



**US Army Corps  
of Engineers**®  
New England District  
696 Virginia Road  
Concord, MA 01742-2751

# PUBLIC NOTICE

**Comment Period Begins: July 3, 2018**  
**Comment Period Ends: August 3, 2018**  
**File Number: NAE-2007-698**  
**In Reply Refer To: Richard Roach**  
**Phone: (978) 318-8005**  
**E-mail: Richard.A.Roach@usace.army.mil**

## MA DOT applies to fill approximately ½ acre of wetlands for South Coast Rail Phase 1 Project

### Request for comments

The District Engineer has received a permit application to conduct work in waters of the United States from **Massachusetts Department of Transportation**, 10 Park Plaza, Boston, Massachusetts. The work is proposed in various waters and wetlands along three existing freight lines: the Middleborough Secondary Line, the New Bedford Main Line and the Fall River Secondary Line. These lines extend from Middleborough, west to East Taunton, south to New Bedford and southwest to Fall River. The work would take place along the railroad right-of-way in the towns of Lakeville, Taunton, Berkley, Freetown, Fall River and New Bedford, Massachusetts. The Phase 1 project limits are shown in Figure 1.

The discharges or filling, of waters and wetlands, which are the subject of this application, would involve placing fill in numerous locations along the above mentioned rail lines. The total permanent area of fill in waters and wetlands for the proposed project would be approximately 21,375 square feet or 0.49 acre. Approximately 1,157 square feet of temporary fill would be placed and later removed. **The purpose of the work is to repair, reconstruct and upgrade the approximately 40 miles of existing freight line to extend commuter rail service to New Bedford and Fall River.**

The proposed filling in waters and wetlands (types and amounts) are shown on the attached plans entitled **“South Coast Rail Phase 1, Individual 404/401 Permit Application, Permanent Wetland and Waterway Impacts Figure 2 - Page Index and Figures 2 to 14.** In addition more detailed plans on 162 sheets entitled “South Coast Rail Phase 1 and dated “April 27, 2018” are available upon request to [SouthCoastRail@dot.state.ma.us](mailto:SouthCoastRail@dot.state.ma.us). Additional information about the South Coast Rail Project is available at <http://www.massdot.state.ma.us/southcoastrail/Home.aspx>.

The applicant has shifted alignments, steepened slopes and used retaining walls to reduce the wetland footprint of the work and has proposed 0.45 acre of wetland creation and an in lieu fee of \$236,720 to the Massachusetts

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**FILE NO. NAE-2007-698**

In Lieu Fee Program as mitigation for the wetland impacts.

**AUTHORITY**

Permits are required pursuant to Section 404 of the Clean Water Act.

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers, New England District (Corps), is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. The Corps will consider all comments received to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972, as amended.

**NATIONAL HISTORIC PRESERVATION ACT**

Based on his initial review, the District Engineer has determined that the proposed work may impact properties listed in, or eligible for listing in, the National Register of Historic Places. Additional review and consultation to fulfill requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

**ENDANGERED SPECIES CONSULTATION**

The Corps has reviewed the application for the potential impact on Federally-listed threatened or endangered species and their designated critical habitat pursuant to section 7 of the Endangered Species Act as amended. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect a listed species or their critical habitat. We are coordinating with the U.S. Fish and Wildlife Service on listed species under their jurisdiction and the ESA consultation will be concluded prior to the final decision.

**OTHER GOVERNMENT AUTHORIZATIONS**

The states of Connecticut, Maine, Massachusetts, New Hampshire and Rhode Island have approved Coastal Zone Management Programs. Where applicable, the applicant states that any proposed activity will comply with and will be conducted in a manner that is consistent with the approved Coastal Zone Management Program. By this Public Notice, we are requesting the State concurrence or objection to the applicant's consistency statement.

The following authorizations have been applied for, or have been, or will be obtained:

- (  ) Permit, license or assent from State.
- (  ) Permit from local wetland agency or conservation commission.
- (  ) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

**COMMENTS**

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so by August 3, 2018, the end of the comment period. Please send comments electronically to: [Richard.A.Roach@usace.army.mil](mailto:Richard.A.Roach@usace.army.mil) or by mail to: Richard Roach, US Army Corps of Engineers, New England District 696 Virginia Rd., MA 01742-2751

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

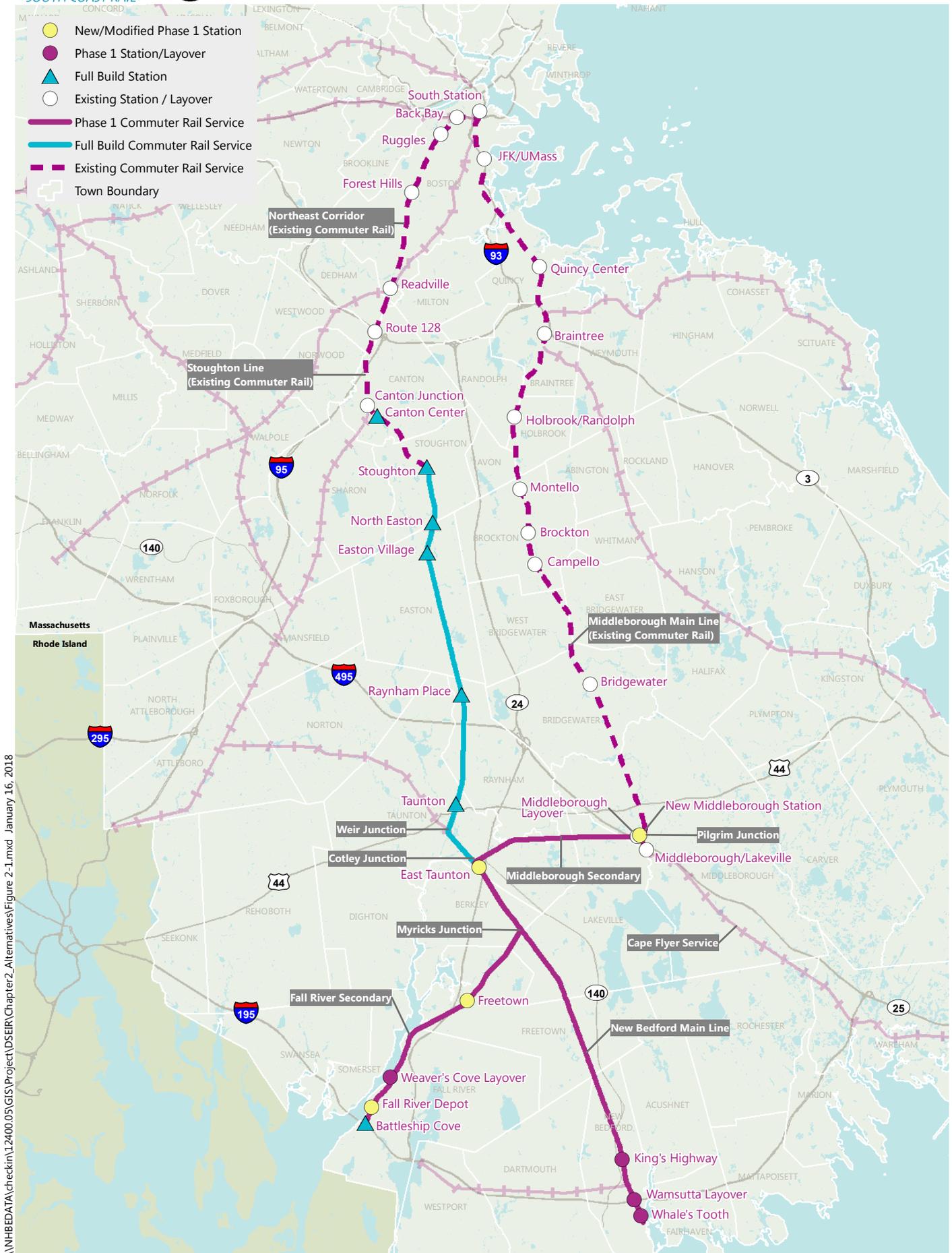
**THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.**

  
**Barbara Newman**  
**Chief, Permits and Enforcement Branch A**  
**Regulatory Division**

If you would prefer not to continue receiving Public Notices by email, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at [bettina.m.chaisson@usace.army.mil](mailto:bettina.m.chaisson@usace.army.mil). You may also check here ( ) and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
PHONE: \_\_\_\_\_

