

Wrayburn Road and Terrace Drive PPII Investigation Summary - Priority #4 and #5

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|--------------------------|----------|------------|------------|---------|--------|---------|-----------|----------|------------|--------------|----------|----------------|--------------------------|----------------|---|-------|----------|----------|-------|--|-------|-------|---|---------|--|
| Village of Elm Grove | | | | | | | | | | | | | Investigation Date: | | June, July, November and December of 2017 | | | | | | | | | | |
| Project No. 38-10011.100 | | | | | | | | | | | | | Investigation By: | | Visu-Sewer | | | | | | | | | | |
| | | | | | | | | | | | | | Cost Estimate Item No. = | | 1 | 2 & 3 | | 4 | 5 & 9 | | 6 & 9 | 7 & 9 | 8 | 10 & 11 | |
| Visu-Sewer | Upstream | Downstream | Sewer Main | | | Tax Key | Televised | Water | Additional | Lateral Root | Install | Manhole Shot | Main & Lateral | Tank Shot | Lateral Size | Spot | Priority | | | | | | | | |
| Report Order | MH | MH | Material | Address | Street | Number | Length | Injected | Televising | Cleaning | Cleanout | Lateral Lining | Connection Lining | Lateral Lining | Transition | Relay | Ranking | Comments | | | | | | | |

WRAYBURN ROAD AREA

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|----|-------|-------|-------|-------|----------------|--------------|----------------|-----|------------|------------|-----------|----------|------------|------------|----------|----------|--------------------------------------|--|--|
| 29 | 2-075 | 2-074 | VC | 12900 | Wrayburn Road | 1101-101 | 79.5 | Yes | 70 | 40 | 1 | | 100 | | | | 5 | VC lateral; Multiple defects noted; Camera would not advance beyond 79' due to blockage; Recommend installing Vac-A-Tee at or near P/L; Televising remaining lateral & evaluate to determine if additional repairs are required; May require additional 60' +/- of lining requiring 2nd set up. | |
| 1 | 2-052 | 2-051 | Clay | 13300 | Lee Court | 1102-009 | 72 | Yes | | 9 | 1 | | 73 | | | | 4 | Multiple defects noted. May require repair/abandonment of exist CO; Existing VC lateral. | |
| 3 | 2-056 | 2-053 | Clay | 13185 | Lee Court | 1102-016 | 99.5 | Yes | | 60 | 1 | | 100 | | | | 4 | No relay due to landscaping; VC pipe; Multiple defects noted; Exist CO at 60' upstream from mainline sewer. | |
| 15 | 2-070 | 2-069 | Conc. | 13000 | Dunwoody Drive | 1101-132 | 90 | Yes | | 20 | 1 | | 58 | | | | 4 | VC lateral; Multiple defects noted; Possible relay to remove sag in lateral; Possible repair/abandonment of exist CO. | |
| 21 | 2-072 | 2-069 | VC | 13105 | Dunwoody Drive | 1101-137 | 86 | Yes | | 40 | 1 | | 86 | | | | 4 | VC lateral; Multiple defects noted; Possible repair/abandonment of exist CO 49.5' from main. | |
| 23 | 2-073 | 2-072 | --- | 13120 | Dunwoody Drive | 1101-129 | 90 | Yes | | 20 | 1 | | 90 | | | | 4 | VC lateral; Multiple defects noted; No relay due to landscaping. | |
| 28 | 2-075 | 2-074 | VC | 12905 | Wrayburn Road | 1101-096 | 100.5 | Yes | | 30 | 1 | | | 66 | | | 4 | VC lateral; Multiple defects noted; Line from house to last defect. | |
| 30 | 2-075 | 2-074 | VC | 13000 | Wrayburn Road | 1101-120 | 98.5 | Yes | 60 | | 1 | | 100 | | | | 4 | VC lateral; Multiple defects noted; LETS camera cable reached end at 98'; Recommend installing Vac-A-Tee at or near P/L; Televising remaining lateral & evaluate to determine if additional repairs are required; May require additional 60' +/- of lining requiring 2nd set up; Joints are in poor condition. | |
| 32 | 2-076 | 2-075 | VC | 12855 | Wrayburn Road | 1101-095 | 98 | Yes | | 40 | 1 | | 86 | | | | 4 | VC lateral; Multiple defects noted; Relay not practical due to landscaping & driveway; Line lateral up to driveway; CO at 54' from main may require repair or abandonment. | |
| 33 | 2-076 | 2-075 | VC | 12850 | Wrayburn Road | 1101-100 | 95 | Yes | 70 | | 1 | | 44 | | | | 4 | VC lateral; Multiple defects noted; Line to repair wye at connection to main; CO at 93'; Recommend placement of Vac-A-Tee at or near P/L so remaining lateral can be televised & evaluated. | |
| 39 | 2-196 | 2-066 | Conc. | 13005 | Lee Court | 1101-111 | 78.1 | Yes | | | 1 | | | 15 | 1 | | 4 | VC lateral; Deposits at connection to main; Possible shorty liner; Requires 6" x 4" transitional liner near house; May require venting through the house during installation. | |
| 40 | 2-196 | 2-066 | Conc. | 12955 | Lee Court | 1101-110 | 100.1 | Yes | | | 1 | | | 26 | | | 4 | VC lateral; Multiple defects noted; Clean lateral to remove adhesive at joint 37' from main; Spot line lateral from 61' to 82' downstream of main. | |
| 41 | 2-197 | 2-196 | | 12905 | Lee Court | 1101-999-002 | 84.2 | Yes | | | 1 | | | 56 | 1 | | 4 | VC lateral; Multiple defects noted; Lateral transitions to CI at 83' from main; Heavy turburculation; Most of lateral runs under driveway; Requires 6" x 4" transitional liner; Line from house to 6' from P/L. | |
| | | | | | | | 1,171.4 | | 200 | 259 | 13 | 0 | 737 | 163 | 2 | 0 | Totals for Wrayburn Road Area | | |
| | | | | | | | | | 3 | 8 | | | 9 | 4 | | | | | |

