



Statement  
of *Qualifications*



*Environmental Consulting  
Permitting and Planning  
Communications  
Public Involvement*

A TRUSTED SMALL BUSINESS  
**HUB·WBE·DBE·SBE**  
State of Texas      City of Houston      City of Houston      Port of Houston  
METRO

402 Teetshorn Street · Houston, TX 77009  
713-868-1043 · FAX 713-863-7944  
[www.crouchenvironmental.com](http://www.crouchenvironmental.com)



# *What's Inside:*

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**Over 100 Years of Project Experience**

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# *Meet Crouch Environmental Services, Inc.*



# Excellence *is not a* skill. *It is an attitude.*

Crouch Environmental Services, Inc. (CESI) is a professional environmental consulting and public involvement firm. CESI is woman-owned and registered with the State of Texas as a Historically Underutilized Business (HUB) and the City of Houston as a Disadvantaged Business Enterprise (DBE) and a Woman-owned Business Enterprise (WBE). CESI provides award-winning environmental and communications services to federal and state agencies, local municipalities, and private enterprises. CESI's environmental practice specializes in providing wetland delineation, permitting, design, and construction services; preparing National Environmental Policy Act (NEPA) documents; performing biological surveys and sediment sampling; performing environmental site assessments;

preparing Stormwater Pollution Prevention Plans (SWPPPs); and providing expert testimony and litigation support. CESI's communication branch provides expert community engagement and public involvement services, including NEPA-compliant meetings and hearings, graphic design, print production, web development and video productions. CESI was founded on principles of dedication to quality and client satisfaction. The company began as a dynamic, two-person operation offering environmental services throughout the country. Nineteen years later, through hundreds of projects and countless problem-solving opportunities, our commitment remains the same: *the client is always king.*



We are  
**problem solvers**  
who pool experience to  
**create results.**

### *Environmental Services*

CESI offers the following environmental services:



- Wetland Delineation, Wetland Permitting (404/401) and Mitigation Planning
- NEPA Document Preparation
  - Environmental Assessments
  - Environmental Impact Statements
  - Categorical Exclusions
  - Section 4(f) Documentation



- Biological Surveys
  - Biological Assessments
  - Threatened and Endangered Species Surveys
  - Presence/Absence Surveys



- Sediment Sampling
- Phase I Environmental Site Assessments (ESAs)
- Environmental Training Seminars
- Stormwater Pollution Prevention Plans (SWPPPs)
- Spill Prevention Control and Countermeasures Plans
- Expert Testimony and Litigation Support
- Geographic Information Systems (GIS) Services



## Communication Services

CESI offers the following communication services:



- Public Involvement Services (specializing in NEPA compliance)
- Public Meetings and Public Hearings
- Communications Strategy Development
- Branding and Awareness Building
- Community Outreach
- Graphic Design
- Web Development
- Photography
- Video Production
- Interview Preparation
- Graphic Renderings and Animations
- Media Relations and Training



**“It is our belief that supplying your target audience with clear and reliable sources of information is not only reassuring, *it’s respectful*. By imparting your audience with the knowledge necessary to reach their own conclusions, everyone stands to benefit.”**

- Kay Crouch, Board Chair



# You are why *we do what we do.*

## What CESI can do for you...

Our work and – most importantly – the clients we work for have been recognized for outstanding achievement in our industry. At CESI, we take pride in serving our clients with creative, efficient solutions.

CESI has successfully completed hundreds of projects since its founding in 1994, including:

- Preparing *Environmental Impact Statements (EISs)*, *Environmental Assessments (EAs)*, and *Categorical Exclusions (CEs)* for a wide variety of projects, such as highways, pipelines, petrochemical facilities, and port facilities.
- Performing wetland delineations and obtaining *404/401 wetland permits* for a diverse group of clients and projects.
- Designing and constructing a wide range of *wetland mitigation projects*, including marshes, prairies, and riparian forests.
- Preparing *Stormwater Pollution Prevention Plans (SWPPPs)* for a variety of activities.
- Conducting *endangered species surveys* in a wide variety of habitats, for an array of flora and fauna.
- Organizing and holding *public meetings and hearings* (meeting NEPA requirements) for a variety of projects, including flood damage reduction and transportation corridors.
- Creating award-winning public *communication tools*, such as graphic design, print, and video productions.
- Conducting *environmental and media relations training seminars* for clients, including the Harris County Flood Control District, the Harris County Public Infrastructure Department, the Port of Houston Authority, and private industries.
- Preparing *environmental manuals* for clients relating to wetland, endangered species, cultural resources, and stormwater issues.
- Providing *expert testimony and litigation support*.