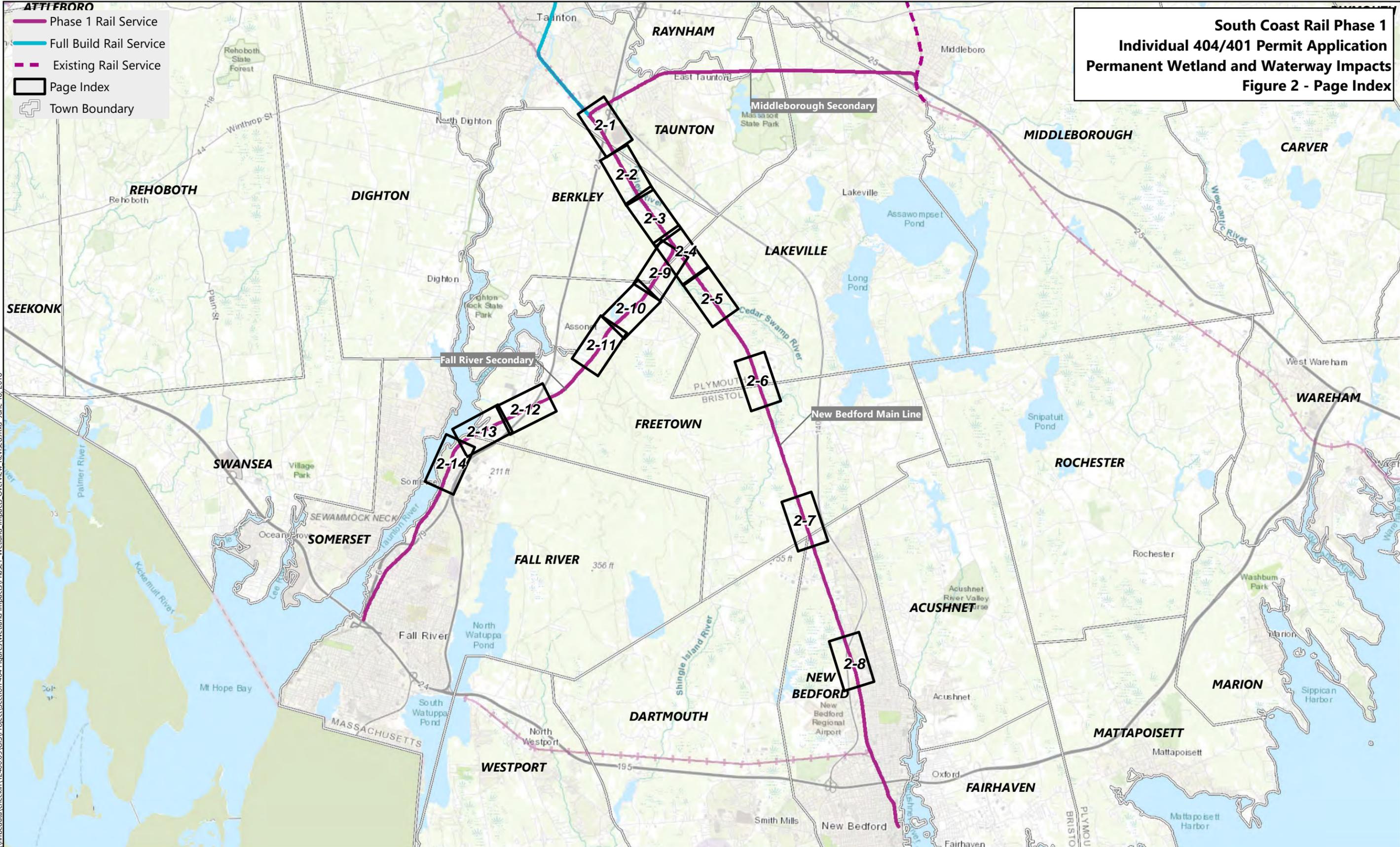
**Figure 1: Phased Service**



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**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
Permanent Wetland and Waterway Impacts  
Figure 2 - Page Index**



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**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
Permanent Wetland and Waterway Impacts  
New Bedford Main Line  
Figure 2-1**

- Phase 1 Commuter Rail Service
- Full Build Commuter Rail Service
- Existing Commuter Rail Service
- Intermittent Stream (USGS)
- Perennial Stream (USGS)
- Limit of Disturbance
- Wetland Impact Area
- Delineated Wetland Edge
- Town Boundary
- MassDEP Wetlands
- Bog
- Coastal Bank Bluff or Sea Cliff
- Coastal Beach
- Cranberry Bog
- Deep Marsh
- Open Water
- Rocky Intertidal Shore
- Salt Marsh
- Shallow Marsh Meadow
- Shrub Swamp
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

|                           |           |
|---------------------------|-----------|
| Wetland Type              | PFO       |
| Wetland ID                | TS-BF-1   |
| Total Acres               | 1.1 Acres |
| Waterway Impacts          | 120 SF    |
| Vegetated Wetland Impacts | 0 SF      |
|                           |           |

|                           |           |
|---------------------------|-----------|
| Wetland Type              | PFO       |
| Wetland ID                | TCM-9A    |
| Total Acres               | 0.3 Acres |
| Waterway Impacts          | 199 SF    |
| Vegetated Wetland Impacts | 0 SF      |
|                           |           |

|                           |             |
|---------------------------|-------------|
| Wetland Type              | PFO         |
| Wetland ID                | TCM-10-West |
| Total Acres               | 4.3 Acres   |
| Waterway Impacts          | 0 SF        |
| Vegetated Wetland Impacts | 1998 SF     |
|                           |             |

|                           |           |
|---------------------------|-----------|
| Wetland Type              | PFO       |
| Wetland ID                | TCM-9B    |
| Total Acres               | 0.8 Acres |
| Waterway Impacts          | 4,900 SF  |
| Vegetated Wetland Impacts | 2,051 SF  |
|                           |           |

| Functions and Values   |                         |                     |
|------------------------|-------------------------|---------------------|
| GW Recharge/Discharge  | Nutrient Removal        | Recreation          |
| Floodflow Alteration   | Production Export       | Uniqueness/Heritage |
| Fish/Shellfish Habitat | Shoreline Stabilization | Visual Quality      |
| Sediment Retention     | Wildlife Habitat        | T/E Species Habitat |

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**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
Permanent Wetland and Waterway Impacts  
New Bedford Main Line  
Figure 2-2**

- |                                  |                                 |                          |
|----------------------------------|---------------------------------|--------------------------|
| Phase 1 Commuter Rail Service    | MassDEP Wetlands                | Rocky Intertidal Shore   |
| Full Build Commuter Rail Service | Bog                             | Salt Marsh               |
| Existing Commuter Rail Service   | Coastal Bank Bluff or Sea Cliff | Shallow Marsh Meadow     |
| Intermittent Stream (USGS)       | Coastal Beach                   | Shrub Swamp              |
| Perennial Stream (USGS)          | Cranberry Bog                   | Wooded Swamp Coniferous  |
| Limit of Disturbance             | Deep Marsh                      | Wooded Swamp Deciduous   |
| Wetland Impact Area              | Open Water                      | Wooded Swamp Mixed Trees |
| Delineated Wetland Edge          |                                 |                          |
| Town Boundary                    |                                 |                          |

|                           |            |
|---------------------------|------------|
| Wetland Type              | PFO/PSS/OW |
| Wetland ID                | BKCM-10    |
| Total Acres               | 35 Acres   |
| Waterway Impacts          | 0 SF       |
| Vegetated Wetland Impacts | 14 SF      |
|                           |            |

|                           |                             |
|---------------------------|-----------------------------|
| Wetland Type              | PFO/PSS/OW                  |
| Wetland ID                | BKCM-4 (100 and 200 Series) |
| Total Acres               | > 100 Acres                 |
| Waterway Impacts          | 0 SF                        |
| Vegetated Wetland Impacts | 584 SF                      |
|                           |                             |

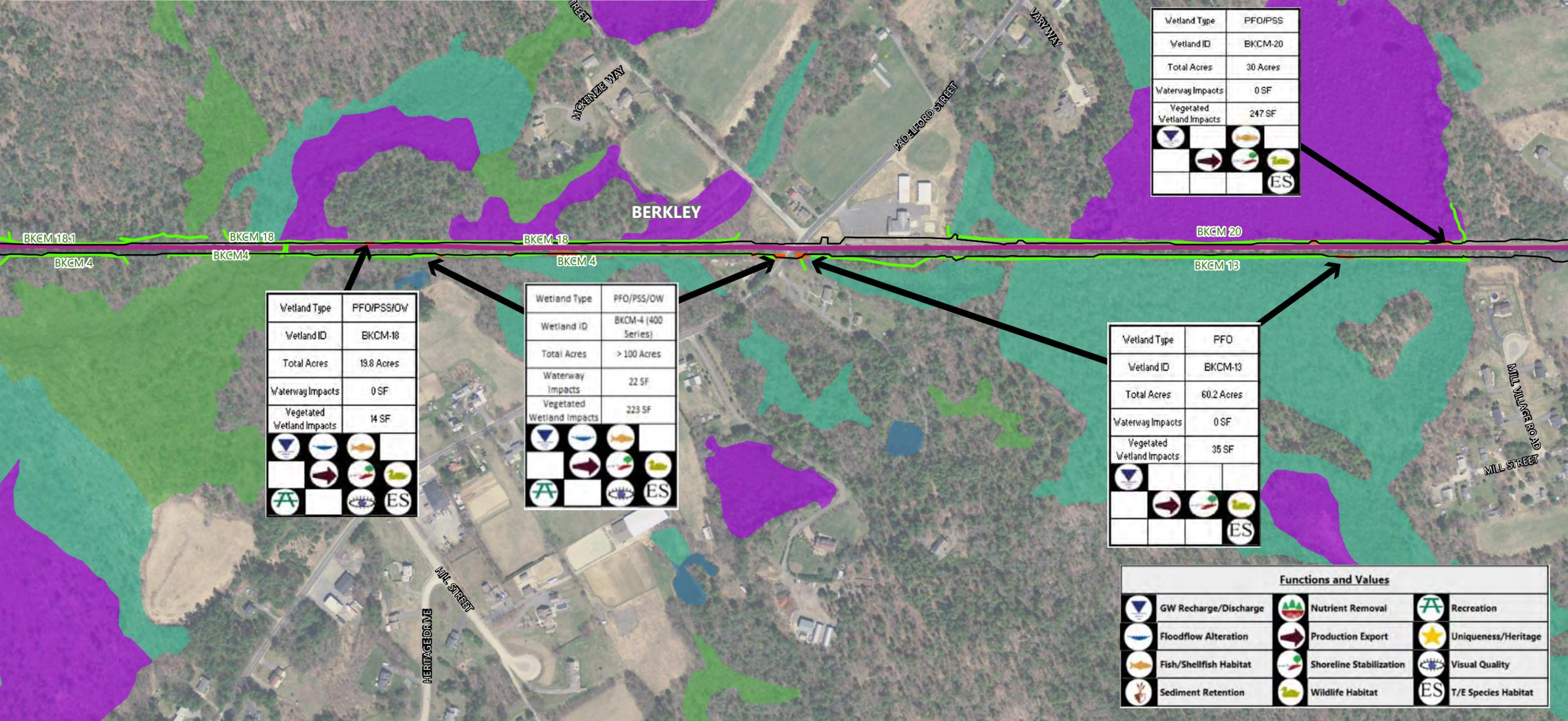
| Functions and Values |  |  |
|----------------------|--|--|
|                      |  |  |
|                      |  |  |
|                      |  |  |
|                      |  |  |

