AGENDA
Board of Public Works Meeting
Tuesday, August 30, 2016 – 7:00 P.M.
Jackson Village Hall
N168W20733 Main Street

1. Call to Order and Roll Call.

2. Approval of Minutes for July 26, 2016, meeting.

3. Space Needs Analysis Presentation – Cedar Corp.

4. Review of Bids for Industrial Drive Sidewalk Project.

5. Resolution Preliminary Assessment Area Industrial Dr Sidewalk Project.

6. Final Pay Request – Jackson Drive Sidewalk Project.

7. Pay Request #4 – Wilshire Drive Reconstruction Project.

8. Review of Final Assessment Wilshire Drive Reconstruction Project.

9. Stonewall Path Project Update Plan.

10. Director of Public Works Report.

11. Citizens/Village Staff to address the Board.

12. Adjourn.

Persons with disabilities requiring special accommodations for attendance at the meeting should contact the Village Hall at least one (1) business day prior to the meeting.

It is possible that members of the Village Board may attend the above meeting. No action will be taken by any governmental body at this meeting other than the governmental body specifically referred to in this meeting notice. This notice is given so that members of the Village Board may attend the meeting without violating the open meeting law.

Public Works Report
August 30, 2016

Treatment Plant - Designed Capacity – 1.67 million gallons per day
Peak Flow Capacity – 6.0 million gallons per day

Year 2014

January	Avg. Flow 695,355 g.p.d.	Min. Flow 626,000 g.p.d.	Max. 822,000 g.p.d.
February	Avg. Flow 659,286 g.p.d.	Min. Flow 581,000 g.p.d.	Max. 874,000 g.p.d.
March	Avg. Flow 941,613 g.p.d.	Min. Flow 611,000 g.p.d.	Max. 1.285 MGD
April	Avg. Flow 1.172 MGD	Min. Flow 814,000 g.p.d.	Max. 3.188 MGD
May	Avg. Flow 947,322 g.p.d.	Min. Flow 688,000 g.p.d.	Max. 1.474 MGD
June	Avg. Flow 1.199 MGD	Min. Flow 732,000 g.p.d.	Max. 2.223 MGD
July	Avg. Flow 846,226 g.p.d.	Min. Flow 670,000 g.p.d.	Max. 1.646 MGD
August	Avg. Flow 743,322 g.p.d.	Min. Flow 603,000 g.p.d.	Max. 1.039 MGD
September	Avg. Flow 646,567 g.p.d.	Min. Flow 532,000 g.p.d.	Max. 759,000 g.p.d.
October	Avg. Flow 707,484 g.p.d.	Min. Flow 584,000 g.p.d.	Max. 898,000 g.p.d.
November	Avg. Flow 698,267 g.p.d.	Min. Flow 581,000 g.p.d.	Max. 1.086 MGD
December	Avg. Flow 788,065 g.p.d.	Min. Flow 658,000 g.p.d.	Max. 1.228 MGD

Year 2015

January	Avg. Flow 667,774 g.p.d.	Min. Flow 617,000 g.p.d.	Max. 713,000 g.p.d.
February	Avg. Flow 620,893 g.p.d.	Min. Flow 591,000 g.p.d.	Max. 662,000 g.p.d.
March	Avg. Flow 753,484 g.p.d.	Min. Flow 597,000 g.p.d.	Max. 885,000 g.p.d.
April	Avg. Flow 1.203 MGD	Min. Flow 705,000 g.p.d.	Max. 3.759 MGD
May	Avg. Flow 775,323 g.p.d.	Min. Flow 584,000 g.p.d.	Max. 1.317 MGD
June	Avg. Flow 905,633 g.p.d.	Min. Flow 661,000 g.p.d.	Max. 1.409 MGD
July	Avg. Flow 696,290 g.p.d.	Min. Flow 571,000 g.p.d.	Max. 912,000 g.p.d.
August	Avg. Flow 726,935 g.p.d.	Min. Flow 558,000 g.p.d.	Max. 1.254 MGD
September	Avg. Flow 728,240 g.p.d.	Min. Flow 526,000 g.p.d.	Max. 1.364 MGD
October	Avg. Flow 505,516 g.p.d.	Min. Flow 409,000 g.p.d.	Max. 691,000 g.p.d.
November	Avg. Flow 696,800 g.p.d.	Min. Flow 494,000 g.p.d.	Max. 1.583 MGD
December	Avg. Flow 897,258 g.p.d.	Min. Flow 616,000 g.p.d.	Max. 1.799 MGD

