

**REQUEST FOR BOARD ACTION**

**CANE CREEK WATER AND SEWER DISTRICT  
BOARD OF DIRECTORS**

**MEETING DATE:** July 15, 2105

**SUBJECT:** Award Construction Contract  
Mill Pond Creek Project

**PRESENTER:** Marcus Jones, PE

**ATTACHMENTS:** Yes  
1. Recommendation Letter from WGLA Engineering

**SUMMARY OF REQUEST:**

**Construction Contract:** As directed in the District’s approved budget, Mill Pond Creek Project was bid on May 28, 2015. As recommended by WGLA Engineering on the attached letter, Buchanan and Sons, Incorporated is presented to the Board for award of the construction contract. The proposed contract is for \$2,219,311.50.

The project falls within the statutory requirements for a formal bid process and therefore, the Engineer has conducted the bidding accordingly. Additionally, the project was advertised in the local newspaper and posted on the County website.

The proposed budget is as follows:

Construction Contract	\$2,219,311.50
Construction Contingency	\$201,688.50
Construction Admin/Inspection	\$54,000.00
Survey As-Builts	\$25,000.00
<b>Total Project Budget</b>	<b>\$2,500,000.00</b>

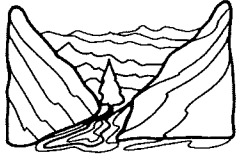
This project was approved in the FY2016 budget and funded with the District’s fund balance.

**BOARD ACTION REQUESTED:**

Award the construction contract for the Mill Pond Creek Project to Buchanan and Sons, Incorporated for \$2,219,311.50, approve the proposed project budget and authorize the County Engineer to execute the required documents.

**Suggested Motions:**

I move that the Board of Directors award the construction contract for the Mill Pond Creek Project to Buchanan and Sons, Incorporated for \$2,219,311.50, approve the proposed project budget and authorize the County Engineer to execute the required documents.



# WGLA Engineering, PLLC

Civil Engineering & Land Planning

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May 29, 2015

Mr. Marcus Jones, P.E.; County Engineer  
Henderson County  
1 Historic Courthouse Square, Suite 6  
Hendersonville, NC 28792

RE: Millpond Creek Pump Station and Sewer Extension  
Bid Summary with Recommendation  
WGLA #12158

Dear Mr. Jones:

Bids were received for the Millpond Creek Pump Station and Sewer Extension on Thursday, May 28, 2015. Four bids were received ranging from a low bid of \$1,964,048.00 submitted by Steppe Construction to a high of \$3,730,470 submitted by Hall Contracting Corporation. Our estimate for this project was \$1,851,675.00; however this estimate was not adjusted after the sewer line had to be redesigned to avoid several property owners who were unwilling to grant easements.

Unfortunately, we received a letter from Steppe Construction requesting that they be allowed to withdraw their bid due to mathematical errors. Their bid was approximately \$640,000 lower than then next bidder. A copy of their letter is attached. Based on our review of the bids and the request received, we recommend that Steppe Construction be allowed to withdraw their bid.

Following Steppe's request to withdraw their bid, the second lowest bidder, Buchanan and Sons, requested a meeting to discuss possible value engineering options to consider for this project. Since Buchanan and Sons was the lowest responsible bidder at that point, we met with this several weeks ago to discuss the project. As a result of that meeting, they presented a number of possible value engineering options that could reduce the construction contract to \$2,196,311.50.

After reviewing these value engineering items with the Cane Creek staff, we believe it is reasonable to accept a number of the options which would reduce the proposed construction contract to \$2,219,311.50. The County could move forward with a contract on this project or they could reject all the bids and rebid the project this fall. There are certainly no guarantees that rebidding the project would result in a lower construction contract. This would likely be dependant on the bidding environment at that time.

Mr. Marcus Jones, P.E.  
July 1, 2015  
Page 2

Should you chose to proceed with the project, we would recommend the following budget:

Buchanan Construction Contract	\$2,219,311.50
Contingency	\$201,688.50
Construction Admin/Inspection	\$54,000.00
Survey As-Builts	\$25,000.00
TOTAL	\$2,500,000.00

If you have any questions or need additional information, don't hesitate to contact our office.

Sincerely,  
WGLA Engineering, PLLC



William R. Buie, P.E.