Learn more about what we can do for you by watching the award-winning CESI video at [www.crouchenvironmental.com](http://www.crouchenvironmental.com).





# Our Team



## Kay Crouch, Board Chair



Kay Crouch co-founded CESI in 1994, over 20 years ago. Formerly, she was a consultant to the electric power and energy transportation industries, before becoming a regulator in Hazardous and Solid Waste at the Texas Water Commission (now the TCEQ). Her strong expertise, reflecting **over 31 years of experience**, is in all aspects of **site selection, constraints analysis** (including public acceptance and environmental constraints), and **environmental licensing and permitting**. Ms. Crouch's depth of experience is such that she routinely serves as an **Independent External Peer Review (IEPR) team member**, reviewing multi-billion dollar USACE planning projects nationwide as a **NEPA and coastal ecology expert**.

In addition to her extensive environmental expertise, Ms. Crouch has received numerous awards for her work as a **communications specialist**, including **six national Telly Awards** for project-related informational video products. Her talent in facilitating NEPA-related public involvement and garnering public acceptance of high profile projects is unsurpassed.

As a company, CESI provides expert NEPA documentation, public involvement, wetlands delineation, permitting and mitigation, environmental site assessment, remediation, environmental planning, and other general environmental consulting services to a variety of clients in private industry as well as local, state and federal agencies. Ms. Crouch herself has over 34 years of experience performing **wetland investigations**, including **delineations**

in accordance with the 1987 USACE Wetlands Delineation Manual and Regional Supplements. She has procured dozens of **Clean Water Act Section 404 permits** and **Clean Water Act 401 Water Quality Certifications** (404/401 permits). The company has completed well over 1,000 environmental projects since its start-up in 1994.

Specific projects include **site selection, NEPA documentation and permitting** for two new coal-fired **power plants** in northern Louisiana (including **transmission corridors**), dozens of **Federal Energy Regulatory Commission (FERC)** filings for pipelines and natural gas facilities throughout Texas, Louisiana, Arkansas, and Mississippi, and numerous **park and recreational facility developments**. Ms. Crouch has performed NEPA analyses and prepared NEPA documentation, performed wetlands delineations and procured 404/401 permits as well as solved other environment-related problems for the Harris County Flood Control District, the Harris County Public Infrastructure Department, the Port of Houston Authority, Exxon Land Development, the Texas Department of Transportation, and many other public and private clients. Her extensive permitting experience includes procurement of **316 (a) and (b), Section 7 consultations, Individual USACE 404/401 and Nationwide wetland permits, RCRA permits, Section 10 permits, Coastal Zone Management Area Determinations, Coast Guard Bridge Permits, and Texas General Land Office easements**. In 2009, Ms. Crouch assisted the Harris County Flood Control District in obtaining their own USACE Regional General Permit to facilitate maintenance activities on their facilities throughout Harris County.

Environmental inventories and preparation of documents complying with NEPA are an area of specialization for Ms. Crouch. She has prepared **over 100 NEPA documents** since 1978. On an on-going basis, she prepares all or parts of NEPA documents for transportation projects for clients such as TxDOT and Harris County. She has also prepared NEPA documents for activities

regulated by FERC for **liquid natural gas facilities** (including Freeport LNG for FERC and the Vista Del Sol project for ExxonMobil), and port facilities (such as the Bayport Container Terminal and Cargo Road for the USACE and the Port of Houston Authority). As an IEPR team member evaluating USACE projects under a contract with an independent consulting firm, she has reviewed multi-billion dollar ecosystem restoration projects and multi-billion dollar dam safety and flood damage reduction projects nationwide.

Ms. Crouch has extensive experience in community relations and public outreach. Since 1999, she has provided public involvement support to the Galveston District of the USACE for the Clear Creek Flood Damage Reduction project, the Greens Bayou Flood Damage Reduction project, the Sims Bayou Recreation Plan, the Colorado River Locks Project, Addicks and Barker Dams and Reservoirs Dam Safety Briefing, the Sabine Neches Waterway Expansion, and emergency repairs to the seawall in Port Arthur, Texas. She has planned and facilitated numerous public meetings in compliance with NEPA, including scoping and interim public meetings for flood damage reduction and transportation projects. For several years, Ms. Crouch and her team provided communications and marketing support to Houston's METRO, including providing Communications and Marketing collateral for the METROSolutions light rail expansion project, which broke ground on the East End Corridor in June of 2008. Additional public involvement clients include Texas Parks and Wildlife Department, the Port of Houston Authority, the Port of Galveston, and the Harris County Flood Control District, among others.

