

## **Overarching Statement**

In designing and building a hydrogel storm water management system and prototype, care should be taken to make all known information available to any interested parties, and safety and environmental concerns shall be critical factors in the design and implementation of the system.

## **Law**

In the design and implementation of the hydrogel system, all laws, standards, and codes shall be strictly adhered to.

### Pressures

- To get polymer (hydrogel) to work in water detention system as envisioned

### Risks

- Failure to design hydrogel system that measures up to standards and codes
- Failure to obtain necessary permits, for example construction permits

### Measures

- Ensure that related laws, codes, and standards are researched, documented, and practices are constantly reviewed and compared with the corresponding laws, codes, or standards.

## **Contracts**

All contracts shall be signed with full understanding of terms and conditions, and the full truth as it is known shall always be disclosed for all aspects of the project.

### Pressures

- Cost efficiency
- Obtaining approval by upper management, authorities, and/or sponsors

### Risks

- Failure to deliver finished product on time
- Lying to or misleading sponsors to gain favor of sponsors or authorities

### Measures

- Write and obtain copies of all contracts
- Understand terms of all contracts prior to signing

## **Professional Codes**

All persons performing work on the project shall abide by applicable professional codes to perform work with integrity. In all circumstances, honesty and safety standards shall be enforced.

### Pressures

- Gaining profit

### Risks

- Lying to or misleading customers to sell product (AIA Code of Ethics)
- Compromising safety of customers or workers (Code of Ethics of Engineers)

### Measures

- Make all professional codes easily accessible to all persons contributing to the project, particularly providing codes corresponding to persons working in fields related to specific professional codes.

### **Industry Standards**

All potential and real environmental impacts of the hydrogel system shall be made publicly available, and negative impacts shall not be overlooked in the consideration of the feasibility of implementation of the system.

#### Pressures

- To create and implement a working hydrogel system

#### Risks

- Disregarding potential environmental problems such as the discharge of harmful contaminants into the surrounding soil
- Failure to disclose hazards and potential problems or negative impacts of system

#### Measures

- Maintain contact and consult with storm water management professionals to be informed about industry standards and practices.

### **Community**

Members of the community shall not be misinformed or misled about impacts of the hydrogel system. All known information shall be documented and made readily available for interested outside parties.

#### Pressures

- Obtain MWRD approval

#### Risks

- Overlooking or diminishing potential negative impacts on flooding
- Misleading community about costs, maintenance, and economic impact

#### Measures

- Reports containing all known information regarding the project and system shall be published on a regular basis.
- Community meetings shall be held to keep interested parties in the community informed.
- All known information shall be documented and made available to the public.

### **Personal Relationships**

All actions shall be made in accordance with the best interest of the project, and personal interests shall not have precedence over the best interest of the project.

#### Pressures

- Maintaining friendships
- Building relationships with outside professionals, potential sponsors, or authorities

#### Risks

- Making biased decisions or favoring certain persons or ideas
- Compromising the best interest of the team in favor of maintaining personal relationships
- Excusing unacceptable or unprofessional behavior
- Compromising integrity of the group to win favor of outsiders in attempts to gain outside help or knowledge

#### Measures

- Build skills for effective interpersonal communication

- Refrain from allowing any single person from possessing excess power (thus reducing effects of bias)
- Teamwork building activities

### **Moral/Spiritual**

Care should be taken that all persons involved with the project shall be respectfully.

#### Pressures

- Meeting deadlines or completing tasks faster

#### Risks

- Failure to honor religious holidays
- Asking persons to perform tasks in a way that would compromise their moral or spiritual values
- Failure to consider differences in beliefs, and/or acting with insensitivity

#### Measures

- Open an anonymous suggestion box, where problems can be addressed anonymously.