# Millpond Creek Pump Station and Sewer Extension

## Bid Summary - Bid Opening May 28, 2015

	Minority Participation Plan	Bid Bond	Total Base Bid	Abandon Rugby WWTP	Abandon WHHS WWTP	Abandon Dollar General PS	6" Sewer Service to WHHS
<b>1 Steppe Construction</b>	<b>X</b>	<b>X</b>	<b>\$1,964,048.00</b>	<b>\$37,000.00</b>	<b>\$48,000.00</b>	<b>\$5,000.00</b>	<b>\$26,500.00</b>
1 Buchanan and Sons Inc	X	X	\$2,605,631.50	\$20,000.00	\$20,000.00	\$5,000.00	\$27,000.00
2 McClam & Associates	X	X	\$2,752,898.00	\$38,000.00	\$38,000.00	\$16,000.00	\$25,000.00
3 Hall Contracting Corporation	X	X	\$3,730,470.00	\$14,000.00	\$20,000.00	\$15,000.00	\$24,000.00
4 Buckeye Bridge, LLC				NO BID SUBMITTED			
5 Harper Corp				NO BID SUBMITTED			
6 Harrys Ditching				NO BID SUBMITTED			
7 James E. Harris Construction				NO BID SUBMITTED			
8 Moorhead Construction				NO BID SUBMITTED			
9 Osteen & Lemmons				NO BID SUBMITTED			
10 T&K Utilities, Inc				NO BID SUBMITTED			
11							
12							
13							
14							