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**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
Permanent Wetland and Waterway Impacts  
New Bedford Main Line  
Figure 2-3**

|                                  |                                 |                          |
|----------------------------------|---------------------------------|--------------------------|
| Phase 1 Commuter Rail Service    | MassDEP Wetlands                | Rocky Intertidal Shore   |
| Full Build Commuter Rail Service | Bog                             | Salt Marsh               |
| Existing Commuter Rail Service   | Coastal Bank Bluff or Sea Cliff | Shallow Marsh Meadow     |
| Intermittent Stream (USGS)       | Coastal Beach                   | Shrub Swamp              |
| Perennial Stream (USGS)          | Cranberry Bog                   | Wooded Swamp Coniferous  |
| Limit of Disturbance             | Deep Marsh                      | Wooded Swamp Deciduous   |
| Wetland Impact Area              | Open Water                      | Wooded Swamp Mixed Trees |
| Delineated Wetland Edge          |                                 |                          |
| Town Boundary                    |                                 |                          |



|                           |          |
|---------------------------|----------|
| Wetland Type              | PFO/PSS  |
| Wetland ID                | BKCM-20  |
| Total Acres               | 30 Acres |
| Waterway Impacts          | 0 SF     |
| Vegetated Wetland Impacts | 247 SF   |
|                           |          |

|                           |            |
|---------------------------|------------|
| Wetland Type              | PFO/PSS/OW |
| Wetland ID                | BKCM-18    |
| Total Acres               | 19.8 Acres |
| Waterway Impacts          | 0 SF       |
| Vegetated Wetland Impacts | 14 SF      |
|                           |            |

|                           |                     |
|---------------------------|---------------------|
| Wetland Type              | PFO/PSS/OW          |
| Wetland ID                | BKCM-4 (400 Series) |
| Total Acres               | > 100 Acres         |
| Waterway Impacts          | 22 SF               |
| Vegetated Wetland Impacts | 223 SF              |
|                           |                     |

|                           |            |
|---------------------------|------------|
| Wetland Type              | PFO        |
| Wetland ID                | BKCM-13    |
| Total Acres               | 60.2 Acres |
| Waterway Impacts          | 0 SF       |
| Vegetated Wetland Impacts | 35 SF      |
|                           |            |

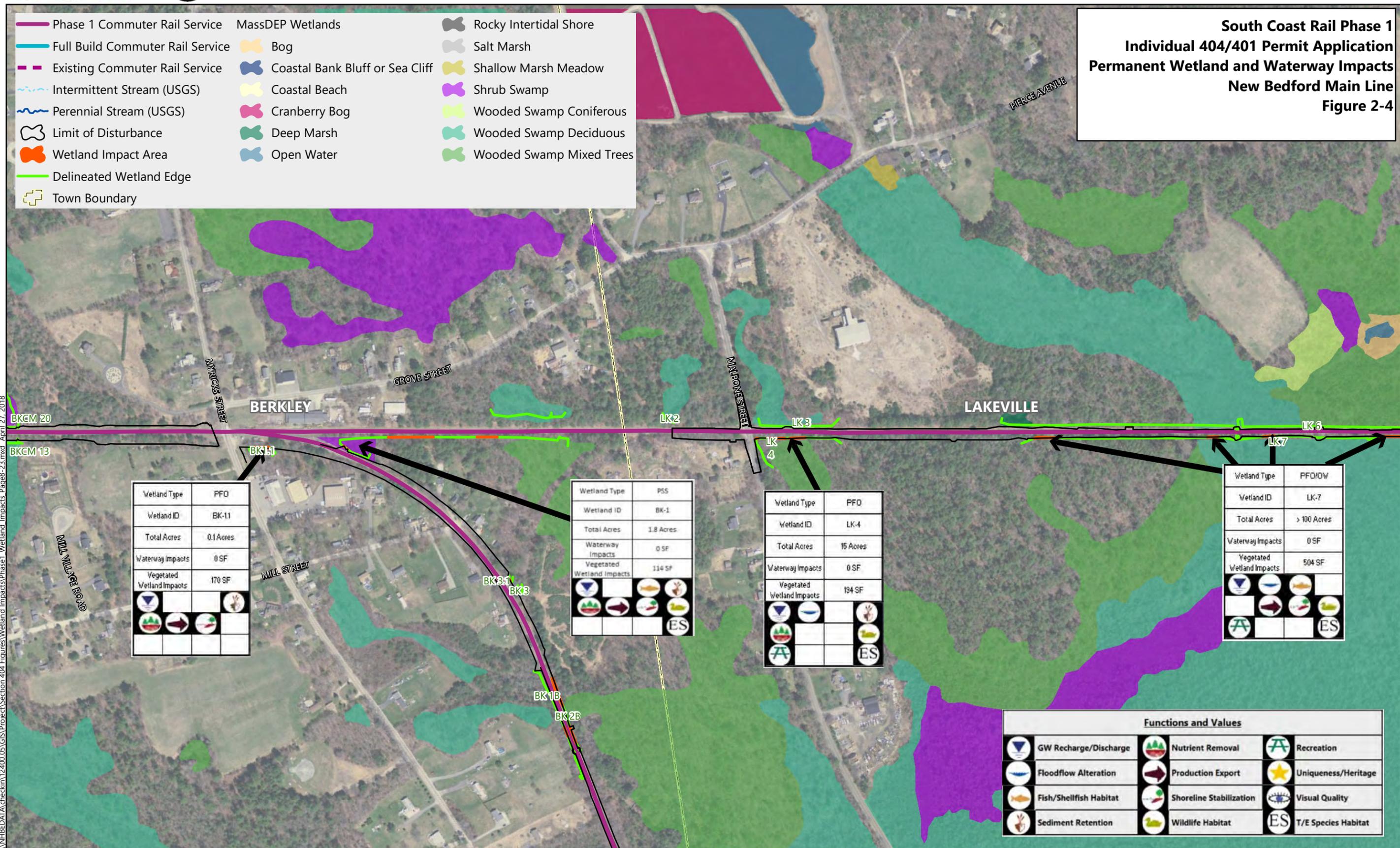
| Functions and Values   |                         |                     |
|------------------------|-------------------------|---------------------|
| GW Recharge/Discharge  | Nutrient Removal        | Recreation          |
| Floodflow Alteration   | Production Export       | Uniqueness/Heritage |
| Fish/Shellfish Habitat | Shoreline Stabilization | Visual Quality      |
| Sediment Retention     | Wildlife Habitat        | T/E Species Habitat |

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**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
Permanent Wetland and Waterway Impacts  
New Bedford Main Line  
Figure 2-4**

|                                  |                                 |                          |
|----------------------------------|---------------------------------|--------------------------|
| Phase 1 Commuter Rail Service    | MassDEP Wetlands                | Rocky Intertidal Shore   |
| Full Build Commuter Rail Service | Bog                             | Salt Marsh               |
| Existing Commuter Rail Service   | Coastal Bank Bluff or Sea Cliff | Shallow Marsh Meadow     |
| Intermittent Stream (USGS)       | Coastal Beach                   | Shrub Swamp              |
| Perennial Stream (USGS)          | Cranberry Bog                   | Wooded Swamp Coniferous  |
| Limit of Disturbance             | Deep Marsh                      | Wooded Swamp Deciduous   |
| Wetland Impact Area              | Open Water                      | Wooded Swamp Mixed Trees |
| Delineated Wetland Edge          |                                 |                          |
| Town Boundary                    |                                 |                          |

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|                           |           |
|---------------------------|-----------|
| Wetland Type              | PFO       |
| Wetland ID                | BK-11     |
| Total Acres               | 0.1 Acres |
| Waterway Impacts          | 0 SF      |
| Vegetated Wetland Impacts | 170 SF    |
|                           |           |

|                           |           |
|---------------------------|-----------|
| Wetland Type              | PSS       |
| Wetland ID                | BK-1      |
| Total Acres               | 1.8 Acres |
| Waterway Impacts          | 0 SF      |
| Vegetated Wetland Impacts | 114 SF    |
|                           | ES        |

|                           |          |
|---------------------------|----------|
| Wetland Type              | PFO      |
| Wetland ID                | LK-4     |
| Total Acres               | 15 Acres |
| Waterway Impacts          | 0 SF     |
| Vegetated Wetland Impacts | 194 SF   |
|                           | ES       |