### Education:

- B.S., Biology, Stephen F. Austin State University, 1975
- M.S., Biology/Aquatic Ecology, Stephen F. Austin State University, 1978
- Duke University, Nicholas School of the Environment and Earth Sciences, 2004-05, NEPA Courses

## Greg Crouch, Board Vice Chair



Greg Crouch began his consulting career in 1977 working for a pipeline engineering firm on large projects like the **Strategic Petroleum Reserve Program** and linear pipelines crossing the nation. He later worked for several Houston-based engineering consulting firms before becoming the Regional Sales Manager for Halliburton NUS and for McLaren Hart Environmental Engineering, Inc. In his 36 years of environmental consulting experience, he has accumulated vast experience in linear transmission projects for **pipelines, oil and gas, power plant siting and construction, LNG facilities**, linear transportation corridors, and residential and commercial real estate development, working in most of the lower 48 states.

He co-founded CESI in 1994. In the early years, CESI primarily performed

environmental assessments for the FDIC and RTC, both federal agencies managing real estate assets. The firm quickly expanded its services to include transmission corridors, **wetlands delineations and permitting, along with endangered species surveys**. Mr. Crouch is also deeply experienced in NEPA documentation from as early as the 1970s and continuing to this day.

Mr. Crouch is most experienced in projects in Texas and surrounding states, including NEPA work and onsite management of **17 coal and gas powered electrical generating facilities** (power plants), **two Texas nuclear power plants**, **numerous pipeline projects** (the latest was the KXL pipeline, over 700 miles in length, from Beaumont, TX to southern OK), **numerous park projects, hundreds of wetland projects, and scores of listed species surveys**. He managed the **largest wetland delineation ever performed in the U.S.A.** (according to the USACE). This Texas project encompassed 17 square miles and was complicated by the presence of **whooping cranes**.

In the last few years, Mr. Crouch has been the principal investigator and project manager for virtually all of the largest residential and marina development projects on the central Texas coast, totaling over **39,000-acres of land studied for clients prior to permit acquisition** from the USACE.

For over 30 years, Mr. Crouch has performed well over 70 EAs, CEs, and EISs for private, state and federal agencies. These **NEPA documents** include numerous FERC filings for pipeline corridors, state parks, a Texas LNG facility, power plants, numerous large commercial developments, port facilities, the Houston Ship Channel, dozens of transportation corridors, and many other projects.

Recently, Mr. Crouch was named to perform on the prestigious **Independent External Peer Review (IEPR) review team** that reviews and critiques NEPA documentation for proposed U.S. Army Corps of Engineers projects that exceed \$40-million dollars in cost. Participants on this team traditionally must have **30 years of NEPA experience** before they are allowed to participate on the IEPR teams. As a team member, Mr. Crouch focused on **wetlands, endangered species and general biological issues** that were raised by the USACE projects.

### Education

- B.A., Biology, Sam Houston State University, 1974
- M.S., Biology, Stephen F. Austin University, 1977
- M.B.A., University of Texas at Austin, 1990

## Leslie Hollaway, President/CEO



Ms. Hollaway has 11 years of experience in the practice of public communications, and she has managed the award-winning communications team at CESI for 8 years.

Ms. Hollaway has extensive experience in stakeholder outreach and public outreach, specifically for high-profile projects that have significant regional benefits or impacts. The CESI communications process is born out

of technical expertise combined with a dedication to results-oriented problem-solving. Ms. Hollaway serves as an advocate for her clients and the projects that she serves, and she and her team use a wide variety of communications tools to achieve effective communication. These tools include in-house video productions to inform stakeholders, three-dimensional technical renderings and imagery, web-based tools and marketing, NEPA-compliant public meeting and hearing facilitation, as well as collateral material development and distribution. The CESI team also creates as-needed, just-in-time promotional materials, such as mailers and videos, for public and private clients within the infrastructure industry.

Ms. Hollaway has years of experience developing and implementing communications plans for clients such as the Metropolitan Transit Authority of Harris County, the U.S. Army Corps of Engineers, Harris County Flood Control

District, the Texas Parks and Wildlife Department, Broward County Port Everglades, and the Port of Galveston, among others.

