

## **FAENA - Summary of Resiliency Features**

### **Benefits Recommended by the City Administration:**

1. A continuous system of shallow injection wells shall be provided, with a total of 9 wells for a total capacity of 9@2,000 gallons per minute or 18,000 gpm. This will provide for water quality treatment for 27 acres which is equivalent to one third of the entire Indian Creek drainage basin as stated in the drainage study performed by AECOM.
2. Or provide 3.4 acre-feet of storage under the open space area between 1' above the water table and the surface. This will provide for water quality treatment for 27 acres which is equivalent to one third of the entire Indian Creek drainage basin as stated in the drainage study performed by AECOM.
3. Bioswales, within the green space area, provided the City receives credit from DERM for water quality treatment equivalent to a 27 acre site which is equivalent to one third of the entire Indian Creek drainage basin as stated in the drainage study performed by AECOM.
4. Any combination of items 1, 2 and 3 above to provide for water quality treatment for 27 acres which is equivalent to one third of the entire Indian Creek drainage basin as stated in the drainage study performed by AECOM.

The above noted water treatment options shall promote the cleaning of the first flush of rainfall from the lift station to the bay. The capacity of the above water treatment options shall not be utilized towards on-site stormwater management and a separate stormwater management system shall be constructed as described above.

At a minimum, the following benchmarks shall be met for the proposed shallow injection wells:

- All wells shall be provided for the sole purpose of improving the performance and quality of storm water runoff from the proposed stormwater system, within the Indian Creek Neighborhood.
- All wells shall have a minimum combined capacity of 18,000 gallons per minute with no well design assuming more than 2,000 gallons per minute per individual well.
- All wells shall be designed and constructed in accordance with regulatory requirements.
- All wells shall be permitted for use as injection wells with passive pressure relief by means of an orifice plate or other method approved by applicable regulatory authorities and the City.
- All wells shall contain a header, with an appropriate passive pressure relief device, manifolding all wells to a proposed pump station.
- All wells shall be spaced in a manner to ensure that no well capacity is limited by another.
- All wells shall be tested to confirm minimum required capacity is achieved.