service Information

Your Monthly Water Usage (in Hundred Cubic Feet)



Usage Breakdown

Service From:	10/20/2017	To:	12/20/2017	61 days
Meter Number	00017201	Meter Size	3"	Usage 4562
		Previous Read	5965	Current Read 10527
1 unit = 100 Cubic Feet (CCF) of Water				1 CCF = 748 Gallons

Special Message

Amount Due:

Previous Balance	\$705.90
Payment - Thank You	-\$705.90
TOTAL CURRENT WATER CHARGES	\$23,904.53
TOTAL AMOUNT DUE DUE BY 01/09/2018	\$23,904.53

Vendor # _____ Acct Date _____

Job # / Eq # _____ Amt _____

Cost Code _____

Job # / Eq # _____ Amt _____

Cost Code _____

A late fee will be applied if the current charges are not paid by 1/24/2018

WML Markup 15% - \$3,585.67
WML Bond 1% - \$274.90
Total - \$27,765.10

Return this portion with your payment.



Liberty Utilities P.O. Box 7005
Apple Valley, CA 92307-0711

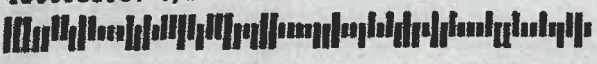
Office Location: 21760 Ottawa Road
Walk-in Office Hours: M-F 8am - 5 pm
General Office or Emergency: (760) 247-6484
24 hour automated information line (800) 481-9190

Account Number: 017225
Customer Number: 244807
Service Address: 7201 HYDRANT METER-41143007
Type of Service: COMMERCIAL/REGULAR
Due Date: 01/09/2018

\$23,904.53
Amount Due

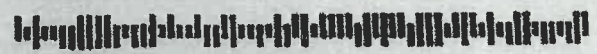
Amount Enclosed

PNX0104A
4000000007 7/1



WM LYLES CO.
P.O. BOX 4377
FRESNO CA 93744-4377

LIBERTY UTILITIES
PO BOX 6005
ARTESIA, CA 90702-6005



PCO # 104

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

TOAV - Area Mediation

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 12/19/2017
Submitted To: EADOC-VWVRA-Sub-R -
Alton Anderson, EADOC
-VWVRA-Sub-R - Grant
Gourley, VWVRA-Sub-R - Ted
Luiten, W M Lyles Co
Revision Date:
Status: Pending
Priority: Low
Due Date: 01/23/2018

Created By: MWH Constructors, EADOC-VWVRA-Sub-R - Charles Reynolds
Created: 12/19/2017

Contractor's PCO #:

Reason: Owner Request
Requested By: Owner

Change Date: 12/19/2017
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 813,182.33
Amount Added: 35,545.00
New Approved Amount: 848,727.33
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

Proposed Design Change Summary:

Prior to the construction of the WRP at Brewster Park existing facilities were demolished for construction operations and the new WRP facility.

PCO # 104

Sub-Regional WRP Projects
Sub Regional WRP Projects

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Locations

Element A1 - Apple Valley WRP - Vol4

Files

2.6 MB

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date



California Contractor's License No. 422390

Southern Division - **Temecula Office**
42142 Roick Drive
Temecula, CA 92590
Telephone (951) 973-7393
Fax (951) 698-3031

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January 18, 2018

Victor Valley Wastewater Reclamation Authority
20111 Shay Rd.
Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-104 Area Mediation

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to provide seven (7) horseshoe pits at Brewster Park. The horseshoe pits will be constructed to the specifications provided and include 275 lf of fencing around it. The cost to complete this work is \$35,545.00. The breakdown of this amount is attached.

WML does not expect any time impacts associated with this extra work. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Grant Gourley', is written over a light blue horizontal line.

Grant Gourley
Project Executive
W.M. Lyles Co.

W. M. Lyles Co.
 42142 Roick Drive
 Temecula, CA 92590

Date: 18-Jan-18

Attention: AltonAnderson

Reference #:

Project: VVWRA Subregional Plants Project

Description: TOAV-104 Area Mediation

Item	Area	Unit	Total MH	MH Cost	Total MH Cost	Eq. Cost	Material	Subcont.	Total Cost
1	Area Mediation	LS	208	-	\$ 14,703.75	\$ 3,560.72	\$ 6,860.00	\$ 6,000.00	\$ 31,124.47
		LS						\$ -	\$ -
Total Costs			208		\$ 14,703.75	\$ 3,560.72	\$ 6,860.00	\$ 6,000.00	\$ 31,124.47

Subtotal	\$	31,124.47
Mark-up - Labor	15%	2,205.56
Mark-up - Equipment	15%	534.11
Mark-up - Materials	15%	1,029.00
Mark-up - Subcontractor	5%	300.00
Bond	1%	351.93
Total This Change Order	\$	35,545.00

Comments:

PCO # 105Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2

TOAV - DC-43R Modification to Exhaust Fan Control Strategy

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 01/09/2018
Submitted To: W M Lyles Co
Revision Date:
Status: Pending
Priority: Medium

Created By: MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds
Created: 01/09/2018

Contractor's PCO #:

Reason: Design Omissions
Requested By: Owner

Change Date:**Schedule ID:****Not to Exceed \$:** 0.00**Set:** HVAC

Approved Thru Last:	813,182.33
Amount Added:	13,727.31
New Approved Amount:	826,909.64
Current Contract Duration:	821
Days Added:	0
New Contract Duration:	821

Budget :**Funding:****Cost Item:****Proposed Design Change Summary:**

Design Change -043R modified the control strategy for various HVAC fans and A/C units throughout the facility. WM Lyles' integration and control panel builder fabricated two fan control panels, 03-LCP-001 and 08-LCP-001, as a result of the DC change order.

PCO # 105

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element A1 - Apple Valley WRP - Vol4 - 05 - Operations Room

Element A1 - Apple Valley WRP - Vol4 - 02 - Chemical Feed Room

References

DCM # 43.A	Exhaust Fan Control Strategies	Closed
------------	--------------------------------	--------

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

PCO TOAV 105 - Evaluation Summary - OH&P

Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ -		\$ -
2	Materials	\$ -		\$ -
3	Equipment	\$ -		\$ -
	Trimax	\$ 11,191.84		\$ 11,191.84
	Total	\$ 11,191.84		\$ 11,191.84
	Markup	\$ 1,678.78	15%	\$ 1,678.78
	Subtotal	\$ 12,870.62		\$ 12,870.62
Subs				
4		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
	Trimax	\$ -		\$ -
	Subcontract Subtotal	\$ -		\$ -
	Subcontract Bond & Ins	\$ -	1%	
	Subtotal	\$ -		\$ -
	GC-Subcontractor Markup	\$ -	5%	\$ -
	Total	\$ 12,870.62		\$ 12,870.62
	Subcontractor OH&P		15%	\$ -
	Subcontractor Bond & Ins		1%	\$ -
	GC Bond & Ins	\$ 128.71	1%	\$ 128.71
	Total	\$ 12,999.32		\$ 12,999.32



California Contractor's License No. 422390

Southern Division - **Temecula Office**
 42142 Roick Drive
 Temecula, CA 92590
 Telephone (951) 973-7393
 Fax (951) 698-3031

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January 17, 2018

Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-105 – DC 43R Modifications to Exhaust Fans

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in DC 43R to make panel modifications and control changes to the Exhaust Fans. Trimax originally submitted cost associated for DC 43 at Hesperia only. Below is the cost incurred for making the modifications in Apple Valley.

Trimax	\$11,191.84
WML Markup	\$1,678.77
WML Bond	\$128.70
Total	\$13,727.31
	\$12,999.32

The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
 Project Executive
 W.M. Lyles Co.



COR – Change Order Request - Trimax Systems COR No. 46 Rev 1

To: Southern Contracting Company 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069 Attention: Steve Vickers From: Brian Bryce	Date: January 17, 2018 Job No.: P-2192 Project: Victor Valley Wastewater Reclamation Authority Subregional Water Reclamation Plants Date Required: September 1, 2017 Supporting Docs: DC 043R Drawing Ref.: 03-E-06, 03-E-06A, 03-E-07, 09-E-02, Spec Ref.:
--	---

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Fixed Price – Apple Valley	\$11,191.84	NA	10 working days

Subject:	Proposal for Design Changes 043R, Exhaust Fan and Sump Pump Schematics for Apple Valley WRP Exhaust /Supply Fan System Control Panel #03-LCP-001 and 08-LCP-001
-----------------	---

Apple Valley WRP

Taxable			
Materials			
Panel Parts (03-LCP-001)	1	\$ 1,167.14	\$ 1,167.14
Panel Parts (08-LCP-001)	1	\$ 1,419.30	\$ 1,419.30
Material Cost			\$ 2,586.44
Material Profit		15%	\$ 387.97
Assembly	20	\$ 75.00	\$ 1,500.00
Drawing Changes and New Drawings	3	\$ 160.00	\$ 480.00
Sub Total			\$ 4,954.41
Sales Taxes		7.75%	\$ 383.97
Sub Total			\$ 5,338.37
Non Taxable			
Labor			
	Hours	Rate	
Testing Documents	4	\$ 160.00	\$ 640.00
Panel Testing	2	\$ 160.00	\$ 320.00
Loop Drawings	10	\$ 160.00	\$ 1,600.00
PLC Programming Changes	4	\$ 160.00	\$ 640.00
HMI Programming Changes	4	\$ 160.00	\$ 640.00
SCADA Programming Changes	4	\$ 160.00	\$ 640.00
Start-up	4	\$ 160.00	\$ 640.00
Field Loop Checks	4	\$ 110.00	\$ 440.00
Field Point to Points	2	\$ 110.00	\$ 220.00
Truck			
Mileage (1.5) R.T @ 79 miles Brea to Site	118.5	\$ 0.62	\$ 73.47
Total Non-Taxable			\$ 5,853.47
Apple Valley WRP Breakout Total			\$ 11,191.84

Please issue a change order for \$11,191.84 for the above requested changes.

PCO # 106Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2

TOAV - MBR Basin Drain 16" Knife Gate Valve Body Change

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 01/09/2018
Submitted To: Victor Valley Wastewater Reclamation Authority, W M Lyles Co
Status: Pending
Priority: High
Pending On Org: Victor Valley Wastewater Reclamation Authority

Created By: MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds
Created: 01/09/2018

Contractor's PCO #: PCO-106

Reason: Design Errors
Requested By: Owner

Change Date: 01/09/2018
Schedule ID:
Not to Exceed \$: 0.00
Set: Mechanical

Approved Thru Last: 813,182.33
Amount Added: 22,330.58
New Approved Amount: 835,512.91
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

Proposed Design Change Summary:

Each MBR Basin has a 16" Knife Gate Valve for draining the basins. The valves specified and supplied are metal to metal seating, which has an allowable leakage per AWWA. Under the low head conditions of the MBR Basins the daily leakage is too excessive causing operational issues in maintaining a high mix-liquor concentration required to operate the MBR system.

PCO # 106

Sub-Regional WRP Projects
 Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

MBR System Provider, Anaergia, has contacted the valve manufacturer and a recommendation to replace the valve body with a resilient seated valve has been excepted as a fix resolving the leakage issue.

Please provide two resilient seated knife gage valve bodies to be used with the existing motorized operators already in place.

Locations

Element A1 - Apple Valley WRP - Vol4 - 03 - Membrane Filtration Basins

Files

RE_ Hesperia Problems.pdf	1.2 MB
Cutsheet_KGC-ES.PDF	551.16 KB
Brochure_KGC-ES.PDF	685.02 KB

Contractor

Signature	Print Name	Date
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Construction Manager

Signature	Print Name	Date
-----------	------------	------

Owner

Signature	Print Name	Date
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PCO COH 094 - TOAV 106 Evaluation Summary - OH&P				
Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ -		\$ -
2	Materials	\$ -		\$ -
3	Equipment	\$ -		\$ -
4	Anaergia	\$ 19,225.64		\$ 19,225.64
	Total	\$ 19,225.64		\$ 19,225.64
	Markup	\$ 2,883.85	15%	\$ 2,883.85
	Subtotal	\$ 22,109.49		\$ 22,109.49
Subs				
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
	Subcontract Subtotal	\$ -		\$ -
	Subcontractro Bond & Ins	\$ -	1%	
	Subtotal	\$ -		\$ -
	GC-Subcontractor Markup	\$ -	5%	\$ -
	Total	\$ 22,109.49		\$ 22,109.49
	Subcontractor OH&P		15%	\$ -
	Subcontractor Bond & Ins		1%	\$ -
	GC Bond & Ins	\$ 221.09	1%	\$ 221.09
	Total	\$ 22,330.58	COH	\$ 22,330.58
			TOAV	\$ 22,330.58



California Contractor's License No. 422390

Southern Division - **Temecula Office**
42142 Roick Drive
Temecula, CA 92590
Telephone (951) 973-7393
Fax (951) 698-3031

www.wmlyles.com

An Equal Opportunity Employer

January 12, 2018

Victor Valley Wastewater Reclamation Authority
20111 Shay Rd.
Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-106 Knife Gate Valve Replacement

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to remove and replace the Knife Gate Vales that drain the Membrane Tanks. WML deems this change to be additional work and received pricing from Anaergia to complete this work. The attached pricing include furnish and install of these new valves. The cost for this change is \$22,330.58. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
Project Executive
W.M. Lyles Co.



Change Order

Anaergia DB Inc.
 4210 South Service Road
 Burlington, ON L7L 4X5
 Canada
 Phone: (905) 766-3333

Date	C.O. No.
11/28/2017	VVWRA_CO_MBR_17_09

Vendor	
W.M. Lyles Co. 42142 Roick Drive Temecula, Ca 92590	
Contact: Grant Gourley Phone: 9517604169 Email: ggourley@wmlylesco.com	

Ship To	
Anaergia DB Inc. 4210 South Service Road Burlington, ON L7L 4X5 Canada	
Contact: Trevor Shackelford Phone: (760) 885-5003 Email: trevor.shackelford@anaergia.com	

Terms	Expected	Ship Via	Project Number	Cost Code/PCS
NET 30	6-8 Weeks	FOB Job Site	8229A10	155

Description	Qty	Rate	Amount
1) Desurik KGC-ES (Cast Stainless Steel Knife Gate) - 16" ANSI 150 Flanged, 3.5" Lay Length - Body: 316 SS, ASTM A351 CF8 - Packing: PTFE Braided Packing - Gate: 316 SS, ASTM A240 - Seat Ring: EPDM - Resilient Seated (Leak Tight/Drip Tight) - Rated form 0 to 150 psi - Direct Swap to existing Actuator	4	\$ 9,412.82	\$ 37,651.28
2) Function Testing/Inspection by Manufacturer	1	\$ 800.00	\$ 800.00
*Price includes taxes and freight costs		Anaergia Total \$38,451.28 WML Markup 15%: \$5,767.69 WML Bond 1%: \$442.19 WML Total: \$44,661.16 COH + \$22,330.58 TOAV + \$22,330.58	
VENDOR TO PROVIDE WORK AND MATERIALS, WHICH WILL BE MADE PAYABLE PURSUANT TO MEMBRANE SYSTEM PROCUREMENT PACKAGE AGREEMENT VOLUME 9 OF 10.			

Anaergia P&ID attached for reference

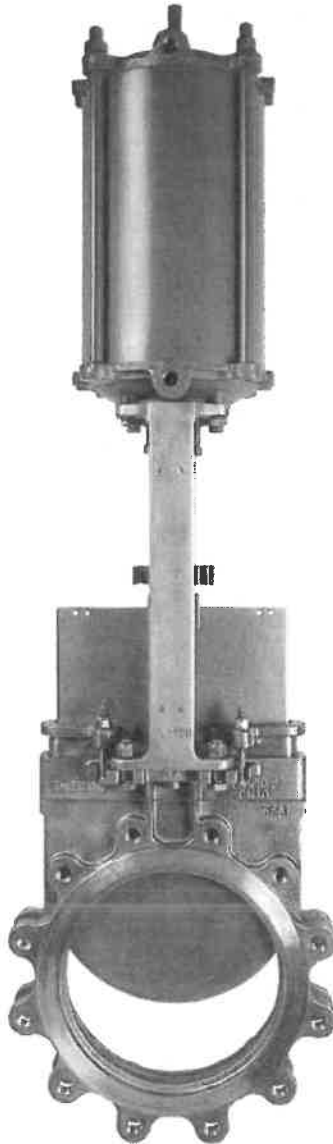
GST/HST No. 81503 4400 RT0001	Total	USD 38,451.28
Phone # (905) 766-3333	Web Site www.anaergia.com	

Approval Signature: Trevor Shackelford

Approval Date: 11/28/2017

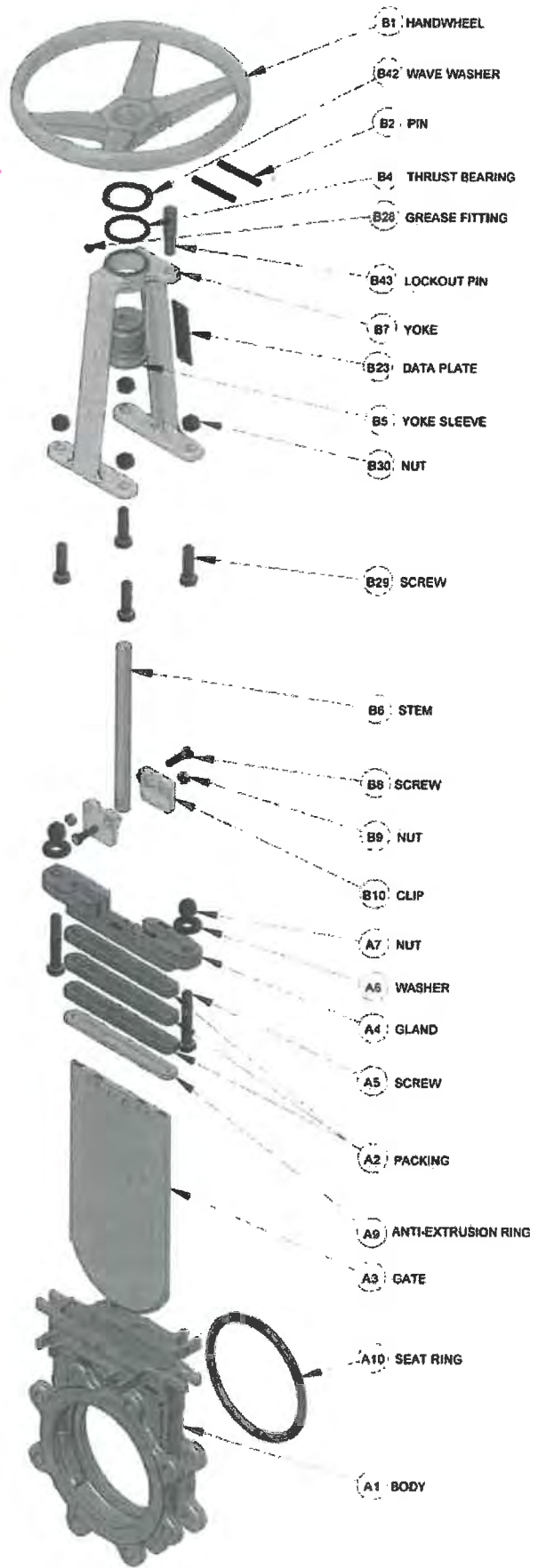


**DeZURIK KGC-ES
EXTENDED SERVICE LIFE
CAST STAINLESS STEEL
KNIFE GATE VALVES
TECHNICAL SPECIFICATIONS**



Materials of Construction

Item	Description	Material		
A1	Body	304 Stainless Steel, ASTM A351 CF8		
		316 Stainless Steel, ASTM A351 CF8M		
		317 Stainless Steel, ASTM A351 CG8M		
		254-SMO Stainless Steel, ASTM A351 CK3MCuN		
		2205 Duplex Stainless Steel, ASTM A890 CD3MN Hastelloy C 276, ASTM A494 CW12MW		
A2	Packing	ASP - Self-Adjusting PTFE Braided Packing with AFLAS Fluoroelastomer Cord to 400°F (205°C) (pH Range 0-14) SMP - PTFE Braided Packing to 500°F (260°C) (pH Range 0-14)		
		TDP - Dry Service, Dry PTFE Braided Packing with Solid PTFE Cord to 500°F (260°C) (pH Range: 0-14)		
		HTP - High Temperature Braided Packing to 650°F (343°C) (pH Range: 1-12)		
		HMP - High Temperature Braided Packing with Metal Scraper Ring to 1000°F (540°C) (pH Range: 3-10) FGP - Food Grade Service to 450°F (232°C) (pH Range: 3-11)		
A3	Gate	304 Stainless Steel, ASTM A240 316 Stainless Steel, ASTM A240 317 Stainless Steel, ASTM A240 17-4 Stainless Steel H900 Heat Treated, ASTM A564 254 - SMO Stainless Steel, ASTM A240 2205 Duplex Stainless Steel, ASTM A276 Hastelloy C 276, ASTM B574 410 Stainless Steel, ASTM A240		
		A4	Gland	Matches Body Material
		A5	Screw	304 Stainless Steel
		A6	Washer	304 Stainless Steel
		A7	Nut	304 Stainless Steel
		A9	Anti-Extrusion Ring	PTFE, Glass Filled to 500°F (260°C) (pH Range 0-14). Used with SMP, TDP, ASP and FGP packing.
				Square Braid with weave of fully-annealed copper wire scrapers to 1000°F (540°C) (pH Range 3-10). Used with HMP packing.
Carbon Fabric Reinforced Graphite to 800°F (427°C) (pH Range 1-12). Used with HTP packing.				
A10	Seat Ring*	CR - Chloroprene to 180°F (83°C) NBR - Acrylonitrile-Butadiene to 180°F (83°C) EPDM - Terpolymer of Ethylene, Propylene and a Diene to 250°F (122°C) FKM - Fluoro Rubber to 400°F (204°C) 17-4 PH Stainless Steel H900 Heat Treated CRW - Chloroprene, Off White to 140°F (60°C) PTFE - Polytetrafluoroethylene, white to 450°F (230°C) Reinforced PTFE - Polytetrafluoroethylene, to 500°F (260°C)		
		B1	Handwheel	Painted, Cast Iron
		B2	Roll Pin	Carbon Steel or 420 Stainless Steel
		B4	Thrust Bearing	Oil Impregnated Bronze
		B5	Yoke Sleeve	Aluminum Bronze
		B6	Stem	304 Stainless Steel
		B7	Yoke	Cast Steel or 304 Stainless Steel
B8	Screw	Zinc Plated Steel or 18-8 Stainless Steel		
B9	Nut	Zinc Plated Steel or 18-8 Stainless Steel		
B10	Clip	304 Stainless Steel		
B23	Data Plate	316 Stainless Steel		
B28	Grease Fitting	Zinc Plated Steel		
B29	Screw	Zinc Plated Steel or 18-8 Stainless Steel		
B30	Nut	Zinc Plated Steel or 18-8 Stainless Steel		
B42	Wave Washer	304 Stainless Steel		
B43	Lockout Pin	304 Stainless Steel		



*The replaceable Seat Ring is standard on resilient-seated valves and optional on metal-seated valves. The standard integral metal seat matches the body material.