TERRACE DRIVE AREA

| | | | | | | | | | | | | | | | | | | |
|----|-------|-------|-------|-----------|----------------|-----------------------|------|-----|-----|----|---|--|-----|----|--|----|---|--|
| 42 | 6-086 | 6-093 | VC | 1080 | Lone Tree Road | 1110-063 | 95 | Yes | | 20 | 1 | | 97 | | | | 5 | VC lateral; Service off of Terrance Ct.; Multiple defects noted; Broken pipe 92' from main; Lining best option due to landscaping & driveway. |
| 43 | 6-086 | 6-093 | VC | 1100 | Lone Tree Road | 1110-064 | 83.8 | Yes | | 80 | 1 | | 87 | | | | 5 | VC lateral; Service off of Terrance Ct.; Multiple defects noted; Lining best option due to landscaping & driveway to repair wye connection. |
| 44 | 6-091 | 6-092 | VC | 1040/1030 | Terrace Dr. | 1110-099/ 1110-098 | 100 | Yes | 280 | 75 | 2 | | 100 | | | | 5 | VC lateral; Connected to main with riser; Multiple defects noted; Lining best option due to landscaping & lateral runs under property at 15175 Terrance Ct.; Recommend televising remaining lateral from CO at 1040 & 1030 Terrace Dr to evaluate remaining lateral condition and verify that houses are connected. May require an additional 280' +/- of lining with two additional tank shots. Sag in lateral 67' to 71' from main (~20%). |
| 46 | 6-092 | 6-091 | VC | 15150 | Terrace Ct. | 1110-102 | 61.2 | Yes | 60 | 60 | 1 | | 64 | | | | 5 | VC lateral; Multiple defects noted; Camera unable to advance beyond 61' from main due to roots & debris (80%); Recommend televising from house CO or install Vac-A-Tee to evaluate condition of remaining lateral; May require additional 60' of lining with 2nd set up; Lining best option due to landscaping. |
| 50 | 6-094 | 6-093 | VC | 1120 | Lone Tree Road | 1110-065 | 99.6 | Yes | | 15 | 1 | | 102 | | | | 5 | VC lateral; Multiple defects noted; CO at 64' from main needs to be abandoned or repaired; Additional 15' of lining may be required to line entire lateral. |
| 54 | 6-097 | 6-096 | lined | 14960 | Juneau Blvd. | 1099-098 | 100 | Yes | | 40 | 1 | | | 34 | | | 5 | VC lateral changing to PVC from 4.5' to 77' from main; Multiple defects noted in clay sections of lateral; Install 7' Shorty Tee Liner & line remaining clay lateral. |
| 64 | 6-101 | 6-099 | VC | 1065 | Woodland Ave. | 1110-018 | 101 | Yes | | 30 | 1 | | 103 | | | | 5 | VC lateral; Multiple defects noted; Possible 2nd set up required due to landscaping & length of lateral; Lining best option to repair connection. |
| 72 | 6-104 | 6-103 | VC | 1025 | Lone Tree Road | 1110-079 | 98.5 | Yes | | | 1 | | 55 | | | 46 | 5 | VC lateral; Multiple defects noted throughout lateral; Recommend spot relay from main to 46' upstream to repair sag (if landscaping permits) & line remaining length; If unable to relay, line entire lateral. |

