

# **City-Wide Sanitary Sewer Study**

**September 2026**

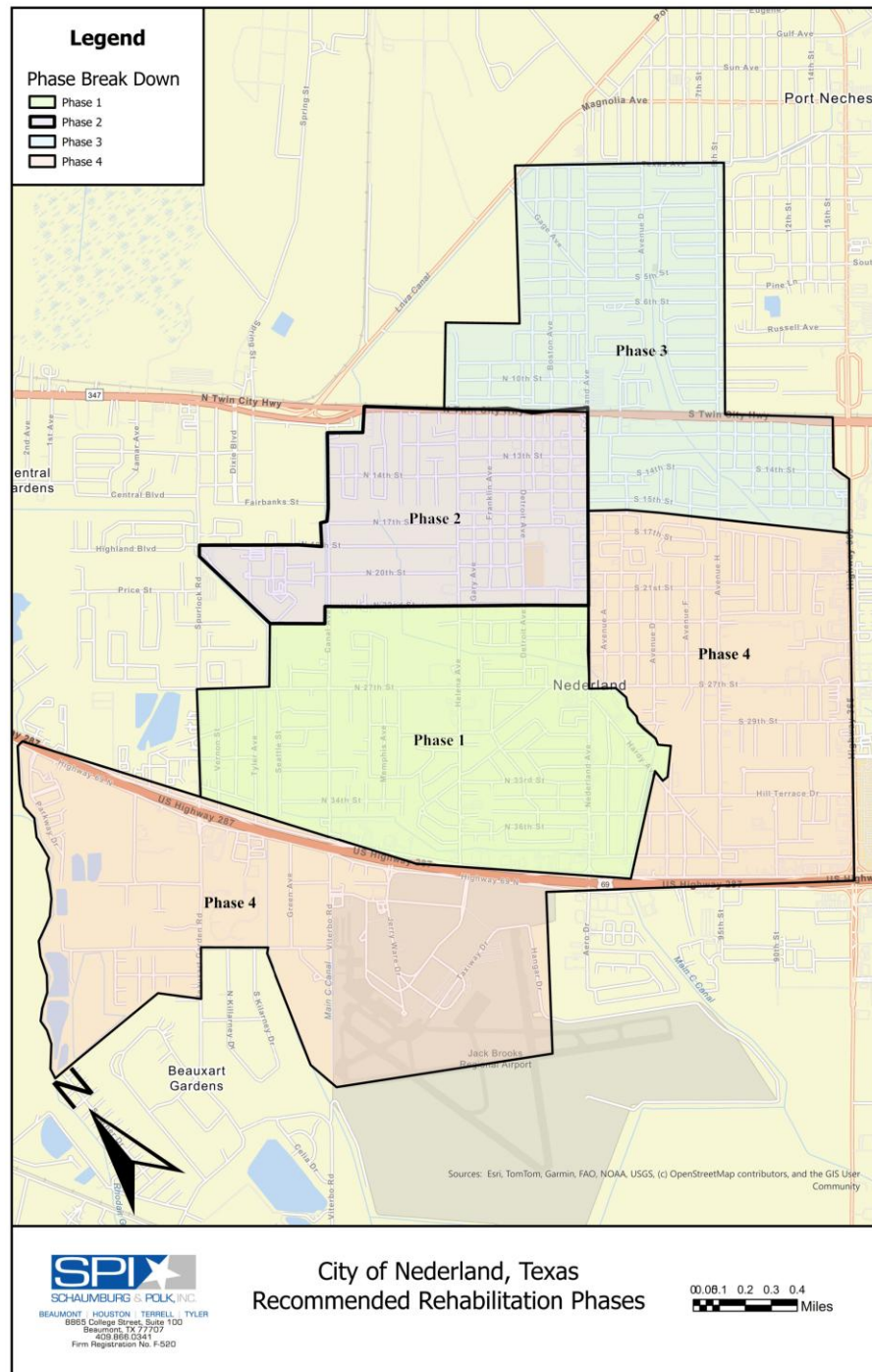


# City of Nederland

- **Smoke Testing**
- **Flow Monitoring**
- **Hydraulic Analysis**



# City of Nederland



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|                                     |    |               |
|-------------------------------------|----|---------------|
| Phase 1 (Western Section, WWTP, LS) | \$ | 14,100,000.00 |
| Phase 2                             | \$ | 13,200,000.00 |
| Phase 3                             | \$ | 16,500,000.00 |
| Phase 4                             | \$ | 13,200,000.00 |
| Sub-Total                           | \$ | 57,000,000.00 |
| Private Service Line Estimate       | \$ | 3,500,000.00  |