Valve Selection Shut-Off Capabilities

Resilient Seats	Leak tight/drip tight
Metal Seats	Meet MSS SP-81 and TAPPI TIS 405-8

Pressure Ratings

2-48" (50-1200mm)	150 psi C.W.P. (1030 kPa)
Optional 30 & 36" (750 & 900mm)	100 psi C.W.P (690 kPa)

Notes:

Valve can handle Full Reverse Pressure without damage.

Valves with Chloroprene, off white seats are limited to 50 psi (350 kPa). Contact DeZURIK with service conditions.

Flow Parameters Round Port

Valve Size	Cv* Kv*	K** (resistance)	Port Area (in ² /cm ²)
2" 50mm	300 260	0.16	3.1 20
3" 80mm	675 584	0.16	7.1 46
4" 100mm	1200 1040	0.16	12.6 81
5" 125mm	1900 1640	0.16	19.6 126
6" 150mm	2700 2340	0.16	28.3 183
8" 200mm	4800 4200	0.16	50.3 325
10" 250mm	7500 6500	0.16	78.5 506
12" 300mm	10800 9300	0.16	113 729
14" 350mm	13200 11400	0.16	138 890
16" 400mm	17400 15100	0.16	183 1180
18" 450mm	22300 19300	0.16	234 1510
20" 500mm	27800 24000	0.16	291 1880
22" 550mm	34000 29400	0.16	355 2290
24" 600mm	40500 35000	0.16	425 2740
26" 650mm	47800 41300	0.16	501 3230
28" 700mm	55800 48100	0.16	583 3760
30" 750mm	64000 55400	0.16	672 4340
32" 800mm	73000 63100	0.16	767 4950
36" 900mm	93000 80400	0.16	976 6300
42" 1050mm	128000 109000	0.16	1336 8620
48" 1200mm	165000 142700	0.16	1750 11290

*Cv = Flow in GPM of water at 1 psi pressure drop.

Kv = Flow in m³/hr. of water at 100 kPa pressure drop.

** K = The resistance coefficient of the valve. The constant (K) can be used to determine the equivalent length of pipe.

$L = \frac{K \times D}{f}$ Where
 L = Equivalent length of pipe in feet
 K = Resistance coefficient
 D = Pipe diameter in feet
 f = Friction factor, related to type of pipe

Applicable Standards

DeZURIK KGC-ES Knife Gate Valves are designed and/or tested to meet the following standards:	
MSS SP-81	Metal Seated Valves, Stainless Steel, Bonnetless, Flanged Knife Gate Valves
ANSI B16.5 2-24" (50-600mm)	Flanges and Flanged Fittings, ANSI 150 Conforms to related drilling dimensions
ANSI 16.47 26-48" (650-1200mm)	Large diameter Steel Flanges. Series A. Conforms to related dimensions
International Standards	Conforms to flanged bolt guides — JIS 10; DIN 10 and DIN 16; ISO 7005-1/PN10 and 7005-2/PN16; BS 4504/PN10 and BS 4504/PN16; and AS 2129 Tables D and E; SANS 1123-1000 and SANS 1123-1600
TAPPI TIS 405-8	Recommendations for Stainless Steel, Bonnetless, Flanged, Wafer Knife Gate Valves. Revoked by TAPPI, Same as MSS SP-81

Flow Parameters V-port 60 Degrees

Valve Size	Cv* Kv*	K** (resistance)	Port Area (in ² /cm ²)
2" 50mm	89 77	1.80	1.9 12
3" 80mm	210 584	1.63	4.3 28
4" 100mm	386 330	1.53	7.7 50
5" 125mm	665 580	1.27	11.5 74
6" 150mm	900 780	1.42	17.2 111
8" 200mm	1660 1400	1.32	30.6 197
10" 250mm	2320 2000	1.65	42.0 271
12" 300mm	3490 3000	1.52	61.9 399
14" 350mm	4650 4000	1.27	80.8 521
16" 400mm	6110 5300	1.29	106 680
18" 450mm	8000 6900	1.23	138 890
20" 500mm	10100 8700	1.20	170 1100
22" 550mm	11900 10300	1.28	213 1370
24" 600mm	15100 13100	1.14	250 1610
26" 650mm	16800 14500	1.28	300 1940
28" 700mm	19500 16900	1.29	350 2260
30" 750mm	23900 20700	1.14	389 2510
32" 800mm	25800 22100	1.30	460 2970
36" 900mm	35200 30400	1.11	568 3660
42" 1050mm	44100 38100	1.32	800 5160
48" 1200mm	57800 50000	1.33	1050 6770

Valve Selection

Valve and Actuator Weights

Pounds
Kilograms

Valve Size	Basic Valve	With Lever	With Handwheel	With Chainwheel	With Bevel Gear Handwheel*	With Cylinder		
						Size	lbs.	Kg.
2" 50mm	10 4.5	20 9	20 9	32 14.5	—	4" (100mm)	29	13
3" 80mm	16 7	37 17	27 12	39 18	88 40	4" (100mm)	37	17
4" 100mm	24 11	48 22	36 16	48 22	96 43.5	4" (100mm)	45	20
						6" (150mm)	63	29
5" 125mm	32 14.5	60 27	51 23	66 30	108 49	4" (100mm)	58	26
						6" (150mm)	76	35
						8" (200mm)	88	40
6" 150mm	38 17	66 30	57 26	75 34	113 51	4" (100mm)	63	29
						6" (150mm)	81	37
						8" (200mm)	93	42
8" 200mm	65 30	98 44.5	86 39	101 46	144 65	6" (150mm)	112	51
						8" (200mm)	124	56
10" 250mm	103 47	157 71	141 85	179 81	191 87	8" (200mm)	174	79
						10" (250mm)	220	100
						12" (300mm)	257	117
12" 300mm	148 67	213 97	187 85	227 103	241 109	8" (200mm)	225	102
						10" (250mm)	270	122
						12" (300mm)	309	140
14" 350mm	199 90	N/A	265 120	284 129	303 137	10" (250mm)	332	151
						12" (300mm)	372	169
16" 400mm	272 123	N/A	341 155	358 162	380 172	10" (250mm)	409	186
						12" (300mm)	449	204
						14" (350mm)	495	225
18" 450mm	361 164	N/A	433 197	449 204	473 215	12" (300mm)	551	250
						14" (350mm)	602	273
						16" (400mm)	813	369
20" 500mm	518 235	N/A	593 269	653 296	637 289	12" (300mm)	712	323
						14" (350mm)	760	345
						16" (400mm)	982	445
22" 550mm	622 282	N/A	698 317	N/A	760 345	12" (300mm)	830	377
						14" (350mm)	881	400
						16" (400mm)	1101	500
24" 600mm	725 329	N/A	803 364	N/A	882 400	18" (450mm)	1144	519
						12" (300mm)	947	430
						14" (350mm)	1001	454
26" 650mm	918 417	N/A	N/A	N/A	1104 501	16" (400mm)	1219	553
						18" (450mm)	1262	572
						12" (300mm)	1200	544
28" 700mm	1111 503	N/A	N/A	N/A	1325 601	14" (350mm)	1251	568
						16" (400mm)	1524	692
						18" (450mm)	1578	716
30" 750mm	1446 656	N/A	N/A	N/A	1594 723	20" (500mm)	1711	777
						12" (300mm)	1417	643
						14" (350mm)	1467	666
32" 800mm	1700 772	N/A	N/A	N/A	1825 828	16" (400mm)	1648	748
						18" (450mm)	1830	830
						20" (500mm)	1963	891
36" 900mm	2204 1000	N/A	N/A	N/A	2366 1073	12" (300mm)	1718	780
						14" (350mm)	1768	802
						16" (400mm)	1985	900
42" 1050mm	3600 1634	N/A	N/A	N/A	3908 1774	18" (450mm)	2205	1000
						20" (500mm)	2365	1073
						12" (300mm)	1901	862
48" 1200mm	4997 2266	N/A	N/A	N/A	5450 2474	14" (350mm)	1951	886
						16" (400mm)	2121	963
						18" (450mm)	2300	1044
						20" (500mm)	2426	1101
						14" (350mm)	2541	1153
						16" (400mm)	2755	1250
						18" (450mm)	2987	1355
						20" (500mm)	3150	1428
						On Application		
						On Application		

Note: Weights are approximate and do not include crating.

* For Bevel Gear with Chainwheel, add the following weight to the bevel gear with handwheel weight:
 2-18" add 7 lbs. (3kg)
 20-24" add 26 lbs. (12kg)
 30" add 74 lbs. (34kg)
 36" add 68 lbs. (31kg)

Ordering

To order, simply complete the valve order code from information shown. An ordering example is shown for your reference.

Valve Style

Give valve style code as follows:

KGC = Cast Stainless Steel Knife Gate Valve

Valve Size

Give valve size code as follows:

2 = 2" (50mm)	20 = 20" (500mm)
3 = 3" (80mm)	22 = 22" (550mm)
4 = 4" (100mm)	24 = 24" (600mm)
5 = 5" (125mm)	26 = 26" (650mm)
6 = 6" (150mm)	28 = 28" (700mm)
8 = 8" (200mm)	30 = 30" (750mm)
10 = 10" (250mm)	32 = 32" (800mm)
12 = 12" (300mm)	36 = 36" (900mm)
14 = 14" (350mm)	42 = 42" (1050mm)
16 = 16" (400mm)	48 = 48" (1200mm)
18 = 18" (450mm)	

Body Style

Give body style code as follows:

ES = Extended Service Life with DeZURIK Exclusive Premium Packing System

End Connection

Give end connection code as follows:

F1 = ANSI 150 UNC Tapping for Threads
F110 = ISO 7005/PN10 Drilling
F116 = ISO 7005/PN16 Drilling
F1DA = AS2129 Table D Drilling
F1EA = AS2129 Table E Drilling
F1UN⁽¹⁾ = ANSI 150 UN-8 Tapping for Threads
F1S10 = SANS 1123-1000
F1S16 = SANS 1123-1800

Optional End Connections

F1T = ANSI 150 Through Bolting
F1J1 = JIS 10 Drilling

On Application

Other end connections available on application.

Body Material

Give body material code as follows:

Standard

S1 = 304 Stainless Steel
S2 = 316 Stainless Steel
S3 = 317 Stainless Steel

On Application

HC = Hastelloy C
S6 = 254 Stainless Steel
S10 = 2205 Duplex Stainless Steel

Packing Material

Give packing material code as follows:

Standard Packing

SMP = PTFE Braided Packing to 500°F (260°C) (pH Range 0-14)

Optional Packing

ASP = Self-Adjusting PTFE Braided Packing with AFLAS Fluoroelastomer Cord to 400°F (205°C) (pH Range 0-14)
TDP = Dry Service, Dry PTFE Braided Packing with Solid PTFE Cord to 500°F (260°C) (pH Range: 0-14)
HTP = High Temperature Braided Packing to 650°F (343°C) (pH Range: 1-12)
HMP = High Temperature Braided Packing with Metal Scraper Ring to 1000°F (540°C) (pH Range: 3-10)
FGP = Food Grade Service to 450°F (232°C) (pH Range: 3-11)

Gate Material ⁽³⁾

Give gate material code as follows:

Standard Gate Materials

S1 = 304 Stainless Steel (Standard for S1 body material)
S2 = 316 Stainless Steel (Standard for S2 body material)
S3 = 317 Stainless Steel (Standard for S3 body material)

Optional Gate Materials

S5 = 17-4 Stainless Steel H900 Heat Treated (Used with S1, S2, & S3 body materials)

On Application

S6 = 254-SMO Stainless Steel (Used with S6 body material)
S8 = 410 Stainless Steel (Used with S1, S2 & S3 body materials)
S10 = 2205 Duplex Stainless Steel (Used with S2, S3 OR S10 body materials)
HC = Hastelloy C (Used with HC body materials)

Seat Material ⁽²⁾

Give seat material code as follows:

Standard Seat Materials

M = Metal
V = V-Orifice All Metal
CR = Chloroprene to 180°F (83°C)
NBR = Acrylonitrile-Butadiene to 180°F (83°C)
EPDM = Terpolymer of Ethylene, Propylene and a Diene to 250°F (122°C)

Optional Seat Materials

FKM = Fluoro Rubber to 400°F (204°C)
S5D = 17-4 PH Stainless Steel H900 Heat Treated

On Application

CRW = Chloroprene, Off White to 140°F (60°C)
PTFE or **RTFE**

Standard Options

Give option code as follows:

ARRA = ARRA Compliant
PSA = Purge Ports in Seat Area
PCA = Purge Ports in Chest Area
PSC = Purge Ports in Seat and Chest Area
CMC = Certificate of Material Conformance
CRT = Certified Physical and Chemical Test Reports
— = Optional Coating
— = DeZURIK Standard Test Certification
P100 = 30" and 36" (750 and 900mm) valves with 100 psi (690 kPa) pressure rating

Notes:

- (1) Applies to valves 18" (450mm) and larger. Flange bolt hole threads are 8 threads per inch in accordance with ANSI, API and MSS standards.
- (2) The limiting factor in valve selection is the lowest temperature of the packing or seat.
- (3) Gate material limitations by body style in parentheses.

Ordering Example:

KGC,6,ES,F1,S2,ASP,S2-CR*Actuator

~~Cylinder Actuator Accessories~~

~~Position Indicating Switches~~

~~Position Indicating Switches are available for use on double acting cylinder actuators. Order as part of a complete valve/actuator assembly by adding the appropriate code from the table below to the valve and actuator order code. Two switches will automatically be set to indicate full open and full closed positions.~~

~~Two Switches - Open/Closed~~

Quantity/ Description	Switch Type	Rating	Manufacturer	Order Code
2 SPDT	Mechanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA1A-1A	SE649
2 DPDT	Mechanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA2B-1A	SE624
2 SPDT	Mechanical	Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell LSXA2K-1A	SE995
2 DPDT	Mechanical	Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell LSXA4L-1A	SE996
2 SPDT, SST Housing	Proximity	CSA/FM Class 1, Division 1, Explosion Proof	GO-73-13526-A2	SEHK4
2 SPDT, SST Housing	Proximity	CSA Class I, Div 2, Hazardous Locations, (Groups A, B, C, D), Class II, (Groups E, F, G), Class III	GO-11-11124-A2	SEH94
2 SPDT, SST Housing	Proximity	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Stonel HK3077SG and HK3077SR	SEHK3

~~One Switch - Open~~

Quantity/ Description	Switch Type	Rating	Manufacturer	Order Code
1 SPDT	Mechanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA1A-1A	SEJ40
1 DPDT	Mechanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA2B-1A	SEJ42
1 SPDT	Mechanical	Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell LSXA2K-1A	SEJ46
1 DPDT	Mechanical	Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell LSXA4L-1A	SEJ44
1 SPDT, SST Housing	Proximity	CSA/FM Class 1, Division 1, Explosion Proof	GO-73-13526-A2	SEHK5
1 SPDT, SST Housing	Proximity	CSA Class I, Div 2, Hazardous Locations, (Groups A, B, C, D), Class II, (Groups E, F, G), Class III	GO-11-11124-A2	SEJ39
1 SPDT, SST Housing	Proximity	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Stonel HK3077SG	SEK27

~~One Switch - Closed~~

Quantity/ Description	Switch Type	Rating	Manufacturer	Order Code
1 SPDT	Mechanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA1A-1A	SEJ41
1 DPDT	Mechanical	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Honeywell LSA2B-1A	SEJ43
1 SPDT	Mechanical	Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell LSXA2K-1A	SEJ47
1 DPDT	Mechanical	Nema 1, 3, 4, 6, 7 (Class 1, Division 1, Groups B, C, D), 9 (Class 2, Division 1, Groups E, F, G), 13	Honeywell LSXA4L-1A	SEJ45
1 SPDT, SST Housing	Proximity	CSA/FM Class 1, Division 1, Explosion Proof	GO-73-13526-A2	SEHK6
1 SPDT, SST Housing	Proximity	CSA Class I, Div 2, Hazardous Locations, (Groups A, B, C, D), Class II, (Groups E, F, G), Class III	GO-11-11124-A2	SEJ39
1 SPDT, SST Housing	Proximity	Nema 1, 3, 4, 4X, 6, 6P, 12 and 13	Stonel HK3077SR	SEK87

Electric Motor Actuators

DeZURIK Knife Gate Valves can be furnished with electric motor actuators including Limatorque, Auma, Rotork, E.I.M. and others.

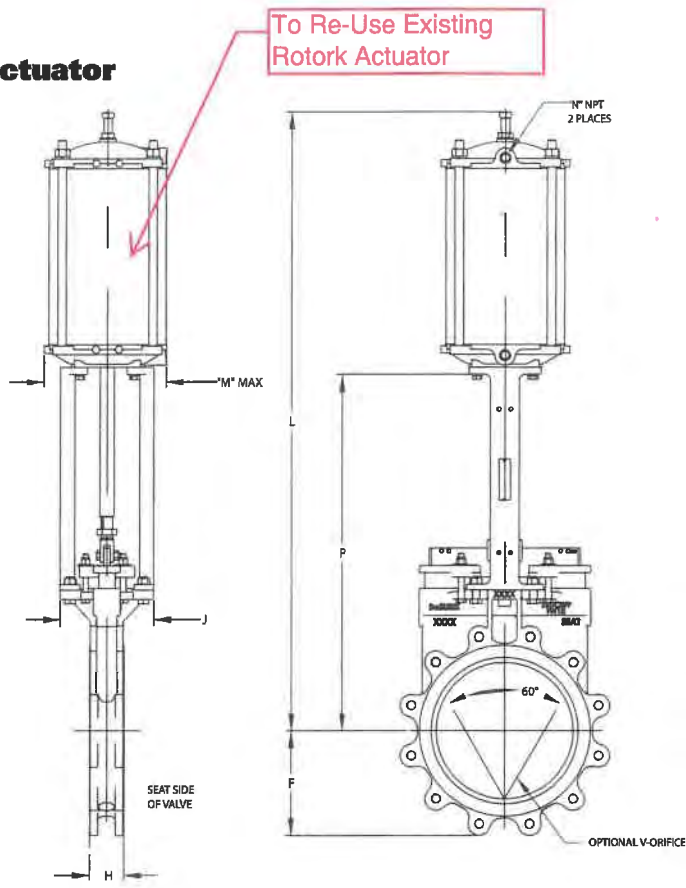
When ordering electric motor actuators, specify valve order code, shutoff pressure, service conditions (flowing media and installation direction); type of application (on/off or throttling); speed of operation; NEMA rating (4, 7, submersible, etc.); electrical characteristics (voltage and phase); actuator accessories and controls as per specification requirements.