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|---|----------|------------|---------------------|---------|------------------|----------|----------------|----------|------------|--------------|-----------|----------------|--------------------------|----------------|--------------|-----------|---|--|---|-------|---|---------|
| Village of Elm Grove | | | | | | | | | | | | | Investigation Date: | | | | June, July, November and December of 2017 | | | | | |
| Project No. 38-10011.100 | | | | | | | | | | | | | Investigation By: | | | | Visu-Sewer | | | | | |
| | | | | | | | | | | | | | Cost Estimate Item No. = | | 1 | 2 & 3 | 4 | 5 & 9 | 6 & 9 | 7 & 9 | 8 | 10 & 11 |
| Visu-Sewer | Upstream | Downstream | Sewer Main | | | Tax Key | Televised | Water | Additional | Lateral Root | Install | Manhole Shot | Main & Lateral | Tank Shot | Lateral Size | Spot | Priority | | | | | |
| Report Order | MH | MH | Material | Address | Street | Number | Length | Injected | Televising | Cleaning | Cleanout | Lateral Lining | Connection Lining | Lateral Lining | Transition | Relay | Ranking | Comments | | | | |
| 78 | 6-106 | 6-105 | located in MH 6-105 | 970 | Lone Tree Road | 1110-012 | 62 | Yes | | | | | | | | 38 | 5 | VC lateral located in MH-105; Multiple defects noted; Constant clearwater flowing in lateral; Possibly recharging water softener; If landscaping permits, spot relay to dimension change in pipe at 38.5' from MH; If unable to relay, then line pipe. | | | | |
| 45 | 6-092 | 6-091 | VC | 15175 | Terrace Ct. | 1110-100 | 80 | Yes | | | 1 | | 26 | | | | | 4 | VC to PVC lateral; Multiple defects noted; Line clay portion of lateral; Recommend lining to repair leak at wye connection. | | | |
| 47 | 6-092 | 6-091 | VC | 15170 | Terrace Ct. | 1110-103 | 100 | Yes | 50 | 60 | 1 | | 102 | | | | | 4 | VC lateral; Multiple defects noted; Recommend televising from Vac-A-Tee to evaluate condition of remaining lateral; May require additional 50' of lining with 2nd set up; Lining best option due to landscaping. CO from main may require repair/abandonment. | | | |
| 48 | 6-092 | 6-093 | VC | 1085 | Lone Tree Road | 1110-083 | 78.5 | Yes | | 10 | 1 | | 82 | | 1 | | | 4 | VC lateral; Multiple defects noted; Lining best option due to landscaping; Requires 6" x 4" transitional liner to repair fracture at 78' from main. | | | |
| 49 | 6-094 | 6-093 | VC | 1115 | Lone Tree Road | 1110-070 | 100 | Yes | | | 1 | | 102 | | | | | 4 | VC lateral; Multiple defects noted; Unable to view last 5' of televising - camera under water; Broken pipe at CO 53' from main; May require repair or abandonment. | | | |
| 51 | 6-094 | 6-093 | VC | 1125 | Lone Tree Road | 1110-071 | 100 | Yes | 80 | | 1 | | 100 | | | | | 4 | VC lateral; Crack at wye connection; Camera under water for approx. 73' of televising due to debris or sag; Obvious infiltration during water injection; Lateral runs under brick driveway & landscaping; Recommend installing Vac-A-Tee, clean lateral, remove water, and televising lateral to evaluate. | | | |
| 52 | 6-095 | 6-094 | located in MH 6-094 | 1135 | Lone Tree Road | 1110-072 | 76.7 | Yes | | | 1 | 115 | | | | | | 4 | VC lateral; Recommend lining entire length due to multiple offsets, separated joints & infiltration; Lining best option due to landscaping. | | | |
| 53 | 6-096 | 6-095 | located in MH 6-095 | 1175 | Lone Tree Road | 1110-075 | 99 | Yes | | 25 | 1 | 110 | | | | | | 4 | VC lateral; Multiple defects noted throughout pipe section; CO at 77' from main needs to be abandoned or repaired; Lining best option due to landscaping & driveway. | | | |