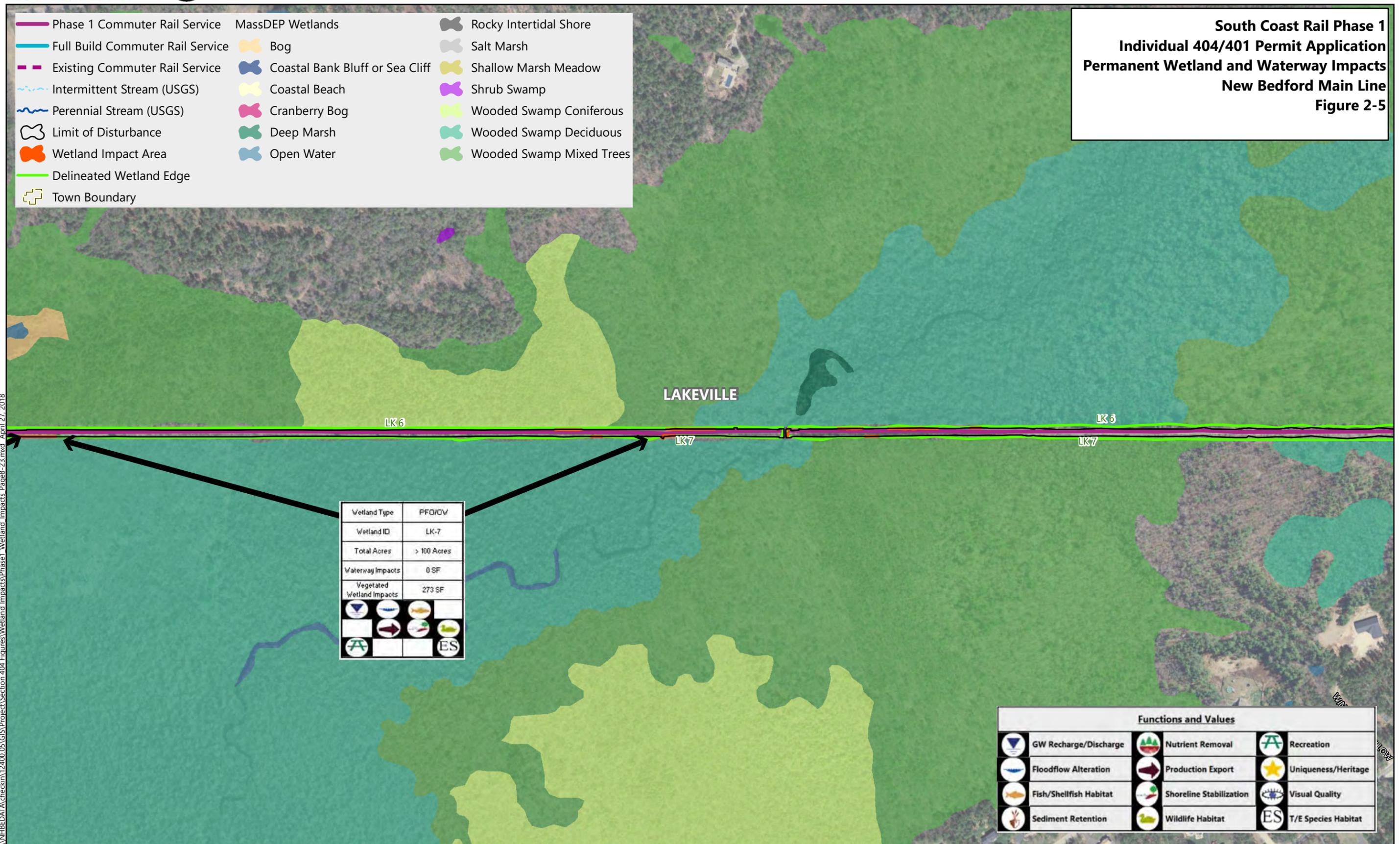
|                           |             |
|---------------------------|-------------|
| Wetland Type              | PFO/OW      |
| Wetland ID                | LK-7        |
| Total Acres               | > 100 Acres |
| Waterway Impacts          | 0 SF        |
| Vegetated Wetland Impacts | 504 SF      |
|                           | ES          |

| Functions and Values |                        |  |                         |  |                     |
|----------------------|------------------------|--|-------------------------|--|---------------------|
|                      | GW Recharge/Discharge  |  | Nutrient Removal        |  | Recreation          |
|                      | Floodflow Alteration   |  | Production Export       |  | Uniqueness/Heritage |
|                      | Fish/Shellfish Habitat |  | Shoreline Stabilization |  | Visual Quality      |
|                      | Sediment Retention     |  | Wildlife Habitat        |  | T/E Species Habitat |



- |                                  |                                 |                          |
|----------------------------------|---------------------------------|--------------------------|
| Phase 1 Commuter Rail Service    | MassDEP Wetlands                | Rocky Intertidal Shore   |
| Full Build Commuter Rail Service | Bog                             | Salt Marsh               |
| Existing Commuter Rail Service   | Coastal Bank Bluff or Sea Cliff | Shallow Marsh Meadow     |
| Intermittent Stream (USGS)       | Coastal Beach                   | Shrub Swamp              |
| Perennial Stream (USGS)          | Cranberry Bog                   | Wooded Swamp Coniferous  |
| Limit of Disturbance             | Deep Marsh                      | Wooded Swamp Deciduous   |
| Wetland Impact Area              | Open Water                      | Wooded Swamp Mixed Trees |
| Delineated Wetland Edge          |                                 |                          |
| Town Boundary                    |                                 |                          |

**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
Permanent Wetland and Waterway Impacts  
New Bedford Main Line  
Figure 2-5**



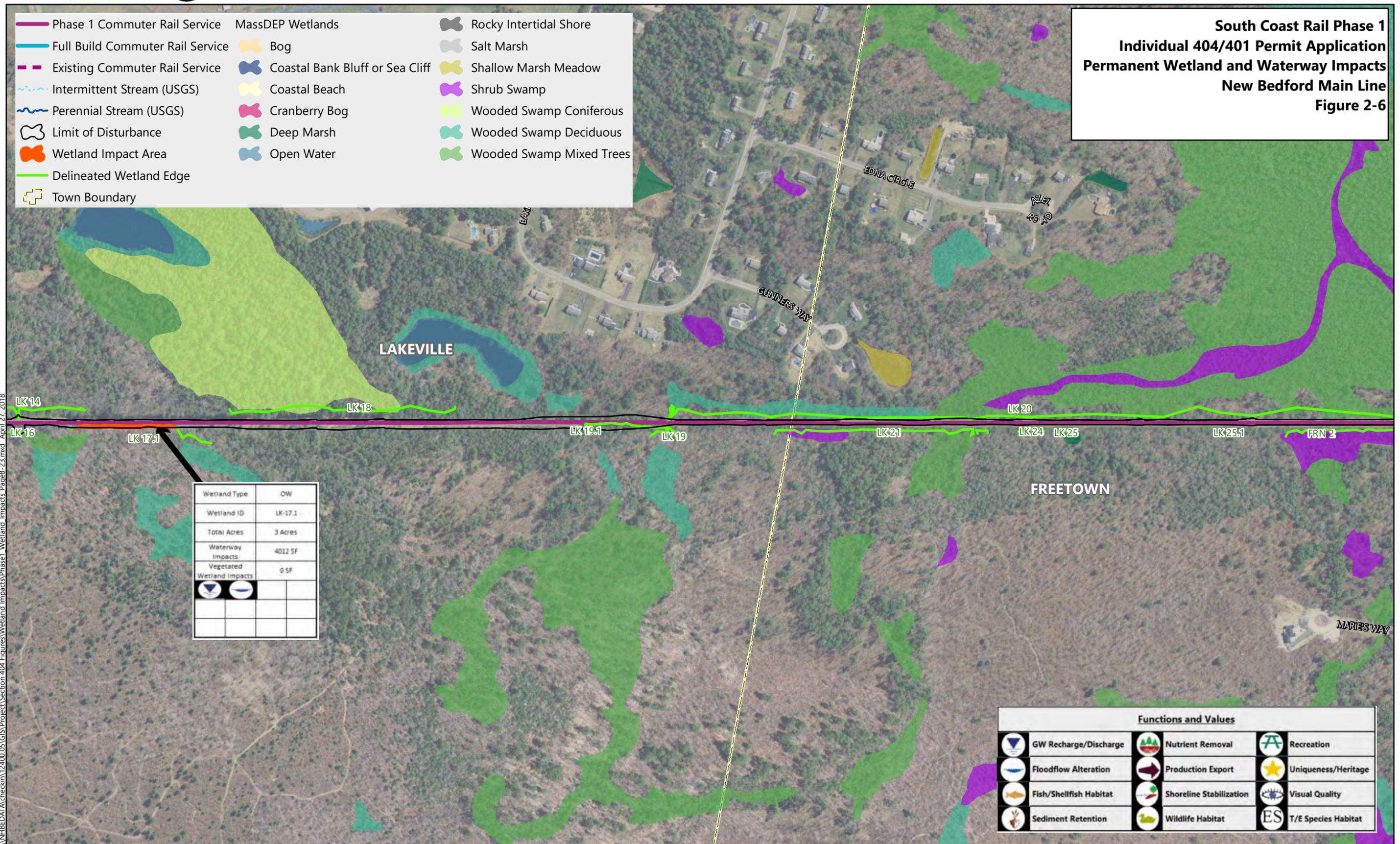
|                           |             |
|---------------------------|-------------|
| Wetland Type              | PFO/OW      |
| Wetland ID                | LK-7        |
| Total Acres               | > 100 Acres |
| Waterway Impacts          | 0 SF        |
| Vegetated Wetland Impacts | 273 SF      |
|                           |             |

| Functions and Values |                        |  |                         |
|----------------------|------------------------|--|-------------------------|
|                      | GW Recharge/Discharge  |  | Recreation              |
|                      | Floodflow Alteration   |  | Nutrient Removal        |
|                      | Fish/Shellfish Habitat |  | Production Export       |
|                      | Sediment Retention     |  | Shoreline Stabilization |
|                      |                        |  | Wildlife Habitat        |
|                      |                        |  | Uniqueness/Heritage     |
|                      |                        |  | Visual Quality          |
|                      |                        |  | T/E Species Habitat     |

