

WaterWorks **CABOT**

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September 7, 2012

Arkansas Department of Environmental Quality
Miles Johnson, Water Division, Enforcement Branch
5301 Northshore Drive
Little Rock, Arkansas 72118-5317

RE: Cabot WaterWorks Effluent Ammonia violations

Mr. Johnson,

In response to your letter dated August 24, 2012, I would like to clarify components of Cabot WaterWorks Sewer Collection System Master Plan.

Attached is the table of improvements outlined in the Collection System Master Plan. Please note the two categories:

1. Capacity Improvement Plan
2. Infrastructure Replacement Plan

The Capacity improvement plan will correct approximately 17% of the current Sanitary Sewer Overflow's (SSO's) and the Infrastructure Replacement Plan will correct approximately 83% of the SSO's. Therefore, we place a higher emphasis on the Infrastructure Replacement Plan for addressing SSO's over the next 10 years as outlined in the table.

As for the Capacity Improvement Plan, the City Of Cabot plans to hold a special election in the spring of 2013 for voter approval of a 1% sales tax that will be used to fund the Phase II projects. If the sales tax is approved, the Phase II projects should be completed within three years of funding. If the sales tax is not approved, Cabot WaterWorks will immediately request a sewer rate increase from the City to fund Phase II projects.

As soon as Phase II projects are complete we plan to fund Phase III and have it completed within 10 years.

The Infrastructure Replacement Plan will be funded through sewer rates and has a 10 year completion time frame as outlined in the table. Infrastructure replacements are ongoing as I outlined in my previous letter. Future projects may be reprioritized depending on the condition of the sewer mains.

Sincerely



Tim D. Joyner P.E.
General Manager

WasteWater Collection System - Master Plan

Capacity Improvement Plan

Phase I - COMPLETED

Master Plan ID	Length	Scope of Work	Schedule	Total Cost
Section A	9,114	36" PVC Gravity Sewer	Complete	\$ 1,674,953
Section B	9,300	24" PVC FM & Pump Station	Complete	\$ 1,212,974
Section B1	N/A	6800 GPM Pump Station	Complete	\$ 500,256
18,414				Sub-Total \$ 3,388,183

WasteWater - Phase II - Pending Funding

Master Plan ID	Length	Scope of Work	Engineering Design Schedule	Construction Schedule	Total Cost Constr. & Eng.	Eng. Est.
Four Mile Creek Pump Station	-	4-Pumps, Piping & Electrical	Pending	Pending	\$ 1,046,037	Eng. Est.
Four Mile Creek Interceptor	30,247	21", 24" & 30" PVC Gravity Sewer	Final	Pending	\$ 5,268,814	Eng. Est.
Shiloh Interceptor	3,796	18" & 21" PVC Gravity Sewer	Final	Pending	\$ 758,345	Eng. Est.
Polk St. Interceptor	10,010	8", 18" & 21" PVC Gravity Sewer	Final	Pending	\$ 1,340,500	Eng. Est.
Ford Bottoms Interceptor 1	15,900	18" & 21" PVC Gravity Sewer	Pending	Pending	\$ 2,200,000	Budget Est.
Hwy 321 Lift Station & FM	5,600	Pump Station & 12" Force Main	Pending	Pending	\$ 600,000	Budget Est.
Hwy 321 Gravity	9,000	15" PVC Gravity Sewer	Pending	Pending	\$ 1,000,000	Budget Est.
74,553					Sub-Total \$ 12,213,696	

The Capacity Improvement Plan addresses capacity issues that will limit future development.

WasteWater - Phase III - Pending Funding

Master Plan ID	Length	Scope of Work	Engineering Design Schedule	Construction Schedule	Total Cost	Budget Est.
Ford Bottoms Interceptor 2	6,700	18" PVC Gravity Sewer	Pending	Pending	\$ 1,000,000	Budget Est.
Magness Creek 1	9,671	1500 GPM Pump Station & 15" PVC FM	Pending	Pending	\$ 2,000,000	Budget Est.
Magness Creek Interceptor	12,440	18" PVC Gravity Sewer	Pending	Pending	\$ 1,620,000	Budget Est.
Holland Bottoms	13,000	21" PVC Gravity Sewer	Pending	Pending	\$ 2,000,000	Budget Est.
Sub-Total 41,811					Sub-Total \$ 6,620,000	

Total Phase II & III 116,364

Total Phase II & III \$ 18,833,696

Infrastructure Replacement - Strategic Plan

The Infrastructure Replacement Plan address older pipe that is under-sized, vulnerable to failure from sewer gas and susceptible to infiltration and inflow.