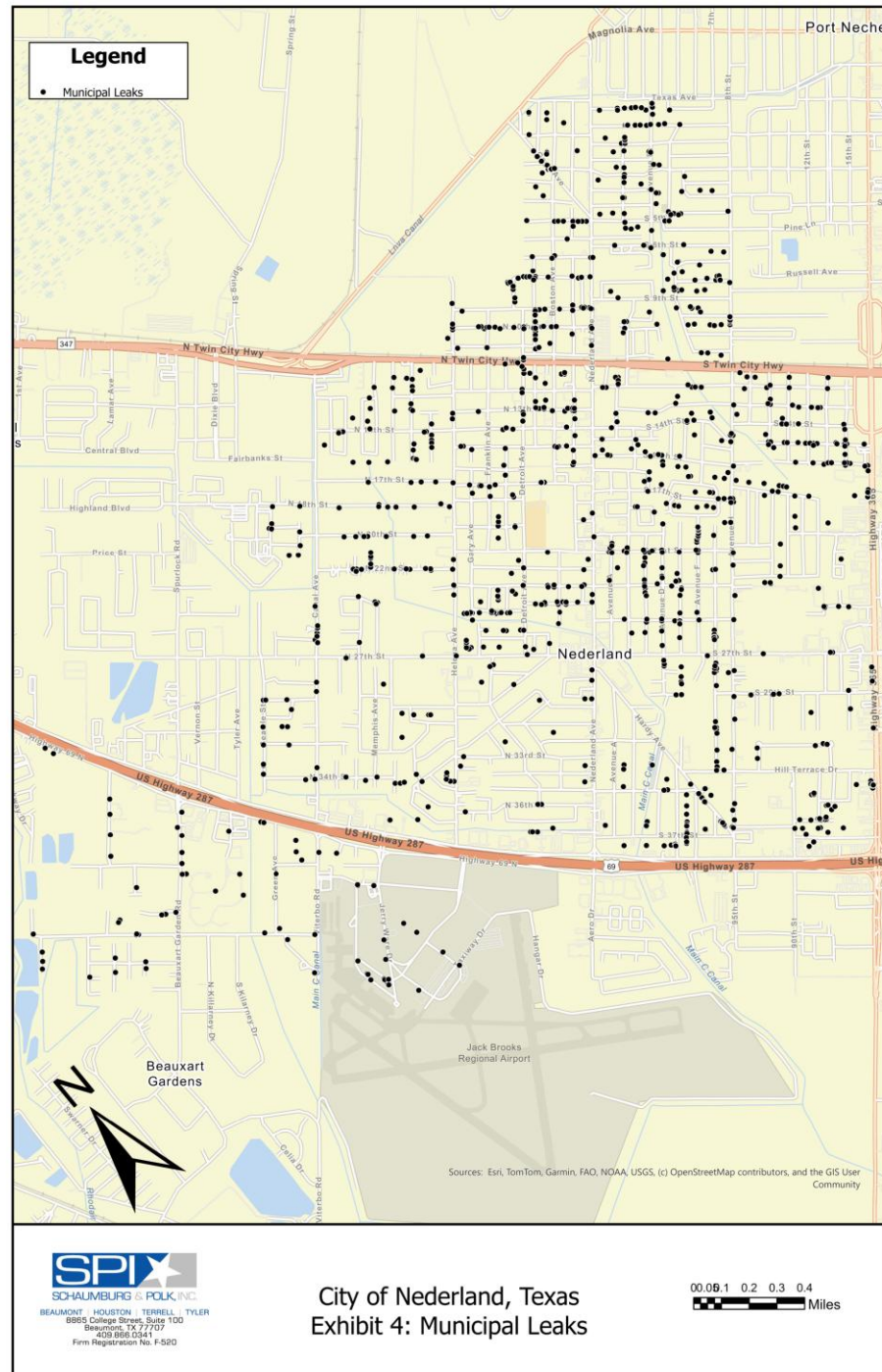


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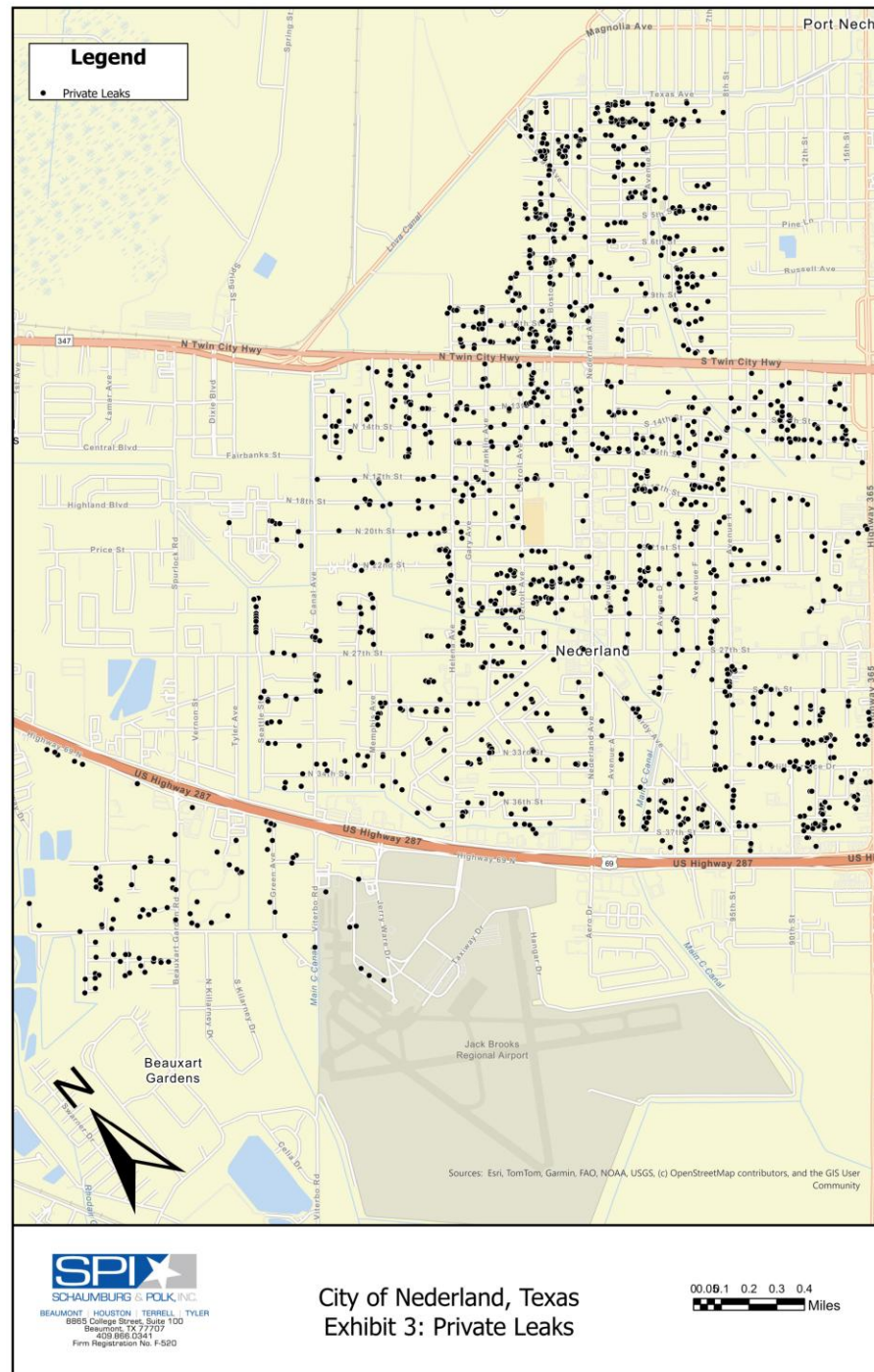
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- **Flow Monitoring**
- **Hydraulic Analysis**



