Appendix B

Phase 1 Capital Costs





OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05 **OPCC Manager:** LMS & NS **Reviewer:** CEH

Description of Work: Cost Estimating

Type of Estimate: Class 5 Date of This Estimate: 21-May-25

ELEMENT#	DESCRIPTION	UNIT COST	UNITS	ANTICIPATED COST
1	Fill Effluent Pond at FWD WWTP	\$3,600,000	1	\$3,600,000
2	Suspended Air Flotation at FWD WWTP	\$3,900,000	1	\$3,900,000
3	Filter influent pump station	\$2,600,000	1	\$2,600,000
4	Tertiary Disk Filtration at FWD WWTP	\$2,800,000	1	\$2,800,000
5	Chlorine Contact Basin Expansion at FWD WWTP	\$1,900,000	1	\$1,900,000
6	Headworks Improvement at GCSD WWTP	\$800,000	1	\$800,000
7	Pond Aeration System Upgrades at GCSD WWTP	\$9,400,000	1	\$9,400,000
8	Effluent Storage Pond Expansion at GCSD WWTP	\$20,400,000	1	\$20,400,000
9	Pipelines at FWD and GCSD WWTP	\$700,000	1	\$700,000
10	Conveyance Pipelines	\$5,800,000	1	\$5,800,000
11	Conveyance Pump Stations	\$7,400,000	1	\$7,400,000
12	Hydraulics Cpacity Improvement at RRCSD WWTP	\$600,000	1	\$600,000
13	RRCSD CIP	\$23,000,000	1	\$23,000,000
14	Land Application (RRCSD)	\$200,000	1	\$200,000
	FNCINITED'S DREI IMINADY ODINION OF PROPARI E PROJECT COST		602 100 000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE PROJECT COST Construction Contingency	0%		\$83,100,000 \$0
	Engineering Design, Environmental Planning and Studies, Construction			·
	Management, ESDC, and Legal and Admin Costs ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST	25%		\$20,800,000 \$103,900,000





OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

Sheet Title: Eff Pond Fill @FWD

Element #: 1 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Effluent Pond Fill	16,100	CY	\$120	\$1,932,000	\$0	\$1,932,000
2							
3							
4							
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8							
9							
10							
SUBTOTAL							\$1,932,000
	Plant Paving, Grading, and Yard Piping				10%		\$193,000
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$2,130,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$320,000
	Mobilization and Demobilization				5%		\$107,000
	Contractor's General Conditions				10%		\$213,000
	SUBTOTAL				\$2,770,000		
	Project Phase-Level OPCC Contingency				30%		\$831,000
ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST							\$3,600,000
Construction Contingency				0%		\$0	
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	25%		\$900,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$4,500,000

Last Revised: 9-2-25

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05 Sheet Title: SAF @FWD

Element #: 2

OPPC PROVIDED BY: Niloofar S. **OPPC PREPARATION DATE:** 21-May-25

	DESCRIPTION	MATERIAL	LINUT	MATERIAL	MATERIAL	INSTALL	TOTAL COST				
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST				
1	Concrete Pad	28	CY	\$550	\$15,400	\$15,400	 				
2	Secondary Effluent Junction Box	0	0	\$0	\$98,000	\$0	\$98,000				
3	Suspended Air Floatation System (1.5 mgd capacity - includes tank, flocculation tubes, generator)	1	LS	\$589,625	\$589,625	\$589,625	\$1,179,000				
4	Canopy	820	SF	\$85	\$69,700	\$0	\$70,000				
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6											
7											
8											
9											
10											
	SUBTOTAL	•		•	<u>. </u>		\$1,378,000				
	Plant Paving, Grading, and Yard Piping				10%		\$138,000				
	Mechanical and Piping				10%		\$138,000				
	Electrical				25%		\$345,000				
	Instrumentation and Controls				15%		\$207,000				
	SUBTOTAL						\$2,210,000				
	Tax on Materials				9.3%		\$71,000				
	Contractor's Markup on Sub-Contractors' Work				10%		\$55,000				
	Contractor's Overhead and Profit				15%		\$332,000				
	Mobilization and Demobilization				5%		\$111,000				
	Contractor's General Conditions				10%		\$221,000				
SUBTOTAL \$1							\$3,000,000				
	Project Phase-Level OPCC Contingency 30%						\$900,000				
ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST \$3							\$3,900,000				
Construction Contingency 0%							\$0				
Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 25%							\$975,000				
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST										



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05 Sheet Title: FIPS @FWD

Element #: 3 REVIEWED BY: CEH

	DESCRIPTION	MATERIAL QTY	UNIT	MATERIAL UNIT COST	MATERIAL COST	INSTALL COST	TOTAL COST
1	1.5 mgd pump station before SAF and cloth disk filters	1	LS	\$1,960,000			\$1,960,000
1	1.5 figu pump station before SAF and cloth disk filters	1	LJ	\$1,960,000	\$1,960,000	ŞU	\$1,960,000
2							
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8							
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10							
	SUBTOTAL						\$1,960,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$1,960,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				0%		\$0
	Contractor's Overhead and Profit				0%		\$0
	Mobilization and Demobilization				0%		\$0
	Contractor's General Conditions				0%		\$0
	SUBTOTAL						\$1,960,000
	Project Phase-Level OPCC Contingency						\$588,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST \$2,5						
	Construction Contingency					_	\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 25%						\$638,000
ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST \$3,							

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: Tert.Filt. @FWD

Element #: 4 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Concrete Pad (under two 4-Disk filter unit tanks)	21	CY	\$550	\$11,550	\$11,550	\$23,000
2	Cloth Media Filters (two (2) 4-Disk AquaDisk filters in steel tanks treating a max. flow of 1.5 MGD, with full redundancy)	1	LS	\$600,000	\$600,000	\$300,000	\$900,000
3	Canopy	671	SF	\$85	\$57,069	\$0	\$57,000
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10							
	SUBTOTAL						\$980,000
	Plant Paving, Grading, and Yard Piping				10%		\$98,000
	Mechanical and Piping				10%		\$98,000
	Electrical				25%		\$245,000
	Instrumentation and Controls				15%		\$147,000
	SUBTOTAL						\$1,570,000
	Tax on Materials				9.3%		\$62,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$39,000
	Contractor's Overhead and Profit				15%		\$236,000
	Mobilization and Demobilization				5%		\$79,000
	Contractor's General Conditions				10%		\$157,000
	SUBTOTAL						\$2,140,000
	Project Phase-Level OPCC Contingency			30%		\$642,000	
ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST							\$2,780,000
	Construction Contingency			0%		\$0	
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, ar	dmin		25%		\$695,000	
ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST							\$3,480,000

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: CCB @FWD

Element #: 5 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL		
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST	
1	Excavation for two new chlorine contact basins	1,174	CY	\$45	\$52,830	\$0	\$53,000	
2	Concrete basins for two (2) new chlorine contactors (match existing)	395	CY	\$550	\$217,250	\$217,250	\$435,000	
3	Additional chemical storage building for gas cylinders for the two new CCBs.	216	SF	\$450	\$97,200	\$0	\$97,000	
4	Metal grating over chlorine contact basin inlets	nlets 86 SF \$35 \$2,993					\$3,000	
5	Surface Mounted Fiberglass Slide Gate and Frame (2 per chlorine contact basin)	4	EA	\$5,000	\$20,000	\$10,000	\$30,000	
6	Chlorine Ejector (Chlorination) Assembly (1 per chlorine contact basin)	2	EA	\$10,000	\$20,000	\$10,000	\$30,000	
7	Sulfur Dioxide Ejector (Dechlorination) Assembly (1 per chlorine contact basin)	2	EA	\$10,000	\$20,000	\$10,000	\$30,000	
8								
9								
10								
	SUBTOTAL						\$678,000	
	Plant Paving, Grading, and Yard Piping				10%		\$68,000	
	Mechanical and Piping				10%		\$68,000	
	Electrical				25%		\$170,000	
	Instrumentation and Controls				15%		\$102,000	
	SUBTOTAL						\$1,090,000	
	Tax on Materials				9.3%		\$40,000	
	Contractor's Markup on Sub-Contractors' Work				10%		\$27,000	
	Contractor's Overhead and Profit				15%		\$164,000	
	Mobilization and Demobilization				5%		\$55,000	
	Contractor's General Conditions				10%		\$109,000	
	SUBTOTAL						\$1,490,000	
	Project Phase-Level OPCC Contingency 30%							
ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST \$1,94							\$1,940,000	
	Construction Contingency 0%						\$0	
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 25% \$							
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST \$2,430							

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: GCSD Headworks

Element #: 6 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	ROTAMAT Micro Strainer Ro9	1	LS	\$136,782	\$136,782	\$136,782	\$274,000
2	Bin	1	LS	\$50,000	\$50,000	\$0	\$50,000
3							
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8							
9							
10							
	SUBTOTAL						\$324,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				5%		\$16,000
	Electrical				25%		\$81,000
	Instrumentation and Controls				15%		\$49,000
	SUBTOTAL						\$470,000
	Tax on Materials				9.3%		\$17,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$13,000
	Contractor's Overhead and Profit				15%		\$71,000
	Mobilization and Demobilization				5%		\$24,000
	Contractor's General Conditions				10%		\$47,000
	SUBTOTAL						\$640,000
	Project Phase-Level OPCC Contingency		30%		\$192,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$830,000
	Construction Contingency		0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, an		25%		\$208,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