Received By: W. J. R.  
 Date: 5-28-15

**Millpond Creek Pump Station and Interceptor**  
Bid Tabulation

Bidder			Steppe Construction		Buchanan and Sons, Inc.		McClam & Associates, Inc.		Hall Contracting Corp.	
No.	DESCRIPTION	UNIT QTY	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
<b>Sanitary Sewer Improvements</b>										
1	Clearing & Grubbing	LS 1	35,000.00	35,000.00	105,000.00	105,000.00	117,000.00	117,000.00	189,000.00	189,000.00
2	24" DIP Gravity Sewer	LF 78	124.00	9,672.00	163.00	12,714.00	250.00	19,500.00	300.00	23,400.00
3	12" PVC Gravity Sewer	LF 1,858	43.00	79,894.00	60.00	111,480.00	59.00	109,622.00	100.00	185,800.00
4	12" DIP Gravity Sewer	LF 905	60.00	54,300.00	83.00	75,115.00	86.00	77,830.00	150.00	135,750.00
5	8" PVC Gravity Sewer	LF 7,228	38.00	274,664.00	46.00	332,488.00	55.00	397,540.00	75.00	542,100.00
6	8" DIP Gravity Sewer	LF 2,753	47.00	129,391.00	89.00	245,017.00	72.00	198,216.00	95.00	261,535.00
7	4' Diameter Precast Manholes	EA 64	2,800.00	179,200.00	2,320.00	148,480.00	3,600.00	230,400.00	3,500.00	224,000.00
8	Washed Stone for Bedding	TN 5,200	24.00	124,800.00	30.00	156,000.00	28.00	145,600.00	30.00	156,000.00
9	6" PVC Force Main	LF 14,230	19.50	277,485.00	21.00	298,830.00	19.00	270,370.00	35.00	498,050.00
10	6" DIP Force Main	LF 1,435	32.00	45,920.00	33.50	48,072.50	37.00	53,095.00	48.00	68,880.00
11	36" Steel Casing Bored and Jacked	LF 50	475.00	23,750.00	520.00	26,000.00	615.00	30,750.00	510.00	25,500.00
12	24" Steel Casing Bored and Jacked	LF 138	365.00	50,370.00	380.00	52,440.00	425.00	58,650.00	375.00	51,750.00
13	16" Steel Casing Bored and Jacked	LF 343	314.00	107,702.00	315.00	108,045.00	305.00	104,615.00	310.00	106,330.00
14	12" Steel Casing Bored and Jacked	LF 350	230.00	80,500.00	245.00	85,750.00	220.00	77,000.00	235.00	82,250.00
15	Directional Bore Under Mud Creek	LF 200	145.00	29,000.00	63.00	12,600.00	120.00	24,000.00	80.00	16,000.00
16	Air Release Valve in Manhole	EA 1	4,800.00	4,800.00	4,900.00	4,900.00	5,300.00	5,300.00	4,700.00	4,700.00
17	Anit-Vacuum/Siphon Valve in Manhole	EA 2	4,700.00	9,400.00	5,100.00	10,200.00	5,020.00	10,040.00	4,800.00	9,600.00
18	Millpond Creek PS (inc. site work, electrical, fencing, etc.)	LS 1	154,600.00	154,600.00	226,000.00	226,000.00	215,700.00	215,700.00	339,000.00	339,000.00
19	Standby Pump System	LS 1	55,200.00	55,200.00	70,000.00	70,000.00	89,600.00	89,600.00	55,000.00	55,000.00
20	Connection to Rugby MS Sewer	LS 1	4,000.00	4,000.00	1,500.00	1,500.00	5,900.00	5,900.00	12,000.00	12,000.00
21	Connection to West Henderson HS Sewer	LS 1	4,000.00	4,000.00	1,500.00	1,500.00	4,800.00	4,800.00	12,000.00	12,000.00
22	6" Sewer Service to Animal Shelter (inc. 12" Bore)	LS 1	19,500.00	19,500.00	18,500.00	18,500.00	9,500.00	9,500.00	24,000.00	24,000.00
23	Abandon Existing PS at Animal Shelter	LS 1	5,000.00	5,000.00	3,500.00	3,500.00	7,840.00	7,840.00	13,500.00	13,500.00
24	Connection to Ex PS at Transfer Station	LS 1	2,500.00	2,500.00	1,750.00	1,750.00	4,800.00	4,800.00	11,000.00	11,000.00
25	Abandon Existing PS at Transfer Station	LS 1	5,000.00	5,000.00	3,500.00	3,500.00	7,840.00	7,840.00	13,500.00	13,500.00
26	Connection to Ex PS at NCDOT Yard (inc. Force Main R)	LS 1	6,000.00	6,000.00	1,750.00	1,750.00	6,100.00	6,100.00	12,000.00	12,000.00
27	Abandon Existing PS at NCDOT Yard	LS 1	2,500.00	2,500.00	3,500.00	3,500.00	7,840.00	7,840.00	13,500.00	13,500.00
28	Connection to Ex PS at Dollar General	LS 1	3,800.00	3,800.00	1,750.00	1,750.00	14,500.00	14,500.00	21,000.00	21,000.00
29	4" Sewer Service on 12" gravity line (to edge of easement)	EA 4	800.00	3,200.00	1,060.00	4,240.00	1,500.00	6,000.00	3,000.00	12,000.00
30	4" Sewer Service on 8" gravity line (to edge of easement)	EA 8	700.00	5,600.00	625.00	5,000.00	1,400.00	11,200.00	2,800.00	22,400.00
31	6" Sewer Service on 12" gravity line (to edge of easement)	EA 2	900.00	1,800.00	1,280.00	2,560.00	1,700.00	3,400.00	3,300.00	6,600.00
32	6" Sewer Service on 8" gravity line (to edge of easement)	EA 2	900.00	1,800.00	1,150.00	2,300.00	1,600.00	3,200.00	3,100.00	6,200.00
33	Concrete Patching and Repair	SY 125	85.00	10,625.00	48.00	6,000.00	90.00	11,250.00	75.00	9,375.00
34	Asphalt Patching and Repair	SY 850	35.00	29,750.00	73.00	62,050.00	45.00	38,250.00	70.00	59,500.00
35	Gravel and Soil Driveway Repair	TN 400	23.00	9,200.00	28.50	11,400.00	27.00	10,800.00	30.00	12,000.00
36	Stream Crossing (Gravity Sewer)	EA 9	2,500.00	22,500.00	1,850.00	16,650.00	13,000.00	117,000.00	20,000.00	180,000.00
37	Stream Crossing (Force Main)	EA 5	1,000.00	5,000.00	100.00	500.00	8,200.00	41,000.00	16,000.00	80,000.00
38	Trench Rock Excavation	CY 750	1.00	750.00	100.00	75,000.00	93.00	69,750.00	130.00	97,500.00
39	Inlet Protection at Culverts (Washed Stone and Rip Rap)	EA 125	100.00	12,500.00	1,250.00	156,250.00	170.00	21,250.00	250.00	31,250.00
40	Incidental Stone	TN 800	20.00	16,000.00	25.00	20,000.00	29.00	23,200.00	30.00	24,000.00
41	Silt Fencing	LF 10,500	3.00	31,500.00	3.00	31,500.00	2.80	29,400.00	4.00	42,000.00
42	Temporary Construction Entrance	LS 1	700.00	700.00	1,300.00	1,300.00	1,500.00	1,500.00	12,000.00	12,000.00
43	Erosion Control Matting	SY 4,500	1.15	5,175.00	2.00	9,000.00	3.50	15,750.00	3.00	13,500.00
44	Final Grassing and Stabilization	LS 1	30,000.00	30,000.00	35,500.00	35,500.00	46,000.00	46,000.00	15,000.00	15,000.00
<b>TOTAL BID</b>				<b>\$1,964,048.00</b>		<b>\$2,605,631.50</b>		<b>\$2,752,898.00 *</b>		<b>\$3,730,470.00</b>