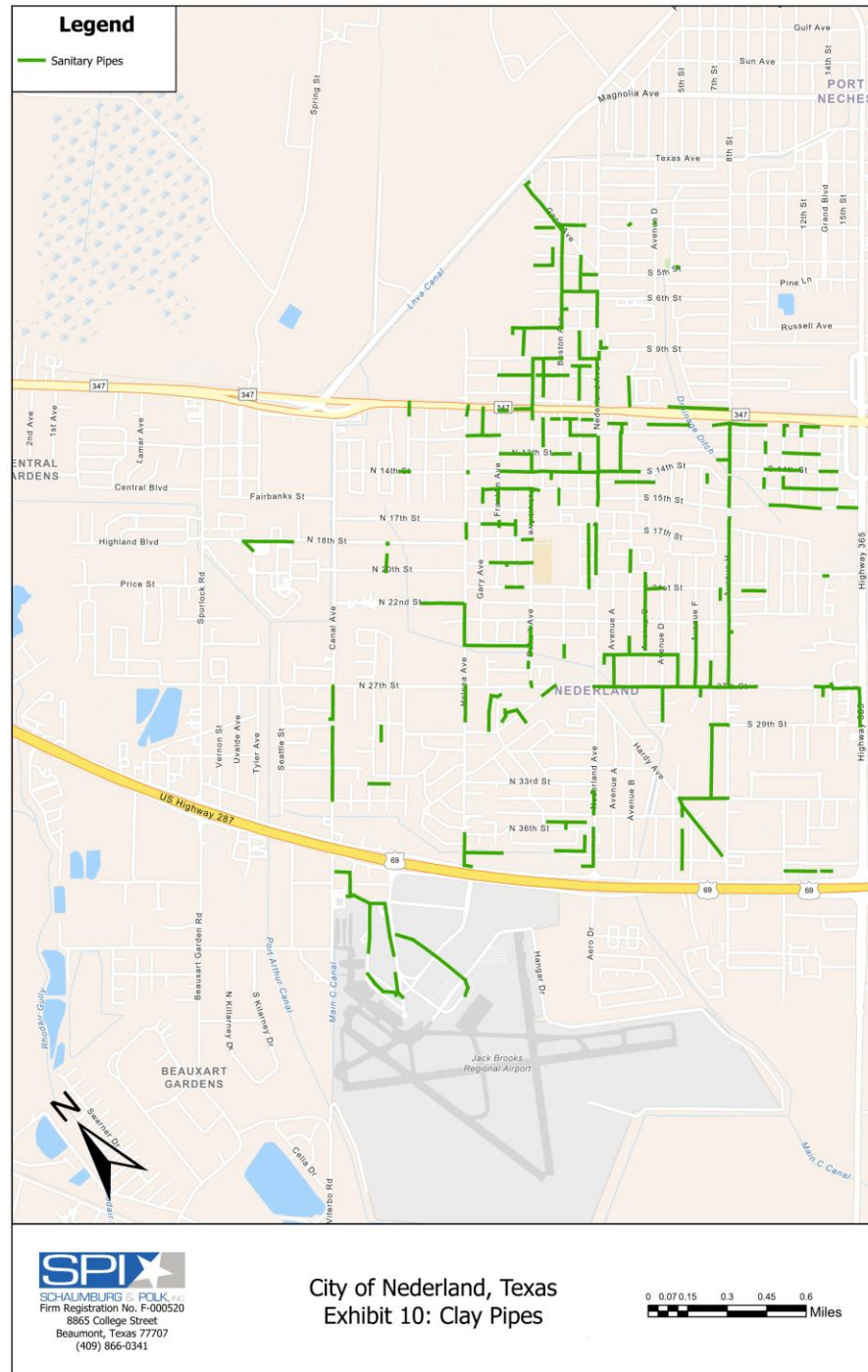
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