Sheet Title: Aer.Ponds @GCSD

Element #: 7 REVIEWED BY: CEH

	DESCRIPTION	MATERIAL QTY	UNIT	MATERIAL UNIT COST	MATERIAL COST	INSTALL COST	TOTAL COST	
1	Blower Building (houses three (3) 100HP blowers for pond aeration system)	1,053	SF	\$550	\$579,150	\$0		
			31	\$550	\$579,150	ŞU	\$379,000	
2	Ares Aeration® Pond Aeration System (in treatment ponds) & Floating Cover (on settling pond)	1	EA	\$1,468,680	\$1,468,680	\$1,468,680	\$2,937,000	
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4								
5								
6								
7								
8								
9								
10								
	SUBTOTAL						\$3,516,000	
	Plant Paving, Grading, and Yard Piping				10%		\$352,000	
	Mechanical and Piping				10%		\$294,000	
	Electrical				25%		\$734,000	
	Instrumentation and Controls				15%		\$441,000	
	SUBTOTAL						\$5,340,000	
	Tax on Materials				9.3%		\$136,000	
	Contractor's Markup on Sub-Contractors' Work				10%		\$118,000	
	Contractor's Overhead and Profit				15%		\$801,000	
	Mobilization and Demobilization				5%		\$267,000	
	Contractor's General Conditions				10%		\$534,000	
	SUBTOTAL						\$7,200,000	
	Project Phase-Level OPCC Contingency				30%		\$2,160,000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST				\$9,360,000			
	Construction Contingency			0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	dmin		25%		\$2,340,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST \$1							

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

Sheet Title: Eff.Stor.Pond @GCSD

Element #: 8 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL				
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST			
1	Excavation	182,000	CY	\$45	\$8,190,000	\$0	\$8,190,000			
2	Rip rap	6,000	ton	\$375	\$2,250,000	\$0	\$2,250,000			
3	Gravel	2,000	ton	\$210	\$420,000	\$0	\$420,000			
4	Misc Structure	2	EA	\$100,000	\$200,000	\$0	\$200,000			
5	Fencing	3,966	LF	\$75	\$300,000	\$0	\$300,000			
6										
7										
8										
9										
10										
	SUBTOTAL						\$11,360,000			
	Plant Paving, Grading, and Yard Piping				0%		\$0			
	Mechanical and Piping				5%		\$570,000			
	Electrical				0%		\$0			
	Instrumentation and Controls				0%		\$0			
	SUBTOTAL						\$11,930,000			
	Tax on Materials				9.3%		\$150,000			
	Contractor's Markup on Sub-Contractors' Work				10%		\$0			
	Contractor's Overhead and Profit				15%		\$1,790,000			
	Mobilization and Demobilization				5%		\$600,000			
	Contractor's General Conditions				10%		\$1,190,000			
	SUBTOTAL						\$15,660,000			
	Project Phase-Level OPCC Contingency				30%		\$4,700,000			
ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST \$20							\$20,360,000			
	Construction Contingency		0%		\$0					
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 25%						\$5,090,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST		ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST \$25,							

Last Revised: 9-2-25

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

Sheet Title: Pipeline-Treatment

Element #: 9

OPPC PROVIDED BY: NS

OPPC PREPARATION DATE: 21-May-25

1 6 inch Pipeline			MATERIAL		MATERIAL	MATERIAL	INSTALL	
2 8 Inch Pipelline		DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
3 10 inch Pipeline	1	6 inch Pipeline	240	LF	\$180	\$43,200	\$0	\$43,000
4	2	8 inch Pipeline	1,250	LF	\$240	\$300,000	\$0	\$300,000
S S S S S S S S S S	3	10 inch Pipeline	270	LF	\$300	\$81,000	\$0	\$81,000
6 Image: Contractor of Substitution and Demobilization and Demobilization and Demobilization and Demobilization Contractor's General Conditions Image: Contractor of Substitution Control of Substitution Control of Substitution Control of Substitution Control of Substitution of	4							
Name	5							
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Mechanical and Piping0%\$0Electrical0%\$0Instrumentation and Controls0%\$0SUBTOTAL\$420,000Tax on Materials0%\$0Contractor's Markup on Sub-Contractors' Work10%\$0Contractor's Overhead and Profit15%\$63,000Mobilization and Demobilization5%\$21,000Contractor's General Conditions10%\$42,000SUBTOTAL\$550,000Project Phase-Level OPCC Contingency30%\$165,000ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST\$720,000Construction Contingency0%\$0Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin25%\$180,000		SUBTOTAL						\$424,000
Electrical 1 0% \$0 1		Plant Paving, Grading, and Yard Piping				0%		\$0
Instrumentation and Controls SUBTOTAL Tax on Materials Contractor's Markup on Sub-Contractors' Work Contractor's Overhead and Profit Mobilization and Demobilization Contractor's General Conditions SUBTOTAL Project Phase-Level OPCC Contingency ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST Construction Contingency Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin \$ 420,000 \$ 42		Mechanical and Piping				0%		\$0
SUBTOTAL\$420,000Tax on Materials0%\$0Contractor's Markup on Sub-Contractors' Work10%\$0Contractor's Overhead and Profit15%\$63,000Mobilization and Demobilization5%\$21,000Contractor's General Conditions10%\$42,000SUBTOTAL\$550,000Project Phase-Level OPCC Contingency30%\$165,000ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST\$720,000Construction Contingency0%\$0Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin25%\$180,000		Electrical				0%		\$0
Tax on Materials Contractor's Markup on Sub-Contractors' Work Contractor's Overhead and Profit Mobilization and Demobilization Contractor's General Conditions SUBTOTAL Project Phase-Level OPCC Contingency ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST Construction Contingency Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin SUBCONTRACTOR SOME SOME SOME SOME SOME SOME SOME SOME		Instrumentation and Controls				0%		\$0
Contractor's Markup on Sub-Contractors' Work Contractor's Overhead and Profit Mobilization and Demobilization Contractor's General Conditions SUBTOTAL Project Phase-Level OPCC Contingency ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST Construction Contingency Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 10% \$0,000		SUBTOTAL						\$420,000
Contractor's Overhead and Profit Mobilization and Demobilization Contractor's General Conditions SUBTOTAL Project Phase-Level OPCC Contingency ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST Construction Contingency Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 15% \$63,000 \$21,000 \$42,000 \$5550,000 \$165,000 \$720,000 \$0 \$0 \$180,000		Tax on Materials				0%		\$0
Mobilization and Demobilization Contractor's General Conditions SUBTOTAL Project Phase-Level OPCC Contingency ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST Construction Contingency Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 5% \$21,000 \$42,000 \$550,000 \$550,000 \$720,000 \$720,000 \$90 \$90 \$90 \$90 \$90 \$90 \$90 \$90 \$90		Contractor's Markup on Sub-Contractors' Work				10%		\$0
Contractor's General Conditions10%\$42,000SUBTOTAL\$550,000Project Phase-Level OPCC Contingency30%\$165,000ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST\$720,000Construction Contingency0%\$0Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin25%\$180,000		Contractor's Overhead and Profit				15%		\$63,000
SUBTOTAL\$550,000Project Phase-Level OPCC Contingency30%\$165,000ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST\$720,000Construction Contingency0%\$0Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin25%\$180,000		Mobilization and Demobilization				5%		\$21,000
Project Phase-Level OPCC Contingency ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST Construction Contingency Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 25% \$180,000		Contractor's General Conditions				10%		\$42,000
ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST Construction Contingency Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 25% \$180,000		SUBTOTAL						\$550,000
Construction Contingency 0% \$0 Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 25% \$180,000		Project Phase-Level OPCC Contingency						\$165,000
Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 25% \$180,000		ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$720,000
		Construction Contingency	0%		\$0			
ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST \$900,000		Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 25%						\$180,000
		ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$900,000



OWNER: **Sonoma Water** Sonoma County, CA LOCATION:

WYA Project #: 798-50-24-05

Sheet Title: Pipeline-Conveyance

Water. Engineered.	/ater. Engineered. Element #: 10 REVIEWED BY: CEH						CEH		
				MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRI	PTION		QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1 Rehab 8 inch Pipe				8,980	LF	\$120	\$1,077,600	\$0	\$1,078,000
2 6 inch Pipeline				13,180	LF	\$180	\$2,372,400	\$0	\$2,372,000
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SUBTOTAL		\$3,450,000
Plant Paving, Grading, and Yard Piping	0%	\$0
Mechanical and Piping	0%	\$0
Electrical	0%	\$0
Instrumentation and Controls	0%	\$0
SUBTOTAL		\$3,450,000
Tax on Materials	0%	\$0
Contractor's Markup on Sub-Contractors' Work	10%	\$0

SUBTUTAL		\$3,450,000
Tax on Materials	0%	\$0
Contractor's Markup on Sub-Contractors' Work	10%	\$0
Contractor's Overhead and Profit	15%	\$518,000
Mobilization and Demobilization	5%	\$173,000
Contractor's General Conditions	10%	\$345,000
SUBTOTAL		\$4,490,000
Project Phase-Level OPCC Contingency	30%	\$1,347,000

ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST		\$5,840,000
Construction Contingency	0%	\$0

Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 25% \$1,460,000 ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST \$7,300,000



OPPC PROVIDED BY: NS



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

Sheet Title: Conveyance PS

Element #: 11 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	GCSD Secondary Effluent Pump Station	1	EA	\$1,890,000	\$1,890,000	\$0	\$1,890,000
2	GCSD Tertiary Effluent Pump Station	1	EA	\$1,960,000	\$1,960,000	\$0	\$1,960,000
3	FWD Tertiary Effluent Pump Station	1	EA	\$1,840,000	\$1,840,000	\$0	\$1,840,000
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9							
10							
H							
	SUBTOTAL				I.		\$5,690,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%	\$0	
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$5,690,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				0%		\$0
	Contractor's Overhead and Profit				0%		\$0
	Mobilization and Demobilization				0%		\$0
	Contractor's General Conditions				0%		\$0
	SUBTOTAL						\$5,690,000
	Project Phase-Level OPCC Contingency						\$1,707,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$7,400,000
	Construction Contingency				0%		\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	25%		\$1,850,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$9,250,000

Last Revised: 9-2-25

OPPC PROVIDED BY: NS



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: RRCSD Hydraulic

Sheet Title: RRCSD Hydraulic OPPC PREPARATION DATE: 21-May-25
Element #: REVIEWED BY: CEH