Dimensions

Basic Valve with Cylinder Actuator

Valve Size	Dimensions		
	F	H	J
2"	3.00	1.88	4.00
50mm	76	48	102
3"	3.75	2.00	4.75
80mm	95	51	121
4"	4.50	2.00	5.00
100mm	114	51	127
5"	5.00	2.25	5.75
125mm	127	57	146
6"	5.50	2.25	5.75
150mm	140	57	146
8"	6.75	2.75	6.38
200mm	171	70	162
10"	8.00	2.75	8.25
250mm	203	70	210
12"	9.50	3.00	8.25
300mm	241	76	210
14"	10.50	3.00	8.25
350mm	267	76	210
16"	11.75	3.50	8.69
400mm	298	89	221
18"	12.50	3.50	9.31
450mm	318	89	236
20"	13.75	4.50	9.42
500mm	349	114	239
22"	15.00	4.50	9.19
550mm	381	114	233
24"	16.00	4.50	9.42
600mm	406	114	239
26"	17.13	4.63	9.50
650mm	435	117	241
28"	18.25	5.00	10.69
700mm	464	127	271
30"*	19.38	5.50	11.25
750mm	492	140	286
32"	20.88	6.00	11.25
800mm	530	152	286
36"*	23.00	6.00	11.25
900mm	584	152	286
42"	26.50	6.50	13.50
1050mm	673	165	343
48"	Contact DeZURIK		
1200mm			

Inches
Millimeters



2-16" (50-400mm) Valves

Actuator Order Code	Dimensions											M	N
	L												
	2" 50mm	3" 80mm	4" 100mm	5" 125mm	6" 150mm	8" 200mm	10" 250mm	12" 300mm	14" 350mm	16" 400mm			
CY-PC4	22.26 565	23.98 609	26.26 667	30.64 778	32.18 817	—	—	—	—	—	—	5.38 137	1/4
CY-PC6	—	—	27.61 701	32.00 813	33.56 852	39.11 993	47.13 1197	None	—	—	—	7.88 200	1/4
CY-PC8	—	—	—	32.38 822	33.94 862	39.49 1003	49.57 1259	53.19 1351	59.06 1500	62.74 1594	10.50 267	1/2	
CY-PC10	—	—	—	—	—	—	50.97 1295	54.59 1387	60.35 1533	64.03 1626	13.00 330	1/2	
CY-PC12	—	—	—	—	—	—	50.94 1294	54.56 1386	60.70 1542	64.38 1635	15.00 381	1/2	
CY-PC14	—	—	—	—	—	—	—	—	—	63.68 1617	17.00 432	1/2	

Inches
Millimeters

* 100 psi, face-to-face (H dimension) on 30" and 36" (750 and 900mm) is 4.62" (117mm)

18-48" (450-1200mm) Valves

Actuator Order Code	Dimensions											M	N
	L												
	18" 450mm	20" 500mm	22" 550mm	24" 600mm	26" 650mm	28" 700mm	30" 750mm	32" 800mm	36" 900mm	42" 1050mm	48" 1200mm		
CY-PC10	73.59 1869	77.16 1960	—	—	—	—	—	—	—	—	—	13.00 330	1/2
CY-PC12	73.935 1878	77.495 1968	85.52 2172	89.475 2273	—	—	—	—	—	—	—	15.00 381	1/2
CY-PC14	73.24 1860	76.81 1951	85.52 2172	88.78 2255	95.38 2423	101.44 2577	108.19 2748	—	—	—	—	17.00* 432	1/2
CY-PC16	70.25 1784	75.94 1929	82.00 2083	87.91 2233	95.50 2426	101.56 2580	108.31 2751	113.94 2894	125.81 3196	—	—	17.00 432	1/2
CY-PC18	—	—	—	88.16 2239	95.75 2432	101.81 2585	108.56 2757	114.19 2900	126.06 3202	143.19 3637	—	19.00 483	3/4
CY-PC20	—	—	—	—	—	102.06 2592	109.81 2789	115.44 2932	126.31 3208	143.44 3643	—	21.00 533	3/4

* M dimension on 26-30" (650-750mm) is 14.75" (375mm)

Inches
Millimeters



**DeZURIK KGC-ES
EXTENDED SERVICE LIFE
CAST STAINLESS STEEL
KNIFE GATE VALVES**



DeZURIK KGC-ES (Extended Service Life) Cast Stainless Steel Knife Gate Valves

Applications

DeZURIK KGC-ES Cast Stainless Steel Knife Gate Valves are designed for the toughest corrosive, abrasive liquid, slurry or dry material applications including: Pulp and Paper, Mining, Waste Water, Chemical, Petrochemical, Power, Steel, Food Processing, etc.

Design and Construction

The heart of the KGC-ES is the DeZURIK **Exclusive Premium Packing System**. This system features a tight tolerance machined packing chamber, rounded gate edge, Anti-Extrusion Ring, and many packing options to meet the demands of your specific application. All of these features together will improve sealing, extend packing life, and reduce maintenance.

Depending on what your application requires, the cast body and packing gland are available in 304, 316, 317, 254-SMO, 2205 Duplex Stainless Steel or Hastelloy C 276. Other body and gate materials are available upon request.

KGC-ES Knife Gate Valves are available in sizes 2" - 48" (50mm - 1200mm) with metal or resilient seated versions.

The actuator superstructure is heavy duty cast carbon steel or cast stainless steel to minimize corrosion. A variety of actuator options are available including: handwheels, chainwheels, bevel gears, levers, pneumatic cylinders, hydraulic cylinders, and electric motors. A full complement of accessories is also offered.

Applicable Standards

DeZURIK KGC-HD Knife Gate Valves are designed and/or tested to meet the following standards:	
MSS SP-81 Metal Seated Valves	Stainless Steel, Bonnetless, Flanged Knife Gate Valves
ANSI B16.5 2" - 24" (50 - 600mm)	Carbon Steel Flanges and Flanged Fittings, ANSI 150. Conforms to related drilling dimensions
ANSI 16.47 26" - 48" (650 - 1200mm)	Large diameter Steel Flanges. Series A. Conforms to related dimensions.
ASME B16.20 2" - 48" (50 - 1200mm)	Metallic Gaskets for Pipe Flanges. Conforms to Spiral-Wound gasket dimensions
International Standards	Conforms to flanged bolt guides: JIS 10; DIN 10 and DIN 16; ISO 7005-1/PN10 and 7005-2/PN16; BS 4504/PN10 and BS 4504/PN16; and AS 2129 Tables D and E; SANS 1123-1000 and SANS 1123-1600



DeZURIK Exclusive Rounded Stainless Steel Gate

Gates are available in 304, 316, 317, 17-4, 254-SMO, 410, 2205 Duplex Stainless Steel or Hastelloy C for corrosion resistance. The gate has a precision ground finish on both sides to prevent packing and seat damage. The beveled knife-like gate edge with machined tooth on each side pushes away or cuts through solids in the flow stream.

- Provides superior sealing
- Improves packing life
- Requires less compression and thus reduces friction
- Eliminates sharp corners where leakage first occurs

Cast Gate Guides and Jams

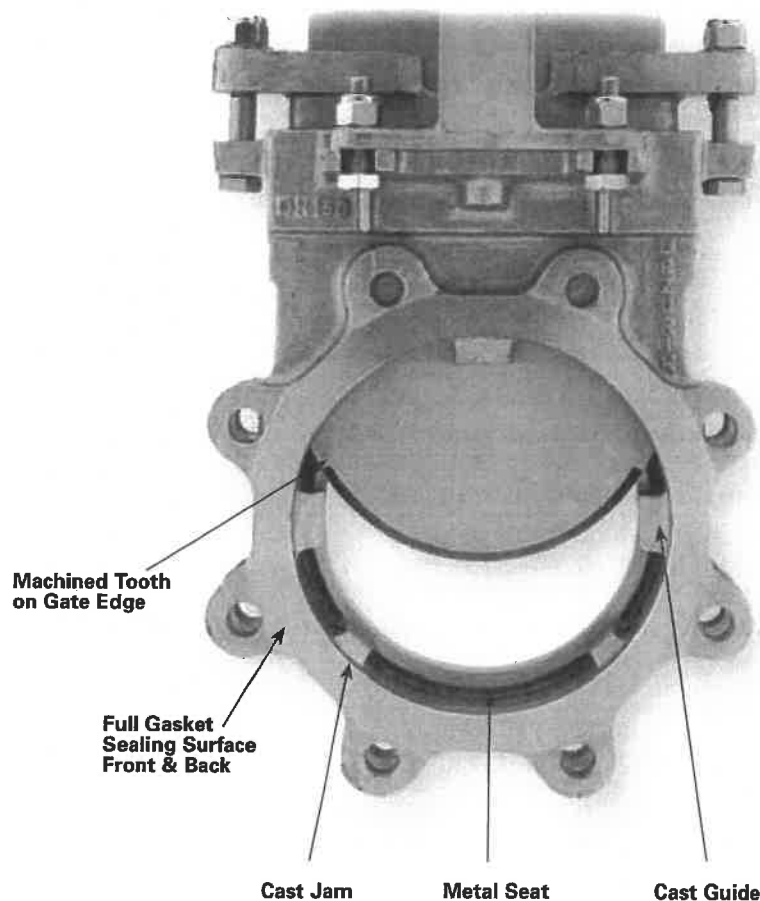
The cast gate guides provide support for the moving gate and will not break off like welded guides. Cast gate jams at the bottom of the body hold the gate securely against the seat to assure positive shutoff. All KGC-ES valves can handle full reverse pressure without damage. The body has raised face end connections with drilled and tapped lugs.

High Flow Capacity

100%, round port design allows high flow capacity and minimum pressure drop. DeZURIK's KGC-ES valve seat I.D. is equal to the inside diameter of standard pipe (ASME B36.10).

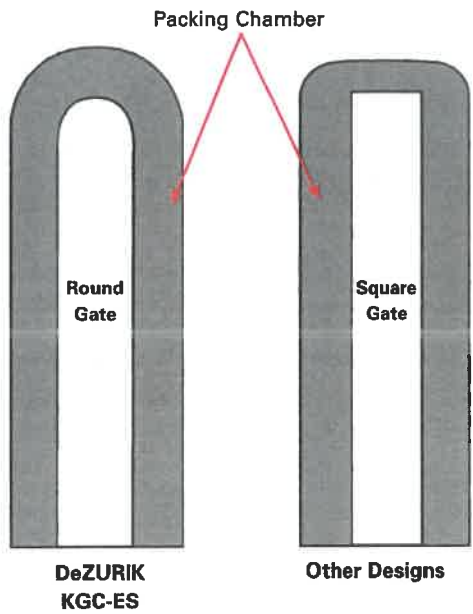
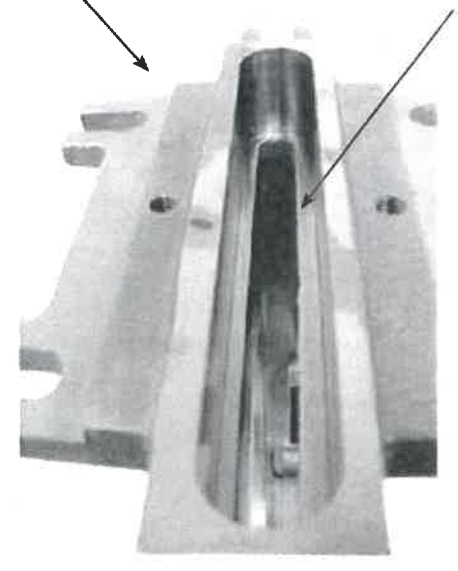
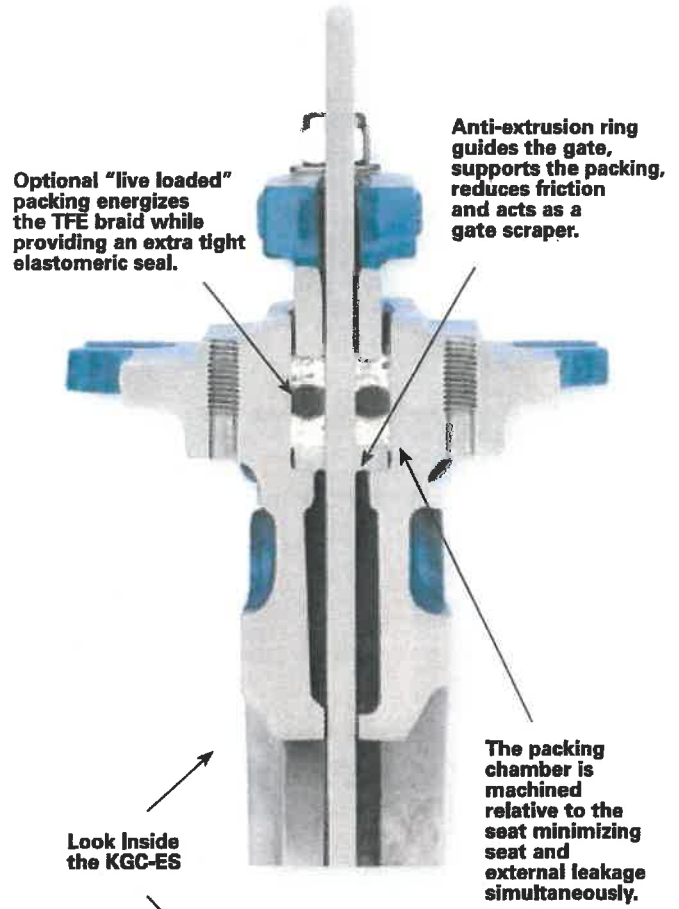
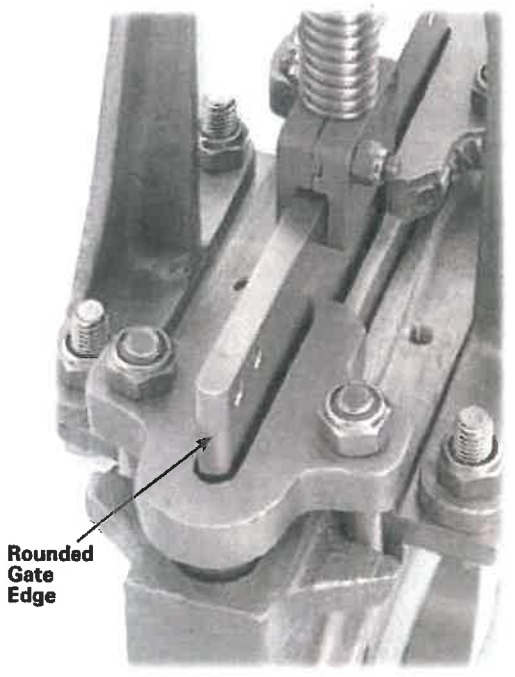
Full Gasket Sealing Front and Back

For maximum gasket sealing the KGC-HD end connections conform to ASME B16.20 dimensions for Spiral-Wound gaskets.



DeZURIK Exclusive Premium Packing System Ensures Long-Life by Sealing, Scraping and Supporting

DeZURIK KGC-ES Valves have a unique packing system that ensures a long-life tight seal with minimal packing gland pressure. The Premium Packing System is available for general, moderate, severe, and high temperature applications. The machined packing chamber, rounded gate edge, and Anti-Extrusion Ring form the base. The system is completed by careful selection of the packing material. Temperature, pH, and media properties will determine the most suitable packing option. KGC-ES valves can be re-packed without being removed from the pipeline.



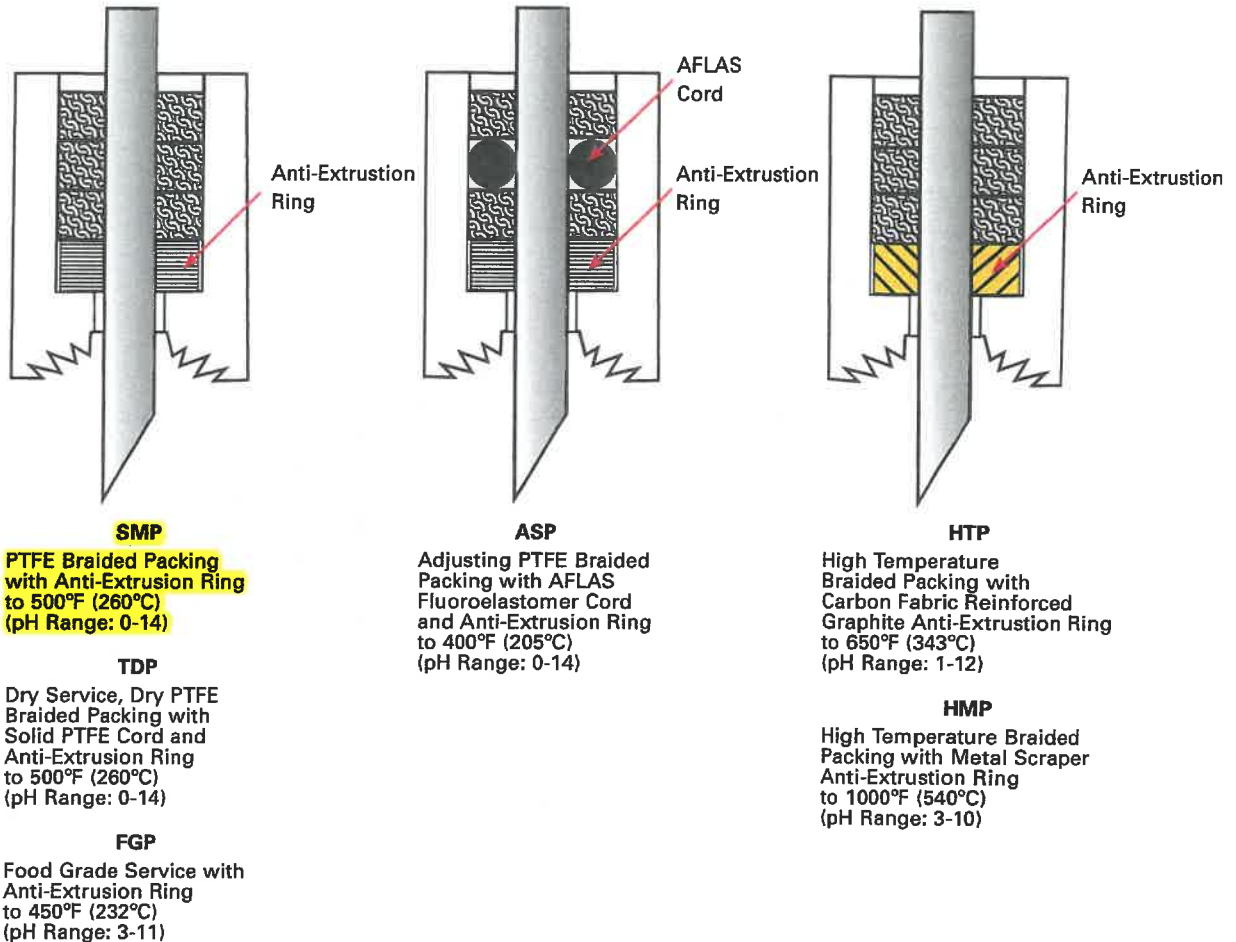
Test Data Proves - the "premium packing system" requires fewer packing adjustments and provides extended service life.