In the past three years, the CESI communications branch has won multiple awards for excellence in public communications. These include *four national Telly Awards* for outstanding video productions, as well as *three Communicator Awards* for exceptional communications tools (newspaper advertisement, branding, and promotional mailers). In 2010, the CESI communications branch was *recognized as setting the "National Best Practice Standard"* by the U.S. Army Corps of Engineers for Communications Strategy and Public Outreach associated with the Addicks and Barker Dam Safety Program.

### Education:

- B.A., Communication Studies, Southwestern University, 2006

## Claire Garvin, Director of Environmental Services



Ms. Garvin has 13 years of experience in environmental consulting, fieldwork, and project management. Ms. Garvin brings with her experience in National Environmental Policy Act (NEPA) compliance and environmental

permitting support, and development and execution of biological field survey programs for projects located in the Gulf Coast and Southeast regions (i.e. Alabama, Louisiana, Mississippi, and Texas). Her project experience also extends to Alaska, Arkansas, Michigan, Oklahoma, and Wisconsin. Her project experience spans across industries including oil and gas, electric transmission line routing and permitting, nuclear energy plant biological sampling and permitting, coastal surveys and restoration, public and private development, and mitigation plan development.

Ms. Garvin's capabilities include state and federal agency coordination, Federal Energy Regulatory Commission (FERC) application preparation,

Nuclear Regulatory Commission (NRC), the Public Utility Commission (PUC), and the U.S. Army Corps of Engineers (USACE) applications, permitting, and coordination for federal applications and coordination.

As Director of Environmental Services, Ms. Garvin supports the CESI environmental consulting team in the planning and execution of environmental projects. She also participates in the preparation and review of technical documents, assuring these deliverables meet CESI's high standards of scientific and communicative excellence.

### Education:

- B.S., Marine Biology, Texas A&M University at Galveston, 2003



## Annie McFarland, Director of Communications



Ms. McFarland specializes in assisting land management agencies and non-profits engage with their communities by facilitating the

breakdown of barriers, developing winning solutions and building consensus. Ms. McFarland's experience spans nearly 20 years, during which she has worked for both Federal and Local land management agencies as a Recreation Planner. By drawing on her recreation management background, project-management skill set, and a toolbox of facilitation techniques, she is able to help groups discover solutions that meet everyone's needs and create a feeling of investment in the end result.

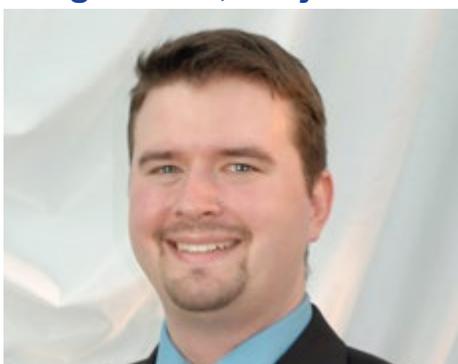
Ms. McFarland's project experience includes community relations for the West Harris County Regional Water

Authority's Surface Water Supply Project, a 40-mile water supply pipeline project traversing the densely populated greater north Houston region, and public scoping for the Houston Ship Channel 45-foot Expansion Channel Improvement Project.

### Education:

- M.S., Humane Dimensions of Natural Resource Management, Colorado State University, Fort Collins, CO, 2007
- B.S., Natural Resources Recreation & Tourism, Parks & Protected Area Management, Colorado State University, Fort Collins, CO, 2002

## Greg Sevcik, Project Manager, Creative Director



Mr. Sevcik has 9 years of experience as a professional and freelance graphic designer, developing print collateral, branding and motion graphics. Mr. Sevcik has served as the lead graphic

designer for several of CESI's client projects, including award-winning work on the Pelican Island Container Terminal Conceptual Planning Study, Port Everglades Master Vision Plan video, the METRO Solutions Light Rail Transit Expansion project, the U.S. Army Corps of Engineers Addicks and Barker Dam Safety Program, the Halls Ahead Flood Damage Reduction Study, the Battleship Texas Dry Berth Project, and multiple public meetings for the Texas Department of Transportation – Houston District. As such, Mr. Sevcik is responsible for the visual design and layout of various technical and educational communication tools for

public distribution. He is also responsible for the development and implementation of consistent and uniform templates for various area-specific newsletters and mail-outs. Other areas of expertise include professional photography, videography, audiovisual equipment setup and operation for public events, and various software proficiencies (Adobe software including Premiere, AfterEffects, Illustrator, Photoshop, InDesign, Acrobat, Google Sketchup Pro, among others).