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST	
1	18" UV Effluent Pipe	150	LF	\$540	\$81,000	\$0	\$81,000	
2	16" Mixed Liquor Pipe	450	LF	\$480	\$216,000	\$0	\$216,000	
3	14" Secondary Effluent Pipe	60	LF	\$420	\$25,200	\$0	\$25,000	
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10								
	SUBTOTAL						\$322,000	
	Plant Paving, Grading, and Yard Piping				0%		\$0	
	Mechanical and Piping				0%		\$0	
	Electrical				0%		\$0	
	Instrumentation and Controls				0%		\$0	
	SUBTOTAL						\$320,000	
	Tax on Materials				0%		\$0	
	Contractor's Markup on Sub-Contractors' Work				10%		\$0	
	Contractor's Overhead and Profit				15%		\$48,000	
	Mobilization and Demobilization				5%		\$16,000	
	Contractor's General Conditions				10%		\$32,000	
	SUBTOTAL						\$420,000	
	Project Phase-Level OPCC Contingency				30%		\$126,000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$550,000	
	Construction Contingency				0%		\$0	
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and L	egal and A	Admin		25%		\$138,000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$690,000	

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: RRCSD CIP

Element #: 13 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Capital Improvement Programs	1	LS	\$8,000,000	\$8,000,000	\$0	\$8,000,000
2	Headworks Improvement	1	LS	\$1,991,434	\$1,991,434	\$0	\$2,000,000
3							
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9							
10							
	SUBTOTAL				•		\$10,000,000
	Plant Paving, Grading, and Yard Piping				5% \$50		
	Mechanical and Piping				5%		\$500,000
	Electrical				10%		\$1,000,000
	Instrumentation and Controls				10%		\$1,000,000
	SUBTOTAL						\$13,000,000
	Tax on Materials				9.3%		\$900,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$200,000
	Contractor's Overhead and Profit				15%		\$2,000,000
	Mobilization and Demobilization				5%		\$700,000
	Contractor's General Conditions				10%		\$1,300,000
	SUBTOTAL						\$18,000,000
	Project Phase-Level OPCC Contingency	30%		\$5,400,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						
	Construction Contingency		0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, an	d Legal and A	dmin		25%		\$5,800,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$29,000,000

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: Land Application

Element #: 14 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Land Application Area	5	acres	\$25,000	\$125,000	\$0	\$125,000
2							
3							
4							
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7							
8							
9							
10							
	SUBTOTAL						\$125,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$130,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				0%		\$0
	Contractor's Overhead and Profit				0%		\$0
	Mobilization and Demobilization				0%		\$0
	Contractor's General Conditions				0%		\$0
	SUBTOTAL						\$130,000
	Project Phase-Level OPCC Contingency	30%		\$39,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$170,000
	Construction Contingency						\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	d Legal and A	dmin		25%		\$43,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$210,000

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
OPCC Manager: LMS & NS
Reviewer: CEH

Description of Work: Cost Estimating

Type of Estimate: Class 5 **Date of This Estimate:** 21-May-25

ELEMENT#	DESCRIPTION	UNIT COST	UNITS	ANTICIPATED COST
1	Fill Effluent Pond at FWD WWTP	\$3,500,000	1	\$3,500,000
2	Influent Pump Station to MBR System at FWD WWTP	\$3,200,000	1	\$3,200,000
3	Fine Screens at FWD WWTP	\$3,200,000	1	\$3,200,000
4	MBR System at FWD WWTP	\$34,700,000	1	\$34,700,000
5	UV Disinfection System at FWD WWTP	\$4,700,000	1	\$4,700,000
6	WAS Thickening, Aerobic Digestion and Dewatering at FWD	\$16,100,000	1	\$16,100,000
7	Outfall to Russian River	\$32,500,000	1	\$32,500,000
8	Equalization Facilities at FWD WWTP	\$3,700,000	1	\$3,700,000
9	Headworks Improvement at GCSD WWTP	\$800,000	1	\$800,000
10	Equalization Facilities at GCSD WWTP	\$200,000	1	\$200,000
11	GCSD/FWD Conveyance Pipelines	\$3,300,000	1	\$3,300,000
12	Equalization Facilities at RRCSD WWTP	\$300,000	1	\$300,000
13	RRCSD Conveyance Pipelines	\$76,000,000	1	\$76,000,000
14	Conveyance Pump Stations	\$15,300,000	1	\$15,300,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE PROJECT COST			\$197,500,000
	Construction Contingency	0%		\$197,300,000
	Engineering Design, Environmental Planning and Studies, Construction	3 70		ÇÜ
	Management, ESDC, and Legal and Admin Costs	25%		\$54,300,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL CO	ST		\$251,800,000





LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: Eff Pond Fill @FWD

ent #: 1 REVIEWED BY: CEH

	P. E. C. C. L. C.	MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Effluent Pond Fill	15,700	CY	\$120	\$1,884,000	\$0	\$1,884,000
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	SUBTOTAL						\$1,884,000
	Plant Paving, Grading, and Yard Piping				10%		\$188,000
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$2,070,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$311,000
	Mobilization and Demobilization				5%		\$104,000
	Contractor's General Conditions				10%		\$207,000
	SUBTOTAL						\$2,690,000
	Project Phase-Level OPCC Contingency		30%		\$807,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$3,500,000
	Construction Contingency						\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, an	d Legal and A	dmin		25%		\$875,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$4,380,000



OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: MBR IPS

lement #: 2

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	4.5 mgd pump station combining and conveying flow from all regional partners into MBR	1	EA	\$2,470,000	\$2,470,000	\$0	\$2,470,000
	system			7 = 7 · · · · · 7 · · · ·	Ţ=, :: 0,000	,,,	+ = , · · · , · · ·
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	SUBTOTAL						\$2,470,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$2,470,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				0%		\$0
	Contractor's Overhead and Profit				0%		\$0
	Mobilization and Demobilization				0%		\$0
	Contractor's General Conditions				0%		\$0
	SUBTOTAL				\$2,470,000		
	Project Phase-Level OPCC Contingency	30%		\$741,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						
	Construction Contingency	0%		\$0			
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin						\$803,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$4,010,000

Last Revised: 9-2-25

OPPC PROVIDED BY: LMS

OPPC PREPARATION DATE: 21-May-25



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

Sheet Title: Fine Screens

nent #: 3 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Concrete platform for elevated fine screens (dumpster below)	119	CY	\$550	\$65,450	\$65,450	\$131,000
2	Aluminum stairs up to fine screen platform	1	LS	\$5,000	\$5,000	\$0	\$5,000
3	Fine Screen (2mm) System with Washer/Compactor, 2 units (1 duty + 1 standby), each 4.5 mgd capacity	LS	1	\$666,000	\$666,000	\$333,000	\$999,000
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$1,135,000
	Plant Paving, Grading, and Yard Piping				10%		\$114,000
	Mechanical and Piping				10%		\$114,000
	Electrical				25%		\$284,000
	Instrumentation and Controls				15%		\$170,000
	SUBTOTAL						\$1,820,000
	Tax on Materials				9.3%		\$68,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$45,000
	Contractor's Overhead and Profit				15%		\$273,000
	Mobilization and Demobilization				5%		\$91,000
	Contractor's General Conditions				10%		\$182,000
	SUBTOTAL						\$2,480,000
	Project Phase-Level OPCC Contingency 30%						\$744,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						
	Construction Contingency 0%						\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 25%						\$805,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$4,030,000

OPPC PROVIDED BY: LMS



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05 Sheet Title: MBR System

Element #: 4

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Concrete for process basins and membrane basins	1,671	CY	\$550	\$919,050	\$919,050	\$1,838,000
2	Cinderblock building for blowers next to MBR process basins.	1,350	SF	\$450	\$607,500	\$0	\$608,000
3	Cinderblock building for permeate pumps next to MBR membrane basins.	1,288	SF	\$450	\$579,375	\$0	\$579,000
4	MBR Treatment System (4.5 mgd capacity)	1	LS	\$4,571,100	\$4,571,100	\$4,571,100	\$9,142,000
5	Bridge crane system above membrane basins	1	EA	\$80,000	\$80,000	\$40,000	
6	<u> </u>						
7							
8							
9							
10							
	SUBTOTAL						\$12,287,000
	Plant Paving, Grading, and Yard Piping				10%		\$1,229,000
	Mechanical and Piping				10%		\$1,229,000
	Electrical				25%		\$3,072,000
	Instrumentation and Controls				15%		\$1,843,000
	SUBTOTAL						\$19,660,000
	Tax on Materials				9.3%		\$625,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$492,000
	Contractor's Overhead and Profit				15%		\$2,949,000
	Mobilization and Demobilization				5%		\$983,000
	Contractor's General Conditions				10%		\$1,966,000
	SUBTOTAL						\$26,680,000
	Project Phase-Level OPCC Contingency						\$8,004,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST \$						\$34,680,000
	Construction Contingency			0%		\$0	
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	d Legal and A	dmin		25%		\$8,670,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$43,350,000



OPPC PROVIDED BY: LMS

OPPC PREPARATION DATE: 21-May-25



OWNER: Sonoma Water
LOCATION: Sonoma County, CA
WYA Project #: 798-50-24-05

neet Title: UV

ement #: 5

OPPC PROVIDED BY: LMS

OPPC PREPARATION DATE: 21-May-25

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Concrete for two UV channels	68	CY	\$550	\$37,400	\$37,400	\$75,000
2	Concrete pads for control panels (one dedicated to each channel)	11	CY	\$550	\$6,050	\$6,050	\$12,000
3	Aluminum grating over channels	178	SF	\$35	\$6,230	\$0	\$6,000
4	Canopy over channels and concrete pads	1,058	SF	\$85	\$89,930	\$0	\$90,000
5	UV Treatment System (two channels, 4.5 mgd total capacity, 80 mJ/cm2 @65%UVT)	1	LS	\$733,000	\$733,000	\$733,000	\$1,466,000
6							
7							
8							
9							
10							
	SUBTOTAL						\$1,649,000
	Plant Paving, Grading, and Yard Piping				10%		\$165,000
	Mechanical and Piping			10%			\$165,000
	Electrical				25%		\$412,000
	Instrumentation and Controls				15%		\$247,000
	SUBTOTAL						\$2,640,000
	Tax on Materials				9.3%		\$81,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$66,000
	Contractor's Overhead and Profit				15%		\$396,000
	Mobilization and Demobilization				5%		\$132,000
	Contractor's General Conditions				10%		\$264,000
	SUBTOTAL						\$3,580,000
	Project Phase-Level OPCC Contingency			30%		\$1,074,000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$4,650,000
	Construction Contingency 0%						\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	d Legal and A	dmin		25%		\$1,163,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$5,810,000



