

Celina WTP - Drinking Water Solutions Grant Expenses

313.663.5550	Drinking Water Solutions Grant	PO#	INVOICE	SECTION TOTALS SPENT TO DATE
ENGINEERING SERVICES				
12/9/2016	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$43,660.25	
12/9/2016	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$10,560.34	
12/9/2016	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$13,683.16	
12/9/2016	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$40,535.49	
1/1/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$23,107.13	
2/6/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$12,832.52	
3/2/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$1,441.31	
4/1/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$6,686.81	
5/8/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$16,107.27	
5/31/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$12,986.90	
7/14/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$10,697.84	
8/7/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$4,821.94	
9/11/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$14,231.86	
10/9/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$4,943.46	
10/20/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG170622	\$14,995.90	
12/5/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG170622	\$13,575.66	
1/2/2018	Hazen and Sawyer - Engineering Services, Water Facilities	RG170622	\$12,064.59	
2/8/2018	Hazen and Sawyer - Engineering Services, Water Facilities	RG170622	\$2,563.04	
4/3/2018	Hazen and Sawyer - Engineering Services, Water Facilities	RG170622	\$6,071.68	
				\$265,567.15

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OZONE REPLACEMENT PROJECT 2017				
2/21/2017	Woolace Electric - Ozone System Project	RG160586	\$20,138.00	
12/1/2016	Pinnacle Ozone Solutions, Inc. - Ozone Equipment & Install	RG160587	\$586,454.20	
1/10/2017	Dickman Supply Co. - Ozone System Conduit & Supplies		\$291.34	
1/16/2017	Dickman Supply Co. - Ozone System Conduit & Supplies		\$33.92	
1/16/2017	Dickman Supply Co. - Ozone System Conduit & Supplies		\$91.44	
1/16/2017	Dickman Supply Co. - Ozone System Conduit & Supplies		\$23.12	
1/18/2017	Dickman Supply Co. - Ozone System Conduit & Supplies		\$14.32	
1/18/2017	McMaster-Carr - Ozone Monitor Tubing & Fittings		\$1,080.69	
1/27/2017	McMaster-Carr - Ozone Cooling Water Line Insulation		\$86.03	
2/3/2017	EL Davis - Ozone System Pipe Installation		\$1,420.50	
2/27/2017	Clute Enterprises (O3 Solutions) - Roto Meters (4)	RG170141	\$4,273.52	
2/16/2017	Consolidated-Hunter - Cooling Water Lines Installed	RG170142	\$3,637.67	
	Hutton Engineering - SCADA Updates for Ozone System	RG180123	\$7,500.00	
				COMPLETED \$625,044.75

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UV/AOP SYSTEM INSTALLATION 2017				
7/25/2017	Calgon Corp - UV/AOP (Drawing Submission)	RG170441	\$56,163.80	
10/19/2017	Calgon Corp - UV/AOP (Equipment Delivery)	RG170441	\$196,573.30	
2/13/2018	Calgon Corp - UV/AOP (Startup & Safety Items)	RG170441	\$28,770.81	
9/19/2017	Woolace Electric - UV/AOP & GAC Bldg. Electric	RG170442	\$6,000.00	
11/15/2017	Woolace Electric - UV/AOP & GAC Bldg. Electric	RG170442	\$14,520.00	
10/16/2017	McMaster-Carr - Rubber Strips for Under Cabinets		\$57.02	
10/25/2017	Spring Creek - Concrete Pads Under UV/AOP Cabinets		\$150.00	
10/25/2017	McMaster-Carr - GAC Effluent Vent Pipe, UV/AOP Update		\$144.45	
10/25/2017	Fastenal - UV/AOP Bolts, Nuts, & Driver		\$1,306.89	
10/30/2017	Thees Machine - SS Pipe Repair		\$25.00	
11/1/2017	USA Blue-Book - UV/AOP System Gaskets		\$55.13	
11/3/2017	Fastenal - UV/AOP Bolts		\$78.29	
11/7/2017	EL Davis Welding - Spool Pieces & Taps	RG170670	\$4,470.35	
11/7/2017	McMaster-Carr - UV/AOP System UV254 Meter Fittings		\$251.48	
11/15/2017	McMaster-Carr - UV/AOP System UV254 Meter Fittings		\$740.59	
11/15/2017	McMaster-Carr - 1" drill bit & tap		\$249.50	
11/15/2017	Grand Lake Builders - H2O2 Pump Stand Block		\$96.73	
11/15/2017	Grand Lake Builders - H2O2 Pump Stand Block Sander		\$18.50	
11/17/2017	EL Davis Welding - Metal for Electric Conduit Rack		\$37.00	
12/12/2017	APA Inc. - Rotork IQT100 Actuators (4) & Remote Stations (2)	RG170505	\$26,750.00	
9/7/2017	Gilco Engineering Sales - Flow Meters	RG170510	\$2,367.36	
12/13/2017	Hutton Engineering - SCADA Updates	RG170756	\$3,450.39	
1/29/2018	Hutton Engineering - SCADA Updates	RG170756	\$3,620.00	
11/28/2017	New Pig - Spill Containment	RG170674	\$547.00	
12/1/2017	New Pig - Spill Containment	RG170674	\$3,719.00	
12/4/2017	USA BlueBook - Flow Meters	RG170673	\$3,780.00	
				COMPLETED \$353,942.59