### Education:

- B.S., Graphic Design, Drexel University, 2008

## Ally Altemose, PWS, Environmental Consultant



Mrs. Altemose began her career in environmental consulting in 2006. She serves Crouch Environmental Services, Inc. as a senior environmental consultant and field project manager. Mrs. Altemose has conducted and/or managed a variety of projects including, but not limited to, wetland delineation and determinations, NEPA projects, threatened and endangered species surveys, habitat surveys and assessments; vegetation sampling and mapping, well pad restoration, regulatory compliance with small and large scale 3D seismic projects, and

impact assessments. Her experience as a consultant focuses on balancing the needs of industry with protecting natural resources. She has worked with many state and federal agencies on a variety of oil and gas related projects. This industry experience and communication skills help her to facilitate project objectives within agency guidelines for best management practices.

### Education:

- B.S., Environmental Science, Lamar University, 2006

## Connor Stokes, Senior Editor and Communications Specialist



Mr. Stokes serves the Crouch Environmental Services team as an Senior Editor and Communications Specialist, assisting with project research, report authorship, video production, stakeholder outreach, public meeting/hearing planning, and quality assurance review. Mr. Stokes has played an integral role in many of Crouch Environmental Services' client projects, including communications services for the Maritime Division of the Texas Department of Transportation, public involvement efforts for the Gulf Coast Community Protection and Recovery

District Storm Surge Suppression Study, and wetland restoration at the Baytown Nature Center. He also organized the outreach campaign to Houston Ship Channel users on behalf of the Port of Houston Authority and compiled research for 12 Transit-Oriented Development (TOD) Studies for the Metropolitan Transit Authority of Harris County.

### **Education:**

- B.A., Anthropology, Professional Writing Minor, University of Texas at San Antonio, 2014

## Amanda Sankey, Environmental Consultant



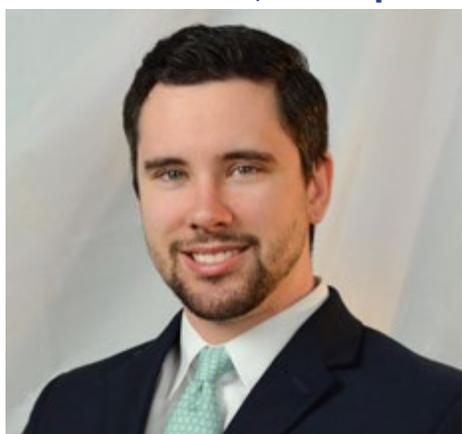
Ms. Sankey has more than 2 years of experience conducting environmental biological surveys for linear (utility, energy, and transportation) and water resources projects. Ms. Sankey has worked as an environmental technician, performing US Army Corps of Engineers jurisdictional determinations, wetland delineations, and preparing Section 404/401 permits. Ms. Sankey also has experience performing biological studies, including wildlife habitat assessments, listed and endangered species

assessments, and species-specific surveys. Recently, Ms. Sankey has assisted with wetland delineations on behalf of the Houston Airport System and the Houston Parks Board.

### **Education:**

- B.S., Geography – Resource and Environmental Studies, Communications Minor, Geology Minor, Texas State University – San Marcos, 2015

## Trevor Pattillo, GIS Specialist



Mr. Pattillo serves the Crouch Environmental Services team as a Geographic Information Systems (GIS) Professional, assisting with report figures, data compilation, and research. Mr. Pattillo has 3 years of GIS experience on projects ranging from ecology to transportation, supporting multiple individuals and offices. His main duties include acquisition and maintenance of GIS, CAD and geospatial data, creating high-quality and detailed maps and figures for a

variety of projects, and collection of raw field data using GPS tools and software. Project work experience ranges from small wetland delineation projects to oil and gas pipeline permitting and routing, leveraging ESRI ArcGIS, ArcSDE, Microstation, and Google Earth.