Year 2016

January	Avg. Flow 611,323 g.p.d.	Min. Flow 451,000 g.p.d.	Max. 924,000 g.p.d.
February	Avg. Flow 640,793 g.p.d.	Min. Flow 496,000 g.p.d.	Max. 851,000 g.p.d.
March	Avg. Flow 821,839 g.p.d.	Min. Flow 567,000 g.p.d.	Max. 1.463 MGD
April	Avg. Flow 718,000 g.p.d.	Min. Flow 563,000 g.p.d.	Max. 1.079 MGD
May	Avg. Flow 615,000 g.p.d.	Min. Flow 490,000 g.p.d.	Max. 937,000 g.p.d.
June	Avg. Flow 622,700 g.p.d.	Min. Flow 513,000 g.p.d.	Max. 892,000 g.p.d.
July	Avg. Flow 690,935 g.p.d.	Min. Flow 457,000 g.p.d.	Max. 1.074 MGD

Years Summary of Water Consumption

2004 Total Pumpage 216,055,000 gallons	2005 Total Pumpage 223,215,000 gallons
2006 Total Pumpage 207,719,000 gallons	2007 Total Pumpage 217,224,000 gallons
2008 Total Pumpage 229,613,000 gallons	2009 Total Pumpage 231,160,000 gallons
2010 Total Pumpage 239,326,000 gallons	2011 Total Pumpage 240,268,000 gallons
2012 Total Pumpage 253,492,000 gallons	2013 Total Pumpage 228,371,000 gallons
2014 Total Pumpage 230,973,000 gallons	2015 Total Pumpage 222,621,000 gallons

Year 2014

Jan.	Avg.	620,550 g.p.d.	Highest Day 789,000 gals.	Total	19,237,000 gallons
Feb.	Avg.	612,390 g.p.d.	Highest Day 717,000 gals.	Total	17,147,000 gallons
March	Avg.	603,710 g.p.d.	Highest Day 678,000 gals.	Total	18,715,000 gallons
April	Avg.	602,600 g.p.d.	Highest Day 1.037 MGD	Total	18,078,000 gallons
May	Avg.	599,290 g.p.d.	Highest Day 729,000 gals.	Total	18,578,000 gallons
June	Avg.	658,000 g.p.d.	Highest Day 815,000 gals.	Total	19,740,000 gallons
July	Avg.	684,320 g.p.d.	Highest Day 881,000 gals.	Total	21,214,000 gallons
August	Avg.	703,320 g.p.d.	Highest Day 1.019 MGD	Total	21,803,000 gallons
Sept	Avg.	639,170 g.p.d.	Highest Day 747,000 gals.	Total	19,275,000 gallons
October	Avg.	658,940 g.p.d.	Highest Day 1.042 MGD	Total	20,427,000 gallons
Nov	Avg.	595,800 g.p.d.	Highest Day 733,000 gals.	Total	17,874,000 gallons
Dec	Avg.	610,970 g.p.d.	Highest Day 742,000 gals.	Total	18,940,000 gallons

Year 2015

Jan.	Avg.	599,680 g.p.d.	Highest Day 719,000 gals.	Total	18,590,000 gallons
Feb	Avg.	587,040 g.p.d.	Highest Day 736,000 gals.	Total	16,437,000 gallons
March	Avg.	582,970 g.p.d.	Highest Day 698,000 gals.	Total	18,072,000 gallons
April	Avg.	601,370 g.p.d.	Highest Day 928,000 gals.	Total	18,041,000 gallons
May	Avg.	585,260 g.p.d.	Highest Day 698,000 gals.	Total	18,143,000 gallons
June	Avg.	640,430 g.p.d.	Highest Day 779,000 gals.	Total	19,213,000 gallons
July	Avg.	722,550 g.p.d.	Highest Day 989,000 gals.	Total	22,399,000 gallons
August	Avg.	733,420 g.p.d.	Highest Day 1.197 MGD	Total	22,736,000 gallons
Sept	Avg.	615,700 g.p.d.	Highest Day 753,000 gals.	Total	18,471,000 gallons
Oct	Avg.	594,840 g.p.d.	Highest Day 945,000 gals	Total	18,440,000 gallons
Nov	Avg.	492,630 g.p.d.	Highest Day 599,000 gals	Total	14,779,000 gallons
Dec	Avg.	555,480 g.p.d.	Highest Day 637,000 gals	Total	17,220,000 gallons

Year 2016

Jan.	Avg.	580,680 g.p.d.	Highest Day 734,000 gals.	Total	18,001,000 gallons
Feb.	Avg.	603,930 g.p.d.	Highest Day 710,000 gals.	Total	17,514,000 gallons
March	Avg.	586,650 g.p.d.	Highest Day 693,000 gals.	Total	18,186,000 gallons
April	Avg.	660,200 g.p.d.	Highest Day 1.021 MGD	Total	19,806,000 gallons
May	Avg.	681,130 g.p.d.	Highest Day 997,000 gals.	Total	21,115,000 gallons
June	Avg.	781,870 g.p.d.	Highest Day 1.113 MGD	Total	23,456,000 gallons
July	Avg.	865,610 g.p.d.	Highest Day 1.046 MGD	Total	26,834,000 gallons

Pump Capacity - Well #1- 400 g.p.m. Well #3 -900 g.p.m. Well #4 - 1200 g.p.m. Well #5 – 1,100 g.p.m. Well #6 – 800 g.p.m.