Location	Sewer Collection Pipe Segment (MH# to MH#)	Pipe Footage	\$/Foot Repl	\$/Foot Pipe Bursting	Budget Cost	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
N 2nd St to Polk St Lift Station	344-2542	834	\$ 50		\$ 41,700	41,700									
Cherry St to Railroad Tracks	342-1500	2,325	\$ 50		\$ 116,250	116,250									
S Polk St to Polk St Lift Station	714-2542	1,693	\$ 50		\$ 84,650	84,650									
E Locust St to Polk St Lift Station	2542-2644	1,553	\$ 50		\$ 77,650	77,650									
E Locust St to Railroad Tracks	355-702	317	\$ 50		\$ 15,850	15,850									
E Locust & Alleys (W of N Jackson St)	703	535	\$ 50		\$ 26,750	26,750									
E Locust & Alleys (E of N Jackson St)	704	565	\$ 50		\$ 28,250	28,250									
E Locust St to N Lincoln St	702-704	690		\$ 80	\$ 55,200	55,200									
N Grant St to N Jackson St	699-713	391	\$ 50		\$ 19,550	19,550									
W Locust St to W Olive St	867-872	597		\$ 80	\$ 47,760	47,760									
Ridge Rd North	2418-2509	1,132	\$ 50		\$ 56,600	56,600									
Ridge Rd South	2412-2479	1,306	\$ 50		\$ 65,300		65,300								
Valley Rd	2415-2426	1,172	\$ 50		\$ 58,600		58,600								
Rockwood Rd (East to Sun Vista Ln)	2418-2426	1,177	\$ 50		\$ 58,850		58,850								
W Locust St (Ryeland Dr to Oak Grove Cir)	969-959	1,919	\$ 50		\$ 95,950		95,950								
Oak Grove Cir to Eighth St	959-978	1,276	\$ 50		\$ 63,800		63,800								
Eighth St (Crossing W Main St)	971-978	718		\$ 80	\$ 57,440		57,440								
W Locust St (Vine St to N 2nd St)	871-879	1,869		\$ 80	\$ 149,520		149,520								
Galloway St	851-877	619	\$ 50		\$ 30,950		30,950								
W Olive St to 5th St	866-870	989		\$ 80	\$ 79,120		79,120								
W Olive St to W Main St	866-2501	957	\$ 50		\$ 47,850		47,850								
Paige Ave (#10 to #54)	1338-1359	1,677	\$ 50		\$ 83,850		83,850								
5th St to W Main St	863-2501	337		\$ 80	\$ 26,960		26,960								
N Park Dr	842-845	1,032	\$ 50		\$ 51,600		51,600								
Mockingbird Ln	837-848	884	\$ 50		\$ 44,200		44,200								
Mockingbird Ln to N 2nd St	344-837	2,078	\$ 50		\$ 103,900		103,900								
N 2nd St (Nursing Home to #2002)	344-1591	3,244	\$ 50		\$ 162,200		162,200								
Ray St to N Polk St	1623-1625	577	\$ 50		\$ 28,850		28,850								
Ray St	1594-1615	556	\$ 50		\$ 27,800		27,800								
Wilson St to W Olive St	854-857	710		\$ 80	\$ 56,800		56,800								