OWNER: Sonoma Water
LOCATION: Sonoma County, CA
WYA Project #: 798-50-24-05

neet Title: Aerobic Digestion

ement #: 6

		MATERIAL		MATERIAL	MATERIAL	INSTALL		
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST	
1	Slab, Roof, Walls - Aerobic Digesters	1,097	CY	\$550	\$603,566	\$603,566	\$1,207,000	
2	Slab, Roof Walls - TWAS Storage	152	CY	\$550	\$83,801	\$83,801	\$168,000	
3	Solids and Electrical Building	7,000	SF	\$400	\$2,800,000	\$0	\$2,800,000	
4	WAS Pumps	2	EA	\$35,000	\$70,000	\$14,000	\$84,000	
5	Rotary Drum Thickener	1	EA	\$187,462	\$187,462	\$74,985	\$262,000	
6	Thickener Feed Pump	1	EA	\$19,975	\$19,975	\$7,990	\$28,000	
7	TWAS Tank Mixer	1	EA	\$50,000	\$50,000	\$20,000	\$70,000	
8	TWAS Tank Blower	1	EA	\$60,700	\$60,700	\$24,280	\$85,000	
9	TWAS Pumps	1	EA	\$19,975	\$19,975	\$7,990	\$28,000	
10	Centrifuge	1	EA	\$477,726	\$477,726	\$191,090	\$669,000	
11	Conveyors	1	LS	\$54,440	\$54,440	\$21,776	\$76,000	
12	Digester Blowers and Diffusers	1	EA	\$121,400	\$121,400	\$48,560	\$170,000	
	SUBTOTAL						\$5,647,000	
	Plant Paving, Grading, and Yard Piping				10%		\$565,000	
	Mechanical and Piping				10%		\$565,000	
	Electrical				25%		\$1,412,000	
	Instrumentation and Controls				15%		\$847,000	
	SUBTOTAL						\$9,040,000	
	Tax on Materials				9.3%		\$405,000	
	Contractor's Markup on Sub-Contractors' Work				10%		\$226,000	
	Contractor's Overhead and Profit				15%		\$1,356,000	
	Mobilization and Demobilization				5%		\$452,000	
	Contractor's General Conditions				10%		\$904,000	
	SUBTOTAL						\$12,380,000	
	Project Phase-Level OPCC Contingency				30%		\$3,714,000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$16,090,000	
	Construction Contingency 0%						\$0	
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	d Legal and A	dmin		25%		\$4,023,000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST \$20,110,0							

WEST YOST

Sonoma Water

Last Revised: 9-2-25

OPPC PROVIDED BY:

OPPC PREPARATION DATE: 21-May-25



OWNER: Sonoma Water
LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

Sheet Title: Outfall

Element #: 7

OPPC PROVIDED BY:

OPPC PREPARATION DATE: 21-May-25

REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Outfall	1	LS	\$3,800,000	\$3,800,000	\$0	\$3,800,000
2	24" Pipeline	21,400	LF	\$720	\$15,408,000	\$0	\$15,408,000
3							
4							
5							
6							
7							
8							
9							
10							
SUBTOTAL \$19,							
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$19,210,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$2,882,000
	Mobilization and Demobilization				5%		\$961,000
	Contractor's General Conditions				10%		\$1,921,000
	SUBTOTAL						\$24,970,000
	Project Phase-Level OPCC Contingency				30%		\$7,491,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$32,460,000
	Construction Contingency				0%		\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and		40%		\$12,984,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$45,440,000

Last Revised: 9-2-25



LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

eet Title: FWD EQ Facilities

ent #: 8 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Flow Control Structure	1	EA	\$98,000	\$98,000	\$0	\$98,000
2	4" Pipeline	210	0	\$120	\$25,200	\$0	\$25,000
3	8" Pipeline	140	0	\$240	\$33,600	\$0	\$34,000
4	16" Pipeline	560	0	\$480	\$268,800	\$0	\$269,000
5	FWD Ponds Drain Pump	1	EA	\$1,760,000	\$1,760,000	\$0	\$1,760,000
6							
7							
8							
9							
10							
	SUBTOTAL						\$2,186,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$2,190,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$329,000
	Mobilization and Demobilization				5%		\$110,000
	Contractor's General Conditions				10%		\$219,000
	SUBTOTAL						\$2,850,000
	Project Phase-Level OPCC Contingency		30%		\$855,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$3,710,000 \$0
	Construction Contingency		0%				
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, an		25%		\$928,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST				\$4,640,000		



OPPC PROVIDED BY: Niloofar S.



LOCATION: Sonoma County, CA
WYA Project #: 798-50-24-05

Sheet Title: GCSD Headworks

lement #: 9

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	ROTAMAT Micro Strainer Ro9	1	LS	\$136,782	\$136,782	\$136,782	\$274,000
2	Bin	1	LS	\$50,000	\$50,000	\$0	\$50,000
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL					\$324,000	
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				5%		\$16,000
	Electrical				25%		\$81,000
	Instrumentation and Controls				15%		\$49,000
	SUBTOTAL						\$470,000
	Tax on Materials				9.3%		\$17,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$13,000
	Contractor's Overhead and Profit				15%		\$71,000
	Mobilization and Demobilization				5%		\$24,000
	Contractor's General Conditions				10%		\$47,000
	SUBTOTAL						\$640,000
	Project Phase-Level OPCC Contingency				30%		\$192,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST				\$830,000		
	Construction Contingency		0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	dmin		25%		\$208,000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$1,040,000

OPPC PROVIDED BY: Niloofar S.

REVIEWED BY: CEH



LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: GCSD EQ Facilities

ement #: 10 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Flow Control Structure	1	EA	\$98,000	\$98,000	\$0	\$98,000
2	8" Pipeline	30	0	\$240	\$7,200	\$0	\$7,000
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$105,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$110,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$17,000
	Mobilization and Demobilization				5%		\$6,000
	Contractor's General Conditions				10%		\$11,000
	SUBTOTAL						\$140,000
	Project Phase-Level OPCC Contingency						\$42,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$180,000
	Construction Contingency						\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, an	d Legal and A	dmin		25%		\$45,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$230,000



OPPC PROVIDED BY: Niloofar S.



Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

Pipelines-FWD GCSD

REVIEWED BY: CEH 11

		MATERIAL		MATERIAL	MATERIAL	INSTALL		
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST	
1	Rehab 8" Pipe	2,760	LF	\$120	\$331,200	\$0	\$331,000	
2	8" Pipeline	1,300	LF	\$240	\$312,000	\$0	\$312,000	
3	16" Pipeline	2,760	LF	\$480	\$1,324,800	\$0	\$1,325,000	
4								
5								
6								
7								
8								
9								
10								
	SUBTOTAL							
	Plant Paving, Grading, and Yard Piping				0%		\$0	
	Mechanical and Piping				0%		\$0	
	Electrical				0%		\$0	
	Instrumentation and Controls				0%		\$0	
	SUBTOTAL						\$1,970,000	
	Tax on Materials				0%		\$0	
	Contractor's Markup on Sub-Contractors' Work				10%		\$0	
	Contractor's Overhead and Profit				15%		\$296,000	
	Mobilization and Demobilization				5%		\$99,000	
	Contractor's General Conditions				10%		\$197,000	
	SUBTOTAL						\$2,560,000	
	Project Phase-Level OPCC Contingency		30%		\$768,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$3,330,000	
	Construction Contingency				0%		\$0	
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, an		25%		\$833,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$4,160,000	

OPPC PROVIDED BY: NS



798-50-24-05

LOCATION: Sonoma County, CA

heet Title: RRCSD EQ Facilities

ent #: 12 REVIEWED BY: CEH

	DESCRIPTION	MATERIAL		MATERIAL	MATERIAL	INSTALL	TOTAL 000T
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Flow Control Structure	1	EA	\$98,000	\$98,000	\$0	
2	16" Pipeline	190	0	\$480	\$91,200	\$0	\$91,000
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$189,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$190,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$29,000
	Mobilization and Demobilization				5%		\$10,000
	Contractor's General Conditions				10%		\$19,000
	SUBTOTAL						\$250,000
	Project Phase-Level OPCC Contingency		30%		\$75,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$330,000
	Construction Contingency		0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and		25%		\$83,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST				\$410,000		

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

heet Title: Pipelines-RRCSD

ment #: 13

	MATERIAL		MATERIAL	MATERIAL	INSTALL		
DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST	
1 Creek Crossing	2	EA	\$3,800,000		\$0		
2 Rehab 8" Pipe	6,220	LF	\$120		\$0		
3 8" Pipeline	2,920	LF	\$240		\$0		
4 16" Pipeline	6,220	LF	\$480		\$0		
5 20" Pipeline	54,910	LF		\$32,946,000	· ·	\$32,946,000	
6	,		,	, , , , , , , , , , , , , , , , , , , ,	, -	, , , , , , , , , , , , , , , , , , , ,	
7							
8							
9							
10							
SUBTOTAL						\$44,979,000	
Plant Paving, Grading, and Yard Piping				0%		\$0	
Mechanical and Piping				0%		\$0	
Electrical				0%		\$0	
Instrumentation and Controls				0%		\$0	
SUBTOTAL						\$44,980,000	
Tax on Materials				0%		\$0	
Contractor's Markup on Sub-Contractors' Work				10%		\$0	
Contractor's Overhead and Profit				15%		\$6,747,000	
Mobilization and Demobilization				5%		\$2,249,000	
Contractor's General Conditions				10%		\$4,498,000	
SUBTOTAL						\$58,470,000	
Project Phase-Level OPCC Contingency		30%		\$17,541,000			
ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$76,010,000	
Construction Contingency 0%							
Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	d Legal and A	dmin		25%		\$19,003,000	
ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST							