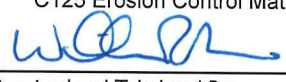
\*Indicates math error

**Add Alternates**

1	Abandon Existing Rugby MS WWTP	LS 1	\$37,000.00	37,000.00	\$20,000.00	20,000.00	\$38,000.00	38,000.00	\$14,000.00	14,000.00
2	Abandon Existing West Henderson HS WWTP	LS 1	\$48,000.00	48,000.00	\$20,000.00	20,000.00	\$38,000.00	38,000.00	\$20,000.00	20,000.00
3	Abandon Existing PS at Dollar General	LS 1	\$5,000.00	5,000.00	\$5,000.00	5,000.00	\$16,000.00	16,000.00	\$15,000.00	15,000.00
4	6" Sewer Service to WHHS (inc. 12" Bore)	LS 1	\$26,500.00	26,500.00	\$27,000.00	27,000.00	\$25,000.00	25,000.00	\$24,000.00	24,000.00

**Unit Price Items**

Item	Unit	Est. Quan.	Unit Price	Unit Price	Unit Price	Unit Price
15" HDPE Storm Drainage Piping	LF	X	\$40.00	\$26.00	\$55.00	\$35.00
6" Underdrain w/ Stone and Fabric	LF	X	\$27.00	\$22.00	\$35.00	\$35.00
Trenching and Installation of Conduit	LF	X	\$12.00	\$22.00	\$38.00	\$25.00
Undercut Unsuitable Materials	CY	X	\$38.00	\$10.00	\$13.00	\$35.00
Haul Off Unsuitable Materials or Topsoil	CY	X	\$30.00	\$10.00	\$19.00	\$25.00
P300 Erosion Control Matting	SY	X	\$4.50	\$5.00	\$7.00	\$4.00
C125 Erosion Control Matting	SY	X	\$3.00	\$2.00	\$4.00	\$3.00



Received and Tabulated By:

5-28-15

Date:

## Millpond Creek Pump Station and Interceptor - Value Engineering Proposal

**Owner:** Henderson County - Cane Creek Sewer District  
 1 Historic Courthouse Square, Suite 6  
 Hendersonville, NC 28792