DATE	DESCRIPTION	COST	TOTAL COST
FIRST WTP (West Touvelle St.)			\$50,000
1/1/1884	Water Pumping Station, Wells, & Water Mains	\$50,000	
5/1/1920	Added Two Additional Wells (S. of Beaver St. / W. of RR)	?	
Water Tower Construction (CBI)			\$4,146,068
5/1/1930	Chicago Bridge & Iron (CBI) - 500,000 gal. Touvelle St. Tower	?	
6/1/1962	Chicago Bridge & Iron (CBI) - 250,000 gal. EJ Tower	?	
5/1/2005	Landmark Structures - 1.5 MG Summit Street Tower	\$1,776,798	
5/23/2014	John Wolfram & Associates and Hutton Engineering Tower SCADA Control Programming	\$6,040	
5/23/2014	Wollace Electric Tower SCADA Control Wiring	\$11,600	
5/1/2016	Landmark Structures - 1.0 MG Industrial Park Tower	\$2,351,631	
WTP CONSTRUCTION			\$500,000
5/12/1952	FP&S Engineering & Construction of SWTP	\$500,000	
WTP EXPANSION (1.5 MGD to 3.0 MGD)			\$1,650,000
5/27/1974	FP&S Engineering & Construction of SWTP	\$1,650,000	
WTP SCREEN HOUSE			\$143,860
1/1/2008	Fanning/Howey Engineering of Screen House Replacement	\$5,000	
12/1/2008	Shinn Brothers Inc. Started Construction of a new Screen House		
6/1/2009	Shinn Brothers Inc. Completed Construction of Screen House	\$130,000	
12/2/2015	Celina WTP Staff 1952 KMnO4 Feeder Replaced	\$8,860	
PRE-TREATMENT - CLARIFIERS			\$46,615
12/21/1998	Kirk Bros Co. Inc. 16" Clarifier Piping	\$9,675	
7/1/2015	Celina WTP Staff 1974 Mixers Replaced (4)	\$29,460	
4/26/2016	Celina WTP Staff 1952 KMnO4 Feeder Replaced	\$7,480	
OZONE SYSTEM (Taste & Odor Removal)			\$2,979,569
12/1/1990	Bollyky & Associates Preliminary Testing and Pilot Testing	\$64,923	
	Engineering Design Modifications and Specs	\$75,000	
	Engineering Bidding and Review	\$22,000	
6/1/1994	Indiana Construction Ozone System Installation / Power Generator	\$2,145,000	
9/10/2001	Ozonia North America Onsite Tech Support and Repair	\$4,000	
	Power Supply Boards	\$4,851	
8/12/2003	Ozonia North America Onsite Tech Support and Repair	\$4,850	
	Transformers	\$18,900	
1/12/2003	Ozone Water Systems Ozone Monitor Repair & Calibration	\$9,000	
	Ozone System Evaluation	\$6,000	
2/1/2016	Pinnacle Ozone Solutions, Celina WTP Staff, & Others 1995 Ozone Production Units Replaced	\$625,045	Water Solutions Grant
LIME / SODA ASH SOFTENING			\$341,457
6/1/2011	Celina WTP Staff Flocculator Drive Units Replaced (2)	\$15,000	
6/1/2011	Celina WTP Staff 1974 Recarbonation Basin Covered	\$13,000	
	1952 Soda Ash Feeder Replaced (Davis Welding)	\$11,800	
6/1/2012	Celina WTP Staff Settling Basin Sludge Collectors Chain & Flights Replaced	\$6,160	