Putting "The Premium Packing System" To Work

The KGC-ES packing system includes a number of features that:

- Extend service life
- Reduce external leakage
- Minimize friction and actuator thrust required
- Require fewer packing adjustments
- Ensure alignment of the gate
- Allow field replacement of packing

High Performance Packing Material Options



Application Factors That Affect Your Packing Selection For Optimal Sealing

- Compatibility with process media
 - Wet or dry application
 - Food grade or non food grade
 - Life cycle stroke frequency
 - Temperature
 - pH Acid-Base level
 - Scaling or crystallization on gate
- Sealing
 - Energized AFLAS Fluoroelastomer Cord in ASP Packing will keep pressure on the packing material to maximize seal
 - Adjustable Packing Gland will renew and compress the packing to seal the valve
- Scraping
 - Anti-Extrusion Ring functions as a gate scraper, preventing process media from entering packing chamber.
- Supporting
 - Anti-Extrusion Ring supports packing, keeps packing from extruding between body and gate, and also maintains gate alignment to maximize sealing performance

Seat Options

Both metal and resilient seated valves are offered in a 100%, round port design. The integral metal seated or the replaceable 17-4 PH Stainless Steel H900 Heat Treated version is available with shutoff capability exceeding current MSS-SP81 standards.

Resilient Seated Valves

Resilient seated valves are available for applications where drip-tight shutoff is required. Unlike valves which use an o-ring seal, DeZURIK KGC-ES Valves have a replaceable resilient seat designed especially for knife gate valve applications. The resilient seat material is molded on three sides of the stainless steel seat ring. When the valve is closed, the gate is pushed against the seat and held in place by the gate jams. When the valve is open, the gate moves away from the seat, allowing clearance, which prevents seat damage and reduces operating force.

A variety of seat materials are available.

Options include:

CR - Chloroprene

NBR - Acrylonitrile-Butadienne

EPDM - Terpolymer of Ethylene, Propylene and a Diene

FKM - Fluro Rubber

CRW - Chloroprene, off white

PTFE - Polytetrafluoroethylene, white

Reinforced PTFE - Polytetrafluoroethylene

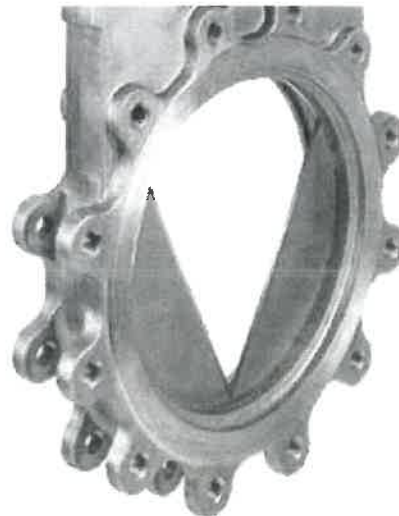
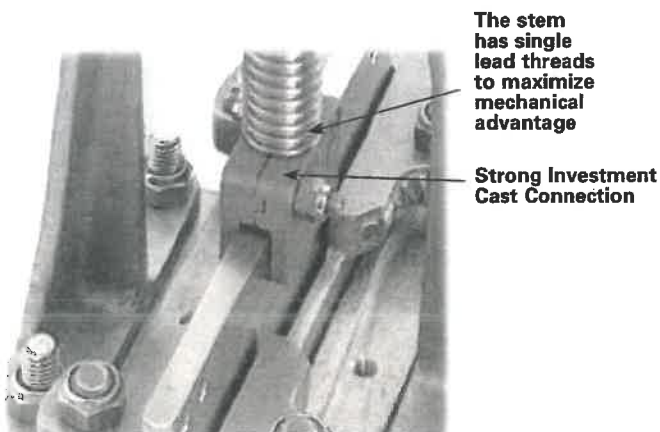
Low Rim-Pull Force

A strong investment cast clip complements KGC-ES's robust construction. The single lead threads on the manual stem result in a lower required handwheel rim-pull force.



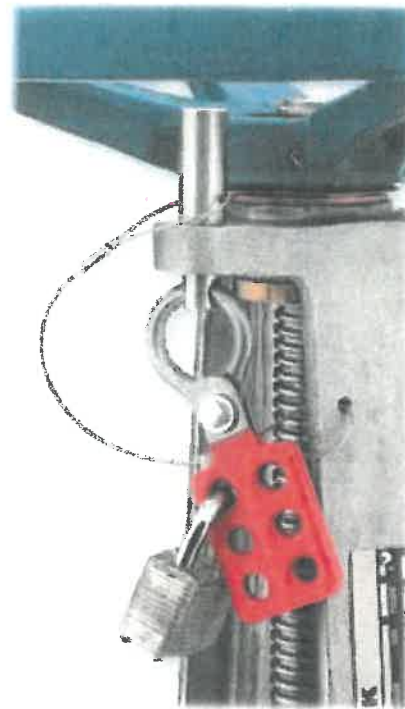
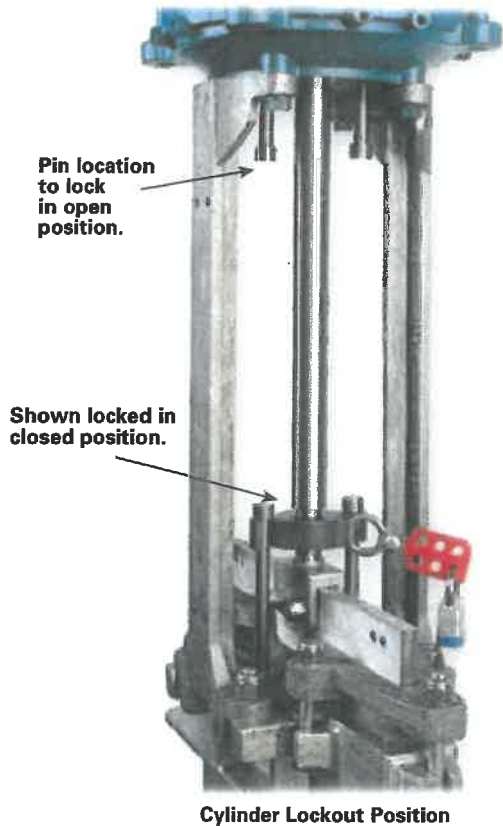
V-Orifice Design for Reliable Throttling and Modulation Control

An integral metal-seated V-port design is also available for reliable throttling control of thick slurries including paper stock. The constant V-orifice is maintained from open valve position to closed to prevent bridging or plugging and to ensure maximum control accuracy. Other orifice shapes available upon request.



Lockout Option

KGC-ES provides the latest in lockout design technology to protect both people and the environment. Unique designs for manual and automated models are available. The lockout collar for the automated models allows fine adjustment to ensure tight shutoff and maximum opening position. Lockouts are rated to withstand the maximum output of the actuators.



Handwheel Lockout Option

Actuators

- Handwheels
- Chainwheels
- Levers
- Bevel Gears
- Pneumatic Cylinders
- Hydraulic Cylinders
- Electric Motors

Accessories

A variety of accessories are offered as standard, including handwheel extensions, floorstands and a variety of cylinder actuator accessories for customizing the valve/actuator package to meet specific application requirements.

Options

DeZURIK Cast Knife Gate Valves may be ordered with the following options to meet your application requirements:

- Purge port connections
- Corrosion resistant cylinder actuator materials
- Lockouts
- Hardened/removable seats
- Hardened gates
- Bonnets

PCO # 107

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

**TOAV - Fiberglass Double Door
Inactive Leaf Flush Bolt & Astragal**

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 01/09/2018
Submitted To: Victor Valley Wastewater
Reclamation Authority, W M Lyles Co
Status: Pending
Priority: High
Pending On Org: Victor Valley Wastewater
Reclamation Authority

Created By: MWH Constructors, EADOC-VWRA-Sub-R - Charles Reynolds
Created: 01/09/2018

Contractor's PCO #:

Reason: Unforeseen / Changed Site Conditions
Requested By: Owner

Change Date:**Schedule ID:****Not to Exceed \$:** 0.00**Set:**

Approved Thru Last:	813,182.33
Amount Added:	1,052.01
New Approved Amount:	814,234.34
Current Contract Duration:	821
Days Added:	0
New Contract Duration:	821

Budget :**Funding:****Cost Item:****Proposed Design Change Summary:**

The large fiber glass double doors, Door-42-Fine Screens Room and Door-45-Chemical Feed Room for a total of 2-units are susceptible to misalignment becoming unlatched in high winds.

Please provide:

PCO # 107

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Change the bottom flush bolt(s) to a manual type (Rockwood 555) to keep the inactive leaf secured until opening of this door is required. Install a lock astragal (Rockwood 320CL) on the active door to prevent the door from passing too far past the inactive door.

Locations

Element A1 - Apple Valley WRP - Vol4

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date



California Contractor's License No. 422390

Southern Division - **Temecula Office**
42142 Roick Drive
Temecula, CA 92590
Telephone (951) 973-7393
Fax (951) 698-3031

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January 22, 2018

Victor Valley Wastewater Reclamation Authority
20111 Shay Rd.
Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-107 Fiberglass Door Fix

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to change the bottom automatic flush bolt to a manual type and add a lock astragal to not allow the active door to pass the inactive door at the Screening and Chemical Room. WML deems this change to be additional work and the cost for this change is \$1,052.01. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Grant Gourley". The signature is written in a cursive style.

Grant Gourley
Project Executive
W.M. Lyles Co.



17861 Georgetown Lane
 Huntington Beach, CA 92647
 Ph: 714-842-0299 F: 714-842-0229

Invoice

Date 1/19/2018 Invoice # 11527

Bill To

W.M. Lyles
 PO Box 4377
 Fresno, CA 93744

Ship To

W.M. Lyles Co.
 Sub-Regional WRP
 21028 Otoe Road
 Apple Valley, CA 92307
 Grant Gourley 951-760-4169

P.O. Number	Terms	Rep	Ship	Via	F.O.B.	Project
T1139-29	Net 30	DP	1/17/2018	Our Truck	Jobsite	214172-8 Both sites
Description						Quantity
ADS COR 08 Hesperia & Apple Valley Sites						
Change Bottom Flush Bolts to Rockwood 555 (per door)						4
Install Rockwood 320 Lock Guard (per door)						4
Trip charge (per jobsite)						2
<p>Accurate Door Solution - \$1,984.00 WML Markup 5% - \$99.20 WML Bond 1% - \$20.83 WML Total - \$2,104.03</p> <p>COH - \$1,052.02 TOAV - \$1,052.01</p>						
					Sales Tax	(7.975.. \$0.00
Payments made with credit cards are subject to additional fees. (Cash, Checks and Visa Cards are accepted.)					Total	\$1,984.00

Interest at 1½% per month but not more than allowed by law will be added on past due accounts.
 Buyer agrees if collection becomes necessary, buyer shall pay all costs including court costs and reasonable attorney fees.

PCO # 108

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

**TOAV - DC-74R Modification to
Water Heater Solenoid Valve Control
Strategy**

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 01/11/2018
Submitted To: W M Lyles Co
Status: Pending
Priority: Low

Created By: MWH Constructors, EADOC-VWRA-Sub-R - Charles Reynolds
Created: 01/11/2018

Contractor's PCO #: 108

Reason: Contractor Request
Requested By: Contractor

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 813,182.33
Amount Added: 3,159.28
New Approved Amount: 816,341.61
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

Proposed Design Change Summary:

The control strategy to perform maintenance cleans of the fine screens with hot water was modified allowing additional control for operator staff.

PCO # 108

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Locations

Element A1 - Apple Valley WRP - Vol4 - 01 - Influent Screening

References

Correspondence # 151	DC 74R - Solenoid Valve and Control Strategy Change	Closed
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Contractor

Signature	Print Name	Date
-----------	------------	------

Construction Manager

Signature	Print Name	Date
-----------	------------	------

Owner

Signature	Print Name	Date
-----------	------------	------



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Southern Division - **Temecula Office**
 42142 Roick Drive
 Temecula, CA 92590
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 Fax (951) 698-3031

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January 12, 2018

Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-108 Modify Program for Loop 3101C

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction in DC-74R to modify the programming and loop drawings for the cold water supply valve in the Fine Screen Room. WML deems this change to be additional work and received pricing from Trimax. The cost for this change is \$3,159.28. The breakdown of this amount is attached.

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
 Project Executive
 W.M. Lyles Co.



**Trimax Systems, Inc.
Change Order Request**

Job Name VWVRA Subregional Plants	Customer P.O. Number T1139-50
To: Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069	Change Order Request: COR-44
Attn: Steve Vickers	Date: 7/28/2017
	Reference DC-074R

Description:
Modify programs and documents for the following loop changes and additions

LOOP NO. 3101C	Plant Cold Water Supply Solenoid Valve (Reference P&ID 03-N-01)	Page 1 of 1			
COMPONENT SUMMARY					
Tag Number(s)	Component Name/Type	Process Range/Setpoint	Full Scale Range	Process Fluid	Process Connection(s)
None	N/A	N/A	N/A	CWR	N/A

FUNCTIONAL DESCRIPTION
A solenoid normally open to plant cold water supply. Operator selects to close valve or have valve remain open on the local HMI or SCADA.

SUMMARY OF LOOP FUNCTIONS EXTERNAL TO PLC AND HMI
None

SUMMARY OF PLC AND HMI LOOP FUNCTIONS
Local PLC HMI and SCADA provides MANUAL or AUTO control for the plant cold water supply solenoid valve. In MANUAL mode, operator can issue command to close the solenoid valve to shut off cold water to the screen system. In AUTO mode, the PLC shall close this normally open valve when HCC-3101H is called to open.

LOOP FUNCTION DATA SHEET Hesperia Water Reclamation Plant					
LOOP NO. 3101H	Plant Hot Water Supply Solenoid Valve (Reference P&ID 03-N-01)	Page 1 of 1			
COMPONENT SUMMARY					
Tag Number(s)	Component Name/Type	Process Range/Setpoint	Full Scale Range	Process Fluid	Process Connection(s)
None	N/A	N/A	N/A	HWR	N/A
A FUNCTIONAL DESCRIPTION A solenoid normally closed to plant hot water supply. Operator selects to open valve or have valve remain closed on the local HMI or SCADA.					
B SUMMARY OF LOOP FUNCTIONS EXTERNAL TO PLC AND HMI None					
C SUMMARY OF PLC AND HMI LOOP FUNCTIONS 1 Local PLC HMI and SCADA provides MANUAL or AUTO control for the plant hot water supply solenoid valve. 2 In MANUAL mode, operator can issue command to open the solenoid valve, allowing hot water to flow to the screen system. 3 In AUTO mode, the operator can make the following selection on the local or SCADA HMI: PLANT WATER ONLY, ONCE A DAY, TWICE A DAY, CONTINUOUSLY. The SCADA system will choose to open solenoid or have solenoid remain closed based on the operator's selection. In the PLANT WATER ONLY mode, the solenoid will not open. In the ONCE A DAY MODE, the SCADA system will open the solenoid the first time the on-line screen is called to run after an operator adjustable time of day (12:01 am - 11:59 pm) is reached. The solenoid will remain open for an operator adjustable time delay. In the TWICE A DAY MODE, the solenoid will open the first time the on-line screen is called to run after an operator adjustable time of day is reached and again 12 hours later. The same operator setpoint used to govern the open duration during the ONCE A DAY MODE shall be used in the TWICE A DAY MODE. In the CONTINUOUSLY mode, the solenoid will remain open.					
D INTERLOCKS None					

Material

Item	Description	Qty	Unit Price	Extended Price
1		0	\$0.00	\$0.00
2		0	\$0.00	\$0.00
				Subtotal: \$0.00
				Markup: 15.00% \$0.00
				Sales w/o Tax: \$0.00
				Sales Tax: 7.75% \$0.00
				Total Material Cost: \$0.00

Non-Taxable Labor

Item	Description	Resource	Hrs	Rate	Extended Price



**Trimax Systems, Inc.
Change Order Request**

Job Name		Customer P.O. Number			
VVWRA Subregional Plants		T1139-50			
To:	Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069	Change Order Request: COR-44			
Attn:	Steve Vickers	Date: 7/28/2017			
		Reference	DC-074R		
1	Review, plan and coordinate changes - Both Sites	Prog	2.00	160.00	\$320.00
2	Update panel I/O drawings - Both Sites	Des Eng	2.00	160.00	\$320.00
3	O&M Manual Modifications HWRP	Des Eng	2.00	160.00	\$320.00
3	O&M Manual Modifications AVWRP	Des Eng	1.00	160.00	\$160.00
4	Update loop drawings HWRP (1 dwg)	Des Eng	3.00	160.00	\$480.00
5	Update loop drawings AVWRP (1 dwg)	Des Eng	3.00	160.00	\$480.00
6	Add PLC program for HWRP	Prog	6.00	160.00	\$960.00
7	Add PLC program for AVWRP	Prog	4.00	160.00	\$640.00
8	Add HMI program for HWRP	Prog	1.50	160.00	\$240.00
9	Add HMI program for AVWRP	Prog	1.50	160.00	\$240.00
10	Add SCADA app for HWRP	Prog	1.50	160.00	\$240.00
11	Add SCADA app for AVWRP	Prog	1.50	160.00	\$240.00
12	Loop testing - Both Sites	Fld Eng	4.00	110.00	\$440.00
12	Operational testing - Both Sites	Prog	4.00	160.00	\$640.00
Total Non-Taxable Labor Cost:			37.00		\$5,720.00

Other Direct Costs

Item	Description	RT Miles	Qty	Unit Price	Extended Price
1	Mileage		1	\$0.62	\$0.00
2	Freight		1	\$0.00	\$0.00
3	Delivery to job site		1		\$0.00
4	Lodging				\$0.00
5	Per Diem			\$75.00	\$0.00

Total Other Direct Costs: \$0.00

Complete price for the scope of work described herein: \$5,720.00

TOAV Cost - \$2,720.00	COH Cost - \$3,000.00
WML Markup - \$408.00	WML Markup - \$450.00
WML Bond - \$31.28	WML Bond - \$34.50
WML Total - \$3,159.28	WML Total - \$3,484.50



**Trimax Systems, Inc.
Change Order Request**

Job Name	Customer P.O. Number
VVWRA Subregional Plants	T1139-50
To: Southern Contracting Co. 559 N. Twin Oaks Valley Rd. San Marcos, CA 92069	Change Order Request: COR-44 Date: 7/28/2017
Attn: Steve Vickers	Reference DC-074R

Exclusions:

1. Mounting stanchion, mounting plate.
2. Materials for installation.
3. Additional PLC I/O modules to accommodate new I/O.
4. Installation of furnished equipment.

This scope letter represents Trimax Systems, Inc. entire proposed scope of work. Unless otherwise noted, no goods or services, other than those specifically described herein, are included or implied.

Quoted prices are valid for 90 days.

If you have any questions regarding this matter, please contact the undersigned.

Very truly yours,

Marty McLaughlin
Project Manager
Trimax Systems, Inc.

Cell Ph. - 714-595-1269
brianb@trimaxsystems.com

PCO # 109

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

**TOAV - Process Blower Floor
Supported Intake Pipe Support**

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 02/08/2018
Submitted To: EADOC-VVWRA-Sub-R -
Alton Anderson, VVWRA-Sub-R
- Ted Luiten, W M Lyles Co
Revision Date:
Status: Pending
Priority: High
Internal Priority: High
Pending On User: EADOC-VVWRA-Sub-R -
Alton Anderson
Pending On Org: Victor Valley Wastewater
Reclamation Authority, W M
Lyles Co

Created By: MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds
Created: 02/01/2018

Contractor's PCO #: 109

Reason: Unforeseen / Changed Site Conditions
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 813,182.33
Amount Added: 10,908.52
New Approved Amount: 824,090.85
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

PCO # 109

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Proposed Design Change Summary:

Process Blower generate a low frequency wave, which is currently resonating into floor slab via the hanger pipe support system. This annoying vibration and noise has been detected when blower #1 is in operation and in operation at different speeds of the blower. The vibration and annoying noise is most disturbing in the stairwell and air-plenum room of the building.