### **Education:**

- B.S., Renewable Natural Resources, Texas A&M University, 2013

## Ethan Pauling, Environmental Consultant



Mr. Pauling serves the Crouch team as an Environmental Consultant with experience in the field performing threatened and endangered species surveys, wetland delineations, water quality analyses, and Phase I environmental site assessments. Mr. Pauling also develops written report documents and supports CESI's internal review process. Mr. Pauling also has experience performing biological studies, including wildlife habitat assessments, listed and endangered

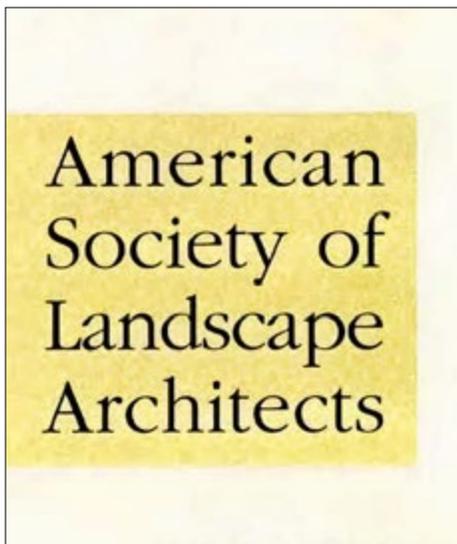
species assessments, and species-specific surveys. Recently, Mr. Pauling has assisted with projects on behalf of the Houston Airport System, The Port of Houston Authority, The Harris County Flood Control District, and the Houston Parks Board.

**Education:**

- B.S., Environmental Science, University of Texas at Austin, 2015



# Our Awards



CESI is an award-winning firm. CESI has been featured in television documentaries, newspapers, landscape journals, and magazines, such as *Texas Parks and Wildlife Magazine* and *Southern Living*. Our awards include:

- **2015 – Telly Award** for AECOM Ports and Marine Promotional Video
- **2015 – Two Communicator Awards** for print and design
  - Public Relations/Communications - Other
  - Marketing/Promotion - Design
- **2015 – Houston - Galveston Area Council Parks and Natural Areas Award** for the Baytown Nature Center 11-acre Wetlands Construction Project
- **2014 – Telly Award** for HeartGift Foundation online video, “No Bigger Gift”
- **2014 – Four Communicator Awards** for print and design
  - Public Relations/Communications - Communication Plan
  - Brochure - Business-to-Business
  - Marketing/Promotion - Book
  - Content Marketing - Image/Infographic
- **2013 – Communicator Award** for the CESI self promotional mailer
- **2012 – Named by the Houston Business Journal as one of the Top 15 Environmental Companies in Houston, Texas**
- **2012 – Two Communicator Awards** for Logo Design and Newspaper Advertising
- **2012 – Telly Award** for Florida’s Broward County Port Everglades 20-year Master/Vision Plan Video Production
- **2012 – Telly Award** for the Texas Parks and Wildlife Department Battleship TEXAS Dry Berth Project Video Introduction
- **2012 – Two Telly Awards** for the CESI company video, “Our Mission, Our Why”
  - Branded Content - Business-to-Business Advertisement
  - Internet/Online Commercial for Professional Services
- **2011 – Named by the Houston Business Journal as one of the Top 15 Environmental Companies in Houston, Texas**
- **2010 – U.S. Army Corps of Engineers** named CESI national “**Best Practice**” for the Addicks and Barker Dam Safety Program in Harris County, TX
- **2008 – Port of Houston Small Environmental Business of the Year.**
- **2004 – Office of the President, Council on Environmental Quality Award** for design & construction of the Baytown Nature Center.
- **2004 – Office of the President, Council on Environmental Quality Award** for contributions to the wetlands of the San Jacinto State Park.
- **2004 – Telly Award** for a documentary about U.S. Army Corps of Engineers’ Clear Creek Flood Damage Reduction Study
- **1999 – Texas Parks & Wildlife Department** placed a CESI-designed 60-acre marsh on the Texas Coastal Birding Trail because of the large number of bird species using it, including endangered species.
- **1998 – American Society of Landscape Architects** gave CESI the “**Award of Excellence**” for the design and construction management of a 60-acre saltmarsh on Galveston Bay.