OPPC PROVIDED BY: NS

OPPC PREPARATION DATE: 21-May-25



LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: Conveyance PS

ement #: 14

OPPC PROVIDED BY: NS	
OPPC PREPARATION DATE: 21-May-2	5

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	RRCSD Raw Water Effluent Pump Station	1	EA	\$2,700,000	\$2,700,000	\$0	\$2,700,000
2	GCSD Raw Water Effluent Pump Station	1	EA	\$1,810,000	\$1,810,000	\$0	\$1,810,000
3	GCSD Tertiary Water Pump Station	1	EA	\$1,860,000	\$1,860,000	\$0	\$1,860,000
4	FWD Tertiary Effluent Pump Station	1	EA	\$2,470,000	\$2,470,000	\$0	\$2,470,000
5	FWD Outfall Pump Station	1	EA	\$2,920,000	\$2,920,000	\$0	\$2,920,000
6							
7							
8							
9							
10							
SUBTOTAL \$11,76							
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$11,760,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				0%		\$0
	Contractor's Overhead and Profit				0%		\$0
	Mobilization and Demobilization				0%		\$0
	Contractor's General Conditions				0%		\$0
	SUBTOTAL						\$11,760,000
	Project Phase-Level OPCC Contingency		30%		\$3,528,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$15,290,000
	Construction Contingency				0%		\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and		25%		\$3,823,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$19,110,000



OWNER: **Sonoma Water** LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05 **OPCC Manager:** Niloofar S. Reviewer: CEH

Description of Work: Cost Estimating

Type of Estimate: Class 5 **Date of This Estimate:** 21-May-25

ELEMENT#	DESCRIPTION	UNIT COST	UNITS	ANTICIPATED COST
1	Equalization Facilities at FWD WWTP	\$3,400,000	1	\$3,400,000
2	Headworks Improvement at GCSD WWTP	\$800,000	1	\$800,000
3	Equalization Facilities at GCSD WWTP	\$200,000	1	\$200,000
4	GCSD/FWD Conveyance Pipelines	\$22,300,000	1	\$22,300,000
5	Equalization Facilities at RRCSD WWTP	\$300,000	1	\$300,000
6	RRCSD Conveyance Pipelines	\$132,300,000	1	\$132,300,000
7	Conveyance Pump Stations	\$8,500,000	1	\$8,500,000
8	Connection fee to Windsor	\$69,600,000	1	\$69,600,000
		. , ,		. , ,
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE PROJECT COST	•		\$237,400,000
	Construction Contingency		\$0	
	Engineering Design, Environmental Planning and Studies, Construction			
	Management, ESDC, and Legal and Admin Costs	25%		\$59,400,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL CO	ST		\$296,800,000





OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: FWD EQ Facilities

ment #: 1 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	MATERIAL UNIT COST	COST		TOTAL COST
1	Flow Control Structure	1	EA	\$98,000		\$0	\$98,000
-	4" Pipeline	210	LF	\$120		\$0	\$25,000
	8" Pipeline	480	LF	\$240		\$0	\$115,000
4	FWD Ponds Drain Pump	1	EA	\$1,760,000		\$0 \$0	
5	Wo Folius Dialii Fullip		LA	\$1,700,000	\$1,700,000	٥ڔ	31,700,000
_							
6							
7							
8							
9							
10							
-							
_	SUBTOTAL						\$1,998,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
-	Instrumentation and Controls				0%		\$0
_	SUBTOTAL				20/		\$2,000,000
	Tax on Materials				0%		\$0 60
	Contractor's Markup on Sub-Contractors' Work Contractor's Overhead and Profit				10% 15%		\$0 \$300,000
	Mobilization and Demobilization				13% 5%		\$100,000
	Contractor's General Conditions				10%		\$200,000
	SUBTOTAL						\$2,600,000
	Project Phase-Level OPCC Contingency		30%		\$780,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST				3070		\$3,380,000
\vdash	Construction Contingency		0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin 25%						\$845,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: GCSD Headworks

ement #: 2

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	ROTAMAT Micro Strainer Ro9	1	LS	\$136,782	\$136,782	\$136,782	\$274,000
2	Bin	1	LS	\$50,000	\$50,000	\$0	\$50,000
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$324,000
	Plant Paving, Grading, and Yard Piping						\$0
	Mechanical and Piping				5%		\$16,000
	Electrical				25%		\$81,000
	Instrumentation and Controls				15%		\$49,000
	SUBTOTAL					\$470,000	
	Tax on Materials				9.3%		\$17,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$13,000
	Contractor's Overhead and Profit				15%		\$71,000
	Mobilization and Demobilization				5%		\$24,000
	Contractor's General Conditions				10%		\$47,000
	SUBTOTAL						\$640,000
	Project Phase-Level OPCC Contingency				30%		\$192,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST					\$830,000	
	Construction Contingency				0%		\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin				25%		\$208,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$1,040,000

OPPC PROVIDED BY: Niloofar S.

REVIEWED BY: CEH



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

neet Title: GCSD EQ Facilities ement #: 3

OPPC PREPARATION DATE: 21-May-25
REVIEWED BY: CEH

OPPC PROVIDED BY: Niloofar S.

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Flow Control Structure	1	EA	\$98,000	\$98,000	\$0	\$98,000
2	8" Pipeline	30	LF	\$240	\$7,200	\$0	\$7,000
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$105,000
	Plant Paving, Grading, and Yard Piping						\$0
	Mechanical and Piping						\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL					\$110,000	
	Tax on Materials						\$0
	Contractor's Markup on Sub-Contractors' Work						\$0
	Contractor's Overhead and Profit						\$17,000
	Mobilization and Demobilization						\$6,000
	Contractor's General Conditions						\$11,000
	SUBTOTAL					\$140,000	
	Project Phase-Level OPCC Contingency			30%		\$42,000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$180,000
	Construction Contingency				0%		\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin				25%		\$45,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST					\$230,000	



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

neet Title: Pipelines-FWD GCSD

ment #: 4

OPPC PROVIDED BY: Niloofar S.
OPPC PREPARATION DATE: 21-May-25
REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL		
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST	
1	Creek Crossing	1	EA	\$3,800,000	\$3,878,832	\$0	\$3,879,000	
2	Rehab 8 inch Pipe	8,980	LF	\$120	\$1,077,600	\$0	\$1,078,000	
3	8 inch Pipeline	8,450	LF	\$240	\$2,028,000	\$0	\$2,028,000	
4	24 Inch Pipeline	8,623	LF	\$720	\$6,208,744	\$0	\$6,209,000	
5								
6								
7								
8								
9								
10								
	SUBTOTAL						\$13,194,000	
	Plant Paving, Grading, and Yard Piping						\$0	
	Mechanical and Piping				0%		\$0	
	Electrical				0%		\$0	
	Instrumentation and Controls			0%				
	SUBTOTAL \$					\$13,190,000		
	Tax on Materials			0%	\$0			
	Contractor's Markup on Sub-Contractors' Work				10%		\$0	
	Contractor's Overhead and Profit			15%		\$1,979,000		
	Mobilization and Demobilization				5%		\$660,000	
	Contractor's General Conditions				10%		\$1,319,000	
	SUBTOTAL						\$17,150,000	
	Project Phase-Level OPCC Contingency				30%		\$5,145,000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST					\$22,300,000		
	Construction Contingency			0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin				25%		\$5,575,000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST					\$27,880,000		



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

eet Title: RRCSD EQ Facilities

nent #: 5 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Flow Control Structure	1	EA	\$98,000	\$98,000	\$0	\$98,000
2	16" Pipeline	190	LF	\$480	\$91,200	\$0	\$91,000
3							
4							
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	SUBTOTAL						\$189,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$190,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$29,000
	Mobilization and Demobilization				5%		\$10,000
	Contractor's General Conditions				10%		\$19,000
	SUBTOTAL				\$250,000		
	Project Phase-Level OPCC Contingency						\$75,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST				\$330,000		
	Construction Contingency		0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, an		25%		\$83,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST					\$410,000	

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

eet Title: Pipelines-RRCSD

ment #: 6 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Creek Crossing	6	EA	\$3,800,000	\$22,721,168	\$0	\$22,721,000
2	20 inch Pipeline	52,270	LF	\$600	\$31,362,000	\$0	\$31,362,000
3	24 Inch Pipeline	33,617	LF	\$720	\$24,204,056	\$0	\$24,204,000
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1							
	SUBTOTAL	<u> </u>					\$78,287,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$78,290,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$11,744,000
	Mobilization and Demobilization				5%		\$3,915,000
	Contractor's General Conditions				10%		\$7,829,000
	SUBTOTAL						\$101,780,000
	Project Phase-Level OPCC Contingency						\$30,534,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$132,310,000
	Construction Contingency						\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	25%		\$33,078,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST				\$165,390,000		

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

heet Title: Conveyance PS

ement #: 7

OPPC PROVIDED BY: Niloofar S. **OPPC PREPARATION DATE:** 21-May-25

REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	GCSD Raw Wastewater Pump Station	1	EA	\$1,810,000	\$1,810,000	\$0	\$1,810,000
2	FWD Raw Wastewater Pump Station	1	EA	\$2,050,000	\$2,050,000	\$0	\$2,050,000
3	RRCSD Raw Wastewater Pump Station	1	EA	\$2,700,000	\$2,700,000	\$0	\$2,700,000
4	·						
5							
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7							
8							
9							
10							
1							
	SUBTOTAL				<u> </u>		\$6,560,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$6,560,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				0%		\$0
	Contractor's Overhead and Profit				0%		\$0
	Mobilization and Demobilization				0%		\$0
	Contractor's General Conditions				0%		\$0
	SUBTOTAL				\$6,560,000		
	Project Phase-Level OPCC Contingency	30%		\$1,968,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST			\$8,530,000			
	Construction Contingency		0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	25%		\$2,133,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST			\$10,660,000			



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

heet Title: Connection fee

Element #: 8

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Connection fee to Windsor	1	LS	\$69,556,000	\$69,556,000	\$0	\$69,556,000
2							
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$69,556,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$69,560,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				0%		\$0
	Contractor's Overhead and Profit				0%		\$0
	Mobilization and Demobilization				0%		\$0
	Contractor's General Conditions				0%		\$0
	SUBTOTAL						\$69,560,000
	Project Phase-Level OPCC Contingency						\$0
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST				\$69,560,000		
	Construction Contingency		0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and		0%		\$0		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST				\$69,560,000		

OPPC PROVIDED BY: Niloofar S.

