





Purpose of Original Study

To evaluate three community-proposed alternatives for exit routes that Water Country patrons could use to return to the highway

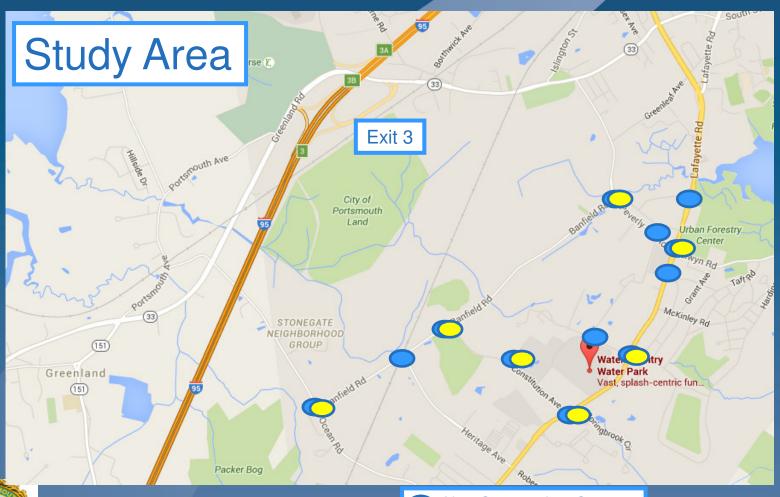
Purpose of Follow-up Study

To compare previous intersection volumes with updated summertime counts conducted by

City of Portsmouth DPW











Peak Hour Departure Data – Summer 2016

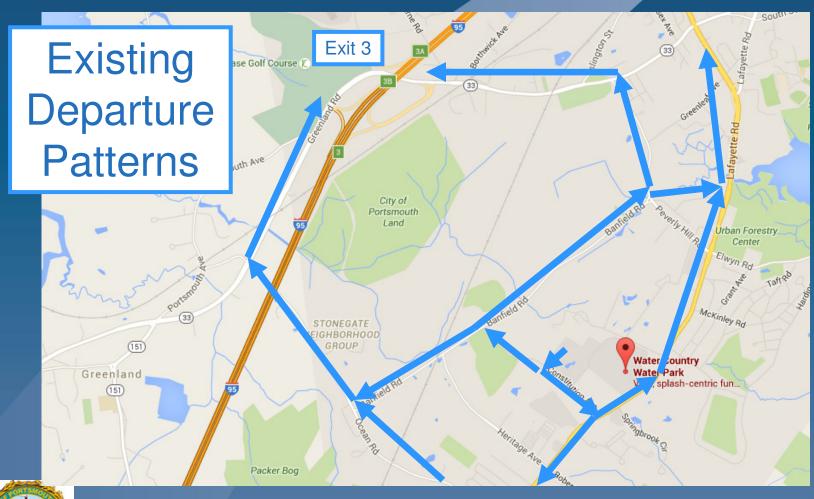
| <u>Date</u> | Time | Left turn out | Right turn out | Total | Temperature / Notes |
|------------------------------|-----------|---------------|----------------|-------|--------------------------------|
| Saturday, July 16, 2016 | 6:30-7:30 | 244 | 530 | 774 | 89° |
| Sunday, July 17, 2016 | 6:15-7:15 | 181 | 282 | 463 | 80° |
| Saturday, July 23, 2016 | 5:30-6:30 | 237 | 540 | 777 | 90° Heavy Thunderstorm at 6:15 |
| Sunday, July 24, 2016 | 6:15-7:15 | 339 | 411 | 750 | 86° |
| Saturday, July 30, 2016 | 6:15-7:15 | 187 | 443 | 630 | 81° |
| Friday, August 05, 2016 | 5:45-6:45 | 211 | 245 | 456 | 85° |
| Saturday, August 06, 2016 | 6:15-7:15 | 125 | 267 | 392 | 88° |
| Sunday, August 07, 2016 | 6:30-7:30 | 351 | 324 | 675 | 85° light shower at 2. |
| Thursday, August 11, 2016 | 5:45-6:45 | 273 | 322 | 595 | 95° |
| Friday, August 12, 2016 | 5:30-6:30 | 175 | 197 | 372 | 96° |
| Saturday, August 13, 2016 | 5:00-6:00 | 71 | 186 | 257 | 73° |
| Sunday, August 14, 2016 | 6:15-7:15 | 167 | 357 | 524 | 93° |
| Thursday, August 18, 2016 | 4:45-5:45 | 221 | 265 | 486 | 89° |
| Friday, August 19, 2016 | 4:45-5:45 | 259 | 289 | 548 | 83° |
| Saturday, August 20, 2016 | 5:00-6:00 | 257 | 496 | 753 | 80° |
| Sunday, August 21, 2016 | 5:00-6:00 | 242 | 451 | 693 | 77° |
| Thursday, August 25, 2016 | 4:45-5:45 | 221 | 195 | 416 | 87° |
| Friday, August 26, 2016 | 4:45-5:45 | 208 | 229 | 437 | 87° |
| Saturday, August 27, 2016 | 5:00-6:00 | 244 | 402 | 646 | 85° |
| Sunday, August 28, 2016 | 4:45-5:45 | 274 | 281 | 555 | 80° |
| Friday, September 02, 2016 | 4:45-5:45 | 94 | 88 | 182 | 78° |
| Saturday, September 03, 2016 | 4:45-5:45 | 107 | 128 | 235 | 73° |
| Sunday, September 04, 2016 | 4:45-5:45 | 86 | 97 | 183 | 74° |