Wilson St to N 3rd St	854-855	525		\$ 80	\$ 42,000		42,000								
N 2nd St (North to Cherry St)	352-2591	755	\$ 50		\$ 37,750		37,750								
N 1st St to N 3rd St	723-856	567	\$ 50		\$ 27,850		27,850								
Hwy 38 (High School Lift Station)	793-2547	575	\$ 50		\$ 28,750		28,750								
Hwy 38 (Northside to Morgan St)	795-798	629	\$ 50		\$ 31,450		31,450								
Hwy 38 (Chelsea Ln & North of Campbell Dr)	95-2572	1,715	\$ 50		\$ 85,750		85,750								
Campbell Dr	96-103	667	\$ 50		\$ 33,350		33,350								
S Pine St to E Main St (East of Lincoln St)	750-2728	383	\$ 50		\$ 19,150		19,150								
Suda St to E Olive St (East of Jackson St)	697-694 / 691-710	1,985	\$ 50		\$ 99,250		99,250								
King St	751-1175	343		\$ 80	\$ 27,440		27,440								
Jordan St	733-734	133	\$ 50		\$ 6,650		6,650								
E Main St (Linden St to Walnut St)	760-761	536		\$ 80	\$ 42,880		42,880								
E Main St (Monroe to S Pine St)	763-776	419		\$ 80	\$ 33,520		33,520								
E Main St (S Pine St to Pleasant St)	767-776	318	\$ 50		\$ 15,900		15,900								
Pleasant St	767-770	688	\$ 50		\$ 34,400		34,400								
Lillie St & Bellamy St	773-1176	1,309	\$ 50		\$ 65,450		65,450								
Walnut St (E Main St to Monroe)	766-764-CO#9514	620		\$ 80	\$ 49,600		49,600								
Linden St (E Main St to Madison St)	758-760	1,078		\$ 80	\$ 86,240		86,240								
S Pine St (Madison St & Monroe)	765-787	924		\$ 80	\$ 73,920		73,920								
S Pine St (High School to #91)	778-2721	1,487	\$ 50		\$ 74,350		74,350								
S Pine St (#95 to Mills Cv)	777-1975	1,269	\$ 50		\$ 63,450		63,450								
Wendell St	1962-1970	910	\$ 50		\$ 45,500		45,500								
Pin Oak Dr	1962-1965	705	\$ 50		\$ 35,250		35,250								
S Pine St (Robinson St to Countrywood St)	635-1863	3,011	\$ 50		\$ 150,550		150,550								
White Oak Dr & Forest St	1937-1942	2,268	\$ 50		\$ 113,400		113,400								
White Oak Dr to S Pine St	1866-1936	751	\$ 50		\$ 37,550		37,550								
Countrywood St	1857-1862	2,441	\$ 50		\$ 122,050		122,050								
W Street	1853-2822	1,179	\$ 50		\$ 58,950		58,950								
S Pine St (@ Knight's heading west)	573-2699	1,211	\$ 50		\$ 60,550		60,550								
Pond St (Kay St to S Pine St)	615-619	1,082	\$ 50		\$ 54,100		54,100								
Sycamore St (Kay St to S Pine St)	622-623	1,087	\$ 50		\$ 54,350		54,350								