6/1/2013	Celina WTP Staff Settling Basin Sludge Collector Drives Replaced (4)	\$26,610	
6/1/2014	Celina WTP Staff Burnett Lime Co. - Tank & Bldg. Woolace Electric - Electric Fortman Foam - Tank Insulation Installed Liquid Lime Bldg & System	\$207,600 \$6,250 \$4,457 \$28,570	
4/1/2015	Celina WTP Staff 1952 Rapid Mixers Replaced (2)	\$22,010	
FILTER BEDS AND AIR SCOUR SYSTEM			\$325,650
7/1/1998	Fanning / Howey Assoc., Inc. Filter Bed Upgrade (1 & 2)	\$17,500	
1/21/1999	Kirk Bros Co. Inc. Filter Bed Upgrade (1 & 2)	\$153,650	
12/9/1999	Fanning / Howey Assoc., Inc. Filter Bed Upgrade (3 & 4)	\$17,500	
5/31/2000	Kirk Bros Co. Inc. Filter Bed Upgrade (3 & 4)	\$137,000	
3/1/2012	Celina WTP Staff 1992 Turbidity Meters Replaced (HACH)	\$10,135	
5/1/2008	Celina WTP Staff 16 Sand Filter Valves and Controllers Replaced	\$125,000	
7/1/2016	Ortman Drilling & Celina WTP Staff 1952 N. Sand Filter Backwash Pump Replaced	\$34,880	
9/5/2017	Ortman Drilling & Celina WTP Staff 1952 S. Sand Filter Backwash Pump Replaced	\$37,760	
1/23/2018	APA 1952 Sand Filter Backwash Valves Replaced & Accuated	\$29,965	Water Solutions Grant
WTP GAC Facility Design & Construction			\$7,246,789
3/1/2006	B&B Demolition Hired to Demo Power Plant	\$0	
8/6/2006	Floyde Brown / Metcalf & Eddy Engineering & Design	\$484,650	
1/1/2007	B&B Demolition Power Plant Demolition Completed	\$20,000	
6/1/2008	Peterson Construction Company GAC Facility Construction Completed	\$6,281,928	
6/1/2008	IOS / CMI GAC Facility Office Supplies	\$80,600	
8/10/2017	Dickman Supply & Wollace Electric GAC Facility Light Replacement	\$10,705	
11/1/2017	Calgon Corp. UV Systems, Celina WTP Staff, & Others Installed UV/AOP System Global Pumps Mobile 4" Trash Pump for Carbon Exchanges (1/2 w/ WWTP)	\$353,945 \$14,960	Water Solutions Grant
HIGH SERVICE PUMPS & MOTOR CONTROL CENTER			\$263,070
1/25/2000	Fanning / Howey Assoc., Inc. Motor Control Center	\$12,395	
4/14/2000	Buschur Electric Inc. Motor Control Center	\$79,000	
11/21/2002	Buschur Electric Inc. Added Soft Starters	\$9,800	
12/1/2007	Ortman Water Services & City WTP Staff Replaced 1974 High Service Pump (2,100 gpm)	\$36,500	
6/1/2011	Ortman Water Services & Wollace Electric Replaced 1952 High Service Pump (700 gpm to 1,100 gpm)	\$23,800	
7/1/2015	Ortman Water Services & Wollace Electric & Electro Controls Replaced 1952 High Service Pump (1,400 gpm to 2,100 gpm) Ortman Water Services & Wollace Electric & Electro Controls Replace 1,100 gpm to 2,100 gpm & VFD & Valves	\$53,145 \$48,430	
SCADA CONTROL SYSTEM			\$6,490
3/29/2001	John Wolfram & Associates and Hutton Engineering SCADA Hardware & Software	\$4,689	
3/29/2001	American Computer Center SCADA Computer System	\$1,801	
7/1/2014	John Wolfram & Associates and Hutton Engineering SCADA Hardware & Software	\$11,600	
WTP ENGINEERING STUDIES & OEPA FINES			\$1,154,820