Please provide a floor mounted pipe support with six inch diameter post support bolted to the floor of the building with a B-Line, type B3093 pipe saddle and ¼" rubber spacer between the pipe and saddle. The existing clevis hanger support w/bracing to remain in place for seismic vertical and lateral support (loose fit nuts on vertical all-thread rod) see figure attached. Location, each blower at northwest corner of blower

Locations

Element A1 - Apple Valley WRP - Vol4 - 11 - Process Blowers

References

Specification 15061 Pipe Supports	Published
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Files

Process Blower Vibration - Pipe Support.pdf	132.86 KB
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Contractor

Signature	Print Name	Date
-----------	------------	------

Construction Manager

Signature	Print Name	Date
-----------	------------	------

Owner

Signature	Print Name	Date
-----------	------------	------

PCO TOAV 109 - Evaluation Summary - OH&P

Item	Description	Estimated Cost Change	%	Adjusted Cost Change
1	Labor	\$ 3,939.35		\$ 3,939.35
2	Materials	\$ 5,129.00		\$ 5,129.00
3	Equipment	\$ 323.40		\$ 323.40
				\$ -
	Total	\$ 9,391.75		\$ 9,391.75
	Markup	\$ 1,408.76	15%	\$ 1,408.76
	Subtotal	\$ 10,800.51		\$ 10,800.51
Subs				
4		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
		\$ -		\$ -
	Subcontract Subtotal	\$ -		\$ -
	Subcontractor Bond & Ins	\$ -	1%	
	Subtotal	\$ -		\$ -
	GC-Subcontractor Markup	\$ -	5%	\$ -
	Total	\$ 10,800.51		\$ 10,800.51
	Subcontractor OH&P		15%	\$ -
	Subcontractor Bond & Ins		1%	\$ -
	GC Bond & Ins	\$ 108.01	1%	\$ 108.01
	Total	\$ 10,908.52		\$ 10,908.52



California Contractor's License No. 422390

Southern Division - **Temecula Office**
 42142 Roick Drive
 Temecula, CA 92590
 Telephone (951) 973-7393
 Fax (951) 698-3031

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February 8, 2018

Victor Valley Wastewater Reclamation Authority
 20111 Shay Rd.
 Victorville, CA 92394

Attn: Alton Anderson

Project: Sub-Regional Water Reclamation Plants Project

Subject: TOAV-109 Added Pipe Supports for Aer Blower Piping

Dear Mr. Anderson,

W.M. Lyles Co. (WML) received direction from VVWRA to add three pipe supports for on the inlet blower piping on the Aeration Blowers. WML deems this change to be additional work and the cost for this change is ~~\$10,909~~. The breakdown of this amount is attached.

\$10,908.52

WML does expect this change order to delay the completion of the project. WML reserves the right to include this extra work in a future analysis to determine cumulative impact from multiplicity of change, should they occur.

If you have any questions concerning the information, or require any additional information, please feel free to contact me.

Sincerely,

Grant Gourley
 Project Executive
 W.M. Lyles Co.

W. M. Lyles Co.
 42142 Roick Drive
 Temecula, CA 92590

Date: 8-Feb-18

Reference #:

Attention: Alton Anderson

Project: VVWRA Subregional Plants Project

Description: TOAV-109 Pipe Supports on Aeration Blower

Item:	Unit	Total MH	MH Cost	Total MH Cost	Eq. Cost	Material	Subcont.	Total Cost
TOAV-109 Pipe Supports on Aeration Blower	LS	56	-	\$ 3,939.35	\$ 323.40	\$ 5,129.00	\$ -	\$ 9,391.75
Total Costs		56		\$ 3,939.35	\$ 323.40	\$ 5,129.00	\$ -	\$ 9,391.75

Subtotal	\$	9,391.75
Mark-up - Labor	\$	590.90
Mark-up - Equipment	\$	48.51
Mark-up - Materials	\$	769.35
Mark-up - Subcontractor	\$	-
Bond	\$	108.01
Total This Change Order	\$	10,909.00

Comments:

VVWRA Subregional Plants Project
 TOAV-109 Pipe Supports on Aeration Blower

2/8/2018

A. Labor

0.00

Description	Op FM	Op	Lab FM	Lab	Carp	CM				
Install Supports	8			16	32					
	8	0	0	16	32	0		0		0

Name	Rate	Hours	Extension
Op FM	\$84.63	8	\$677.02
Op	\$81.99	0	\$0.00
Lab FM	\$67.55	0	\$0.00
Lab	\$65.23	16	\$1,043.61
Carp	\$69.33	32	\$2,218.72
CM	\$67.98	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
0	\$0.00	0	\$0.00
		56	
Total Labor =			\$3,939.35

B. Equipment

Description	15.205	18.284	15.184	18.254	35.066	18.278	31.012	30.045	30.628
Pickup	12								
	12	0	0	0	0	0	0	0	0

Number	Description	Rate	Hours	Extension
15.205	Truck	\$26.95	12	\$323.40
18.284	Yard Truck	\$26.95	0	\$0.00
15.184	Truck	\$26.95	0	\$0.00
18.254	Truck	\$26.95	0	\$0.00
35.066	Loader	\$142.00	0	\$0.00
18.278	Truck	\$26.95	0	\$0.00
30.045	John Deere Backhoe	\$58.53	0	\$0.00
30.628	CAT Rental Backhoe	\$39.56	0	\$0.00
31.012	Skidsteer	\$30.00	0	\$0.00
Total Equipment =				\$323.40

C. Materials

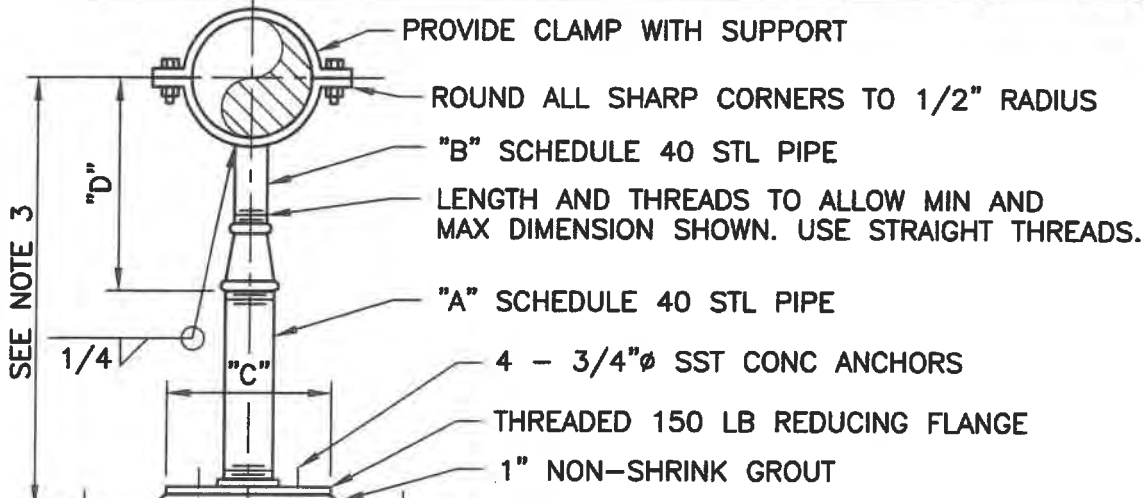
	Quantity	Unit	Price	Extension
Pipe Supports	3	EA	\$1,493.00	\$4,479.00
Anchor Bolts	12	EA	\$25.00	\$300.00
Grout	1	LS	\$150.00	\$150.00
Neoprene	1	LS	\$200.00	\$200.00
				\$0.00
Total Material =				5,129.00

D. Subcontractor

	Quantity	Unit	Price	Extension
				\$0.00
				\$0.00
				\$0.00
				\$0.00
Total Subcontract =				\$0.00

ADJUSTABLE PIPE SADDLE SUPPORT SCHEDULE					
DIMENSIONS IN INCHES:					
SIZE OF SUPPORTED PIPE	PIPE SIZE "A"	PIPE SIZE "B"	"C"	"D"	
				MINIMUM	MAXIMUM
2 1/2 *	2 1/2	1 1/2	9	8	13
3	2 1/2	1 1/2	9	8 1/2	13 1/2
3 1/2	2 1/2	1 1/2	9	8 1/2	13 1/2
4	3	2 1/2	9	9 1/2	14
6	3	2 1/2	9	10 1/2	15 1/2
8	3	2 1/2	9	11 1/2	16 1/2
10	3	2 1/2	9	13 1/2	18 1/2
12	3	2 1/2	9	15	19 1/2
14	4	3	11	16 1/2	20 1/2
16	4	3	11	17 1/2	22 1/2
18	6	3 1/2	13 1/2	19 1/2	24
20	6	3 1/2	13 1/2	21	25 1/2
24	6	4	13 1/2	23 1/2	28 1/2
30	6	4	13 1/2	27	31 1/2
32	6	4	13 1/2	28 1/2	32 1/2
36	6	4	13 1/2	30 1/2	34 1/2

6 EA
20" Stl Pipe
12' Tall



- NOTES:**
- HOT-DIP GALVANIZE SUPPORT AFTER FABRICATION.
 - * USE 2 1/2" SUPPORTS FOR PIPES LESS THAN 2 1/2"Ø
 - HEIGHT SHOULD NOT EXCEED 3 FEET WITHOUT PROVISIONS FOR LATERAL BRACING. FOR SUCH PROVISIONS SEE MECHANICAL DRAWINGS

P624 ADJUSTABLE PIPE SUPPORT

TYP NS

05-16-09

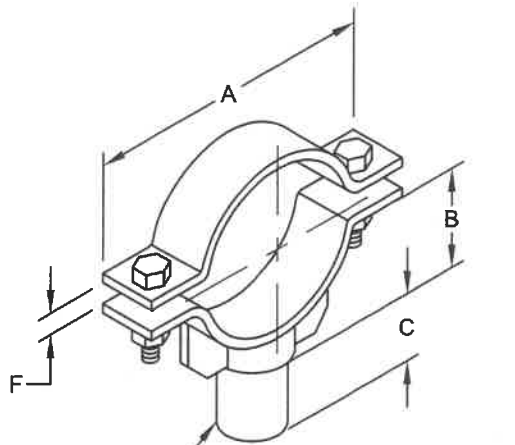
TRIPAC FIG. TP-811 PIPE SADDLE WITH STRAP

SIZE RANGE-4" THRU 36" PIPE

SERVICE-DESIGNED FOR SUPPORTING PIPE FROM FLOOR STANCHION. TOP CLAMP HOLDS PIPE SECURELY IN PLACE.

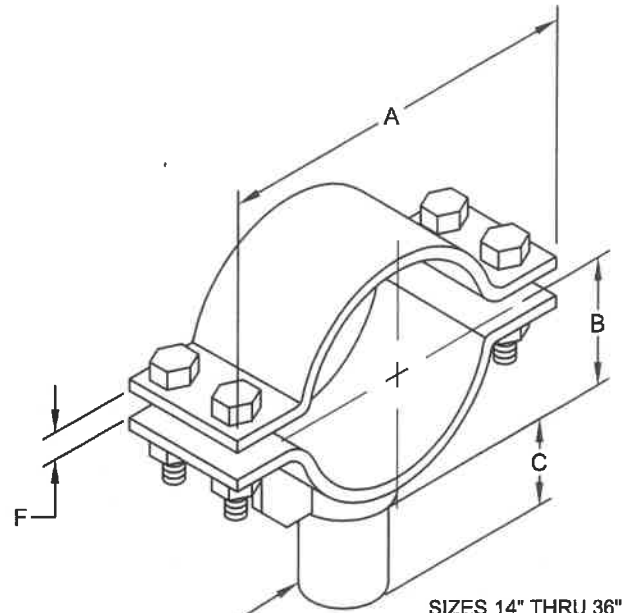
**MATERIAL-CARBON STEEL, T-304 AND T-316
FINISHES-PLAIN, ELECTRO-GALVANIZED, HDG**

8" AND LARGER WILL HAVE GUSSETS



D-SHANK WILL FIT INTO E SIZE SCH. 40 PIPE

SIZES 4" THRU 12"



D-SHANK WILL FIT INTO E SIZE SCH. 40 PIPE

SIZES 14" THRU 36"

DIMENSIONS

PIPE SIZE	A	B	C	D	E	F	BOLT SIZE
4"	7"	3-13/16"	2"	2-3/8"	2-1/2"	3/4"	1/2"
5"	8-5/8"	4-3/16"	2"	2-3/8"	2-1/2"	3/4"	1/2"
6"	11"	4-7/8"	2"	2-3/8"	2-1/2"	7/8"	5/8"
8"	13-7/8"	6-15/16"	2"	2-3/8"	2-1/2"	1"	5/8"
10"	16"	7-15/16"	2"	2-3/8"	2-1/2"	1"	3/4"
12"	18-1/4"	9-1/8"	3"	2-3/8"	2-1/2"	1"	3/4"
14"	19-3/4"	10-1/2"	3"	2-7/8"	3"	1-1/8"	3/4"
16"	22-3/4"	11-1/2"	3"	2-7/8"	3"	1-1/8"	3/4"
18"	25-1/16"	13-1/2"	4"	3-3/4"	4"	1-1/4"	3/4"
20"	27-3/4"	14-1/2"	4"	3-3/4"	4"	1-3/8"	3/4"
22"	29-3/4"	15-1/2"	4"	3-3/4"	4"	1-3/8"	3/4"
24"	32-3/8"	17-1/2"	4"	3-3/4"	4"	1-5/8"	7/8"
26"	35"	18-1/2"	4"	3-3/4"	4"	2"	7/8"
30"	39-3/8"	20-5/8"	4"	3-3/4"	4"	2"	7/8"
32"	41-3/8"	21-5/8"	4"	3-3/4"	4"	2"	7/8"
36"	45-3/8"	23-5/8"	4"	3-3/4"	4"	2"	7/8"

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TRIPAC FIG. TP-816 PIPE STAND TRIPAC FIG. TP-816T THREADED PIPE STAND

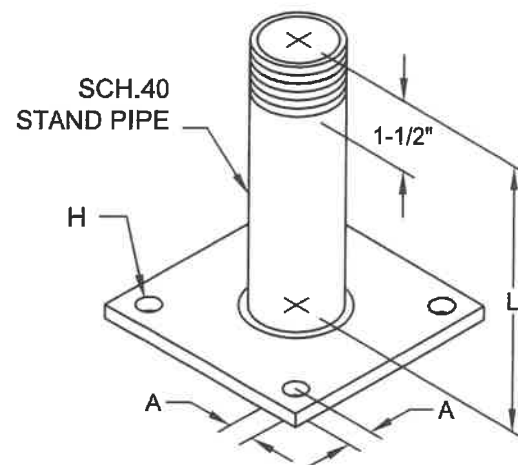
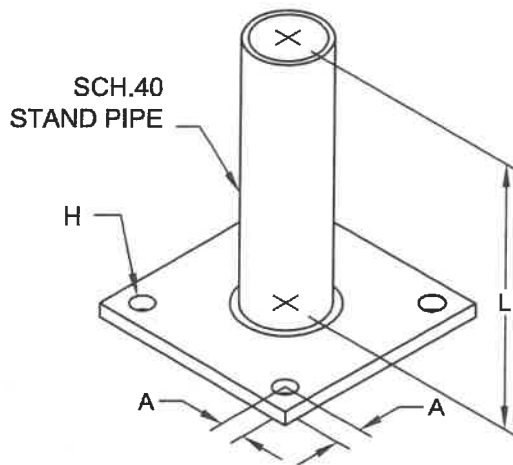
SIZE RANGE-1" THRU 8" PIPE

SERVICE-DESIGNED TO PROVIDE A SUPPORT BASE FOR FLOOR STANCHION SUPPORT. USE WITH SADDLES TP-811, TP-814, TP-817, TP-818 AND WHEN VERTICAL ADJUSTMENT IS NEEDED USE TP-819 PIPE ADJUSTER.

MATERIAL-CARBON STEEL, T-304 AND T-316

FINISHES-PLAIN, ELECTRO-GALVANIZED, HDG

"L" DIMENSION FROM TOP OF PIPE TO TOP OF PLATE



DIMENSIONS & WEIGHTS

STAND PIPE SIZE	A	H	PLATE SIZE	APPROX. WT./100
1"	1"	1/2"	6" SQ.	423
1-1/4"	1"	1/2"	6" SQ.	482
1-1/2"	1"	1/2"	6" SQ.	525
2"	1"	1/2"	6" SQ.	748
2-1/2"	1-1/8"	5/8"	8" SQ.	1377
3"	1-1/8"	5/8"	9" SQ.	1555
4"	1-1/4"	3/4"	11" SQ.	2514
6"	1-1/2"	7/8"	14" SQ.	4469
8"	1-1/2"	1"	16" SQ.	10120

* WEIGHT IS BASED ON "L" DIMENSION OF 1'-0"

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TRIPAC FIG. TP-819 THREADED PIPE ADJUSTER

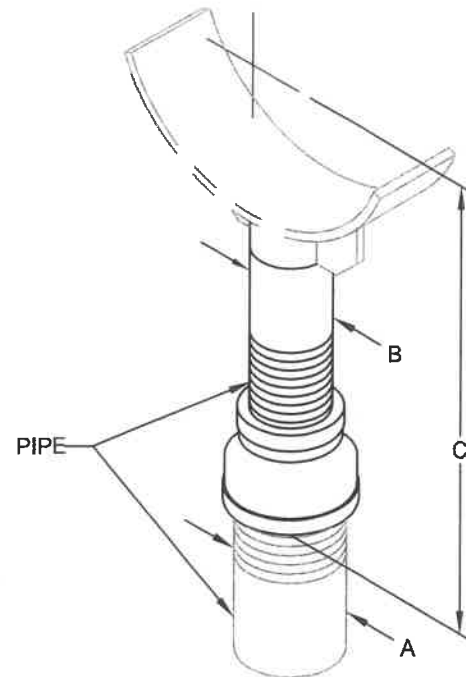
SIZE RANGE-FOR USE WITH 2-1/2" THRU 36" PIPE

SERVICE-DESIGNED TO PROVIDE UP TO 4-1/2" OF VERTICAL ADJUSTMENT AFTER INSTALLATION. TYPICALLY USED IN CONJUNCTION WITH TP-816T PIPE STAND AND TP-811, TP-814, TP-817 & TP-818 PIPE SADDLES.

MATERIAL-CARBON STEEL, T-304 AND T-316

FINISHES-PLAIN, ELECTRO-GALVANIZED, HDG

COMPLIES WITH FEDERAL SPECIFICATION WW-H-171-E (TYPE #39 2-1/2" THRU 36") AND MANUFACTURERS STANDARDIZATION SOCIETY MSS AND SP-69 (TYPE #38), WHEN USED WITH PIPE STAND AND PIPE SADDLE.



DIMENSIONS & WEIGHTS

ADJUSTER SIZE	PIPE SIZE	MAX. O.D. OF PIPE	A PIPE SIZE	B PIPE SIZE	C MIN.	C MAX.	APPROX. WT./100
1-1/2" x 2-1/2"	2-1/2"	2-7/8"	2-1/2"	1-1/2"	7"	11-1/2"	304
1-1/2" x 2-1/2"	3"	3-1/2"	2-1/2"	1-1/2"	7-5/16"	11-13/16"	304
1-1/2" x 2-1/2"	3-1/2"	4"	2-1/2"	1-1/2"	7-9/16"	12-1/16"	304
2-1/2 x 3"	4"	4-7/8"	3"	2-1/2"	10-1/4"	14-3/4"	793
2-1/2 x 3"	5"	5-5/8"	3"	2-1/2"	11-1/16"	15-9/16"	793
2-1/2 x 3"	6"	7"	3"	2-1/2"	11-9/16"	16-1/16"	793
2-1/2 x 3"	8"	9-1/8"	3"	2-1/2"	13-9/16"	18-1/16"	793
2-1/2 x 3"	10"	11-1/8"	3"	2-1/2"	14-5/8"	19-1/8"	793
2-1/2 x 3"	12"	13-1/2"	3"	2-1/2"	15-5/8"	20-1/8"	793
3" x 4"	14"	14"	4"	3"	18-7/8"	23-3/8"	1220
3" x 4"	16"	16"	4"	3"	19-7/8"	24-3/8"	1220
4" x 6"	18"	18"	6"	4"	22-1/4"	26-3/4"	2248
4" x 6"	20"	20"	6"	4"	23-1/4"	27-3/4"	2248
4" x 6"	22"	22"	6"	4"	24-1/4"	28-3/4"	2248
4" x 6"	24"	24"	6"	4"	26-1/2"	31"	2248
4" x 6"	26"	26"	6"	4"	27-1/2"	32"	2248
4" x 6"	30"	30"	6"	4"	29-5/8"	24-1/8"	2248
4" x 6"	32"	32"	6"	4"	30-5/8"	35-1/8"	2248
4" x 6"	36"	36"	6"	4"	32-5/8"	37-1/8"	2248

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PCO # 110

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

TOAV - Credit for Unused Allowance - Line Item A14 MBR Electrical

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 02/27/2018
Submitted To: MWH Constructors, Victor Valley Wastewater Reclamation Authority, W M Lyles Co
Revision Date:
Status: Pending
Priority: Low
Pending On Org: Victor Valley Wastewater Reclamation Authority, W M Lyles Co

Created By: MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds
Created: 02/27/2018

Contractor's PCO #:

Reason: Owner Request
Requested By: Owner

Change Date:
Schedule ID:
Not to Exceed \$: 5,439.95
Set:

Approved Thru Last: 813,182.33
Amount Added: -5,439.95
New Approved Amount: 807,742.38
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

PCO # 110

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Proposed Design Change Summary:

Contract Bid Documents included a line item amount of \$50,000 for the installation of electrical related equipment and conduit in the membrane basin area. This credit change order is for the amount of \$5,439.95 of unused funds.