WWTP – Holding & Septage Receiving

2005	$ 87,562.01	**2006**	$101,115.11	**2007**	$152,201.07	**2008**	$210,441.47
2009	$183,815.34	**2010**	$197,653.66	**2011**	$220,576.28	**2012**	$236,224.70
2013	$235,336.46	**2014**	$203,938.32	**2015**	$210,644.47		

2014	**Holdings (gals)**	**Grease (gals)**	**G Decant (gals)**	**Septage (gals)**	**S Decant (gals)**	**Total Billings**
Jan	1,298,100	26,700	8,000	2,000	40,000	$12,377.30
Feb	1,214,100	42,400	8,000	9,450	16,250	$12,181.61
March	1,411,000	43,200	5,000	10,300	57,200	$14,633.31
April	1,634,000	21,800		39,350	191,100	$19,620.21
May	1,451,750			63,500	199,450	$18,414.39
June	1,553,200			30,900	253,600	$19,225.00
July	1,474,650			40,400	205,450	$17,812.13
August	1,344,650			35,250	187,250	$16,176.13
September	1,308,700		3,500	54,650	246,050	$18,292.51
October	1,431,150			89,350	351,950	$23,106.38
November	1,078,600			66,100	251,214	$17,013.86
December	1,400,900			12,650	162,910	$15,085.50

2015	**Holdings (gals)**	**Grease (gals)**	**G Decant (gals)**	**Septage (gals)**	**S Decant (gals)**	**Total Billings**
Jan	1,326,850			10,250	52,100	$11,663.89
Feb	1,191,500			2,500	45,400	$10,171.26
March	1,507,900			16,150	85,900	$14,102.76
April	1,668,450			35,250	398,200	$23,878.38
May	1,190,850			31,100	148,600	$13,890.38
June	1,407,600			37,750	349,100	$20,794.50
July	1,485,950			33,830	243,660	$18,589.33
August	1,255,600			28,050	290,860	$17,810.50
September	1,459,400			15,500	333,350	$19,899.26
October	1,273,400	7,200		37,150	369,300	$20,603.82
November	1,336,300			36,200	343,035	$20,046.14
December	1,610,500			31,200	234,700	$19,194.26

2016	**Holdings (gals)**	**Grease (gals)**	**G Decant (gals)**	**Septage (gals)**	**S Decant (gals)**	**Total Billings**
Jan	1,359,400			3,500	47,700	$11,528.02
Feb	1,443,000			1,500	31,350	$11,666.26
March	1,515,950			5,600	102,900	$14,166.14
April	1,600,500			25,000	284,250	$20,110.01
May	1,560,350			24,000	246,200	$18,817.63
June	1,551,600			49,100	257,900	$20,048.50
July	1,195,900			21,850	278,400	$16,803.25

Cranberry Creek Phase 4
The first building is being occupied and all punch list items are being completed.

Final Lift for Developed Subdivisions
Still working on the final lift of asphalt in Stonewall Ridge Development phase 2, English Oaks, and Laurel Springs this year. Walked Laurel Springs Subdivision Phase 1 on Tuesday, July 19th with Payne & Dolan rep to determine what first lift of asphalt needs to be removed along with curbing.

Rosewood Drive/TIF #4 Expansion Project
The property still has the potential of being developed. Lawsuit is pending.

Laurel Springs Subdivision
The Developer (Bielinski Homes) is working on quotes to pave the final lift asphalt this year. No change.

GIS Program
Town and Country Engineering have started the process for the GIS system upgrade. The necessary license has been purchased to continue with the new mapping. We are finalizing user names to access to the maps.

Storm Water Management Plan
The ordinance is being finalized to be incorporated into the new Village Code. We will have a presentation at the September PW meeting.

SCADA Upgrade Project
Staff is meeting with Town & Country Engineering to finalize the bid documents. The project will be advertised in late 2016. The team is still working on finalizing the necessary documents.

Wilshire Drive Project LRIP
The street lights electric services have been scheduled for August 31st. The poles have not arrived and are scheduled for mid-September. We are finalizing all pay items to create the final assessment.

Space Needs Analysis Study
Cedar Corp team did a great job with the study and will present at the August 30th meeting.

Respectfully submitted, Brian W. Kober, P.E.