The Houston-Galveston Area Council  
**2014 Parks and Natural Areas Awards**

Presented to

**The City of Baytown**

for the



**Baytown Nature Center 11-acre  
Wetlands Construction Project**

**Winner - Projects Under \$500,000 category**

**January 20, 2015**





DEPARTMENT OF THE ARMY  
GALVESTON DISTRICT, CORPS OF ENGINEERS  
P. O. BOX 1229  
GALVESTON, TEXAS 77553-1229

March 4, 2010



Executive Office

Ms. Kay Crouch  
Crouch Environmental Services, Inc.  
402 Teetshorn  
Houston, TX 77009

Dear Ms. Crouch:

I would like to extend to you the Galveston District's sincere appreciation for your outstanding support of the Addicks and Barker Dam Safety Program. Your many efforts in support of this program contributed greatly to the Addicks and Barker Communications Strategy and Public Outreach being hailed as a "Best Practice" for the U.S. Army Corps of Engineers. From logistical support to product development, you and your staff displayed great innovation, creativity and technical knowledge that helped make the program a success.

I would particularly like to commend the following individuals:

- \* Ms. Leslie Hollaway, Senior Communications Specialist and Director of Communications
- \* Ms. Anna Sabella, Communications Specialist
- \* Mr. Gregory Sevcik, Communications Specialist
- \* Mr. Max Trautner, Communications Specialist
- \* Ms. Nelda Salinas, Administrative Assistant for Communications

Thank you again for a job well done. We know that the Addicks and Barker Dam Safety Program would not have reached its level of success without your strong commitment and professional expertise.

Sincerely,

David C. Weston  
Colonel, Corps of Engineers  
District Commander



American  
Society of  
Landscape  
Architects

# Award of Excellence

presented by the

Texas Chapter

The Baytown Nature Center

Baytown, Texas

in recognition  
of outstanding  
professional  
achievement

City of Baytown, Owner  
SWA Group, Landscape Architect  
French Limited Task Group  
Crouch Environmental Services

Design - Constructed  
Environmental Significance



*Andrew W. Jones* *May 15, 1998*  
president date





*Office of the  
President of  
the U.S.*

## COASTAL AMERICA

### *Spirit Award*

For efforts that demonstrate the Coastal America spirit of teamwork and are poised to address our challenging coastal issues.

*Presented to*

## **Crouch Environmental Services, Inc.**

In recognition of your ambitions to restore a condemned neighborhood to its natural wetland habitat as part of the

**Baytown Nature Center Management Team Project**

*September 23, 2003*





## COASTAL AMERICA

### *Partnership Award*

*Presented to*

Greg and Kay Crouch

For your involvement in the  
San Jacinto Marsh & Interpretative  
Trail Restoration Project

*December 9, 2004*



“From logistical support to product development, you and your staff displayed great innovation, creativity and technical knowledge that helped make the program a success.”

- David C. Weston  
Colonel, U.S. Army Corps of Engineers  
Galveston District Commander

“Thanks so much. You guys did a great job as usual.”

- Elizabeth Parent  
Dannenbaum Engineering  
*following completion  
of public involvement services*

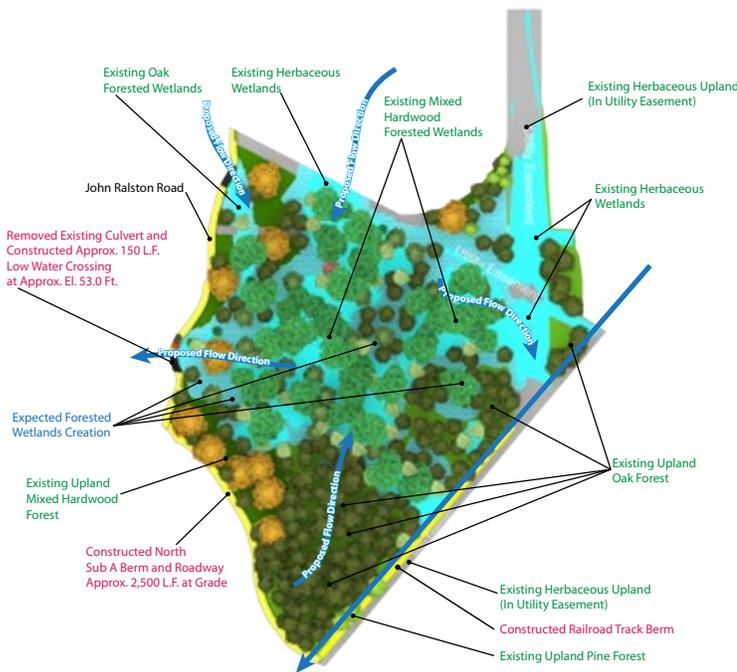
“It would be my privilege to participate in anything that furthers the efforts of Crouch Environmental.”