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

PCO # 111

Sub-Regional WRP Projects
Sub Regional WRP Projects



Printed 03/01/2018, Page 1 of 2

**TOAV - Credit for Unused
Allowance - Line Item C1 Owners
Reserve Allowance**

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 02/27/2018
Submitted To: MWH Constructors, Victor Valley Wastewater Reclamation Authority, W M Lyles Co
Revision Date:
Status: Pending
Priority: Low
Pending On Org: Victor Valley Wastewater Reclamation Authority, W M Lyles Co

Created By: MWH Constructors, EADOC-VVWRA-Sub-R - Charles Reynolds
Created: 02/27/2018

Contractor's PCO #:

Reason: Owner Request
Requested By:

Change Date:
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 813,182.33
Amount Added: -942.21
New Approved Amount: 812,240.12
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

PCO # 111

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

Proposed Design Change Summary:

Contract Bid Documents included a line item amount of \$500,000 for miscellaneous work required during the completion of the project to be used at the discretion of the Owner and Owner's representatives. This credit change order is for the amount of \$942.51 of unused funds.

Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date

PCO # 112Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 1 of 2

**TOAV - Additional Programming,
Percolation Pond SCADA**

Type: RFC - Request for Change
Contract: 10942 - Apple Valley
Contractor: W M Lyles Co
ISO Currency Code: USD
Purchase Order: Contract # 10942 - Apple Valley

Submitted : 02/27/2018
Submitted To: MWH Constructors, Victor Valley
Wastewater Reclamation Authority, W
M Lyles Co
Status: Pending
Priority: Low
Internal Priority: Low
Pending On Org: MWH Constructors, Victor Valley
Wastewater Reclamation Authority

Created By: MWH Constructors, EADOC-VWRA-Sub-R - Charles Reynolds
Created: 02/27/2018

Contractor's PCO #:

Reason: Design Errors
Requested By: Contractor

Change Date: 02/15/2018
Schedule ID:
Not to Exceed \$: 0.00
Set:

Approved Thru Last: 813,182.33
Amount Added: 6,975.86
New Approved Amount: 820,158.19
Current Contract Duration: 821
Days Added: 0
New Contract Duration: 821

Budget :
Funding:
Cost Item:

Proposed Design Change Summary:

During testing of the SCADA/PLC programming for the Apple Valley Golf Course Irrigation and Percolation Ponds it was discovered that contract programming had placed the Irrigation Pond as the primary discharge point for receiving treated

PCO # 112

Sub-Regional WRP Projects
Sub Regional WRP Projects

Printed 03/01/2018, Page 2 of 2

effluent from the Apple Valley WRP facility. The completed SCADA/PLC program required last minute modifications to the previously completed and approved program.

References

Correspondence # 156	Perc Pond Programming	Pending
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Contractor		
Signature	Print Name	Date
Construction Manager		
Signature	Print Name	Date
Owner		
Signature	Print Name	Date



COR – Change Order Request - Trimax Systems COR No. 54

To: WM Lyles 42142 Rock Drive Temecula, CA 92590 Attention: Grant Gourley	Date: February 26, 2018 Job No.: P-2192 Project: VVWRA Sub-regional Water Reclamation Plants
From: Marty McLaughlin	Date Required: February 22, 2018 Supporting Docs: DC94R1 Interlocks // AV Golf Course

Cost Impact Comments	Amount	Schedule Impact Comments	Extension Days
Time and Material	\$6,005.92	Complete as of 2-22-2018	N/A

Subject: Time and Material as required

Date	Day	Eng/Tech	Hours		Reg	Overtime		Mileage			Totals	
			Travel	On-Site		Hours	Rate	To Site	From Site	IRS + 15%		
2/14/2018	Wednesday	Maria	0	5.5	5.5	\$160.00	0	\$240.00	0	0	\$ 0.62	\$ 880.00
2/15/2018	Thursday	Maria	0	3	3	\$160.00	0	\$240.00	0	0	\$ 0.62	\$ 480.00
2/21/2018	Wednesday	Maria	0	8	8	\$160.00	0	\$240.00	0	0	\$ 0.62	\$ 1,280.00
2/21/2018	Wednesday	Marvin	3	7	8	\$110.00	2	\$165.00	79	79	\$ 0.62	\$ 1,307.96
2/22/2018	Thursday	Maria	0	4	4	\$160.00	0	\$240.00	0	0	\$ 0.62	\$ 640.00
2/22/2018	Thursday	Mervin	3	7	8	\$110.00	2	\$165.00	79	79	\$ 0.62	\$ 1,307.96
2/22/2018	Thursday	Brian B.	0		1	\$110.00	0	\$165.00	0	0	\$ 0.62	\$ 110.00
Reference P-2192 COR-54											\$ 6,005.92	

Please issue a change order for \$6,005.92

WML Markup - \$900.88
WML Bond - \$69.06
WML Total - \$6,975.86



VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
Report/Recommendation to the Board of Commissioners
 March 19, 2018

FROM: Logan Olds, General Manager *Lo*
TO: Board of Commissioners
SUBJECT: Recommendation to Increase the Existing Professional Services Agreement with MWH Constructors by \$95,239.00 for FINAL CM Services for the Subregional Project

RECOMMENDATION

It is recommended that the Board of Commissioners approve a FINAL increase of the existing Professional Services Agreement (PSA) for Construction Management Services for the Subregional Project with MWH Constructors by \$95,239.00 for additional services for the Subregional Project in accordance to their Amendment No. 4 Proposal dated January 3, 2018. This brings the PSA to a total of \$4,287,729.00.

REVIEW BY OTHERS

This recommendation has been prepared by Logan Olds, General Manager and reviewed by Piero Dallarda, Legal Counsel and the Engineering Committee including Tim Millington, David Burket, Brian Gengler and Greg Snyder.

BACKGROUND INFORMATION

Upon review by the VVWRA Engineering Committee it was the consensus of the members to place this staff recommendation for Amendment No. 4 before the VVWRA Board for approval.

The Subregional Project to construct Water Reclamation Plants in the City of Hesperia and the Town of Apple Valley is complete. VVWRA staff are currently performing operational testing. This FINAL contract increase request addresses the extended duration of the construction project and providing services for commissioning and startup.

The original agreement and amendments are tabulated below:

Description	Amount	Contract Total	Time
Original Agreement	\$2,985,730	\$2,985,730	Jan-17
Amendment No. 1	\$203,957	\$3,189,687	--
Amendment No. 2	\$577,987	\$3,767,674	9-Sep-17
Amendment No. 3	\$424,816	\$4,192,490	31-Dec-17
Amendment No. 4	\$95,239	\$4,287,729	28-Feb-18
Total Contract		\$4,287,729	38 Months

The details of the proposed Amendment No. 4 are described in the attached letter dated 3 January 2018.

Extended Services due to Construction Schedule

The Final Completion was previously scheduled for December 31, 2018. Currently the Hesperia and the Apple Valley WRP's are complete as of 28 February 2018 and VVWRA staff are conducting performance testing.

Additional Services for Commissioning

In the separation of duties for the ESDC and CM services the commissioning of the plants left out adequate services to complete the commissioning. Inspection services are increased in this amendment to fill this need. This is a critical area to make certain that the plants will be operational, conform to the functional

Staff has reviewed and negotiated with MWH Constructors on these items while trying to maintain the necessary level of services. The VVWRA Engineering Committee and VVWRA Staff met on 5 March 2018. Staff presented a summary and responded to the committee questions. The Committee evaluated the request and agreed that this request be presented as Amendment No. 4 to the Board.

Attached is the proposal from MWH Constructors dated 3 January 2018. Staff and the Engineering Committee are recommending that the Board approve this proposed increase to the Professional Services Agreement in the amount of \$95,239.00.

FINANCIAL IMPACTFinance Approval:

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

Fund 09	
Accounting Code (String) example: 09-xx-xxx-xxxx (<u>mandatory</u> project code)	09-54-500-9025, C101 and 09-55-500-9025,C103
Transfer Needed due to Insufficient Budget	Y[] N[x]
If Transfer, from Which Account String or Reserve	
Budgeted Amount Where Money Comes from	\$
Budget Remaining after the Recommendation	
Outside Funding Source	SRF Loan
Original Contract Amount	\$2,985,730.00
Change Order	Y[x] N[]
Contract after Change	\$4,287,729.00

The impact is a total increase of \$95,239.00 to the Professional Service Agreement. This is a part of the Subregionals Project budget. The Hesperia portion will be charged to budget account 09-54-500-9025, C101. The Apple Valley portion will be charged to budget account 09-55-500-9025, C103. There is an already budgeted contingency in the SRF loan staff is currently negotiating with the state SRF loan staff as part of project close out to use unallocated funds from construction change order contingency for soft costs such as construction management and engineering services during construction. Overall this expense will not represent an increase in the total anticipated cost of the Subregionals Project.

RELATED IMPACTS

None



January 3, 2018

Victor Valley Wastewater Reclamation Authority
 20111 Shay Road
 Victorville, California 92394
 Attention: Mr. Alton Anderson

Reference: Hesperia Water Reclamation Plant & Apple Valley Water Reclamation Plant Projects

Subject: Proposed Amendment No. 4 for Extension of Construction Management Services

Dear Mr. Anderson:

As you know the budget for Construction Management Services expired in December 2017. Therefore, MWH Constructors (MWHC) respectfully submits the attached request for Amendment No. 4 to the existing Agreement with the Victor Valley Wastewater Reclamation Authority (VWVRA). This will provide an additional 2 months of Construction Management Services (CMS) through the project completion date of February 28, 2018. The additional time is required due to the process of Design Clarification Memorandums (DCM) and associated change orders.

Included is a summary of Construction Management of activities necessary to complete the project.

In order to meet the SRF billing period deadline of February 28, 2018, we are present this as a lump sum. It also includes Labor Compliance Monitoring per State Loan requirements and Bentley ProjectWise (EaDoc) web-based document system.

Please review and let me know if you have any questions.

Thank you,



Randy B. Lovan, Certified CM, QSP
 Area Manager - Inland Empire
 Construction Management Services
 MWH Constructors, Inc.
 300 N. Lake Avenue.
 Suite 400
 Pasadena, CA 91101
randy.lovan@mwhglobal.com
www.mwhglobal.com

Mobile: (949) 439-0423

300 North Lake Avenue
 Suite 400
 Pasadena, CA 91101

TEL 626-796-9141
 FAX 626-568-6101
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Victor Valley Wastewater Reclamation District

Project: VVWRA Subregional Water Reclamation Plants Project

Amendment 4 - Task Narrative from January 2018 to Project Completion

January 2018:

Hesperia WRP and Lift Station

- The continuation of tracking contractor field activities for quality and conformance with contract documents, review and overseeing the completion of the design engineer's generated punch-list and preparing CM's punch-list. Review and witness testing of SCADA and instrumentation devices.
- Continuing document tracking of; contractor submittals and engineer submittal response, field activity reports, preparing and negotiating cost for PCOs and final Change Orders, preparing the Hesperia December 2017 quarterly report along with the review of contractor record drawings for through accounting of work constructed.
- Overseeing the completion of change order activities; upsizing of the 2" natural gas-line to 4", AlertOne/Southern/AMS/Trimax completion of SCADA related changes relating to the fire alarm control system, Anaergia/Wedeco-UV programming changes and WM Lyses miscellaneous change orders.
- Coordination and accounting of onsite vendor activities generated from warranty work by; Aerzen (blowers), Quinn CAT (natural gas generator), Global Environmental (odor control) and Fencore (facility access gates) along with tracking delivery of 16" MBR Drain Gate Valves.
- Troubleshooting Activities – Process blower vibration-noise issues, lift station vault flooding.

Apple Valley WRP & Golf Course

- The continuation of tracking contractor field activities for quality and conformance with contract documents, review and overseeing the completion of the design engineer's generated punch-list and preparing CM's punch-list. Overseeing the completion of the tie-in of the 12" reuse water line to the 10" cleaned and converted AVFM. Review and witness testing of SCADA and instrumentation devices.
- Continuing document tracking of; contractor submittals and engineer submittal response, field activity reports, preparing and negotiating cost for PCOs and final Change Orders, preparing the Apple Valley December 2017 quarterly report along with the review of contractor record drawings for through accounting of work constructed.
- Overseeing the completion of change order activities; AlertOne/Southern/AMS/Trimax completion of SCADA related changes relating to the fire alarm control system, Anaergia/Wedeco-UV programming changes and WM Lyses miscellaneous change orders.
- Coordination and accounting of onsite vendor activities generated from warranty work by; Aerzen (blowers), MISCO Water (automated valves) and Fencore (facility access gates) along with tracking delivery of 16" MBR Drain Gate Valves. Coordination between Southwest Gas and Quinn CAT (natural gas generator) final testing and startup.



- Troubleshooting Activities – Process blower vibration-noise issues, WAS/Otoe LS discharge pressure issues.

February 2018:

Hesperia WRP and Lift Station

- Review and witness testing of SCADA and instrumentation devices.
- Continuing document tracking; contractor submittals and engineer submittal responses and negotiating cost for PCOs and final Change Orders. Along with overseeing repair, replacement of items noted on Owner/CM generated punch-list.
- Overseeing the completion of WM Lyses miscellaneous change orders.
- Coordination; tracking delivery of 16" MBR Drain Gate Valves. Coordination of training with Eaton for electrical switchgear and ATS equipment.

Apple Valley WRP & Golf Course

- Review and witness testing of SCADA and instrumentation devices.
- Continuing document tracking; contractor submittals and engineer submittal responses and negotiating cost for PCOs and final Change Orders. Along with overseeing repair, replacement of items noted on Owner/CM generated punch-list.
- Overseeing the completion of change order activities; AlertOne/Trimax SCADA related changes relating to the fire alarm control system, and WM Lyses miscellaneous change orders.
- Coordination; tracking delivery and installation of the two 16" MBR Drain Gate Valves. Coordination of training with Eaton for electrical switchgear and ATS equipment.
- Coordination and troubleshooting Apple Valley communication and programming issues.


March 2018:

Hesperia WRP and Lift Station

- Completion of witness testing of SCADA and instrumentation devices.
- Coordination and overseeing installation of the two 16" MBR Drain Gate Valves.
- Completion of document tracking; contractor submittals and engineer submittal responses and preparing Final Change Orders.
- Project Close-Out Reports

Apple Valley WRP & Golf Course

- Completion of witness testing of SCADA and instrumentation devices.
- Completion of document tracking; contractor submittals and engineer submittal responses and preparing Final Change Orders.
- Coordination and Troubleshooting issues with Fine Screens.
- Project Close-Out Reports

 MWH Constructors			
Victor Valley Wastewater Reclamation Authority Sub Regional Water Reclamation Plant Projects Amendment No. 4 Provide Additional Construction Management Services			
January 3, 2018			
Cost Proposal Summary			
Description		2018	Project
TASK A - MWHC Labor			
Contract No.: 10942 - Town of Apple Valley Sub Regional			
Labor Hours		672	672
Labor Cost		\$ 57,152	\$ 57,152
Contract No.: 10943 - City of Hesperia Sub Regional			
Labor Hours		208	208
Labor Cost		\$ 19,328	\$ 19,328
Subtotal Cost			\$ 76,480
ODC's			
Contract No.: 10942 - Town of Apple Valley Sub Regional			
*Billable ODCs	LS	\$ 5,000.00	\$ 5,000
Golden State Labor Compliance	LS	\$ 7,916.00	\$ 7,916
Bentley ProjectWise (EaDoc)		\$ 4,950.00	\$ 4,950
5 % Markup		\$ 893	\$ 893
Contract No.: 10943 - City of Hesperia Sub Regional			
*Billable ODCs	LS.	\$ -	\$ -
Golden State Labor Compliance	LS.	\$ -	\$ -
Bentley ProjectWise (EaDoc)	LS.	\$ -	\$ -
5 % Markup		\$ -	\$ -
Subtotal Cost			\$ 18,759
Total Cost Proposal			\$ 95,239
Average Labor Cost/Hour/Year		880	\$ 86.91
Inclusions			
All personnel shall be assigned: laptop computer, cell phone, personal safety equipment (PPE), safety equipment to perform duties except Confined Space Entry. *5% markup included in cost.			
Exclusions			
Refer to the attached Construction Management Services - Standard Clarification for Fee Proposal			



AMENDMENT NO. 4 RESOURCES SUMMARY
 VVWRA WRP Project Elements A & B

Additional CM Services from December 2017 to February 2018

January 3, 2018

Position Description	Person	2018	Year	2018												Total Estimated Hrs
		Hourly Rate	Quarter	Qtr 1			Qtr 2			Qtr 3			Qtr 4			
				1	2	3	4	5	6	7	8	9	10	11	12	
Program Staff			Month	JAN 21	FEB 19	MAR 22	APR 21	MAY 22	JUN 21	JUL 21	AUG 23	SEP 19	OCT 22	NOV 20	DEC 20	
			Workdays													
			Firm													
Agile Valley WRP - Project Element A	Burrola, Jaime		MWH	252	282	168	0	0	0	0	0	0	0	0	0	672
Project Representative - Elem A	Lovan, Randy	\$176.00	MWH	12	12	8										32
Schedule Analyst	Murray, Jordy		MWH													
Resident Engineer	Reynolds, Charles	\$135.00	MWH	120	120	80										320
Resident Engineer (Support)	Barton, Austin	\$134.00	MWH													
Intern - Element A	Tolbert, Steven	\$26.00	VVC	120	120	80										320
Inspector - C/S/M	Buck, Charles		MWH													
Sr. Inspector	Dismang, David		MWH													
Inspector - No. 2 E&I	Rod Warner	\$142.00	MWH													
Hesperia WRP - Project Element B				124	84	0	0	0	0	0	0	0	0	0	0	208
Project Representative - Elem B	Burrola, Jaime		MWH													
Construction Manager - Elem B	Lovan, Randy	\$176.00	MWH	4	4											8
Schedule Analyst	Murray, Jordy		MWH													
Resident Engineer	Reynolds, Charles	\$135.00	MWH	40	40											80
Resident Engineer (Support)	Barton, Austin	\$134.00	MWH													
Intern - Element B	Tolbert, Steven	\$26.00	VVC	40	40											80
Inspector - C/S/M	Owais Andrali		MWH													
Sr. Inspector	Dismang, David	\$126.00	MWH	40												40
Inspector - E&I	Rod Warner	\$142.00	MWH													
			Total Hrs.	376	336	168	0	0	0	0	0	0	0	0	0	880



MWH Constructors

VVRA - Sub Regional Water Reclamation Plant Projects Cost Proposal - Hourly Rate Schedule

January 3, 2018

Hourly Rate Schedule

Position	Name	2017 Hourly Rate
Construction Manager - Elem A	Lovan, Randy	\$176
Resident Engineer	Reynolds, Charles	\$135
Schedule Analyst	Barton, Austin	\$134
Intern - Element A	Tolbert, Steven	\$26
Sr. Inspector	Dismang, David	\$126

Construction Management Services - Standard Clarification for Fee Proposal

General:

Our proposal is based on the construction and professional scope provided in the Request for Proposal. Our final contract budget will be based on the project assignment and the attached Fee Proposal. Field staffing will be driven by project demands, confirmed by a baseline and approved by the District. All costs are subject to negotiation.