The Infrastructure Replacement Plan address older pipe that is under-sized, vulnerable to failure from sewer gas and susceptible to infiltration and inflow.

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Pear St (Kay St to S Pine St)	624-627	851	\$ 50		\$ 42,550						42,550				
Central Elementary (North towards Robinson St)	639-643	799	\$ 50		\$ 39,950						39,950				
Robinson St (#19 to #45)	631-636	1,192	\$ 50		\$ 59,600							59,600			
Robinson St (Behind #40 to Behind #45)	642-828	380	\$ 50		\$ 19,000							19,000			
Frances St (#27 to behind #40 Robinson St)	659-828	944	\$ 50		\$ 47,200							47,200			
Frances St (#15 to #27)	659-661	605	\$ 50		\$ 30,250							30,250			
S Pine St to Frances St	661-1971	902	\$ 50		\$ 45,100							45,100			
Kerr Station Rd to behind Water Maintenance	479-486	660	\$ 50		\$ 33,000							33,000			
Kerr Station Rd to behind #45 Robinson St	486-642	1,768	\$ 50		\$ 88,400							88,400			
Meadowlark Dr (#31 to behind #61 Robinson St)	644-650	1,725	\$ 50		\$ 86,250							86,250			
Meadowlark Dr (#25 to #61 Robinson St)	629-649	976	\$ 50		\$ 48,800							48,800			
Oak Meadows Dr (#82 to #42)	502-507	1,801	\$ 50		\$ 90,050							90,050			
Barnwell Dr (East)	504-509	1,043	\$ 50		\$ 52,150							52,150			
Barnwell Dr (West)	503-508	913	\$ 50		\$ 45,650							45,650			
Kerr Station Rd (behind #20 to #42 Oak Meadows Dr)	486-499	1,225	\$ 50		\$ 61,250								61,250		
#309 S Adams St to Water Maintenance	484-679	1,441	\$ 50		\$ 72,050							72,050			
Kerr Station Rd to Suda & S Jackson	499-698	881	\$ 50		\$ 44,050							44,050			
Suda St Southside (S Jackson St to S Adams St)	535-678	547	\$ 50		\$ 27,350							27,350			
Suda St Northside (S Jackson St to S Adams St)	668-698	601	\$ 50		\$ 30,050							30,050			
#411 N 2nd St to #123 S 2nd St	724-889	1,612	\$ 50		\$ 80,600							80,600			
S 2nd St (#207 to Staley Glass)	892-2836	910	\$ 50		\$ 45,500							45,500			
S 2nd St (Staley Glass to #1212)	914-2836	2,575	\$ 50		\$ 128,750							128,750			
S 2nd St (#1400 to #1514)	1124-1158	1,168	\$ 50		\$ 58,400							58,400			
S 2nd St (W Pheasant Run to Lee St)	1156-2819	1,240	\$ 50		\$ 62,000							62,000			
S 2nd St (#1812 to #14 Crum St)	1145-1292	1,995	\$ 50		\$ 99,750								99,750		
#1515 S 2nd St to #1602 S 1st St	1297-2744	677	\$ 50		\$ 33,850								33,850		
S 1st St (Lee St to #1602 S 1st)	1297-1301	249	\$ 50		\$ 12,450								12,450		
#1602 S 1st St to #28 Pheasant Run	1297-1339	772	\$ 50		\$ 38,600								38,600		
Pheasant Run Dr (#10 to #34)	1336-1340	959	\$ 50		\$ 47,950								47,950		
Pheasant Run Dr (#28 to #52-A)	470-1339	652	\$ 50		\$ 32,600								32,600		
Pheasant Run Dr (#36 to #114)	1342-1351	2,745	\$ 50		\$ 137,250								137,250		
Allison Dr (#10 to #19)	1355-1361	612	\$ 50		\$ 30,600								30,600		
W Main St to S 2nd St	892-2501	1,706	\$ 50		\$ 85,300								85,300		
Club Dr to Park Dr	896-968	1,088	\$ 50		\$ 54,400								54,400		
Park Dr to W Myrtle St	896-915	327	\$ 50		\$ 16,350								16,350		
W Main St to W Elm St	883-887	761	\$ 50		\$ 38,050									38,050	
W Main St (alley behind #223)	882-dead end	300	\$ 50		\$ 15,000									15,000	
N 4th St	873-2792	498		\$ 80	\$ 39,840										39,840
N 4th St & Mockingbird Ln	2793-2827	714		\$ 80	\$ 57,120										57,120
N 4th St (Running North behind Fortson Trailer Park)	830-850	610	\$ 50		\$ 30,500										30,500
St John St (#37 to #69)	1061-1171	1,326	\$ 50		\$ 66,300										66,300
St John St (Behind #19 to #33)	1060-1073	856	\$ 50		\$ 42,800										42,800
St John St to S 2nd St	916-917	782		\$ 80	\$ 62,560										62,560
St John St to Richie Rd	916-1076	1,007	\$ 50		\$ 50,350										50,350
Stacy Ct to Collins St	1066-1076	507	\$ 50		\$ 25,350										25,350
Chalet St to Collins St	1071-1075	350	\$ 50		\$ 17,500										17,500
St John St to Chalet St	1072-1073	448	\$ 50		\$ 22,400										22,400
#14 Century Cir to #32 Bellaire Dr	1055-1154	764	\$ 50		\$ 38,200										38,200
#14 Century Cir to #31 S 10th St	1049-1051	671	\$ 50		\$ 33,550										33,550
S 10th St (#26 to #35)	1052-1058	503	\$ 50		\$ 25,150										25,150
#14 Bellaire Dr to #39 S 10th St	1053-1057	294	\$ 50		\$ 14,700										14,700
		104,721			\$ 6,081,520	570,210	580,410	656,330	622,890	644,310	583,450	645,450	610,000	589,100	579,370

WaterWorks

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LITTLE ROCK AR 720

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