Two-stage Study Process

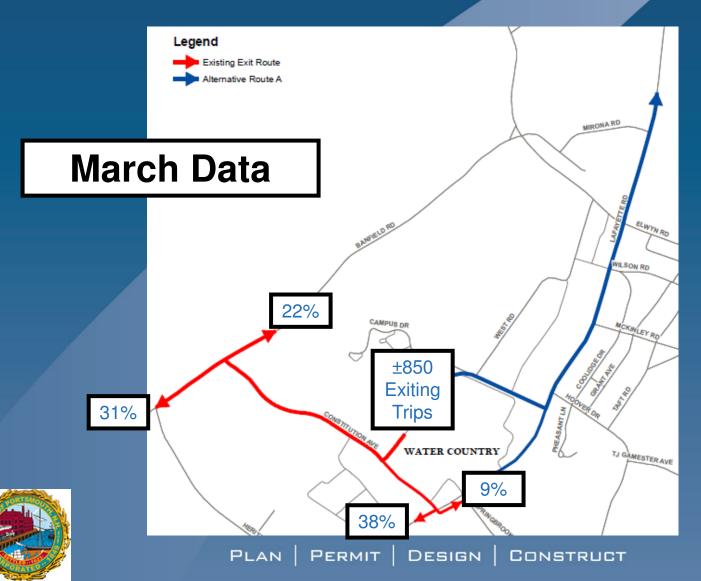
- Review existing data sources
- Review seasonal adjustments to data
- Analyze redistribution characteristics
- Analyze capacity of nearby intersections
- Offer recommendations for egress



