



## **SCOPE OF ENVIRONMENTAL SERVICES FOR TYPICAL BASE**

RE: PROJECT INTEGRATION AND SUSTAINABILITY PLANNING, DEMAND-SIDE WATER USE PLANNING, WASTEWATER & STORMWATER PLANNING & INFRASTRUCTURE, REGULATORY ISSUES, AND RELATED ENVIRONMENTAL ASPECTS

### **SCOPE:**

**1.0** Review the project and prepare preliminary options for the project wastewater recycling plan, and develop and prepare options that meet the following criteria:

- Shorten installation time,
- Require less space,
- Can be installed at less overall capital cost,
- Operate with a high level of energy efficiency,
- Operate at reduced overhead and maintenance,
- Operate within the requirements of the Project site as to aesthetics, including venting, odors, containment, access, noise, and other quality aspects.

#### ***DELIVERABLES:***

- 1. Review assumptions and water balance for the Project.*
- 2. Develop options for wastewater recycling and renewable energy components.*
- 3. Contact vendors and develop proposals with costs.*
- 4. Contact Regulatory Agencies and develop permitting requirements & necessary relationships.*
- 5. Schedule & attend meetings as required.*
- 6. Prepare findings in memo format.*
- 7. Prepare briefings as required, including calculations, regulations, design goals, examples, and strategies.*

**2.0** Work with local engineers in the successful regulatory-compliant integration of the stormwater runoff plan and the integration of the stormwater plan with Low Impact Development (LID) techniques acceptable to the Regulatory Agency.

#### ***DELIVERABLES:***

- 1. Begin communications with the base engineer and delineation of the regulatory framework and compliance requirements.*

2. *Meet with the FOP Engineer & Design Team members to develop options and costs.*
  3. *Participate in design development that resolves conflicts between the sustainability goals of the Project and conventional approaches to grading and drainage, and other infrastructure elements.*
  4. *Work with the FOP engineer to resolve any Code conflicts that may arise, to the satisfaction of the Regulatory Authority.*
  5. *Retain and provide wetland and habitat specialist, and coordinate impact mitigations and planning.*
  6. *Prepare findings in memo form.*
- 3.0** Begin to develop integrated options for the Project Landscape Design. The Project Landscape Design must integrate demand-side water reduction, recycled water reuse, stormwater runoff mitigation and LID, and irrigation methods with the economic and sustainability goals for the project. The Project Landscape Design is to provide a unique and lush plant palate.

***DELIVERABLES:***

1. *Develop options that employ proprietary and advanced methods of landscape irrigation (when required).*
  2. *Provide options for integration of the landscape plan with the recycled water system and the stormwater planning.*
  3. *Prepare options in memo form, with graphics as required.*
  4. *Prepare specific irrigation plans as required.*
  5. *Prepare initial plant palate.*
- 4.0** Ecological and Environmental preliminary site assessment evaluations, permitting, management, and assessment of terrestrial, wetland, and aquatic systems.

***DELIVERABLES:***

1. *Threatened and Endangered Species Surveys*
2. *Phase I Environmental Site Assessments*
3. *Terrestrial and Aquatic Ecological Studies*
4. *Vegetative Community Assessments*
5. *Wetland Functional Assessments (HGM, WRAP, WET)*
6. *Wetland and Stream Impact Studies*
7. *Habitat Assessment*
8. *Botanical Surveys and Inventories*

- 5.0** Attend Design Team working sessions as required.

***DELIVERABLES:***

1. *An initial budgetary provision for meetings.*
2. *An initial budgetary provision for meetings relative to similar projects and project research, inclusive.*
3. *Attend any additional site or regulatory meetings as requested by client.*
4. *Perform any additional tasks and assist in any ways as requested in writing by the Client.*
5. *Provide verbal support to other members of the Design Team during meetings and via communications, and provide support documents and graphics as requested.*
6. *Participate in and provide support for any community, review, or outreach meetings, hearings, or events as requested.*