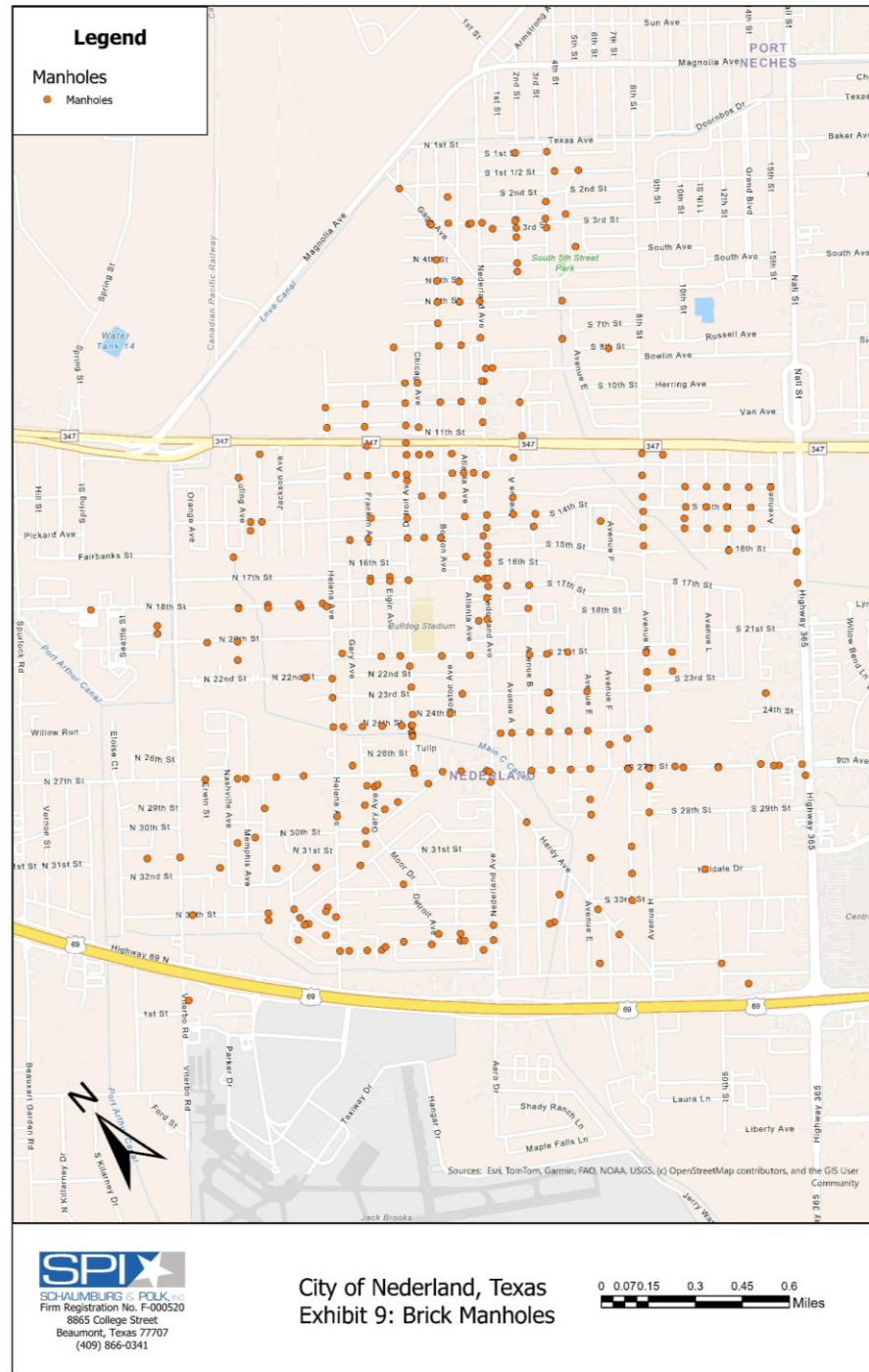
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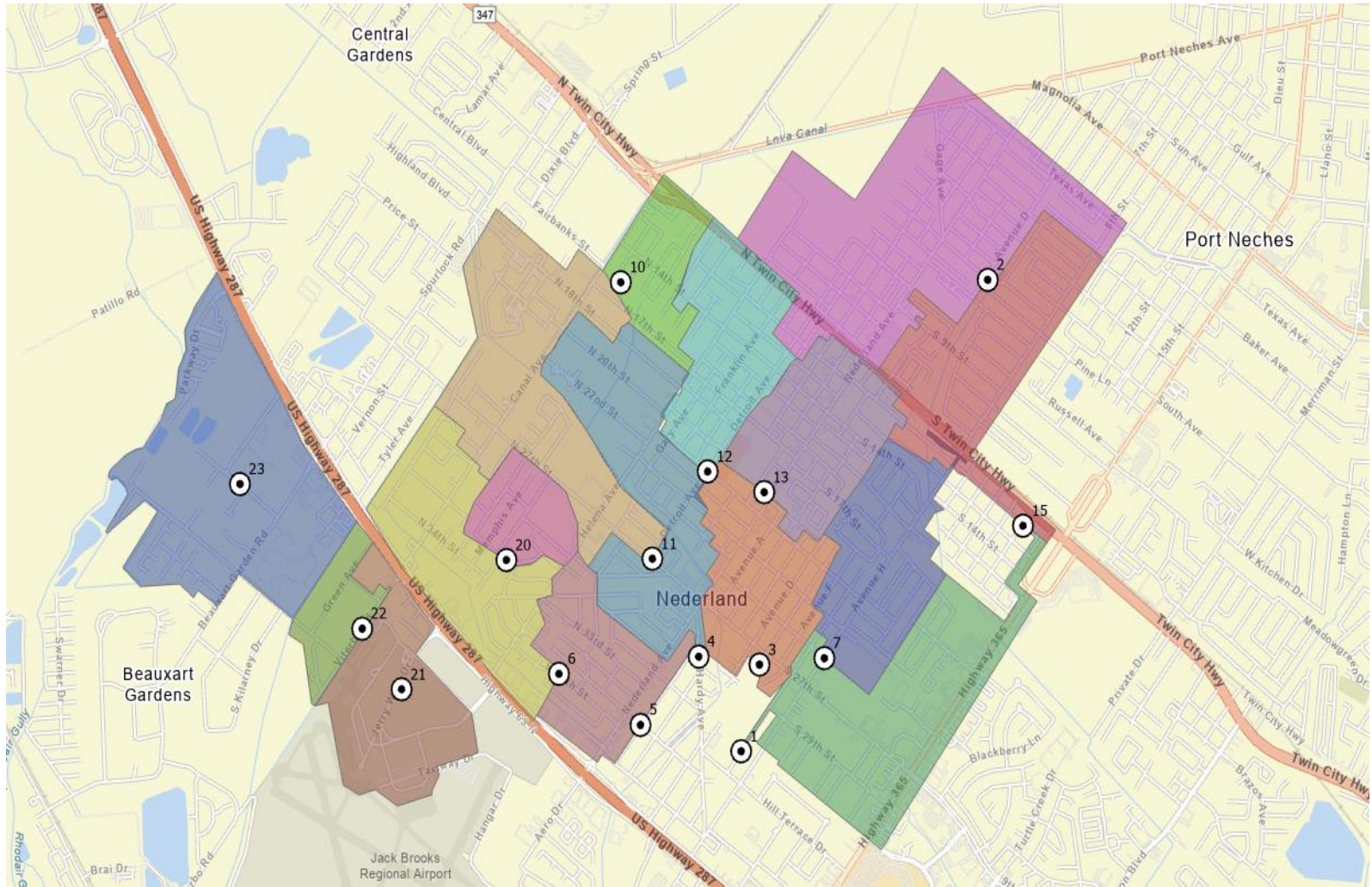