Prevailing Wage:

All Prevailing Wage requirements will be followed by the team and its subconsultants. All team members are in conformance with the State of California Labor compliance requirements.

Rates for the Construction Management Team

Rates for the CM team include computers, computer software, digital cameras, digital video cameras, cell phones and cell phone service, mail, telephone charges, technical reference materials, training and personal protective equipment (PPE) including hard hats, safety boots, work gloves, safety glasses and other PPE as required. The Hourly Rate Schedule as included in MWH's Cost Proposal list the Hourly rates for each position for the duration of the project. Overtime rate shall be billed at 1 ½ the posted rate. An annual escalation of 2.5 % per year shall apply, and/or escalations per the Federal and State Prevailing Wage Laws, whichever is greater. The Annual rate increases will be reviewed and negotiated in January of each calendar year with implementation beginning on March 1 of each calendar year.

Rates – Standard Inclusions

Rates above include vehicle mileage, computers, standard computer software, digital cameras, digital video cameras, standard cell phones and standard cell phone service including text capability, mail, general office supplies, technical reference materials, training and personal protective equipment (PPE) including hard hats, safety boots, work gloves, safety glasses and other PPE as required.

Rates – Standard Exclusions

Items excluded from the rates are overtime, printers/copiers/scanners, paper for any and all reproduction, prints, office supplies, plotting and record mapping copies, broadband service, broadband/high speed connections, delivery service, facsimile transmission, trailer rental costs, installation of utilities, cost of utilities, cost of sanitary services, janitorial, furniture, travel and per diem outside the service area for in-plant fabrication inspection. Travel costs outside the service area will be determined after receiving prior approval from the District. Reimbursement costs will be included as 'Other Direct Costs'. Services such as cost estimating, forensic scheduling and supplemental inspection not requested in the RFP are NOT included or priced herein.

Other Direct Costs

Other Direct Costs including subconsultants will be billed directly at cost plus a 5% markup. Vehicle and mileage expenses shall be billed at cost plus a 5% markup.

Payment Terms

Payment statements shall be submitted monthly. The statement will indicate the work completed and hours of service rendered during the period. The client shall, within 45 days of receiving such statement review the statement and pay all approved charges thereon.

Legal

All subconsultants will be bound to the final terms and conditions of the prime agreement.

Geotechnical and Materials Testing Services

Geotechnical and Materials Testing Service fees are NOT included in the scope of services. The coordination of these services is included in our scope of services.

Survey Baseline Control

Survey services and fees are NOT included in the scope of services. The coordination of these services is included in our scope of services.

Field Office

Cost for field office shall be paid by the contractor and NOT included.

Victor Valley Wastewater Reclamation Authority



Financial and Cash Report

February 2018

Victor Valley Wastewater Reclamation Authority
CASH AND RESERVE SUMMARY
 March 5, 2018

G/L Account	Description	Balance
1000	DCB Checking Account	\$ 1,113,000
1030	DCB Sweep Account	627,952
1075	Cal TRUST	3,090,433
1070	LAIF	1,535,039
	Total Cash	\$ 6,366,424

Reserves:	Current Balance	Restricted	Assigned	Not Assigned
Targeted Capital Reserve	\$ -	\$ -	\$ -	\$ -
O&M Reserve: 10% of Prior Year Budgeted Operating Expenses	-	-	1,081,523	-
R&R Reserve: 1% of Land Improvements/Plants/Interceptors PY CAFR	700,000	-	1,670,006	-
Reserve for SRF Payments (P& I) - Operating	2,819,883	2,819,883	-	-
Reserve for SRF Payments (P& I) - Capital	2,431,926	2,431,926	-	-
Available for O&M	414,615	-	-	-
Total Cash	\$ 6,366,424	\$ 5,251,809	\$ 2,751,529	\$ -

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	178,764	640,818	960,452	\$ 2,819,883
Reserve for SRF Payments (P& I) - Capital	1,348,576	-	59,588	409,703	614,059	2,431,926
	\$ 2,130,680	257,745	238,352	1,050,521	1,574,511	\$ 5,251,809

Note 2: PROJECTS AND FUNDING:

a. Construction and Change Orders for Sub-Regional Plants	Bureau of Reclamation - Title 16 Grant	Dept. of Water Resources - Proposition 84 Grant	SWRCB SRF Loan - Hesperia	SWRCB SRF Loan - Apple Valley	SWRCB - Proposition One Grant - A.V.	SWRCB - Water Recycling Prop 13 Grant - A.V.	Total
Completion (or Termination) Dates	05/31/16	12/31/17	06/30/17	06/30/17	06/30/17	03/31/17	
Agreement Amounts	\$ 3,242,523	\$ 3,000,000	\$ 35,442,795	\$ 22,537,632	\$ 8,135,648	\$ 4,000,000	\$ 76,358,598
Claimed	(3,242,523)	(3,000,000)	(32,062,524)	(20,109,752)	(7,786,693)	(3,976,548)	(70,178,040)
Grant and Loan Balance Remaining	\$ -	\$ -	\$ 3,380,271	\$ 2,427,880	\$ 348,955	\$ 23,452	\$ 6,180,558

b. Planning and Design for Sub-Regional Plants	Bureau of Reclamation - Title 16 Grant	Dept. of Water Resources - Proposition 84 Grant	SWRCB SRF Loan - Hesperia	SWRCB SRF Loan - Apple Valley	SWRCB - Proposition One Grant - A.V.	SWRCB - Water Recycling Prop 13 Grant - A.V.	Total
Completion (or Termination) Dates	05/31/16	not applicable	06/30/17	06/30/17	06/30/17	not applicable	
Agreement Amounts	\$ 1,607,477	\$ -	\$ 5,107,160	\$ 4,535,127	\$ 1,046,193	\$ -	\$ 12,295,957
Claimed	(1,607,477)	-	(3,134,436)	(4,413,807)	(1,038,301)	-	(10,194,020)
Grant and Loan Balance Remaining	\$ -	\$ -	\$ 1,972,724	\$ 121,320	\$ 7,892	\$ -	\$ 2,101,937

c. Upper Narrows Emergency

*FEMA/Cal OES PW 1136 Revised Grant Limit - Completion 12/27/15	\$ -	7,954,740	
Eligible Cost Incurred 12/26/10 - 11/06/16		(7,750,326)	
Grant Balance Remaining	\$ -	204,414	
Funding Received or To Be Received:			
FEMA (Claims x .90 x .7500)	\$ 5,231,470		
Cal OES (Claims x .90 x .1875)	1,307,868	6,539,338	
VVWRA Share:			
VVWRA (Claims x .0625)	484,395	484,395	
10% Retention to Be Received upon Completion:			
(Claim - VVWRA portion) x .10	726,593	726,593	
	\$ -	7,750,326	

d. Upper Narrows Replacement

*FEMA/Cal OES PW 828 Grant Limit - Completion 12/27/15	\$ -	33,124,002		
Eligible Costs Incurred 04/01/11 - 08/31/16		(33,124,002)		
Grant Balance Remaining	\$ -	-		
Funding Received or Expected to Receive:				
FEMA (Claims x .90 x .7500)	\$ 22,358,701			
Cal OES (Claims x .90 x .1875)	5,589,675	27,948,377		
VVWRA Share:				
VVWRA (Claims x .0625)	2,070,250	2,070,250		
10% Retention to Be Received upon Completion:				
(Claim - VVWRA portion) x .10	3,105,375	3,105,375		
	\$ -	33,124,002		
	Incurred	Claimed	Remaining	
*SRF Loan	Construction	1,655,130	(1,655,130)	-
	Change Orders	1,825,000	(1,825,000)	-
	Soft Costs	806,250	(806,250)	-
		4,286,380	(4,286,380)	-

Victor Valley Wastewater Reclamation Authority
Statement of Net Position
February 28, 2018

<i>Assets and Deferred Outflows of Resources</i>	2018
Current assets:	
Cash and cash equivalents	\$ 13,050,980
Interest receivable	7,870
Accounts receivable	4,949,552
Receivable from FEMA Grants	4,148,183
Accounts receivable - Other	10,439
Allowance for Doubtful Accounts	(64,828)
Materials and supplies inventory	86,516
Prepaid expenses and other deposits	253,378
Total current assets	22,442,090
Fixed assets:	
Capital assets not being depreciated	84,459,832
Capital assets being depreciated	115,816,945
Total capital assets	200,276,777
Total assets	222,718,867
Deferred outflows of resources	
Deferred outflows of resources - pension	1,743,035
Total	\$ 224,461,902
<i>Liabilities, Deferred Inflows of Resources, and Net Position</i>	
Current liabilities:	
Accounts payable and accrued expenses	\$ 577,024
Accrued interest on long-term debt	75,383
Long-term liabilities - due within one year:	
Compensated absences	48,647
Loans payables	1,849,149
Other payables	6,813,575
Total current liabilities	9,363,778
Non-current liabilities:	
Long-term liabilities - due in more than one year:	
Compensated absences	219,396
Other post employment benefits payable	1,419,041
Loans payable	81,916,732
Net Pension Liability	5,011,624
Other payables	446,818
Total non-current liabilities:	89,013,611
Total liabilities	98,377,389
Deferred inflows of resources	
Deferred inflows of resources - pension	165,023
Net position:	
Net position as of 6/30/17	127,976,675
Restricted for SRF loan covenant	2,863,641
Decrease in net position FY 18	(4,683,960)
Total net position	125,919,493
Total	\$ 224,461,905

Victor Valley Wastewater Reclamation Authority
Revenues and Expenses
Operations and Maintenance
For the Month Ended February 28, 2018

	Actual February 2018	YTD Actual FY 17-18	Approved Budget FY 17-18
REVENUES			
User Charges	\$ 1,045,750	\$ 8,838,771	\$ 13,661,700
Sludge Flow Charge	8,994	71,411	137,074
High Strength Waste Surcharges	-	11,876	25,000
ADM FOG Tipping Fee Revenue	23,133	200,358	205,000
Septage Receiving Facility Charges	44,056	420,811	609,000
Reclaimed Water Sales	2,025	11,929	44,000
Potable Well Water Sales	54	643	650
Leased Property Income	50	400	600
Interest	(674,587)	(674,216)	-
Pretreatment Fees	6,200	37,100	51,200
Finance Charge	-	-	-
Grant - FEMA/Cal-EMA	-	-	747,034
Grant - Proposition 1	-	-	458,297
Grant- Water Recycling	-	-	246,466
Grant- CEC Microgrid	-	263,529	-
Sale of Assets, Scrap, & Misc Income	225	3,876	-
Total REVENUES	\$ 455,900	\$ 9,186,489	\$ 16,186,021
EXPENSES			
Personnel	\$ 250,729	\$ 2,701,153	\$ 4,086,603
Maintenance	51,603	1,022,717	2,919,360
Operations	173,243	1,647,829	3,066,985
Administrative	57,922	1,039,339	2,270,884
Construction	-	-	2,389,065
Total EXPENSES	\$ 533,497	\$ 6,411,038	\$ 14,732,897
Revenues over Expenses before Depreciation, Debt Service and Transfers	\$ (77,597)	\$ 2,775,451	\$ 1,453,124
Depreciation Expense	-	(4,724,611)	-
DEBT SERVICE			
SRF Interest	\$ -	\$ -	\$ 361,138
FUND TRANSFERS IN			
Salary/Benefits Charge from Capital	\$ 8,712	\$ 43,560	\$ -
Admin Charge from Capital	3,311	16,553	-
Total FUND TRANSFERS IN	\$ 12,023	\$ 60,113	\$ -
FUND TRANSFERS OUT			
Transfer to Repairs and Replacements Fund	\$ -	\$ -	\$ 247,500
Inter-fund loan payment to Capital	-	(3,254)	-
Total FUND TRANSFERS OUT	\$ -	\$ (3,254)	\$ 247,500
Excess Revenues Over Expenses	\$ (65,574)	\$ (1,892,302)	\$ 844,486

Victor Valley Wastewater Reclamation Authority
Revenues and Expenditures
Repairs and Replacement
For the Month Ended February 28, 2018

	Actual February 2018	YTD Actual FY 17-18	Approved Budget FY 17-18
REVENUES			
R&R Revenues	\$ -	\$ -	\$ -
Total REVENUES	\$ -	\$ -	\$ -
OTHER FINANCING SOURCES			
SRF Loan Funding	\$ -	\$ -	\$ -
CAPITAL EXPENSES			
Personnel	\$ -	\$ -	\$ -
Maintenance	-	43,045	242,500
Operations	12,592	88,147	-
Administrative	-	-	5,000
Construction	-	-	-
Total CAPITAL EXPENSES	\$ 12,592	\$ 131,192	\$ 247,500
Revenues over Expenses before Debt Service and Transfers	\$ (12,592)	\$ (131,192)	\$ (247,500)
DEBT SERVICE			
SRF Interest	\$ -	\$ -	\$ -
FUND TRANSFERS IN			
Transfer from Operations and Maintenance Fund	\$ -	247,500	247,500
Interfund Loan Payment from O&M	-	-	-
Total FUND TRANSFERS IN	\$ -	247,500	247,500
FUND TRANSFERS OUT			
Salary/Benefits Charge to O & M	\$ -	\$ -	\$ -
Admin Charge to O & M	-	-	-
Total FUND TRANSFERS OUT	\$ -	-	-
Excess Revenues Over Expenses	\$ (12,592)	\$ 116,308	\$ -

Accrual Basis

Victor Valley Wastewater Reclamation Authority
Revenues and Expenditures
CAPITAL
For the Month Ended February 28, 2018

	Actual February 2018	YTD Actual FY 17-18	Approved Budget FY 17-18
REVENUES			
Connection Fees	\$ 20,600	\$ 956,081	\$ 878,900
Title 16 Grant - Subregional	-	-	-
Grant- Water Recycling	-	350,648	157,577
Sale of Assets, Scrap, & Misc Income	-	-	-
Interest	7,185	46,201	38,000
Proposition 1 Grant	-	650,367	293,010
Proposition 84 Grant	-	-	-
FMV Adjustment	-	1,612	-
Grant - FEMA/Cal-EMA	-	-	3,105,375
Total REVENUES	\$ 27,785	\$ 2,004,909	\$ 4,472,862
CAPITAL EXPENSES			
Personnel	\$ -	-	\$ 416,716
Maintenance	-	-	40,000
Operations	-	-	170
Administrative	-	(2,054)	140,000
Construction	-	4,733,202	2,482,435
Total CAPITAL EXPENSES	\$ -	\$ 4,731,148	\$ 3,079,321
Revenues over Expenses before Debt Service and Transfers	\$ 27,785	\$ (2,726,239)	\$ 1,393,541
DEBT SERVICE			
SRF Interest	\$ 40,978	\$ 124,869	\$ 209,281
			<u>209,281</u>
FUND TRANSFERS IN			
Capital Recovery - Septage from O&M	\$ -	-	-
Interfund Loan Payment from O&M	-	3,254	-
Total FUND TRANSFERS IN	\$ -	\$ 3,254	\$ -
FUND TRANSFERS OUT			
Salary/Benefits Charge to O & M	\$ 8,712	\$ 43,560	-
Admin Charge to O & M	3,311	16,553	-
Total FUND TRANSFERS OUT	\$ 12,023	\$ 60,113	\$ -
Excess Revenues Over Expenses	\$ (25,216)	\$ (2,907,967)	\$ 1,184,260

Accrual Basis

VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
SRF LOAN SUMMARY
 February 28, 2018

Existing 9.5 MGD Capital Improvements	Existing		Existing		Existing		In Progress		In Progress		In Progress		Total Agreed SRF Loans
	11 MGD Expansion	North Apple Valley Interceptor	Phase IIIA Regulatory Upgrades	Phase IIIA Regulatory Upgrades	UN Replacement Project	Pump Station Bypass	Apple Valley Subregional	Hesperia Subregional	SRF Interest Rate	SRF Interest Rate	SRF Interest Rate	SRF Interest Rate	
\$ 4,069,859.00	\$ 11,430,726.00	\$ 4,084,688.00	\$ 18,581,561.00	\$ 4,286,380.00	\$ 4,459,190.00	\$ 27,129,023.47	\$ 40,658,809.92	\$ 114,700,237.39	2.60%	0.00%	1.90%	1.00%	Varies
n/a	1,905,159.00	-	-	-	-	-	-	1,905,159.00	n/a	n/a	n/a	n/a	1,905,159.00
4,069,859.00	9,525,567.00	4,084,688.00	3,000,000.00	4,286,380.00	4,459,190.00	27,129,023.47	40,658,809.92	3,000,000.00	1.707%	1.707%	1.707%	1.707%	1,905,159.00
265,049.56	579,869.96	258,151.05	1,027,609.73	257,745.38	238,350.61	1,050,520.94	1,574,511.25	109,931,185.05	September 15	April 3	February 13	February 28	5,251,808.48
20	20	20	June 30	December 31	June 30	February 28	February 28	Varies	20	20	20	30	Varies
2	5	7	15	15	20	30	30	Varies	2	5	7	30	Varies
DEBT SERVICE													
Loan Outstanding Balance													
510,119.27	2,747,174.41	1,421,928.33	12,538,025.97	3,187,940.73	4,459,190.00	27,129,023.47	40,658,809.92	92,652,212.10	3,559,739.73	6,778,392.59	2,662,759.67	1,098,439.27	17,278,972.95
1,154,214.00	1,752,983.59	934,964.01	1,900,631.83	110,860.41	-	-	-	5,853,653.84	Sept. 15, 2000	April 3, 2003	Feb. 13, 2005	Dec. 31, 2016	Varies
Sept. 15, 2019	April 3, 2022	Feb. 13, 2024	June 30, 2032	Dec. 31, 2032	June 30, 2037	February 28, 2048	February 28, 2048	Varies	2.544%	1.850%	2.499%	1.900%	Varies
			2.700%	1.900%	1.900%	1.00%	1.00%	Varies					Varies

SRF LOANS

Original Amount Financed
 SRF Interest Rate (fixed)
 Local Match Amount
 Principal Forgiveness
 SRF Amount Borrowed
 Annual Payment Amount
 Annual Payment Due Date
 Loan Term (years)
 Years remaining

DEBT SERVICE

Loan Outstanding Balance
 Principal Paid to Date
 Interest Paid to Date
 First Payment Date
 Final Payment Date
 Effective interest rate

* An imputed interest rate is 1.707% per annum.

Victor Valley Wastewater Reclamation Authority
Flow Study
For the Month Ended January 31, 2018

Measured by ADS	Percentage of Total %	Monthly MG
VSD 1 (less North Apple Valley)	5.9292%	21.3960
VSD 2	14.1056%	50.9010
VSD 3	26.2099%	94.5800
VSD 4	7.5495%	27.2430
VSD 5	0.4742%	1.7110
VSD 6	6.2964%	22.7210
VSD Total	60.5648%	218.5520
Apple Valley 01	10.1728%	36.7092
Apple Valley 02	5.4260%	19.5800
Apple Valley North	0.0876%	0.3160
Apple Total	15.6864%	56.6052
Hesperia	18.4456%	66.5620
CSA 64 SVL	4.8191%	17.3900
CSA 42 Oro Grande	0.4842%	1.7470
CSA Total	5.3033%	19.1370
Total Apportioned Flow	100.0000%	360.8562
Mojave Narrows Regional Park		0.1000
Total Study Flow		360.9562

Subregional Water Reclamation Plant Projects
2/28/2018
Apple Valley

Costs Incurred Up to 2/28/2018

		Expended to Date	Contract Amount	Total Remaining
Planning/Design/Construction Management				
	Planning	1,278,710	970,271	(308,439)
	(Carollo/HDR) Design	2,552,681	3,117,326	564,645
	(MWH) Construction Management	2,089,402	1,455,410	(633,992)
	(Carollo/HDR) Engineering Services During Construction	1,816,322	1,610,418	(205,904)
	Sub-Total	7,737,115	7,153,425	(583,690)
Construction				
	Construction	32,940,490	32,670,000	(270,490)
Change Order (Contingency)				
		Expended to Date	Contract Amount	
			SRF Loan	Lyles
	Planning/Design/Construction Management	-	1,001,640	-
	Construction - Cascade Drilling	252,951	376,986	-
	Construction - Lyles	709,845	624,654	500,000
	Sub-Total	962,796	2,003,280	500,000
	Total	41,640,401	42,326,705	1,649,100

Eligible for Reimbursements

		Claimed	Contract Amount	Total Remaining
	Title 16	2,404,756	2,419,631	14,875
	Proposition 13 - Recycling Grant	3,840,817	4,000,000	159,183
	Proposition 84-AV Construction Cost	772,414	1,487,478	715,064
	Proposition 01-AV Planning/Design/Construction Management	1,038,301	1,046,193	7,892
	Proposition 01-AV Construction Cost	7,534,420	8,135,648	601,228
	Total Grants	15,590,708	17,088,950	1,498,242
	<i>% of Total Project</i>		39%	
	SRF-AV Planning/Design/Construction Management	4,413,807	4,535,127	121,320
	SRF-AV Construction Cost	21,635,886	22,537,632	901,746
	Total	41,640,401	44,161,709	2,521,308

Claims Made as of 2/28/2018

		Requested	Contract Amount	Total Remaining
	Title 16	2,404,756	2,419,631	14,875
	Proposition 13 - Recycling Grant	3,976,548	4,000,000	23,452
	Proposition 84-AV Construction Cost	772,414	1,487,478	715,064
	Proposition 01-AV Planning/Design/Construction Management	1,038,301	1,046,193	7,892
	Proposition 01-AV Construction Cost	7,786,693	8,135,648	348,955
	Total Grants	15,978,712	17,088,950	1,110,238
	SRF-AV Planning/Design/Construction Management	4,413,807	4,535,127 *	121,320
	SRF-AV Construction Cost	20,109,752	22,537,632	2,427,880
	Total	40,502,271	44,161,709	3,659,438

*Note: Proposition 01 grant of \$9.2M reduces AV SRF loan to \$4.5M.