REVIEWED BY: CEH



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05 **OPCC Manager:** Niloofar S. Reviewer: CEH

Description of Work: Cost Estimating

Type of Estimate: Class 5 Date of This Estimate: 21-May-25

ELEMENT#	DESCRIPTION	UNIT COST	UNITS	ANTICIPATED COST	
1	Equalization Facilities at FWD WWTP	\$3,400,000	1	\$3,400,000	
2	Headworks Improvement at GCSD WWTP	\$800,000	1	\$800,000	
3	Equalization Facilities at GCSD WWTP	\$200,000	1	\$200,000	
4	GCSD/FWD Conveyance Pipelines	\$15,400,000	1	\$15,400,000	
5	Equalization Facilities at RRCSD WWTP	\$300,000	1	\$300,000	
6	RRCSD Conveyance Pipelines	\$124,400,000	1	\$124,400,000	
7	Conveyance Pump Stations	\$9,700,000	1	\$9,700,000	
8	Connection Fee to Santa Rosa	\$73,800,000	1	\$73,800,000	
				4000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE PROJECT COST		\$228,000,000		
	Construction Contingency Engineering Design, Environmental Planning and Studies, Construction		\$0		
	Management, ESDC, and Legal and Admin Costs	25%	% \$57,000,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL CO	ST		\$285,000,000	



West County - Alternative 2b PROJECT:

FWD EQ Facilities

OWNER: **Sonoma Water** LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05 **Sheet Title:**

Element #: 1 **REVIEWED BY: CEH**

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Flow Control Structure	1	EA	\$98,000	\$98,000	\$0	\$98,000
2	4" Pipeline	210	LF	\$120	\$25,200	\$0	\$25,000
3	8" Pipeline	480	LF	\$240	\$115,200	\$0	\$115,000
4	FWD Ponds Drain Pump	1	EA	\$1,760,000		\$0	
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10							
	SUBTOTAL						\$1,998,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$2,000,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$300,000
	Mobilization and Demobilization				5%		\$100,000
	Contractor's General Conditions				10%		\$200,000
	SUBTOTAL						\$2,600,000
	Project Phase-Level OPCC Contingency						\$780,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST			\$3,380,000			
	Construction Contingency	0%		\$0			
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	25%		\$845,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST			\$4,230,000			

OPPC PROVIDED BY: Niloofar S.



GCSD Headworks

OWNER: **Sonoma Water** LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05 **Sheet Title:**

Element #: 2 **REVIEWED BY:** CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	ROTAMAT Micro Strainer Ro9	1	LS	\$136,782	\$136,782	\$136,782	\$274,000
2	Bin	1	LS	\$50,000	\$50,000	\$0	\$50,000
3							
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	SUBTOTAL	•		<u> </u>	<u> </u>		\$324,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				5%		\$16,000
	Electrical				25%		\$81,000
	Instrumentation and Controls				15%		\$49,000
	SUBTOTAL						\$470,000
	Tax on Materials				9.3%		\$17,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$13,000
	Contractor's Overhead and Profit				15%		\$71,000
	Mobilization and Demobilization				5%		\$24,000
	Contractor's General Conditions				10%		\$47,000
	SUBTOTAL				\$640,000		
	Project Phase-Level OPCC Contingency		30%		\$192,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST				\$830,000		
	Construction Contingency		0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and		25%		\$208,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST				\$1,040,000		

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: GCSD EQ Facil

heet Title: GCSD EQ Facilities

Element #: 3 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	TOTAL COST
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
_	Flow Control Structure	1	EA	\$98,000		\$0	
2	8" Pipeline	30	LF	\$240	\$7,200	\$0	\$7,000
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$105,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$110,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$17,000
	Mobilization and Demobilization				5%		\$6,000
	Contractor's General Conditions				10%		\$11,000
	SUBTOTAL				\$140,000		
	Project Phase-Level OPCC Contingency		30%		\$42,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST				\$180,000		
	Construction Contingency		0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, an		25%		\$45,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$230,000

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

Sheet Title: Pipelines-FWD GCSD

Element #: 4 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Creek Crossing	0.4	EA	\$3,800,000	\$1,551,533	\$0	\$1,552,000
2	8 inch Pipe	5,810	LF	\$240	\$1,394,400	\$0	\$1,394,000
3	16 inch Pipe	607	LF	\$480	\$291,224	\$0	\$291,000
4	24 Inch Pipe	8,193	LF	\$720	\$5,898,601	\$0	\$5,899,000
5							
6							
7							
8							
9							
10							
	SUBTOTAL	•					\$9,136,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$9,140,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$1,371,000
	Mobilization and Demobilization				5%		\$457,000
	Contractor's General Conditions				10%		\$914,000
	SUBTOTAL						\$11,880,000
	Project Phase-Level OPCC Contingency	30%		\$3,564,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST				\$15,440,000		
	Construction Contingency		0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	25%		\$3,860,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST			\$19,300,000			

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

Sheet Title: RRCSD EQ Facilities

Element #: 5 REVIEWED BY: CEH

	DESCRIPTION	MATERIAL	LINUT	MATERIAL	MATERIAL	INSTALL	TOTAL COST
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Flow Control Structure	1	EA	\$98,000	\$98,000	\$0	
2	16" Pipeline	190	LF	\$480	\$91,200	\$0	\$91,000
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL			<u>. </u>			\$189,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$190,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$29,000
	Mobilization and Demobilization				5%		\$10,000
	Contractor's General Conditions				10%		\$19,000
	SUBTOTAL						\$250,000
	Project Phase-Level OPCC Contingency		30%		\$75,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST				\$330,000		
	Construction Contingency		0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and		25%		\$83,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST					\$410,000	

Last Revised: 8-22-25

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: Pipelines-RRCSD

Element #: 6 REVIEWED BY: CEH

		MATERIAL		MATERIAL	MATERIAL	INSTALL	
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Creek Crossing	4	EA	\$3,800,000	\$13,648,467	\$0	\$13,648,000
2	16 inch Pipe	8,373	LF	\$480	\$4,019,176	\$0	\$4,019,000
3	20 inch Pipe	54,910	LF	\$600	\$32,946,000	\$0	\$32,946,000
4	24 Inch Pipe	31,937	LF	\$720	\$22,994,999	\$0	\$22,995,000
5							
6							
7							
8							
9							
10							
	SUBTOTAL			•			\$73,608,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$73,610,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$11,042,000
	Mobilization and Demobilization				5%		\$3,681,000
	Contractor's General Conditions				10%		\$7,361,000
	SUBTOTAL						\$95,690,000
	Project Phase-Level OPCC Contingency	30%		\$28,707,000			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST				\$124,400,000		
	Construction Contingency		0%	\$0			
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and		25%		\$31,100,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST			\$155,500,000			

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: Conveyance PS

Element #: 7

DESCRIPTION	MATERIAL QTY	UNIT	MATERIAL UNIT COST	MATERIAL COST	INSTALL COST	TOTAL COST
1 RRCSD Raw Wastewater Pump Station	1	EA	\$2,700,000	\$2,700,000	\$0	\$2,700,000
2 FWD Raw Wastewater Pump Station	1	EA	\$2,760,000	\$2,760,000	\$0	\$2,760,000
3 GCSD Raw Wastewater Pump Station	1	EA	\$1,990,000	\$1,990,000	\$0	\$1,990,000
4						
5						
6						
7						
8						
9						
10						
SUBTOTAL	•	•				\$7,450,000
Plant Paving, Grading, and Yard Piping				0%		\$0
Mechanical and Piping				0%		\$0
Electrical				0%		\$0
Instrumentation and Controls				0%		\$0
SUBTOTAL						\$7,450,000
Tax on Materials				0%		\$0
Contractor's Markup on Sub-Contractors' Work				0%		\$0
Contractor's Overhead and Profit				0%		\$0
Mobilization and Demobilization				0%		\$0
Contractor's General Conditions				0%		\$0
SUBTOTAL						\$7,450,000
Project Phase-Level OPCC Contingency	30%		\$2,235,000			
ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST				\$9,690,000		
Construction Contingency	0%		\$0			
Engineering Design, Environmental Planning and Studies, Construction Management, ESD	25%		\$2,423,000			
ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST			\$12,110,000			

Last Revised: 8-22-25

OPPC PROVIDED BY: Niloofar S.