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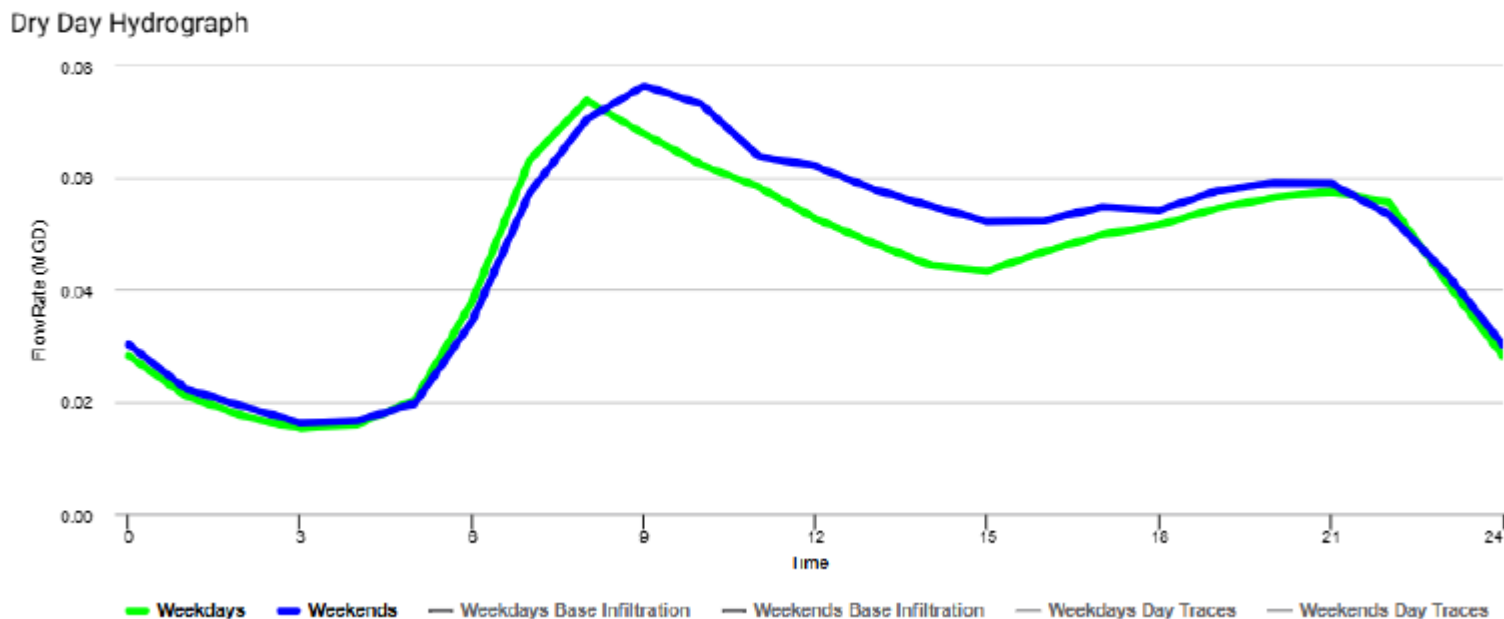