Subregional Water Reclamation Plant Projects
2/28/2018
Hesperia

Costs Incurred Up to 2/28/2018

		Expended to Date	Contract Amount	Total Remaining
Planning/Design/Construction Management				
	Planning	895,080	624,264	(270,816)
	(Carollo/HDR) Design	3,106,096	3,580,792	474,696
	(MWH) Construction Management	2,503,033	1,479,914	(1,023,119)
	(Carollo/HDR) Engineering Services During Construction	1,625,953	1,687,052	61,099
	Sub-Total	8,130,162	7,372,022	(758,140)
Construction				
	Construction	32,843,886	33,220,000	376,114
		Expended to Date	Contract Amount	
			SRF Loan	Lyles
Change Order (Contingency)				
	Planning/Design/Construction Management	-	1,111,398	-
	Construction - Cascade Drilling	463,231	383,334	-
	Construction - Lyles	708,198	728,063	500,000
	Sub-Total	1,171,429	2,222,795	500,000
Total		42,145,477	43,314,817	1,169,340

Eligible for Reimbursements

		Claimed	Contract Amount	Total Remaining
	Title 16	2,445,244	2,460,369	15,125
	Proposition 84-HES Construction Cost	2,227,586	1,512,522	(715,064)
	Total Grants	4,672,830	3,972,891	(699,939)
	<i>% of Total Project</i>		9%	
	SRF-HES Planning/Design/Construction Management	3,134,436	7,329,955	4,195,519
	SRF-HES Construction Cost	34,338,211	33,220,000	(1,118,211)
	Total	42,145,477	44,522,846	2,377,369

Claims Made as of 2/28/2018

		Requested	Contract Amount	Total Remaining
	Title 16	2,445,244	2,460,369	15,125
	Proposition 84-HES Construction Cost	2,227,586	1,512,522	(715,064)
	Total Grants	4,672,830	3,972,891	(699,939)
	SRF-HES Planning/Design/Construction Management	3,134,436	7,329,955	4,195,519
	SRF-HES Construction Cost	32,062,524	33,220,000	1,157,476
	Total	39,869,790	44,522,846	4,653,056

Nanticoke Interceptor
2/28/2018

Costs Incurred Up to 2/28/2018		Expended to Date	Contract Amount	Total Remaining
Planning/Design/Construction Management				
	Planning		342,397	342,397
	Design		101,524	101,524
	Construction Management	476,557	407,373	(69,184)
	Engineering Services During Construction			-
	Sub-Total	476,557	851,294	374,737
Construction				
	Construction - Christensen Brothers GE Inc.	3,202,494	3,207,896	5,402
		Expended to Date	Contract Amount	
			SRF Loan	
Change Order (Contingency)				
	Planning/Design/Construction Management			-
	Construction	780,139	400,000	(380,139)
	Sub-Total	780,139	400,000	(380,139)
Total		4,459,190	4,459,190	-

Eligible for Reimbursements		Claimed	Contract Amount	Total Remaining
	SRF-Planning/Design/Construction Management	476,557	851,294	374,737
	SRF-Construction Cost	3,982,633	3,607,896	(374,737)
Total		4,459,190	4,459,190	-

Claims Made as of 2/28/2018		Requested	Contract Amount	Total Remaining
	SRF-Planning/Design/Construction Management	476,557	851,294	374,737
	SRF-Construction Cost	3,982,633	3,607,896	(374,737)
Total		4,459,190	4,459,190	-

VWRA
Upper Narrows Interceptor and Emergency Projects
2/28/2018

Upper Narrows Interceptor and Emergency Projects
2/28/2018

Upper Narrows Interceptor (E004)

<u>Planning/Design/Construction Management</u>		Expended to Date	Contract Amount	Total Remaining
Planning		449,368	277,990	(171,378)
(Tetra Tech) Design		737,952	783,481	45,529
(URS/AECOM) Construction Management		1,642,759	993,673	(649,086)
(TetraTech) Engineering Services During Construction		531,269	348,290	(182,979)
Total		3,361,348	2,403,434	(957,914)
<u>Construction</u>				
Construction - J.W. Fowler		26,136,908	26,482,075	345,167
Construction - AV Construction		1,525,267	863,371	(661,896)
<u>Contingency</u>				
		Expended to Date	Contract Amount	
(Tetra Tech) Design		-	-	-
(URS/AECOM) Construction Management		271,346	325,612	54,266
(TetraTech) Engineering Services During Construction		-	-	-
Construction - J.W. Fowler		3,536,620	3,536,620	
Construction - AV Construction		214,287	214,287	-
Total		35,045,776	33,825,399	(1,220,377)

Claimed to Date

FEMA/CalOES	27,948,377	29,811,603	1,863,226
FEMA/CalOES 10% Retention	3,105,375	3,312,400	207,025
UNR SRF Loan	3,515,952		
Total	34,569,704	33,124,003	2,070,251

Upper Narrows Emergency (E003)

Spent to Date 2/28/2018

<u>Planning/Design/Construction Management</u>	Expended to Date
Materials	811,401
Rented Equipment	3,226,387
Contracts	3,899,051
Force Account OT	42,805
Force Equipment	274,341
Total	8,253,985

Received to Date

FEMA/CalOES	6,539,338
FEMA/CalOES 10% Retention	726,593
Total Grants to Date	7,265,931
VWRA 6.25% Unreimbursable Cost	484,395
Total	7,750,326

Victor Valley Wastewater Reclamation Authority



Operations and Maintenance Report

February 2018

VWRA O&M Monthly Report – February 2018

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**Victor Valley Wastewater Reclamation Authority
Operations and Maintenance Report
February 2018**

TO: Logan Olds, General Manager
FROM: Operations & Maintenance Staff
SUBJECT: OPERATIONS/MAINTENANCE REPORT
DATE: March 2, 2018

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 2018.

	Total	Average
Effluent to Mojave	155.49	5.5532
Effluent to Ponds	151.83	5.4225

	Limit
Biochemical Oxygen Demand (BOD)	10 mg/l
Effluent to Mojave	<5.00
Percent Removal	>98.491

	Limit
Total Suspended Solids (TSS)	10 mg/l
Effluent to Mojave	<2.0
Percent Removal	>99.338

	Limit
Turbidity	2.0 ntu
30 Day Average	0.4

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 52.88% removal of influent BOD and 69.01% 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 3.47% total solids at 67,304 gallons per day.

Primary clarifiers #1, #2, #3, #4, #5 and #6 are currently online and continue to treat all incoming flow. Primaries #7 and #8 remained offline for the month. With two clarifiers off line, the remaining 6 primary clarifiers are capable of treating peak flows up to 23 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. Waukesha Blower # 5 is online and is supplying 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 1.54 (NTU) during the month of February 2018
The 30 minute settleometer test averaged 214.6 mL/L.
The average "pop time" of the MLSS was >91 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 0.53 NTU.

Solids

VVWRA O&M Monthly Report – February 2018

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Digester's #1 , #2 and #3 remain off line.

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

VVWRA received 578,328 gallons of ADM (Anaerobically Digestible Material) and FOG (Fats Oil and Grease). Total is comprised of 578,273 gallons of ADM and 50,000 gallons of FOG.

A Total 21,808,956 cf/day of gas was created by digesters #4 and 5 for the month of February 2018. That is an average gas production of 778,891 cf/day.

Digester #4 averaged 415,566 cf/day.

Digester #5 averaged 363,325 cf/day.

Digester Volatile Acid/Alkalinity averaged 0.016 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: 1087
days**

Discharge Sampling

All required samples during the month of February 2018 were collected and processed as scheduled.

Miscellaneous

Apple Valley Pump Station wet well was cleaned out twice in February 2018. Grease removed was transferred to facility scum wet well. AVPS grease continues to be pumped to the anaerobic Digesters #4 and #5.

Maintenance Activities**CMMS Work Order Activity****VVWRA KPI Report**

3/1/2018

2:35 PM

2/1/2018 - 2/28/2018

KPI	Count	Percent
Planned Work Total	249	
Planned Work Completed	240	96.39%
Planned Work Completed On-Time	222	89.16%
Planned Work Incomplete	9	3.61%
Planned Work Completed Late	18	7.23%
Total Work Completed	548	
Reactive Work Completed	67	12.27%
PM Work Completed	418	76.56%

Safety

1. Monthly Vehicle Safety Inspections completed.
2. Monthly gas tech monitor inspections completed.
3. Eyewash safety showers inspected.

VVWRA O&M Monthly Report – February 2018

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4. Monthly SCBA inspections.
5. Hazardous storage area inspection.
6. Spill kit inspections.
7. Hazwoper Refresher.

Preliminary Process

1. Aqua Guard pre-treatment screen inspected and serviced.
2. Headwork's Conveyor Belt Lube & Inspect.
3. Barscreen Maintenance complete.
4. Septage EQ Basin cleaning.
5. Septage EQ pump repack.

Primary Process

1. All PH and conductivity probes cleaned and calibrated.
2. Influent PH and conductivity probe calibrations complete.

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

Ultra Violet Disinfection (UV)

1. PH and conductivity probes cleaned and calibrated
2. UVT probe calibrated
3. UV blower service completed.

Treatment Disposal

1. DAFT #1 and #2 Air Compressors 1&2 PM services complete.
2. DAFT #1 lube
3. Sludge lagoon transfer pumps repack.

Miscellaneous Plant

1. Serviced AHU for Blower Buildings completed.

Plant Equipment

VVWRA O&M Monthly Report – February 2018

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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.

Gas Conditioning Skid

1. Blowers #1 & #2 inspections complete.
2. Monthly gas sampling collected.

OGPS

1. Monthly Gen Test completed
2. Pumps pulled and inspected drag

AVPS

1. Grease pump out.

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 2018

VWRA Environmental Compliance Department
Industrial Pretreatment Program

I. Interceptors Operation and Maintenance:

1. Interceptors cleaning & CCTV:

- ✓ No Cleaning was performed in February

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 reported

4. Sanitary sewer overflows (SSO) summary:

- ✓ Date of last reportable SSO: September 18th, 2018

5. Interceptors maintenance budget remaining:

- ✓ The fiscal year 2016-2018 Interceptor sewer maintenance amount remaining for sewer cleaning and inspection services is \$49021.11

6. Dig Alert Underground tickets processed:

- ✓ A total of One Hundred (100) USA Tickets were received and processed in February 2018.

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:**
 - ✓ Eight (8) New Business Questionnaires were processed in the month of February 2018.
 - ✓ One (1) New Business Inspection was conducted in the month of February 2018.
2. **New permits issued:**
 - ✓ One (1) New permits were issued in the month of February 2018.
3. **Permit renewals issued:**
 - ✓ Eleven (11) Class III permit renewals were issued in the month of February 2018.
4. **Work Orders:**
 - ✓ 62 Work Orders were completed in February 2018
5. **Monthly revenues collected, and invoices issued:**
 - ✓ Revenues: \$1,500
 - ✓ Invoiced: \$6,200
6. **Lucity CMMS Software implementation:**
 - ✓ The implementation of Lucity CMMS software for the industrial pretreatment program and the operations and maintenance of interceptors including GIS is ongoing.

III. Industrial Pretreatment Activities (continued)

1. Current enforcement actions:

- ✓ Zero (0) Notice of Violation was issued in February 2018.

2. Current active industrial pretreatment permits:

- ✓ The current number of VVWRA's industrial wastewater discharge permits is 433, they are comprised as follows:

1	Class I	Categorical Industrial User
10	Class II	Non-Categorical Significant Industrial User
419	Class III	Non-Significant Industrial User
2	Class IV	Zero Discharge Industrial User
9	Class V	Sanitary Waste Haulers

- ✓ The permitted establishments include:

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

- ✓ Permitted businesses are distributed among member entities as follows: 171 in Victorville, 124 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 2018

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

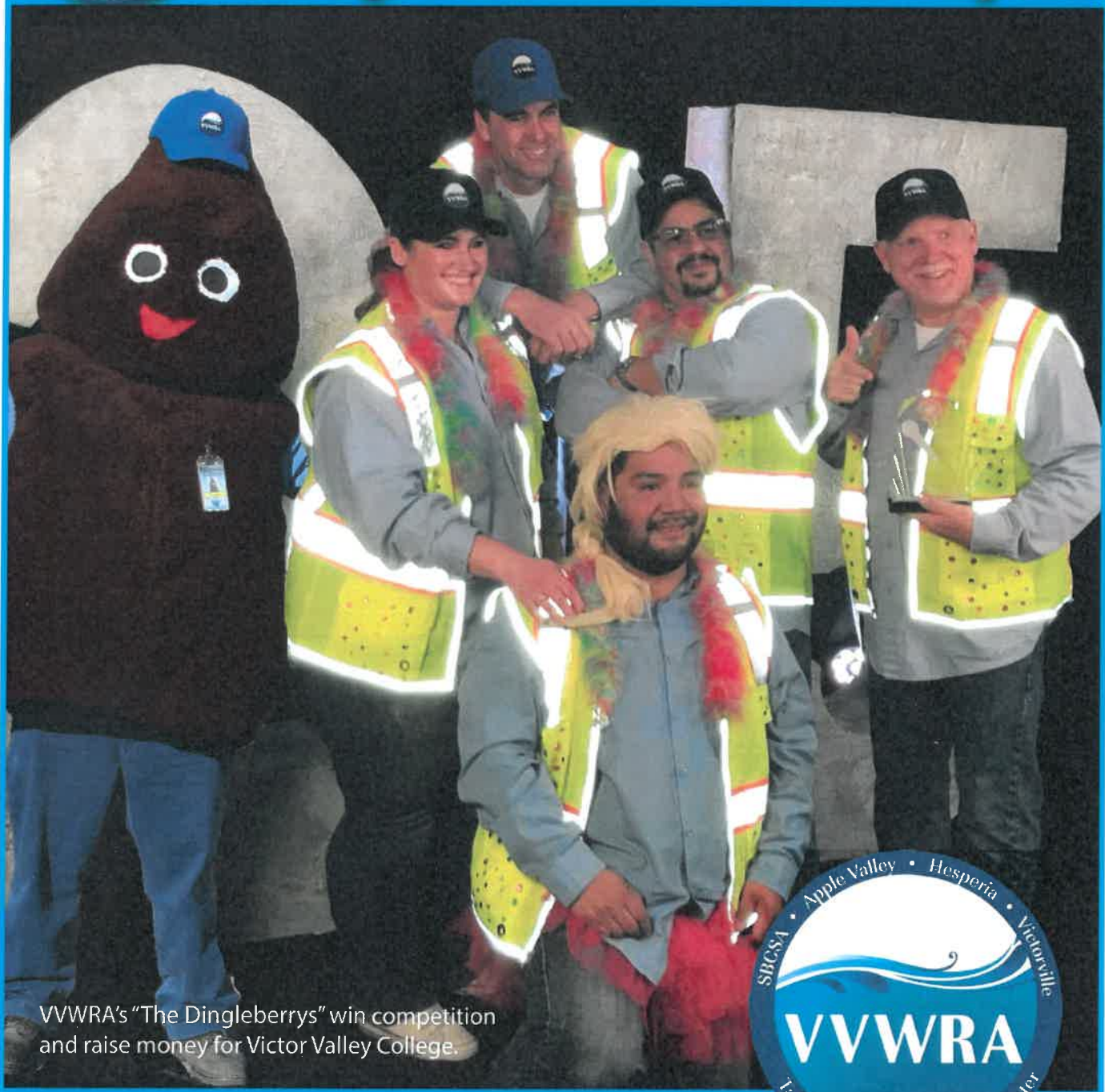
ID No	Septage Hauler	Invoice Date	Total Gallons	Invoice Amount
ABS000	Absolute Pumping	2/28/2018	36,648	\$3,430.25
ALP000	Alpha Omega Septic Service	2/28/2018	143,251	\$13,408.29
BUR000	Burns Septic	2/28/2018	100,000	\$9,360.00
HIT000	Hitt Plumbing	2/28/2018	3,435	\$321.52
HON001	Honest Johns Septic Service, Inc	2/28/2018	74,289	\$6,953.45
ROT001	T.R. Stewart Corp. dba Roto Rooter	2/28/2018	80,726	\$7,555.95
USA000	USA Septic	2/28/2018	34,400	\$3,219.84
ALP000	Alpha Omega Septic Service (Nutro)	2/28/2018	85,928	\$3,437.12
COW000	Co-West Commodities	2/28/2018	185,000	\$7,400.00
LIQ000	Liquid Environmental Solutions of CA	2/28/2018	0	\$0
SMC000	SMC Grease Specialist, Inc.	2/28/2018	307,400	\$12,296.00
WES004	West Valley MRF, LLC Burrtec Waste Industries, Inc.	2/28/2018	0	\$0
HIT000	Hitt Plumbing	2/28/2018	0	\$0
Grand Totals			1,051,077	\$67,382.42

Septage/FOG/ADM receiving payments:

ID No	Business Name	Payments Received
ABS000	Absolute Pumping	\$0
ALP000	Alpha Omega Septic Service	\$4,497.12
BUR000	Burns Septic	\$8,985.60
HON001	Honest Johns Septic Service, Inc	\$0
ROT001	T.R. Stewart Corp. dba Roto Rooter	\$6,838.22
USA000	USA Septic	\$2,536.56
ALP000	Alpha Omega Septic Service (Nutro)	\$0
COW000	Co-West Commodities	\$8,000.00
LIQ000	Liquid Environmental Solutions of CA	\$0
SMC000	SMC Grease Specialist, Inc.	\$0
WES004	West Valley MRF, LLC Burrtec Waste Industries, Inc.	\$0
HIT000	Hitt Plumbing	\$137.40
Grand Total		\$30,994.90



Safety & Communications Report



VVWRA's "The Dingleberrys" win competition and raise money for Victor Valley College.



February 2018



Safety

STAFF SAFETY TAILGATE/ORIENTATION

- Feb. 1 - Handwashing



- Feb. 8--Hand safety



- Feb. 15--Ergonomics



- Feb. 22--slips, trips and falls





Safety

SAFETY POLICY REVIEWS/ REVISIONS

- Electrical Safety Program
- OSHA Form 300A submitted.

SAFETY EVENTS/ TRAINING

- Safety tailgates
- hazwoper refresher course

UNSAFE CONDITIONS REPORTED/RESOLVED

- New safety signs on used oil tank and in haz mat storage
- Carollo report on the condition of digester 4 & 5

DATE OF LAST REPORTABLE ACCIDENT/INJURY:
SEPT. 18, 2017

DAYS SINCE LAST REPORTABLE ACCIDENT/INJURY:
163 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.

Communications

- MWA Water Summit



- Made in the High Desert event





Communications

ACTIVITIES

- Continued work on updating new website including work on internal pages
- Maintained current website and social media sites including Facebook & Twitter.
- VVC Foundations lip sync battle winners