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- |                                  |                                 |                          |
|----------------------------------|---------------------------------|--------------------------|
| Phase 1 Commuter Rail Service    | MassDEP Wetlands                | Rocky Intertidal Shore   |
| Full Build Commuter Rail Service | Bog                             | Salt Marsh               |
| Existing Commuter Rail Service   | Coastal Bank Bluff or Sea Cliff | Shallow Marsh Meadow     |
| Intermittent Stream (USGS)       | Coastal Beach                   | Shrub Swamp              |
| Perennial Stream (USGS)          | Cranberry Bog                   | Wooded Swamp Coniferous  |
| Limit of Disturbance             | Deep Marsh                      | Wooded Swamp Deciduous   |
| Wetland Impact Area              | Open Water                      | Wooded Swamp Mixed Trees |
| Delineated Wetland Edge          |                                 |                          |
| Town Boundary                    |                                 |                          |

**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
Permanent Wetland and Waterway Impacts  
New Bedford Main Line  
Figure 2-6**



|                           |         |
|---------------------------|---------|
| Wetland Type              | OW      |
| Wetland ID                | LK-17.1 |
| Total Acres               | 3 Acres |
| Waterway Impacts          | 4012 SF |
| Vegetated Wetland Impacts | 0 SF    |
|                           |         |
|                           |         |
|                           |         |
|                           |         |

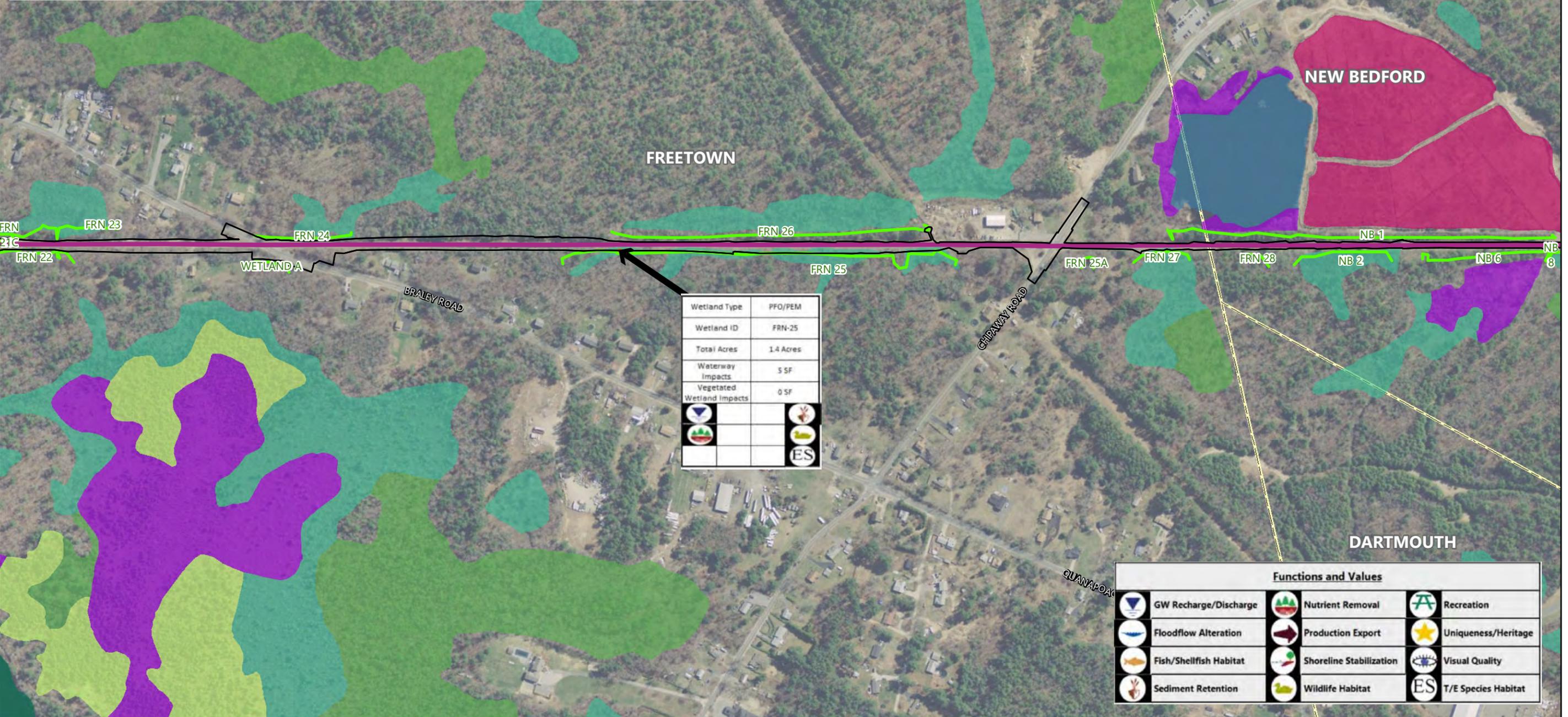
| Functions and Values |                        |  |                         |
|----------------------|------------------------|--|-------------------------|
|                      | GW Recharge/Discharge  |  | Recreation              |
|                      | Floodflow Alteration   |  | Nutrient Removal        |
|                      | Fish/Shellfish Habitat |  | Production Export       |
|                      | Sediment Retention     |  | Shoreline Stabilization |
|                      |                        |  | Wildlife Habitat        |
|                      |                        |  | T/E Species Habitat     |
|                      |                        |  | Uniqueness/Heritage     |
|                      |                        |  | Visual Quality          |

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**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
Permanent Wetland and Waterway Impacts  
New Bedford Main Line  
Figure 2-7**

- |                                  |                                 |                          |
|----------------------------------|---------------------------------|--------------------------|
| Phase 1 Commuter Rail Service    | MassDEP Wetlands                | Rocky Intertidal Shore   |
| Full Build Commuter Rail Service | Bog                             | Salt Marsh               |
| Existing Commuter Rail Service   | Coastal Bank Bluff or Sea Cliff | Shallow Marsh Meadow     |
| Intermittent Stream (USGS)       | Coastal Beach                   | Shrub Swamp              |
| Perennial Stream (USGS)          | Cranberry Bog                   | Wooded Swamp Coniferous  |
| Limit of Disturbance             | Deep Marsh                      | Wooded Swamp Deciduous   |
| Wetland Impact Area              | Open Water                      | Wooded Swamp Mixed Trees |
| Delineated Wetland Edge          |                                 |                          |
| Town Boundary                    |                                 |                          |



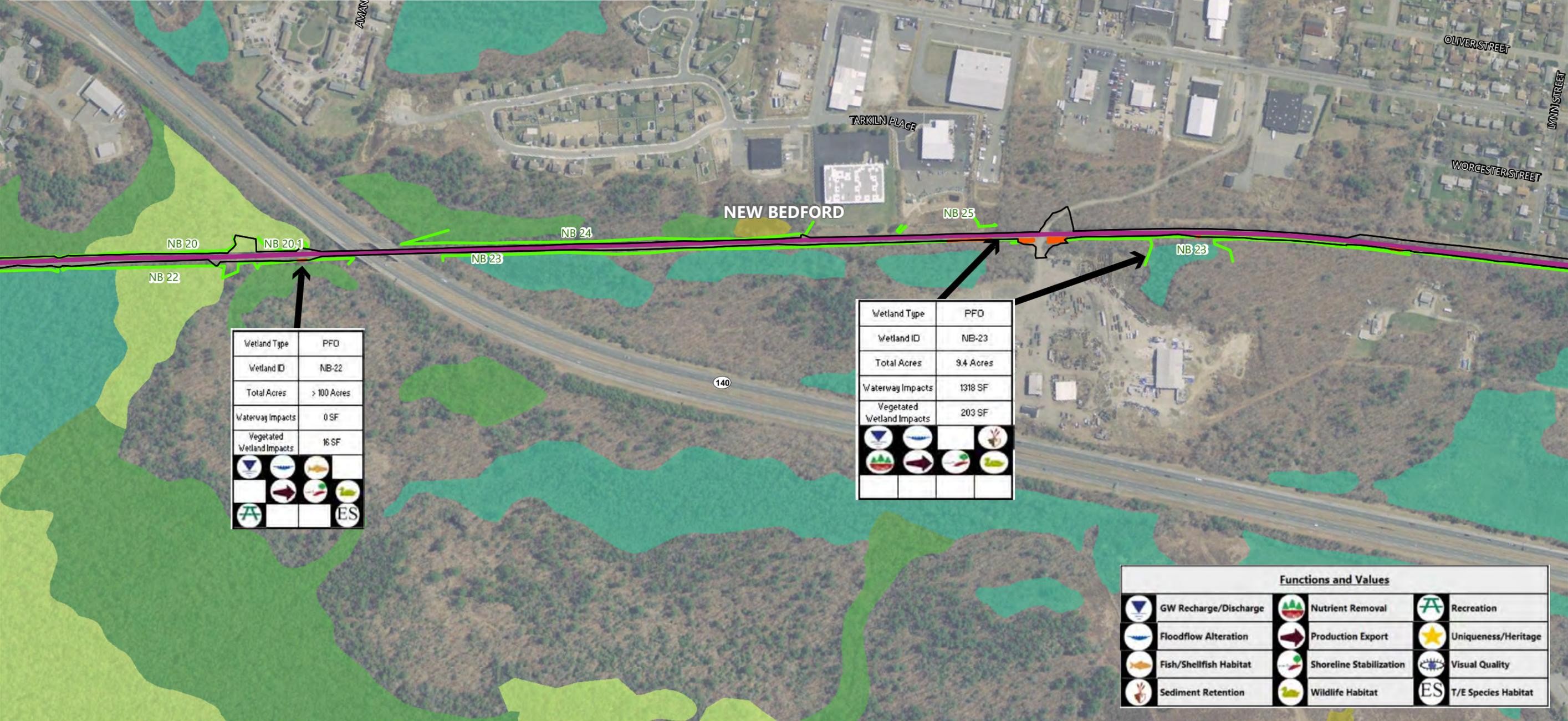
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|---------------------------|-----------|
| Wetland Type              | PFO/PEM   |
| Wetland ID                | FRN-25    |
| Total Acres               | 1.4 Acres |
| Waterway Impacts          | 5 SF      |
| Vegetated Wetland Impacts | 0 SF      |
|                           |           |