**Prepared By:** Buchanan and Sons Inc (BSI)

**Address:** P.O. Box 123  
 Whittier, NC 28789

**Phone:** (828)-497-9720

**Fax:** (828)-497-9721

**E-mail:** [estimator@bsi-construction.com](mailto:estimator@bsi-construction.com)

**Web:** [www.bsi-construction.com](http://www.bsi-construction.com)

**Estimator:** Tom Edge

**Estimate Date:** Thursday, June 18, 2015

**Contractor's License:** 53244



**Architect / Engineer:**

WGLA Engineering PLLC  
 214 N. King Street  
 Hendersonville, NC 28792

Submitted Bid Items					
Reference	Description	Quantity	Units	Unit Cost	Total
01	Clearing & Grubbing	1.00	LS	\$105,000.00	\$105,000.00
02	24" Ductile Iron Pipe (DIP) Sewer Main (10' to 12' Deep)	78.00	LF	\$163.00	\$12,714.00
03	12" SDR 35 PVC Sanitary Sewer	1858.00	LF	\$60.00	\$111,480.00
04	12" DIP Sanitary Sewer	905.00	LF	\$83.00	\$75,115.00
05	8" SDR 35 PVC Sanitary Sewer	7228.00	LF	\$46.00	\$332,488.00
06	8" DIP Sanitary Sewer	2753.00	LF	\$89.00	\$245,017.00
07	4' Dia Manholes - Standard	64.00	EA	\$2,320.00	\$148,480.00
08	Washed Stone for Bedding	5200.00	TN	\$30.00	\$156,000.00
09	6" PVC Force Main	14230.00	LF	\$21.00	\$298,830.00
10	6" Ductile Iron Pipe (DIP) Force Main	1435.00	LF	\$33.50	\$48,072.50
11	36" steel encasement pipe, bored and jacked	50.00	LF	\$520.00	\$26,000.00
12	24" steel encasement pipe, bored and jacked	138.00	LF	\$380.00	\$52,440.00
13	16" steel encasement pipe, bored and jacked	343.00	LF	\$315.00	\$108,045.00
14	12" steel encasement pipe, bored and jacked	350.00	LF	\$245.00	\$85,750.00
15	Directional Bore under Mud Creek	200.00	LF	\$63.00	\$12,600.00
16	Air Release Valve in Manhole	1.00	EA	\$4,900.00	\$4,900.00
17	Anti-Vacuum/Siphon Valve in Manhole	2.00	EA	\$5,100.00	\$10,200.00
18	Millpond Creek Pump Station (including site work, electrical, fencing, e	1.00	LS	\$226,000.00	\$226,000.00
19	Standby Pump System	1.00	LS	\$70,000.00	\$70,000.00
20	Connect to Rugby MS Sewer	1.00	LS	\$1,500.00	\$1,500.00
21	Connect to West Henderson HS Sewer	1.00	LS	\$1,500.00	\$1,500.00
22	6" Sewer Service to Animal Shelter (inc. 12" Bore)	1.00	LS	\$18,500.00	\$18,500.00
23	Abandon Existing Pump Station at Animal Shelter	1.00	LS	\$3,500.00	\$3,500.00
24	Connect to Ex PS at Transfer Station	1.00	LS	\$1,750.00	\$1,750.00
25	Abandon Existing PS at Transfer Station	1.00	LS	\$3,500.00	\$3,500.00
26	Connect to Ex PS at NCDOT Yard (inc. Force Main Re-rout)	1.00	LS	\$1,750.00	\$1,750.00
27	Abandon Existing PS at NCDOT Yard	1.00	LS	\$3,500.00	\$3,500.00
28	Connect to Ex PS at Dollar General	1.00	LS	\$1,750.00	\$1,750.00
29	4" Sewer Service on 12" gravity line (to edge of easement)	4.00	EA	\$1,060.00	\$4,240.00
30	4" Sewer Service on 8" gravity line (to edge of easement)	8.00	EA	\$625.00	\$5,000.00
31	6" Sewer Service on 12" gravity line (to edge of easement)	2.00	EA	\$1,280.00	\$2,560.00
32	6" Sewer Service on 8" gravity line (to edge of easement)	2.00	EA	\$1,150.00	\$2,300.00
33	Concrete Patching & Repair	125.00	SY	\$48.00	\$6,000.00
34	Asphalt Patching & Repair	850.00	SY	\$73.00	\$62,050.00
35	Gravel and Soil Driveway Repair	400.00	TN	\$28.50	\$11,400.00
36	Stream Crossing (Gravity Sewer)	9.00	EA	\$1,850.00	\$16,650.00
37	Stream Crossing (Force Main)	5.00	EA	\$100.00	\$500.00
38	Trench Rock Excavation	750.00	CY	\$100.00	\$75,000.00
39	Inlet Protection at Culverts	125.00	EA	\$1,250.00	\$156,250.00
40	Incidental Stone	800.00	TN	\$25.00	\$20,000.00
41	Silt Fencing	10500.00	LF	\$3.00	\$31,500.00

42	Temporary Construction Entrance	1.00	LS	\$1,300.00	\$1,300.00
43	Erosion Control Matting	4500.00	SY	\$2.00	\$9,000.00
44	Final Grassing & Stabilization	1.00	LS	\$35,500.00	\$35,500.00
<b>Submitted Bid:</b>					<b>\$2,605,631.50</b>

Value Engineer Options					
Reference	Description	Quantity	Units	Unit Cost	Total
VE-01	Remove 24" D.I.P. Item with 36" Jack & Bore / Replace with D. Drill	-1.00	LS	\$39,320.00	-\$39,320.00
VE-02	Remove Trench Rock Excavation	-1.00	LS	\$75,000.00	-\$75,000.00
<del>VE-03</del>	<del>Replace Back-up Pump with 80 KW Generator</del>	<del>-1.00</del>	<del>LS</del>	<del>\$23,000.00</del>	<del>-\$23,000.00</del>
VE-04	Eliminate 12" Jack & Bore / Replace with Directional Drill	-1.00	LS	\$71,000.00	-\$71,000.00
VE-05	Replace Item 39 with Erosion Control Stone Item	-1.00	LS	\$135,000.00	-\$135,000.00
VE-06	Modified Pavement Repair Unit Price based on 8" ABC / 2" S-9.5B	-1.00	LS	\$20,500.00	-\$20,500.00
VE-07	Remove Pump Station Abandonment Items (23,25,27)	-1.00	LS	\$10,500.00	-\$10,500.00
VE-08	Reduction in Unit Priced for Extended Deadline	-1.00	LS	\$35,000.00	-\$35,000.00

+ 383,320

<b>VE Total:</b>	<b>-\$409,320.00</b>
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<b>Total with VE:</b>	<b>-\$2,196,311.50</b>
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\$ 2,219,311.50