REVIEWED BY: CEH



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: Connection fee

Element #: 8 REVIEWED BY: CEH

	D FOOD DE LO	MATERIAL	LINIT	MATERIAL	MATERIAL	INSTALL	TOTAL COST
	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Connection fee to Santa Rosa	1	LS		\$68,800,000		\$68,800,000
2	Recycled Water Stoarge	1	LS	\$5,000,000	\$5,000,000	\$0	\$5,000,000
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$73,800,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$73,800,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				0%		\$0
	Contractor's Overhead and Profit				0%		\$0
	Mobilization and Demobilization				0%		\$0
	Contractor's General Conditions				0%		\$0
	SUBTOTAL						\$73,800,000
	Project Phase-Level OPCC Contingency	0%		\$0			
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						
	Construction Contingency	0%		\$0			
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	d Legal and A	dmin		0%		\$0
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$73,800,000

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
OPCC Manager: LMS & NS
Reviewer: CEH

Description of Work: Cost Estimating

Type of Estimate: Class 5
Date of This Estimate: 21-May-25

ELEMENT#	DESCRIPTION	UNIT COST	UNITS	ANTICIPATED COST
1	Fill Effluent Pond at FWD WWTP	\$3,600,000	1	\$3,600,000
2	Suspended Air Flotation at FWD WWTP	\$3,900,000	1	\$3,900,000
3	Filter influent pump station	\$2,600,000	1	\$2,600,000
4	Tertiary Disk Filtration at FWD WWTP	\$2,800,000	1	\$2,800,000
5	Chlorine Contact Basin Expansion at FWD WWTP	\$1,900,000	1	\$1,900,000
6	Headworks Improvement at GCSD WWTP	\$800,000	1	\$800,000
7	Pond Aeration System Upgrades at GCSD WWTP	\$9,400,000	1	\$9,400,000
8	Effluent Storage Pond Expansion at GCSD WWTP	\$20,400,000	1	\$20,400,000
9	Pipelines at FWD and GCSD WWTP	\$700,000	1	\$700,000
10	GCSD/FWD Conveyance Pipelines	\$5,800,000	1	\$5,800,000
11	RRCSD Conveyance Pipelines	\$146,100,000	1	\$146,100,000
12	Equalization Facilities at RRCSD	\$300,000	1	\$300,000
13	Conveyance Pump Stations	\$10,900,000	1	\$10,900,000
14	Connection Fee to Windsor	\$44,800,000	1	\$44,800,000
	ENCINEEDS DEFINANCED OF PROPARIE PROJECT COST			¢354 000 000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE PROJECT COST Construction Contingency	0%		\$254,000,000 \$0
	Engineering Design, Environmental Planning and Studies, Construction		ŞU	
	Management, ESDC, and Legal and Admin Costs		\$63,500,000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL CO	ST		\$317,500,000





PROJECT: West County - Alternative 3b
OWNER: Sonoma Water

LOCATION: Sonoma County, CA
WYA Project #: 798-50-24-05

heet Title: Eff Pond Fill @FWD

ment #: 1 REVIEWED BY: CEH

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Effluent Pond Fill	16,100	CY	\$120	\$1,932,000	\$0	\$1,932,000
2							
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$1,932,000
	Plant Paving, Grading, and Yard Piping				10%		\$193,000
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$2,130,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$320,000
	Mobilization and Demobilization				5%		\$107,000
	Contractor's General Conditions				10%		\$213,000
	SUBTOTAL						\$2,770,000
	Project Phase-Level OPCC Contingency				30%		\$831,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$3,600,000
	Construction Contingency				0%		\$0
	Plant Paving, Grading, and Yard Piping Mechanical and Piping Electrical Instrumentation and Controls SUBTOTAL Tax on Materials Contractor's Markup on Sub-Contractors' Work Contractor's Overhead and Profit Mobilization and Demobilization Contractor's General Conditions SUBTOTAL Froject Phase-Level OPCC Contingency ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$900,000
L	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$4,500,000

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05 Sheet Title: SAF @FWD

ent #: 2 REVIEWED BY: CEH

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Concrete Pad	28	CY	\$550	\$15,400	\$15,400	\$31,000
2	Secondary Effluent Junction Box	0	0	\$0	\$98,000	\$0	\$98,000
3	Suspended Air Floatation System (1.5 mgd capacity - includes tank, flocculation tubes, generate	1	LS	\$589,625	\$589,625	\$589,625	\$1,179,000
4	Canopy	820	SF	\$85	\$69,700	\$0	\$70,000
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$1,378,000
	Plant Paving, Grading, and Yard Piping				10%		\$138,000
	Mechanical and Piping				10%		\$138,000
	Electrical				25%		\$345,000
	Instrumentation and Controls				15%		\$207,000
	SUBTOTAL						\$2,210,000
	Tax on Materials				9.3%		\$71,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$55,000
	Contractor's Overhead and Profit				15%		\$332,000
	Mobilization and Demobilization				5%		\$111,000
	Contractor's General Conditions				10%		\$221,000
	SUBTOTAL						\$3,000,000
	Project Phase-Level OPCC Contingency				30%		\$900,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$3,900,000
	Construction Contingency				0%		\$0
L	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	Legal and A	Admin		25%		\$975,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$4,880,000



OPPC PROVIDED BY: Niloofar S.



PROJECT: West County - Alternative 3b
OWNER: Sonoma Water

LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: FIPS @FWD

Element #: 3

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	1.5 mgd pump station before SAF and cloth disk filters	1	LS	\$1,960,000	\$1,960,000	\$0	\$1,960,000
2							
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$1,960,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$1,960,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				0%		\$0
	Contractor's Overhead and Profit				0%		\$0
	Mobilization and Demobilization				0%		\$0
	Contractor's General Conditions				0%		\$0
	SUBTOTAL						\$1,960,000
	Project Phase-Level OPCC Contingency				30%		\$588,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$2,550,000
	Construction Contingency				0%		\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	d Legal and A	Admin		25%		\$638,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$3,190,000



OPPC PROVIDED BY: Niloofar S.

REVIEWED BY: CEH



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

heet Title: Tert.Filt. @FWD

ent #: 4 REVIEWED BY: CEH

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Concrete Pad (under both tanks)	21	CY	\$550	\$11,550	\$11,550	\$23,000
2	Cloth Media Filters (two (2) 4-Disk AquaDisk filters in steel tanks treating a max. flow of 1.5 MG	1	LS	\$600,000	\$600,000	\$300,000	\$900,000
3	Canopy	671	SF	\$85	\$57,069	\$0	\$57,000
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$980,000
	Plant Paving, Grading, and Yard Piping				10%		\$98,000
	Mechanical and Piping				10%		\$98,000
	Electrical				25%		\$245,000
	Instrumentation and Controls				15%		\$147,000
	SUBTOTAL						\$1,570,000
	Tax on Materials				9.3%		\$62,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$39,000
	Contractor's Overhead and Profit				15%		\$236,000
	Mobilization and Demobilization				5%		\$79,000
	Contractor's General Conditions				10%		\$157,000
	SUBTOTAL						\$2,140,000
	Project Phase-Level OPCC Contingency				30%		\$642,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$2,780,000
	Construction Contingency				0%		\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	l Legal and A	Admin		25%		\$695,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$3,480,000

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: CCB @FWD

ment #: 5

OPPC PROVIDED BY: Niloofar S. **OPPC PREPARATION DATE:** 21-May-25

REVIEWED BY: CEH

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST		
1	Excavation for two new chlorine contact basins	1,174	CY	\$45	\$52,830	\$0	\$53,000		
2	Concrete basins for two (2) new chlorine contactors (match existing)	395	CY	\$550	\$217,250	\$217,250	\$435,000		
3	'Additional chemical storage building for gas cylinders for the two new CCBs.	216	SF	\$450	\$97,200	\$0	\$97,000		
4	Metal grating over chlorine contact basin inlets	86	SF	\$35	\$2,993	\$0	\$3,000		
5	Surface Mounted Fiberglass Slide Gate and Frame (2 per chlorine contact basin)	4	EA	\$5,000	\$20,000	\$10,000	\$30,000		
6	Chlorine Ejector (Chlorination) Assembly (1 per chlorine contact basin)	2	EA	\$10,000	\$20,000	\$10,000	\$30,000		
7	Sulfur Dioxide Ejector (Dechlorination) Assembly (1 per chlorine contact basin)	2	EA	\$10,000	\$20,000	\$10,000	\$30,000		
8									
9									
10									
	SUBTOTAL						\$678,000		
	Plant Paving, Grading, and Yard Piping				10%		\$68,000		
	Mechanical and Piping				10%		\$68,000		
	Electrical				25%		\$170,000		
	Instrumentation and Controls				15%		\$102,000		
	SUBTOTAL						\$1,090,000		
	Tax on Materials				9.3%		\$40,000		
	Contractor's Markup on Sub-Contractors' Work				10%		\$27,000		
	Contractor's Overhead and Profit				15%		\$164,000		
	Mobilization and Demobilization				5%		\$55,000		
	Contractor's General Conditions				10%		\$109,000		
	SUBTOTAL						\$1,490,000		
	Project Phase-Level OPCC Contingency				30%		\$447,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$1,940,000		
	Construction Contingency				0%		\$0		
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	d Legal and A	Admin		25%		\$485,000		
	Instrumentation and Controls 15% \$102,000 SUBTOTAL \$1,090,000 Tax on Materials 9.3% \$40,000 Contractor's Markup on Sub-Contractors' Work 10% \$27,000 Contractor's Overhead and Profit 15% \$164,000 Mobilization and Demobilization 5% \$55,000 Contractor's General Conditions 10% \$109,000 SUBTOTAL \$1,490,000 \$1,490,000 Project Phase-Level OPCC Contingency 30% \$447,000 ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST \$1,940,000 Construction Contingency 0% \$0								



PROJECT: West County - Alternative 3b
OWNER: Sonoma Water

OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

heet Title: GCSD Headworks

nent #: 6 REVIEWED BY: CEH

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	ROTAMAT Micro Strainer Ro9	1	LS	\$136,782	\$136,782	\$136,782	\$274,000
2	Bin	1	LS	\$50,000	\$50,000	\$0	\$50,000
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$324,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				5%		\$16,000
	Electrical				25%		\$81,000
	Instrumentation and Controls				15%		\$49,000
	SUBTOTAL						\$470,000
	Tax on Materials				9.3%		\$17,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$13,000
	Contractor's Overhead and Profit				15%		\$71,000
	Mobilization and Demobilization				5%		\$24,000
	Contractor's General Conditions				10%		\$47,000
	SUBTOTAL						\$640,000
	Project Phase-Level OPCC Contingency 30%						
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$830,000
	Construction Contingency				0%		\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	d Legal and A	dmin		25%		\$208,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$1,040,000

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

heet Title: Aer.Ponds @GCSD

ent #: 7 REVIEWED BY: CEH

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Blower Building (houses three (3) 100HP blowers for pond aeration system)	1,053	CY	\$550	\$579,150	\$0	\$579,000
2	Ares Aeration® Pond Aeration System (in treatment ponds) & Floating Cover (on settling pond)	1	EA	\$1,468,680	\$1,468,680	\$1,468,680	\$2,937,000
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL		•				\$3,516,000
	Plant Paving, Grading, and Yard Piping				10%		\$352,000
	Mechanical and Piping				10%		\$294,000
	Electrical				25%		\$734,000
	Instrumentation and Controls				15%		\$441,000
	SUBTOTAL						\$5,340,000
	Tax on Materials				9.3%		\$136,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$118,000
	Contractor's Overhead and Profit				15%		\$801,000
	Mobilization and Demobilization				5%		\$267,000
	Contractor's General Conditions				10%		\$534,000
	SUBTOTAL						\$7,200,000
	Project Phase-Level OPCC Contingency				30%		\$2,160,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$9,360,000
	Construction Contingency 0%						
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	l Legal and A	Admin		25%		\$2,340,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$11,700,000

OPPC PROVIDED BY: Niloofar S.