| Functions and Values   |                         |                     |
|------------------------|-------------------------|---------------------|
| GW Recharge/Discharge  | Nutrient Removal        | Recreation          |
| Floodflow Alteration   | Production Export       | Uniqueness/Heritage |
| Fish/Shellfish Habitat | Shoreline Stabilization | Visual Quality      |
| Sediment Retention     | Wildlife Habitat        | T/E Species Habitat |

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**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
Permanent Wetland and Waterway Impacts  
New Bedford Main Line  
Figure 2-8**

|                                  |                                 |                          |
|----------------------------------|---------------------------------|--------------------------|
| Phase 1 Commuter Rail Service    | MassDEP Wetlands                | Rocky Intertidal Shore   |
| Full Build Commuter Rail Service | Bog                             | Salt Marsh               |
| Existing Commuter Rail Service   | Coastal Bank Bluff or Sea Cliff | Shallow Marsh Meadow     |
| Intermittent Stream (USGS)       | Coastal Beach                   | Shrub Swamp              |
| Perennial Stream (USGS)          | Cranberry Bog                   | Wooded Swamp Coniferous  |
| Limit of Disturbance             | Deep Marsh                      | Wooded Swamp Deciduous   |
| Wetland Impact Area              | Open Water                      | Wooded Swamp Mixed Trees |
| Delineated Wetland Edge          |                                 |                          |
| Town Boundary                    |                                 |                          |



|                           |             |
|---------------------------|-------------|
| Wetland Type              | PFD         |
| Wetland ID                | NB-22       |
| Total Acres               | > 100 Acres |
| Waterway Impacts          | 0 SF        |
| Vegetated Wetland Impacts | 16 SF       |
|                           |             |
|                           | ES          |

|                           |           |
|---------------------------|-----------|
| Wetland Type              | PFD       |
| Wetland ID                | NB-23     |
| Total Acres               | 9.4 Acres |
| Waterway Impacts          | 1318 SF   |
| Vegetated Wetland Impacts | 203 SF    |
|                           |           |

| Functions and Values |                        |  |                         |
|----------------------|------------------------|--|-------------------------|
|                      | GW Recharge/Discharge  |  | Recreation              |
|                      | Floodflow Alteration   |  | Nutrient Removal        |
|                      | Fish/Shellfish Habitat |  | Production Export       |
|                      | Sediment Retention     |  | Shoreline Stabilization |
|                      |                        |  | Wildlife Habitat        |
|                      |                        |  | T/E Species Habitat     |
|                      |                        |  | Uniqueness/Heritage     |
|                      |                        |  | Visual Quality          |

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**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
Permanent Wetland and Waterway Impacts  
Fall River Secondary  
Figure 2-9**

|                                  |                                 |                          |
|----------------------------------|---------------------------------|--------------------------|
| Phase 1 Commuter Rail Service    | MassDEP Wetlands                | Rocky Intertidal Shore   |
| Full Build Commuter Rail Service | Bog                             | Salt Marsh               |
| Existing Commuter Rail Service   | Coastal Bank Bluff or Sea Cliff | Shallow Marsh Meadow     |
| Intermittent Stream (USGS)       | Coastal Beach                   | Shrub Swamp              |
| Perennial Stream (USGS)          | Cranberry Bog                   | Wooded Swamp Coniferous  |
| Limit of Disturbance             | Deep Marsh                      | Wooded Swamp Deciduous   |
| Wetland Impact Area              | Open Water                      | Wooded Swamp Mixed Trees |
| Delineated Wetland Edge          |                                 |                          |
| Town Boundary                    |                                 |                          |

| Wetland Type              | PSS       |
|---------------------------|-----------|
| Wetland ID                | BK-3.1    |
| Total Acres               | 0.1 Acres |
| Waterway Impacts          | 0 SF      |
| Vegetated Wetland Impacts | 11 SF     |
|                           |           |

| Wetland Type              | PFO/PSS  |
|---------------------------|----------|
| Wetland ID                | BK-2B    |
| Total Acres               | 75 Acres |
| Waterway Impacts          | 0 SF     |
| Vegetated Wetland Impacts | 695 SF   |
|                           |          |

| Wetland Type              | PFO      |
|---------------------------|----------|
| Wetland ID                | LKF-2    |
| Total Acres               | 75 Acres |
| Waterway Impacts          | 0 SF     |
| Vegetated Wetland Impacts | 125 SF   |
|                           |          |

| Wetland Type              | PSS      |
|---------------------------|----------|
| Wetland ID                | LKF-4    |
| Total Acres               | 60 Acres |
| Waterway Impacts          | 0 SF     |
| Vegetated Wetland Impacts | 15 SF    |
|                           |          |

| Wetland Type              | PSS      |
|---------------------------|----------|
| Wetland ID                | BK-1B    |
| Total Acres               | 15 Acres |
| Waterway Impacts          | 0 SF     |
| Vegetated Wetland Impacts | 24 SF    |
|                           |          |

| Wetland Type              | WSD, DM    |
|---------------------------|------------|
| Wetland ID                | LKF-1      |
| Total Acres               | 17.4 Acres |
| Waterway Impacts          | 119 SF     |
| Vegetated Wetland Impacts | 0 SF       |
|                           |            |

| Wetland Type              | PFO      |
|---------------------------|----------|
| Wetland ID                | LKF-8    |
| Total Acres               | 15 Acres |
| Waterway Impacts          | 0 SF     |
| Vegetated Wetland Impacts | 242 SF   |
|                           |          |

| Wetland Type              | WSD, DM    |
|---------------------------|------------|
| Wetland ID                | LKF-1      |
| Total Acres               | 17.4 Acres |
| Waterway Impacts          | 0 SF       |
| Vegetated Wetland Impacts | 227 SF     |
|                           |            |

| Functions and Values   |                         |                     |
|------------------------|-------------------------|---------------------|
| GW Recharge/Discharge  | Nutrient Removal        | Recreation          |
| Floodflow Alteration   | Production Export       | Uniqueness/Heritage |
| Fish/Shellfish Habitat | Shoreline Stabilization | Visual Quality      |
| Sediment Retention     | Wildlife Habitat        | T/E Species Habitat |

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Source Info: MassGIS, VHB, ESRI

**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
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Fall River Secondary  
Figure 2-10**

|                                  |                                 |                          |
|----------------------------------|---------------------------------|--------------------------|
| Phase 1 Commuter Rail Service    | MassDEP Wetlands                | Rocky Intertidal Shore   |
| Full Build Commuter Rail Service | Bog                             | Salt Marsh               |
| Existing Commuter Rail Service   | Coastal Bank Bluff or Sea Cliff | Shallow Marsh Meadow     |
| Intermittent Stream (USGS)       | Coastal Beach                   | Shrub Swamp              |
| Perennial Stream (USGS)          | Cranberry Bog                   | Wooded Swamp Coniferous  |
| Limit of Disturbance             | Deep Marsh                      | Wooded Swamp Deciduous   |
| Wetland Impact Area              | Open Water                      | Wooded Swamp Mixed Trees |
| Delineated Wetland Edge          |                                 |                          |
| Town Boundary                    |                                 |                          |

|                           |           |
|---------------------------|-----------|
| Wetland Type              | PFO/PEM   |
| Wetland ID                | FRF-2     |
| Total Acres               | 3.8 Acres |
| Waterway Impacts          | 0 SF      |
| Vegetated Wetland Impacts | 436 SF    |
|                           |           |

|                           |           |
|---------------------------|-----------|
| Wetland Type              | PFD       |
| Wetland ID                | FRF-4     |
| Total Acres               | 2.2 Acres |
| Waterway Impacts          | 0 SF      |
| Vegetated Wetland Impacts | 13 SF     |
|                           |           |

|                           |           |
|---------------------------|-----------|
| Wetland Type              | PFO/PSS   |
| Wetland ID                | FRF-8     |
| Total Acres               | 0.5 Acres |
| Waterway Impacts          | 0 SF      |
| Vegetated Wetland Impacts | 147 SF    |
|                           |           |

|                           |           |
|---------------------------|-----------|
| Wetland Type              | WSD       |
| Wetland ID                | FRF-10    |
| Total Acres               | 0.1 Acres |
| Waterway Impacts          | 14 SF     |
| Vegetated Wetland Impacts | 0 SF      |
|                           |           |

|                           |            |
|---------------------------|------------|
| Wetland Type              | PFO/OW     |
| Wetland ID                | FRF-3      |
| Total Acres               | 86.1 Acres |
| Waterway Impacts          | 0 SF       |
| Vegetated Wetland Impacts | 107 SF     |
|                           |            |

| Functions and Values |                        |  |
|----------------------|------------------------|--|
|                      | GW Recharge/Discharge  |  |
|                      | Floodflow Alteration   |  |
|                      | Fish/Shellfish Habitat |  |
|                      | Sediment Retention     |  |
|                      | Recreation             |  |
|                      | Visual Quality         |  |