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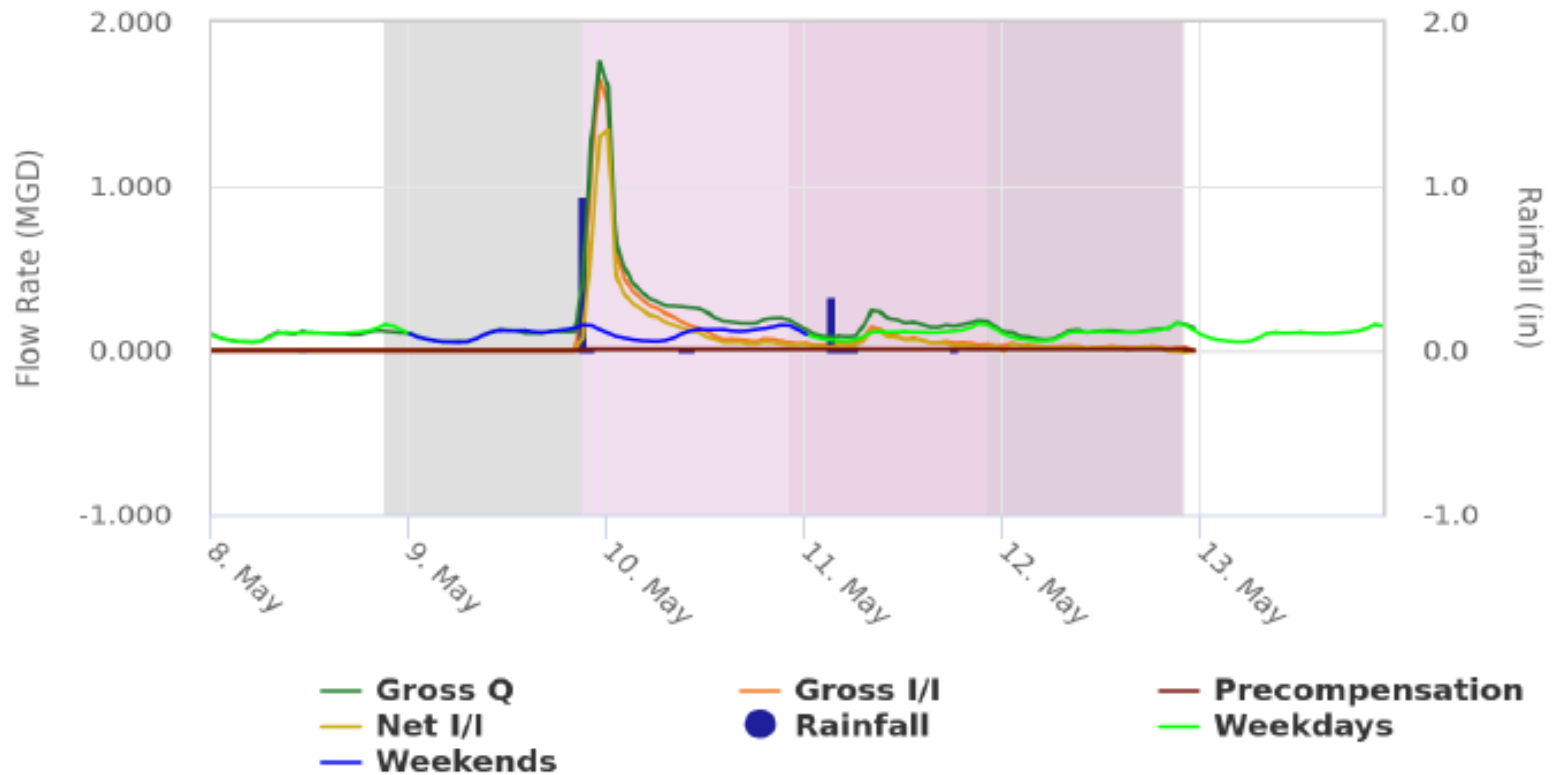
## Flow Monitor Locations