PROJECT: West County - Alternative 3b
OWNER: Sonoma Water
LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

heet Title: Eff.Stor.Pond @GCSD

ent #: 8 REVIEWED BY: CEH

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Excavation	182,000	CY	\$45	\$8,190,000	\$0	\$8,190,000
2	Rip rap	6,000	ton	\$375	\$2,250,000	\$0	\$2,250,000
3	Gravel	2,000	ton	\$210	\$420,000	\$0	\$420,000
4	Misc Structure	2	EA	\$100,000	\$200,000	\$0	\$200,000
5	Fencing	3,966	LF	\$75	\$300,000	\$0	\$300,000
6							
7							
8							
9							
10							
	SUBTOTAL						\$11,360,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				5%		\$568,000
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$11,930,000
	Tax on Materials				9.3%		\$147,000
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$1,790,000
	Mobilization and Demobilization				5%		\$597,000
	Contractor's General Conditions				10%		\$1,193,000
	SUBTOTAL						\$15,660,000
	Project Phase-Level OPCC Contingency				30%		\$4,698,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$20,360,000
	Construction Contingency				0%		\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	d Legal and A	dmin		25%		\$5,090,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$25,450,000

OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

Sheet Title: Pipelines-Treatment

Element #: 9

OPPC PROVIDED BY: NS

OPPC PREPARATION DATE: 21-May-25

REVIEWED BY: CEH

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	6 inch Pipeline	240	LF	\$180	\$43,200	\$0	\$43,000
2	8 inch Pipeline	1,250	LF	\$240	\$300,000	\$0	\$300,000
3	10 inch Pipeline	270	LF	\$300	\$81,000	\$0	\$81,000
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$424,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$420,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$63,000
	Mobilization and Demobilization				5%		\$21,000
	Contractor's General Conditions				10%		\$42,000
	SUBTOTAL						\$550,000
	Project Phase-Level OPCC Contingency				30%		\$165,000
	Inch Pipeline 1,250 LF \$240 \$300,0 inch Pipeline 270 LF \$300 \$81,0						\$720,000
	Construction Contingency				0%		\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	d Legal and A	Admin		25%		\$180,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$900,000



PROJECT: West County - Alternative 3b
OWNER: Sonoma Water

LOCATION: Sonoma County, CA
WYA Project #: 798-50-24-05

heet Title: FWD GCSD Pipelines

ement #: 10 REVIEWED BY: CEH

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Rehab 8 inch Pipe	8,976	LF	\$120	\$1,077,120	\$0	\$1,077,000
2	6 inch Pipeline	13,180	LF	\$180	\$2,372,400		\$2,372,000
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$3,449,000
	Plant Paving, Grading, and Yard Piping				0%		\$0
	Mechanical and Piping				0%		\$0
	Electrical				0%		\$0
	Instrumentation and Controls				0%		\$0
	SUBTOTAL						\$3,450,000
	Tax on Materials				0%		\$0
	Contractor's Markup on Sub-Contractors' Work				10%		\$0
	Contractor's Overhead and Profit				15%		\$518,000
	Mobilization and Demobilization				5%		\$173,000
	Contractor's General Conditions				10%		\$345,000
	SUBTOTAL						\$4,490,000
	Project Phase-Level OPCC Contingency 30%						
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$5,840,000
	Construction Contingency 0%						
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and	d Legal and A	dmin		25%		\$1,460,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$7,300,000



OPPC PROVIDED BY: NS



11

OWNER: Sonoma Water LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05

heet Title: RRCSD Pipelines

OPPC PROVIDED BY: NS

OPPC PREPARATION DATE: 21-May-25

REVIEWED BY: CEH

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Creek Crossing	7	EA	\$3,800,000	\$26,600,000	\$0	\$26,600,000
2	20 inch Pipe	99,790	LF	\$600	\$59,874,000	\$0	\$59,874,000
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL \$86,474,000						
	Plant Paving, Grading, and Yard Piping						\$0
	Mechanical and Piping						\$0
	Electrical						\$0
	Instrumentation and Controls						\$0
	SUBTOTAL \$86,470,000						
	Tax on Materials						\$0
	Contractor's Markup on Sub-Contractors' Work						\$0
	Contractor's Overhead and Profit						\$12,971,000
	Mobilization and Demobilization						\$4,324,000
	Contractor's General Conditions						\$8,647,000
	SUBTOTAL						\$112,410,000
	Project Phase-Level OPCC Contingency				30%		\$33,723,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$146,130,000
	Construction Contingency						\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin				25%		\$36,533,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$182,660,000



PROJECT: West County - Alternative 3b OWNER: Sonoma Water

LOCATION: Sonoma County, CA WYA Project #: 798-50-24-05

heet Title: RRCSD EQ Facilities

nent #: 12 REVIEWED BY: CEH

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST	
1	Flow Control Structure	1	EA	\$98,000	\$98,000	\$0	\$98,000	
2	16" Pipeline	190	LF	\$480	\$91,200	\$0	\$91,000	
3								
4								
5								
6								
7								
8								
9				1				
10								
	SUBTOTAL \$189							
	Plant Paving, Grading, and Yard Piping						\$0	
	Mechanical and Piping				0%	\$0		
	Electrical				0%			
	Instrumentation and Controls				0%		\$0	
	SUBTOTAL \$190,0							
	Tax on Materials				0%		\$0 \$0 \$0 \$190,000 \$0 \$29,000 \$10,000 \$19,000 \$250,000	
	Contractor's Markup on Sub-Contractors' Work				10%		\$0	
	Contractor's Overhead and Profit				15%		\$29,000	
	Mobilization and Demobilization				5%		\$10,000	
	Contractor's General Conditions				10%		\$19,000	
	SUBTOTAL						\$250,000	
	Project Phase-Level OPCC Contingency				30%	\$75,000		
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$330,000	
	Construction Contingency				0%		\$0	
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin				25%		\$83,000	
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$410,000	



OPPC PROVIDED BY: Niloofar S.



OWNER: Sonoma Water
LOCATION: Sonoma County, CA
WYA Project #: 798-50-24-05

heet Title: Conveyance PS

ment #: 13

OPPC PROVIDED BY: NS

OPPC PREPARATION DATE: 21-May-25

REVIEWED BY: CEH

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	GCSD Secondary Effluent Pump Station	1	EA	\$1,890,000	\$1,890,000	\$0	\$1,890,000
2	GCSD Tertiary Effluent Pump Station	1	EA	\$1,960,000	\$1,960,000	\$0	\$1,960,000
3	FWD Tertiary Effluent Pump Station	1	EA	\$1,840,000	\$1,840,000	\$0	\$1,840,000
4	RRCSD Raw Wastewater	1	EA	\$2,700,000	\$2,700,000	\$0	\$2,700,000
5							
6							
7							
8							
9							
10							
	SUBTOTAL						\$8,390,000
	Plant Paving, Grading, and Yard Piping		0%		\$0		
	Mechanical and Piping	0%		\$0			
	Electrical						\$0
	Instrumentation and Controls						\$0
	SUBTOTAL \$8,390,00						\$8,390,000
	Tax on Materials						\$0
	Contractor's Markup on Sub-Contractors' Work						\$0
	Contractor's Overhead and Profit						\$0
	Mobilization and Demobilization						\$0
	Contractor's General Conditions						\$0
	SUBTOTAL						\$8,390,000
	Project Phase-Level OPCC Contingency						\$2,517,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST					\$10,910,000	
	Construction Contingency						\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin				25%		\$2,728,000
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$13,640,000



PROJECT: West County - Alternative 3b
OWNER: Sonoma Water

LOCATION: Sonoma County, CA

WYA Project #: 798-50-24-05
Sheet Title: Connection fee

ement #: 14

	DESCRIPTION	QTY	UNIT	UNIT COST	COST	COST	TOTAL COST
1	Connection fee to Windsor	1	LS	\$44,800,000	\$44,800,000	\$0	\$44,800,000
2							
3							
4							
5							
6							
7							
8							
9							
10							
	SUBTOTAL						
	Plant Paving, Grading, and Yard Piping	0%		\$0			
	Mechanical and Piping						\$0
	Electrical				0%		\$0
	Instrumentation and Controls						\$0
	SUBTOTAL \$44,800,						
	Tax on Materials						\$0
	Contractor's Markup on Sub-Contractors' Work				0%		\$0
	Contractor's Overhead and Profit						\$0
	Mobilization and Demobilization						\$0
	Contractor's General Conditions						\$0
	SUBTOTAL						\$44,800,000
	Project Phase-Level OPCC Contingency						\$0
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE CONSTRUCTION COST						\$44,800,000
	Construction Contingency						\$0
	Engineering Design, Environmental Planning and Studies, Construction Management, ESDC, and Legal and Admin						\$0
	ENGINEER'S PRELIMINARY OPINION OF PROBABLE TOTAL CAPITAL COST						\$44,800,000



OPPC PROVIDED BY: Niloofar S.

REVIEWED BY: CEH