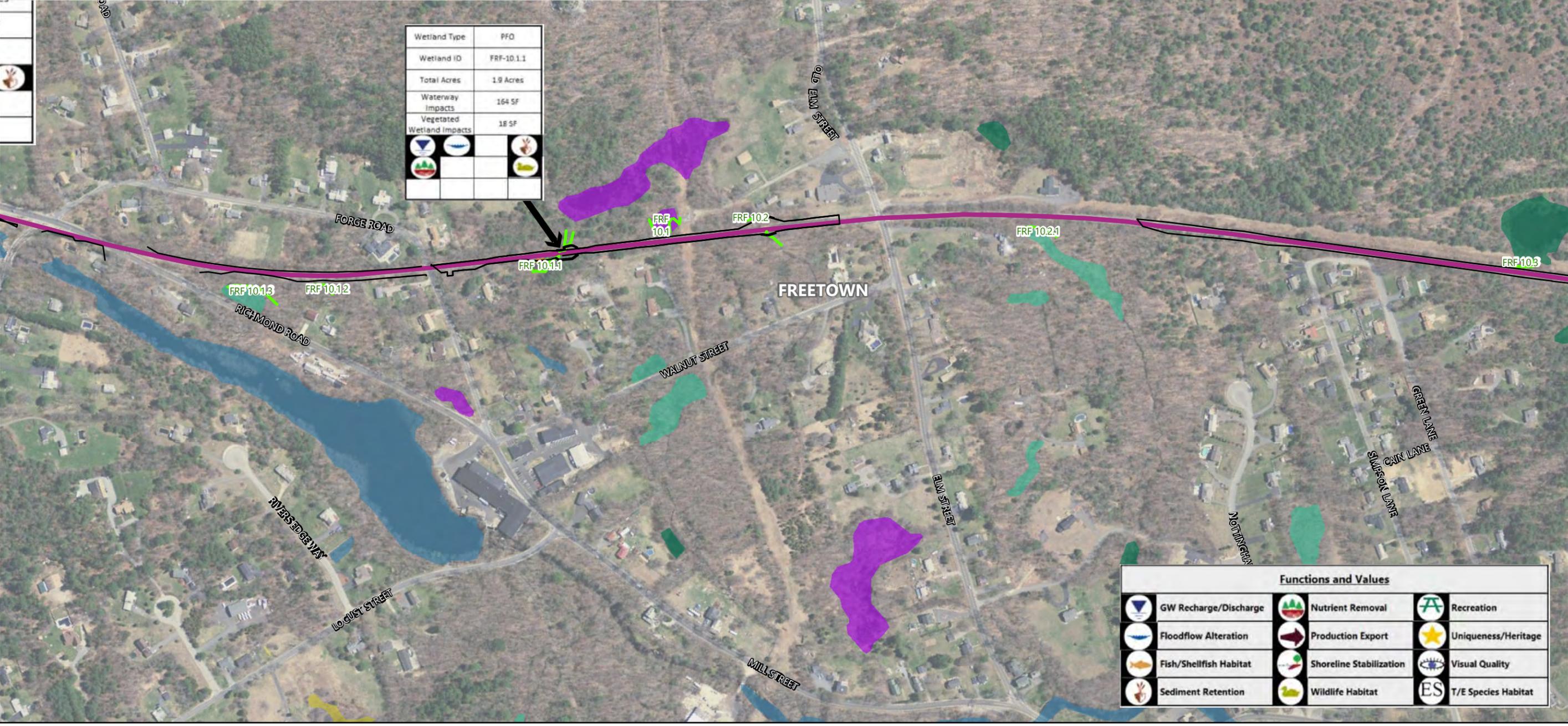
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**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
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Fall River Secondary  
Figure 2-11**

- |                                  |                                 |                          |
|----------------------------------|---------------------------------|--------------------------|
| Phase 1 Commuter Rail Service    | MassDEP Wetlands                | Rocky Intertidal Shore   |
| Full Build Commuter Rail Service | Bog                             | Salt Marsh               |
| Existing Commuter Rail Service   | Coastal Bank Bluff or Sea Cliff | Shallow Marsh Meadow     |
| Intermittent Stream (USGS)       | Coastal Beach                   | Shrub Swamp              |
| Perennial Stream (USGS)          | Cranberry Bog                   | Wooded Swamp Coniferous  |
| Limit of Disturbance             | Deep Marsh                      | Wooded Swamp Deciduous   |
| Wetland Impact Area              | Open Water                      | Wooded Swamp Mixed Trees |
| Delineated Wetland Edge          |                                 |                          |
| Town Boundary                    |                                 |                          |

| Wetland Type              | PFO        |
|---------------------------|------------|
| Wetland ID                | FRF-10.1.1 |
| Total Acres               | 1.9 Acres  |
| Waterway Impacts          | 164 SF     |
| Vegetated Wetland Impacts | 18 SF      |
|                           |            |



| Functions and Values |  |  |
|----------------------|--|--|
|                      |  |  |
|                      |  |  |
|                      |  |  |
|                      |  |  |

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**South Coast Rail Phase 1  
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Permanent Wetland and Waterway Impacts  
Fall River Secondary  
Figure 2-12**

|                                  |                                 |                          |
|----------------------------------|---------------------------------|--------------------------|
| Phase 1 Commuter Rail Service    | MassDEP Wetlands                | Rocky Intertidal Shore   |
| Full Build Commuter Rail Service | Bog                             | Salt Marsh               |
| Existing Commuter Rail Service   | Coastal Bank Bluff or Sea Cliff | Shallow Marsh Meadow     |
| Intermittent Stream (USGS)       | Coastal Beach                   | Shrub Swamp              |
| Perennial Stream (USGS)          | Cranberry Bog                   | Wooded Swamp Coniferous  |
| Limit of Disturbance             | Deep Marsh                      | Wooded Swamp Deciduous   |
| Wetland Impact Area              | Open Water                      | Wooded Swamp Mixed Trees |
| Delineated Wetland Edge          |                                 |                          |
| Town Boundary                    |                                 |                          |

|                           |           |
|---------------------------|-----------|
| Wetland Type              | PFO       |
| Wetland ID                | FRF-21    |
| Total Acres               | 1.0 Acres |
| Waterway Impacts          | 0 SF      |
| Vegetated Wetland Impacts | 77 SF     |
|                           |           |

|                           |           |
|---------------------------|-----------|
| Wetland Type              | PSS       |
| Wetland ID                | FRF-26.2  |
| Total Acres               | 0.1 Acres |
| Waterway Impacts          | 0 SF      |
| Vegetated Wetland Impacts | 940 SF    |
|                           |           |

|                           |           |
|---------------------------|-----------|
| Wetland Type              | PFO       |
| Wetland ID                | FRF-26.3  |
| Total Acres               | 0.2 Acres |
| Waterway Impacts          | 0 SF      |
| Vegetated Wetland Impacts | 642 SF    |
|                           |           |

| Functions and Values   |                         |                     |
|------------------------|-------------------------|---------------------|
| GW Recharge/Discharge  | Nutrient Removal        | Recreation          |
| Floodflow Alteration   | Production Export       | Uniqueness/Heritage |
| Fish/Shellfish Habitat | Shoreline Stabilization | Visual Quality      |
| Sediment Retention     | Wildlife Habitat        | T/E Species Habitat |