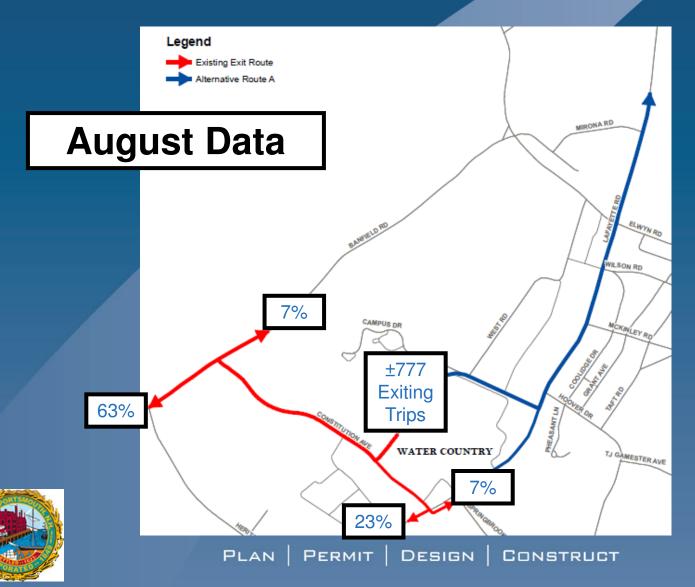












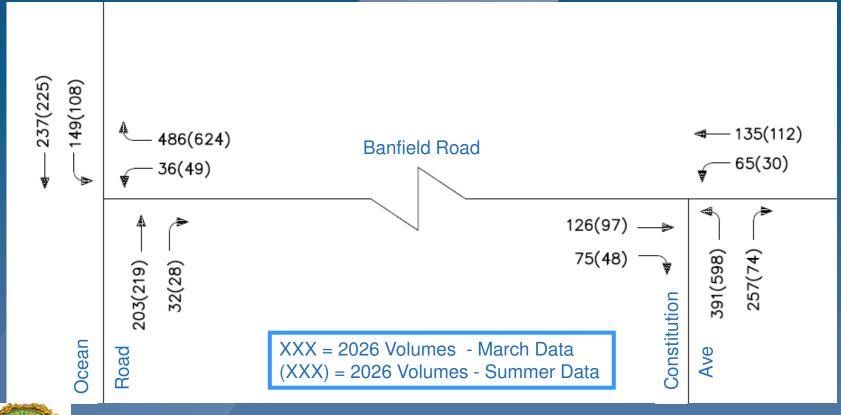


Existing Conditions with Updated Data

- Summertime traffic distributes to Constitution Ave more heavily towards Banfield Road.
- Average patrons egress split 66% towards Banfield Road and 34 % exit to Route 1 (Saturday)
 - Assumed 70/30 split for analysis purposes
- Average patrons egress split 59% towards Banfield Road and 41 % exit to Route 1 (Weekdays)
- Overall 2016 Summer volumes are lower than seasonally adjusted March volumes



Peak Hour Traffic Comparison







Banfield Road Peak Hour Traffic March to Summertime Comparison

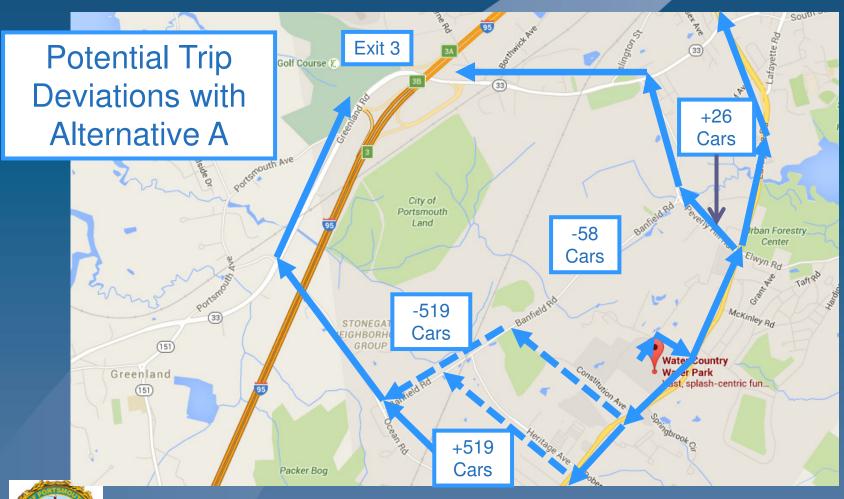
Banfield Road Comparison - Total Roadway Volume

| Direction / Total | 2026 March Weekday Evening | 2026 Summertime Saturday PM | | | | |
|-------------------------------------|----------------------------|-----------------------------|--|--|--|--|
| Eastbound | 208 | 136 | | | | |
| Westbound | 431 | 673 | | | | |
| Total Bi-directional Roadway Volume | 639 | 809 | | | | |

Summertime Saturday evening peak hour is fewer than 3 cars/minute over a normal early March weekday evening









Level of Service

| | 2026 Existing Egress Conditions from March Study | | | 2026 Existing Egress Conditions w/ New Summer Data | | | 2026 – Egress Alternative A from March Study | | | 2026 — Egress Alternative A w/ New Summer Data | | |
|---|--|-------------|-------------------|--|-------------|-------------------|--|-------------|------------------|--|-------------|-----------------|
| Intersection / Lane Group | Delay | LOS | Queue | Delay | LOS | Queue | Delay | LOS | Queue | Delay | LOS | Queue |
| Saturday Evening Peak Period Banfield Road WB Left Banfield Road WB Right Ocean Road SB Left | 18.8 21.6 3.9 | C C A | <25 173 <25 | 16.9 46.2 3.2 | C E A | <25 378 <25 | 29.4 17.9 4.6 | D C A | <25 65 <25 | 40.7 19.1 4.4 | E C A | 40 36 <25 |





Conclusions & Recommendations

- August 2016 volumes lower than projected March volumes with seasonal adjustment
- Redistribution of egress trips anticipated to have marginal improvements at Banfield Road / Ocean Road with significant impact at Route 1 / West Road
- Exiting patrons may continue to use Constitution Ave and Heritage Ave to access Banfield Road
- Existing exit pattern provides the most options to distribute traffic to area roadways





Conclusions & Recommendations (Continued)



- Route 1 / West Road access will require a significant investment
- Egress changes will likely impact Peverly Hill Rd and other roadways - police details needed to effectively control alternative traffic patterns along West Road
- TEC recommends maintaining existing egress patterns and advance complete street improvements along Banfield Road