| 58 | 6-100 | 6-099 | located in MH 6-100 | 1140 | Woodland Ave. | 1110-066 | 100 | Yes | | 100 | 1 | 120 | | | | | | 4 | VC lateral; Multiple defects noted; Lining best option due to landscaping & driveway; May require 2nd set up due to length. | | | |
| 59 | 6-100 | 6-099 | located in MH 6-100 | 1145 | Woodland Ave. | 1110-048 | 96.5 | Yes | | 97 | 1 | 97 | | | | | | 4 | VC lateral; Multiple defects noted; Camera under water from 10' to 25' from MH; Lining best option due to driveway. | | | |
| 62 | 6-100 | 6-099 | VC | 1100 | Woodland Ave. | 1110-041 | 74.4 | Yes | 30 | 40 | 1 | | 100 | | | | | 4 | VC lateral; Multiple defects noted; Line only to repair defect at connection; Camera unable to advance beyond 74.4' due to roots; Recommend televising from house CO or install Vac-A-Tee to evaluate condition of remaining lateral | | | |
| 63 | 6-101 | 6-099 | VC | 1080 | Woodland Ave. | 1110-040 | 99.5 | Yes | | 50 | 1 | | 100 | | | | | 4 | Lateral change material from VC to Conc 18" from main; multiple defects noted. Line only due to landscaping. | | | |
| 65 | 6-101 | 6-099 | VC | 1070 | Woodland Ave. | 1110-039 | 58 | Yes | 40 | 60 | 1 | | 100 | | | | | 4 | VC lateral; Multiple defects noted; Camera unable to advance beyond 58' due to root ball; Recommend televising from house CO or install Vac-A-Tee to evaluate condition of remaining lateral. | | | |
| 70 | 6-104 | 6-103 | VC | 1035 | Lone Tree Road | 1110-080 | 97 | Yes | | 75 | 1 | | 86 | | | | | 4 | VC lateral; Line to 86' upstream from main to cover last roots; Lining best option due to landscaping. | | | |
| 73 | 6-104 | 6-103 | VC | 1015 | Lone Tree Road | 1110-078 | 100 | Yes | | 60 | 1 | | 100 | | | | | 4 | VC lateral; Multiple defects noted; Prior repair 12.5' to 42' from main (PVC); Lining best option due to landscaping; CO at 32.9' & 40.9' from main may need to be restored. | | | |
| 74 | 6-104 | 6-103 | VC | 1005 | Lone Tree Road | 1110-077 | 100 | Yes | | | 1 | | | 86 | | | | 4 | VC lateral; Multiple defects noted; Line from house toward P/L to cover last defect; Lining best option due to driveway. | | | |
| 75 | 6-104 | 6-103 | VC | 1030 | Lone Tree Road | 1110-060 | 100 | No | | 52 | 1 | | 100 | | | | | 4 | VC lateral; Multiple defects from roots; Wye connection cracked; Lining best option due to driveway. | | | |
| 77 | 6-106 | 6-105 | located in MH 6-105 | 955 | Lone Tree Road | 1110-056 | 73 | Yes | 100 | 20 | 1 | 75 | | | | | | 4 | VC lateral; Multiple defects noted; Camera would not advance beyond 73' from MH due to deposit; Recommend televising from house CO or install Vac-A-Tee to evaluate condition of remaining lateral; May require 2nd set up w/tank shot due to length (175' overall); Lining best option - lateral runs across lot for 975 Lone Tree Road. | | | |
| 79 | 6-106 | 6-105 | lined | 14905 | Lata Vista Drive | 1110-011 | 19 | No | 50 | | 1 | | 70 | | | | | 4 | VC lateral; Unable to advance camera beyond 19' from main due to root ball; Recommend televising from house CO or install Vac-A-Tee to evaluate condition of remaining main approximately 70' to line entire lateral. | | | |
| 82 | 6-107 | 6-106 | located in MH 6-107 | 1050 | Woodland Ave. | 1110-037 | 91 | Yes | | 84 | 1 | 84 | | | | | | 4 | VC lateral; Multiple defects noted; Lining best option due to landscaping. | | | |
| | | | | | | | 2,443.7 | | 690 | 1,053 | 28 | 601 | 1,676 | 120 | 1 | 84 | Totals for Terrace Drive Area | | | | | |
| | | | | | | | | | 8 | 20 | | | 6 | 19 | 2 | | 2 | | | | | |
| | | | | | | | 3,615.1 | | 890 | 1,312 | 41 | 601 | 2,413 | 283 | 3 | 84 | Totals for Wrayburn Road and Terrace Drive Areas | | | | | |