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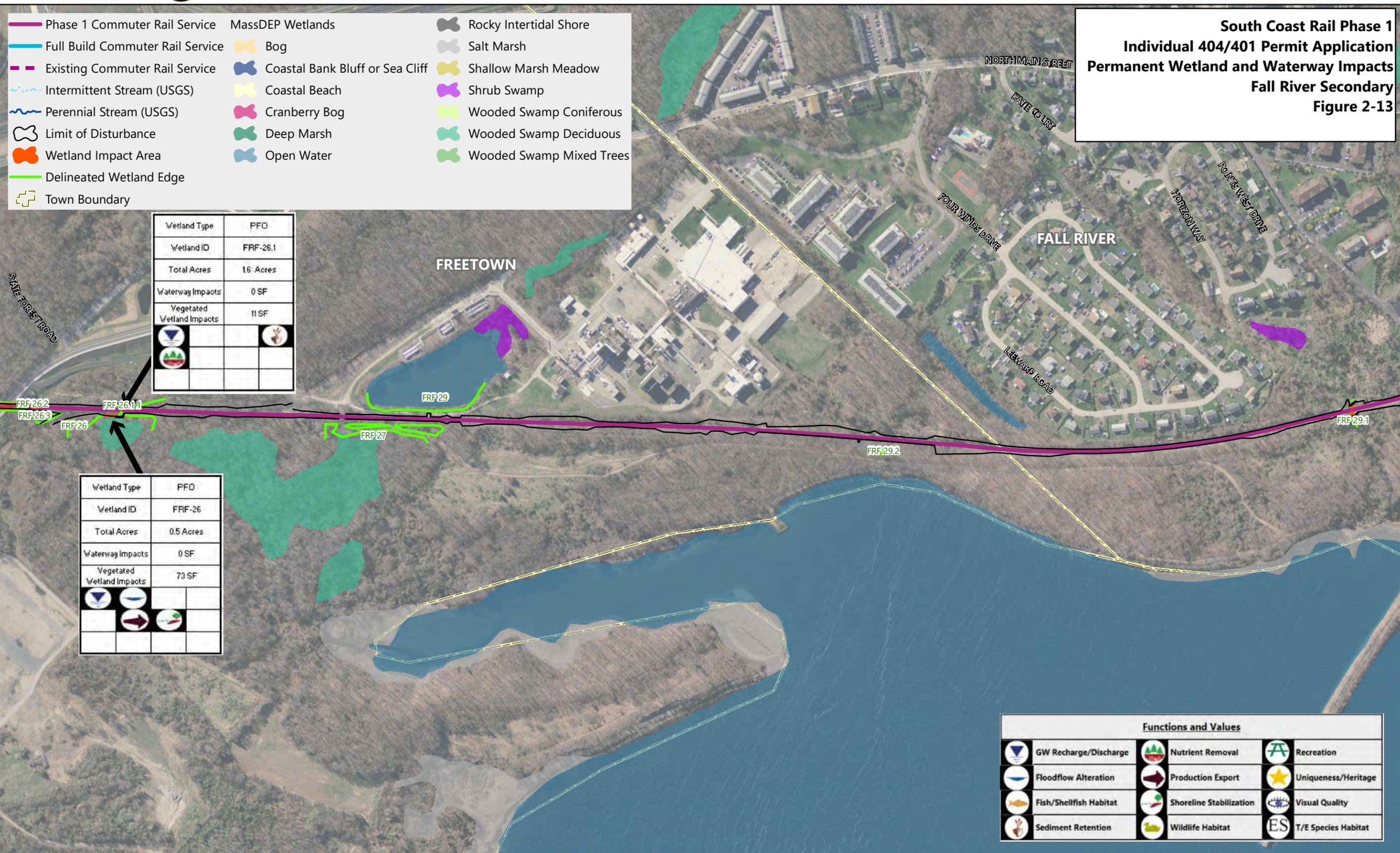


**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
Permanent Wetland and Waterway Impacts  
Fall River Secondary  
Figure 2-13**

|                                  |                                 |                          |
|----------------------------------|---------------------------------|--------------------------|
| Phase 1 Commuter Rail Service    | MassDEP Wetlands                | Rocky Intertidal Shore   |
| Full Build Commuter Rail Service | Bog                             | Salt Marsh               |
| Existing Commuter Rail Service   | Coastal Bank Bluff or Sea Cliff | Shallow Marsh Meadow     |
| Intermittent Stream (USGS)       | Coastal Beach                   | Shrub Swamp              |
| Perennial Stream (USGS)          | Cranberry Bog                   | Wooded Swamp Coniferous  |
| Limit of Disturbance             | Deep Marsh                      | Wooded Swamp Deciduous   |
| Wetland Impact Area              | Open Water                      | Wooded Swamp Mixed Trees |
| Delineated Wetland Edge          |                                 |                          |
| Town Boundary                    |                                 |                          |

|                           |          |
|---------------------------|----------|
| Wetland Type              | PFO      |
| Wetland ID                | FRF-26.1 |
| Total Acres               | 16 Acres |
| Waterway Impacts          | 0 SF     |
| Vegetated Wetland Impacts | 11 SF    |
|                           |          |

|                           |           |
|---------------------------|-----------|
| Wetland Type              | PFO       |
| Wetland ID                | FRF-26    |
| Total Acres               | 0.5 Acres |
| Waterway Impacts          | 0 SF      |
| Vegetated Wetland Impacts | 73 SF     |
|                           |           |



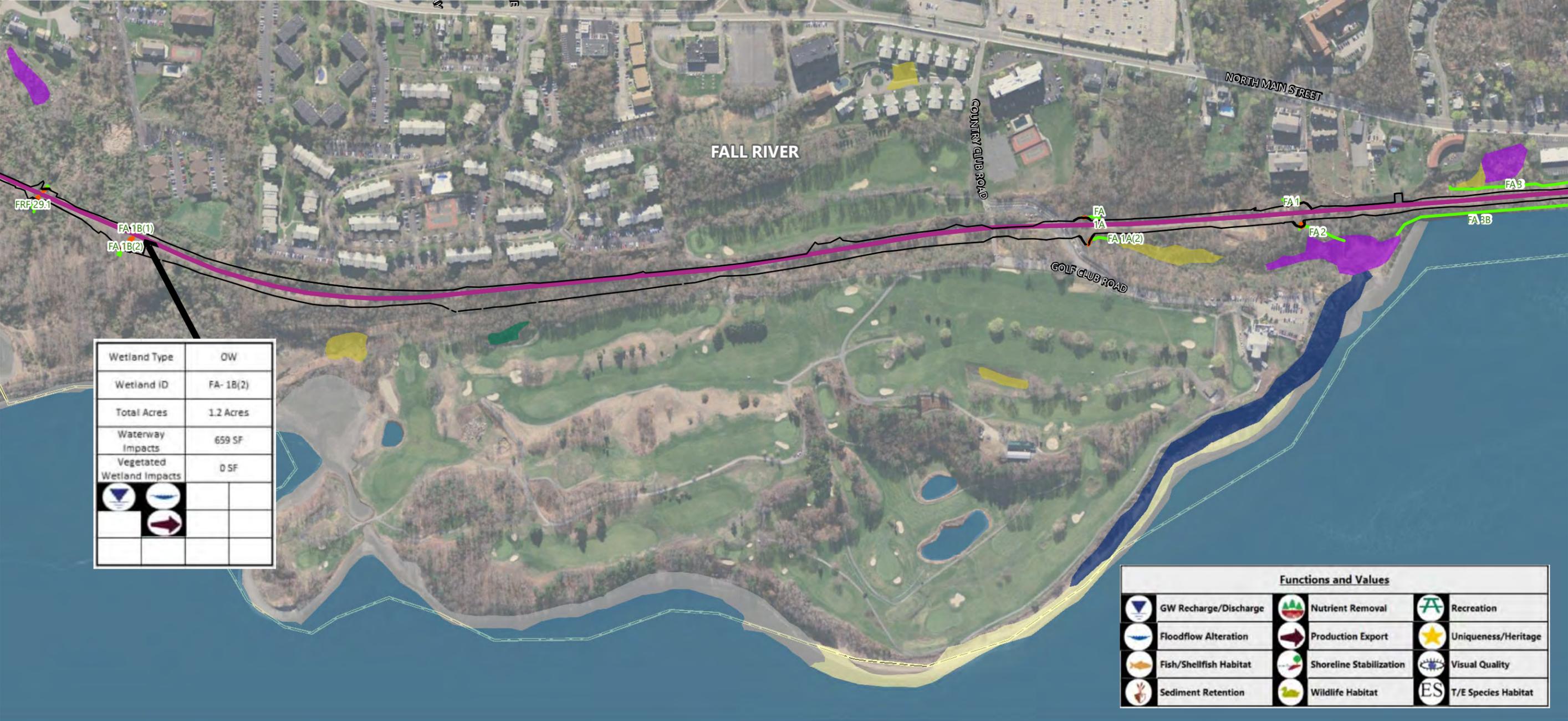
| Functions and Values |                        |  |                         |
|----------------------|------------------------|--|-------------------------|
|                      | GW Recharge/Discharge  |  | Recreation              |
|                      | Floodflow Alteration   |  | Nutrient Removal        |
|                      | Fish/Shellfish Habitat |  | Production Export       |
|                      | Sediment Retention     |  | Shoreline Stabilization |
|                      |                        |  | Wildlife Habitat        |
|                      |                        |  | Uniqueness/Heritage     |
|                      |                        |  | Visual Quality          |
|                      |                        |  | T/E Species Habitat     |

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**South Coast Rail Phase 1  
Individual 404/401 Permit Application  
Permanent Wetland and Waterway Impacts  
Fall River Secondary  
Figure 2-14**

|                                  |                                 |                          |
|----------------------------------|---------------------------------|--------------------------|
| Phase 1 Commuter Rail Service    | MassDEP Wetlands                | Rocky Intertidal Shore   |
| Full Build Commuter Rail Service | Bog                             | Salt Marsh               |
| Existing Commuter Rail Service   | Coastal Bank Bluff or Sea Cliff | Shallow Marsh Meadow     |
| Intermittent Stream (USGS)       | Coastal Beach                   | Shrub Swamp              |
| Perennial Stream (USGS)          | Cranberry Bog                   | Wooded Swamp Coniferous  |
| Limit of Disturbance             | Deep Marsh                      | Wooded Swamp Deciduous   |
| Wetland Impact Area              | Open Water                      | Wooded Swamp Mixed Trees |
| Delineated Wetland Edge          |                                 |                          |
| Town Boundary                    |                                 |                          |



|                           |           |
|---------------------------|-----------|
| Wetland Type              | OW        |
| Wetland ID                | FA- 1B(2) |
| Total Acres               | 1.2 Acres |
| Waterway Impacts          | 659 SF    |
| Vegetated Wetland Impacts | 0 SF      |
|                           |           |

| Functions and Values |                        |  |
|----------------------|------------------------|--|
|                      | GW Recharge/Discharge  |  |
|                      | Floodflow Alteration   |  |
|                      | Fish/Shellfish Habitat |  |
|                      | Sediment Retention     |  |
|                      | Recreation             |  |
|                      | Visual Quality         |  |

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