7/24/2001	BBS Corporation CWTP Engineering Study	\$19,500	
5/15/2003	OEPA Findings & Orders Fines	\$10,000	
5/6/2003	Current Energy Solutions Energy Conservations Project	\$28,000	
5/6/2003	US Filter Kruger Products Actiflo Pilot	\$9,700	
8/28/2003	CDG Technology Inc. Chlorine Dioxide Testing	\$1,200	
4/14/2004	WesTech Engineering Inc. / Orica Watercare MIEEX Pilot & Detailed Report	\$30,000	
1/20/2005	Floyde Brown / Metcalf & Eddy CWTP Engineering Study	\$135,000	
1/6/2006	OEPA Findings & Orders Negotiations Floyde Brown / Metcalf & Eddy / Calgon Carbon Pilot tested GAC for TOC removal	\$88,350	
2016 - Present	Hazen & Sawyer WTP Engineering Services (Cost thru Current Contract) - Ozone System Upgrades - UV/AOP System Installation - Clarifier Replacement & Sludge Handling Project	\$741,300	Water Solutions Grant
2017 - Present	Celina WTP Staff & Others MORIF (DAF) Unit Process Pilot Testing Tri-Tech Engineering MORIF (DAF) Unit Process Engineering	\$91,770 ?	Water Solutions Grant Water Solutions Grant

GROUND WATER EXPLORATION & TESTING			\$252,291
3/3/2003	Jones & Henry Engineers, LTD Fracture Trace Analysis	\$19,464	
	Teays River Water Exploration	\$10,950	
4/3/2003	Heffner Investments, LTD Test Well Land Agreement	\$5,000	
5/3/2003	Reynolds Well Drilling Inc. Construction of Three Wells @ Heffner Property	\$65,000	
2/3/2003	BBS Corporation Liaison Services to OEPA	\$10,600	
2/3/2003	Reiss Environmental, Inc. Phase I - Groundwater Quality Evaluation Phase II - Membrane Pilot Protocols to OEPA Phase III - Teays River Water Evaluation & Protocols	\$17,000 \$7,500 \$7,500	
1/1/2004	Howick Family Test Well Land Agreement	\$5,000	
2/12/2004	Ortman Water Services Construction of Three Wells @ Howick Property	\$68,000	
12/1/2004	Shinn Bros, Inc. Stone Removal from Well Sites and Hauling to Water Tower	\$11,777	
5/23/2014	Ortman Water Services Construction of Four Wells @ SR 703 Property	\$24,500	

MISC. WTP PROJECTS			\$293,963
1/6/2006	Davis & Newcomer Elevator Co., Inc. Replaced Shaft & Seals	\$6,068	
6/1/2011	Celina Glass 1974 Windows Replaced	\$28,000	
5/1/2012	Celina WTP Staff 1952 / 1974 Light Fixture Rplacement	\$10,000	
6/1/2012	Celina WTP Staff Added Bulk Water Tank Filling Station	\$2,100	
6/1/2012	Rays Refrigeration Replaced Lab / Office HVAC Replaced	\$13,960	
7/1/2012	Cotterman Roofing 1952 Bldg. Roof Replaced	\$37,120	
4/1/2013	Rays Refrigeration 1952 Bldg. Boiler Replaced	\$37,120	
7/1/2013	Springer Tree Service Lagoon Trees Removed	\$4,400	
6/1/2016	Moeller Door & Window 1952 & 1974 Doors & Windows Replaced	\$24,450	
4/6/2017	Moeller Door & Window 1952 & 1974 Doors & Windows Replaced	\$11,335	
2/28/2017	Ohio CAT & Woolace Electric CAT Generator Replacement	\$119,410	