**FIGURE 2: Example of a Dry Weather Hydrograph - Residential Land Use**



## Storm Decomposition Hydrograph - 05/09/2026

NT-06

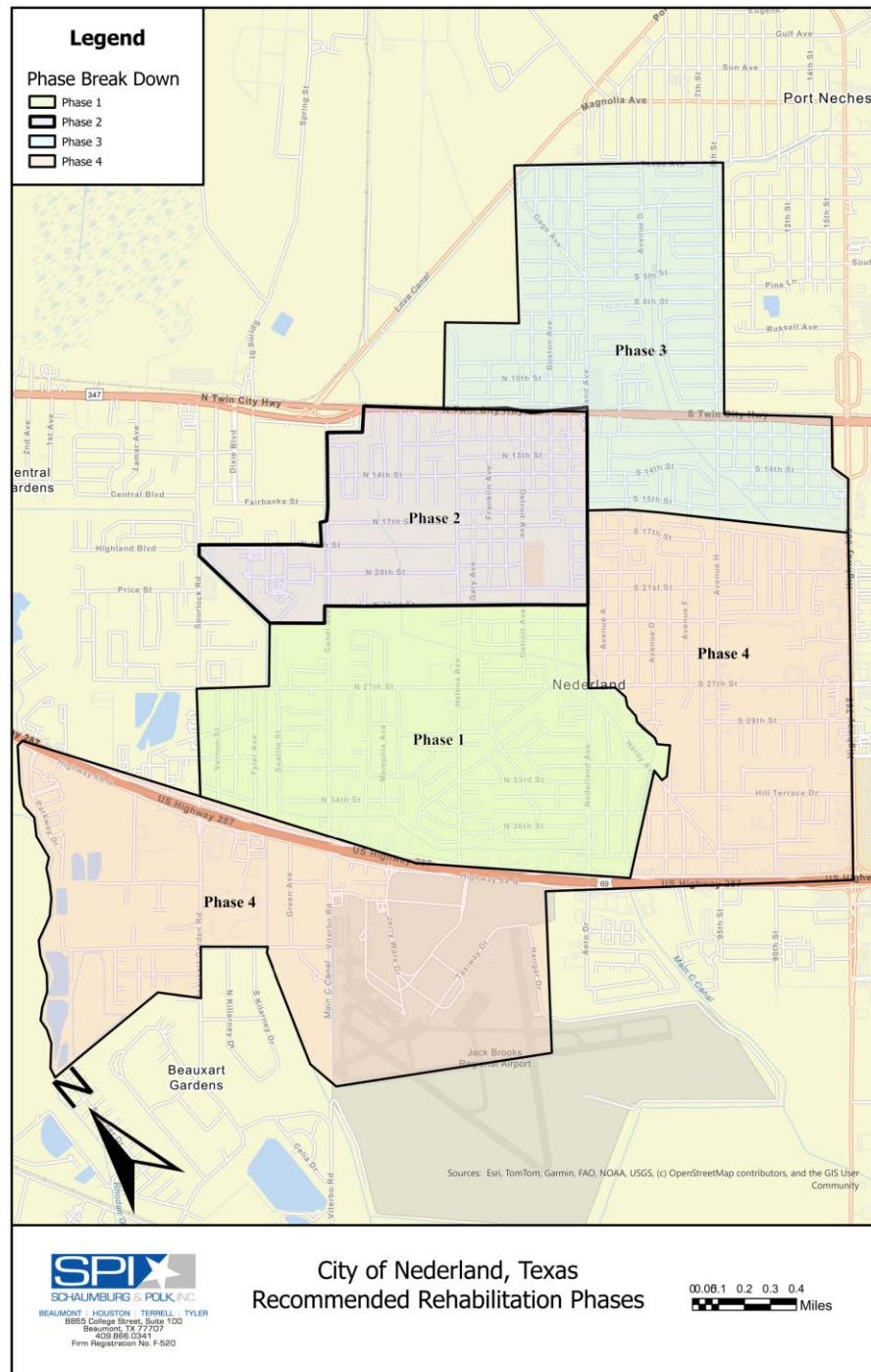


| Monitor   | Q <sub>min-D</sub><br>(MGD) | Q <sub>avg-D</sub><br>(MGD) | Q <sub>max-D</sub><br>(MGD) | Q <sub>max-W</sub><br>(MGD) | Peaking Factor<br>(PF <sub>D</sub> ) | Peaking Factor<br>(PF <sub>W</sub> ) |
|-----------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------------------|--------------------------------------|
| HODLS-01  | 0.168                       | 0.366                       | 0.507                       | 2.246                       | 1.67                                 | 7.31                                 |
| JWLS-01   | 0.096                       | 0.103                       | 0.114                       | 0.689                       | 1.22                                 | 7.45                                 |
| NT-01     | 0.470                       | 0.691                       | 0.879                       | 6.172                       | 1.27                                 | 8.94                                 |
| NT-02     | 0.239                       | 0.301                       | 0.378                       | 2.273                       | 1.31                                 | 7.90                                 |
| NT-03     | 0.233                       | 0.388                       | 0.588                       | 3.208                       | 1.51                                 | 8.51                                 |
| NT-04     | 0.309                       | 0.505                       | 0.698                       | 5.273                       | 1.40                                 | 10.45                                |
| NT-05     | 0.126                       | 0.246                       | 0.351                       | 3.258                       | 1.44                                 | 13.33                                |
| NT-06     | 0.050                       | 0.101                       | 0.159                       | 2.084                       | 1.60                                 | 21.00                                |
| NT-07     | 0.160                       | 0.256                       | 0.335                       | 1.508                       | 1.35                                 | 6.45                                 |
| NT-10     | 0.055                       | 0.119                       | 0.251                       | 0.933                       | 2.10                                 | 9.12                                 |
| NT-11     | 0.130                       | 0.293                       | 0.519                       | 3.061                       | 1.77                                 | 10.79                                |
| NT-12     | 0.103                       | 0.154                       | 0.190                       | 1.090                       | 1.23                                 | 7.23                                 |
| NT-13     | 0.033                       | 0.075                       | 0.129                       | 0.765                       | 1.72                                 | 10.35                                |
| NT-15     | 0.269                       | 0.406                       | 0.547                       | 2.945                       | 1.39                                 | 7.25                                 |
| NT-20     | 0.015                       | 0.028                       | 0.044                       | 0.653                       | 1.59                                 | 23.89                                |
| VTRBLS-01 | 0.025                       | 0.038                       | 0.056                       | 0.567                       | 1.49                                 | 15.05                                |



## Flow Monitor Results

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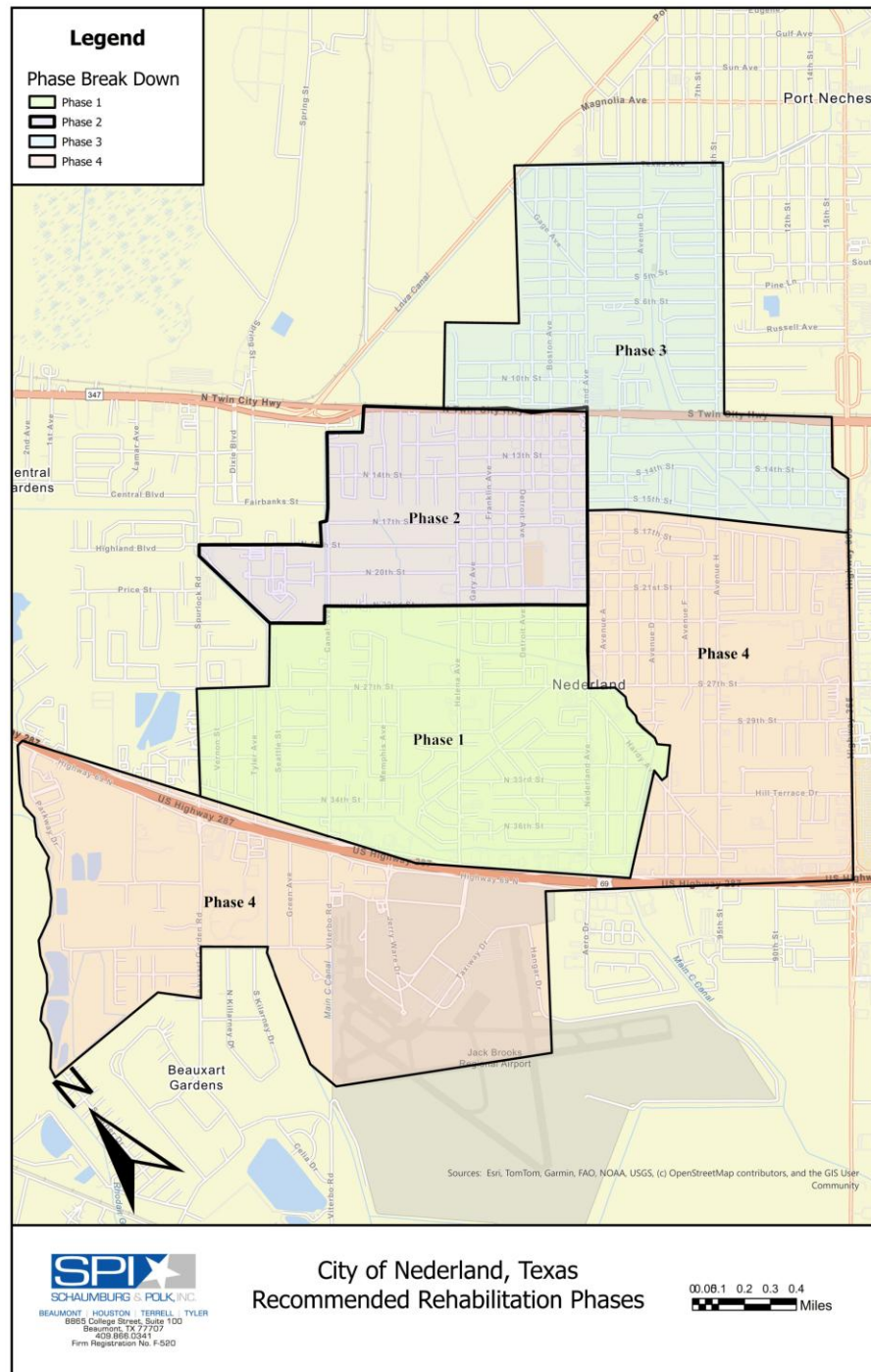
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Proposed Equalization Basin



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## City-Wide Sanitary Sewer Study