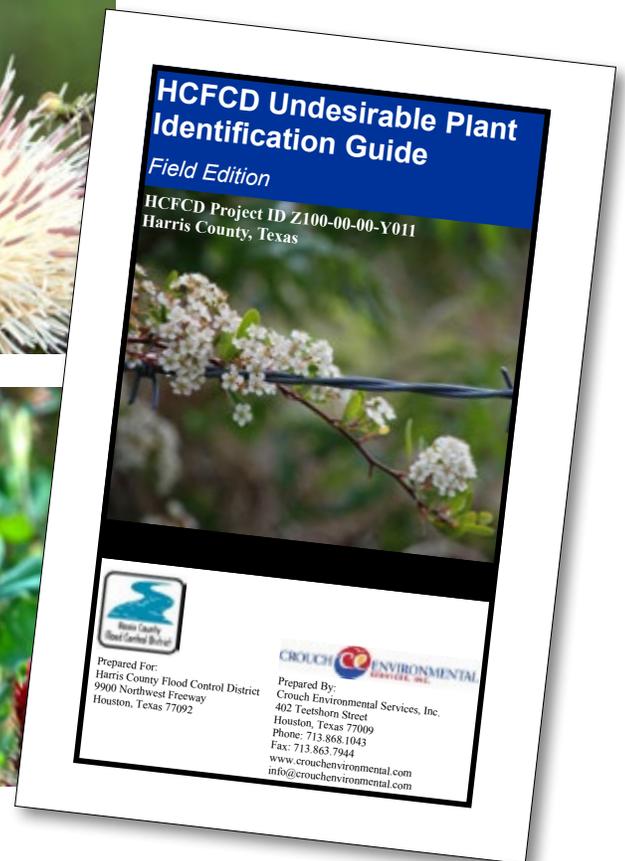
- Michael Mierzwa  
Deputy Director  
Port of Galveston





# Over 100 Years of Project Experience





## Project: Undesirable Species Management and Guidance Document Development (2009 – 2010)

Client: Harris County Flood Control District

The Harris County Flood Control District's (HCFCU) water quality enhancement program coordinates planting of native vegetation in wet-bottom detention basins throughout Harris County to enhance water quality and create wetland habitat. These wetland areas remove suspended solids and pollutants from stormwater that enter detention basins, thereby improving water quality in Harris County waterways. HCFCU plants these wetlands with a high diversity of plant species to provide optimal habitat for wildlife species. Control of undesirable wetland vegetative species is vital to the continued success of these wetland areas. Undesirable wetland species are capable of outcompeting native species, thereby leading to decreased wetland species diversity and degradation of wetland habitat for local wildlife species.

CESI was tasked with providing a baseline assessment of four HCFCU detention basins for undesirable and invasive vegetative species. CESI conducted pedestrian surveys to document undesirable species occurrence and map the areas with Global Positioning Systems (GPS) where undesirable species were found to occur. Digital photographs were taken to document the undesirable species infestations. A report

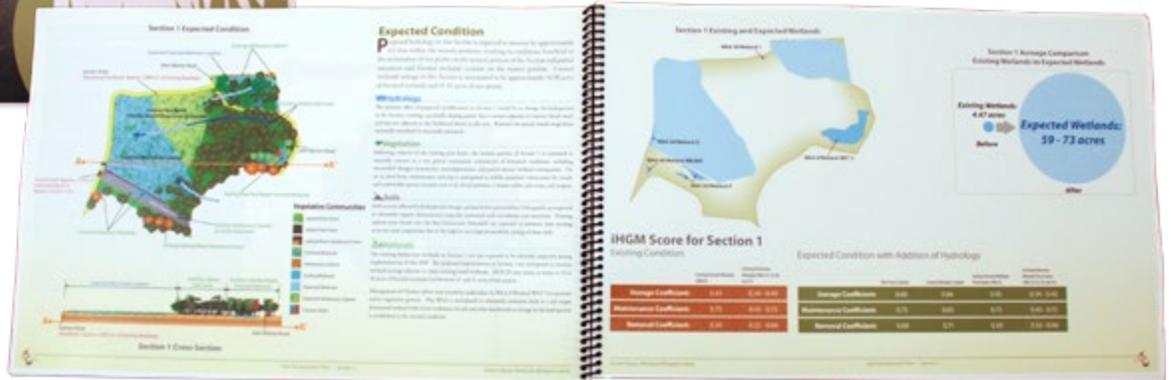
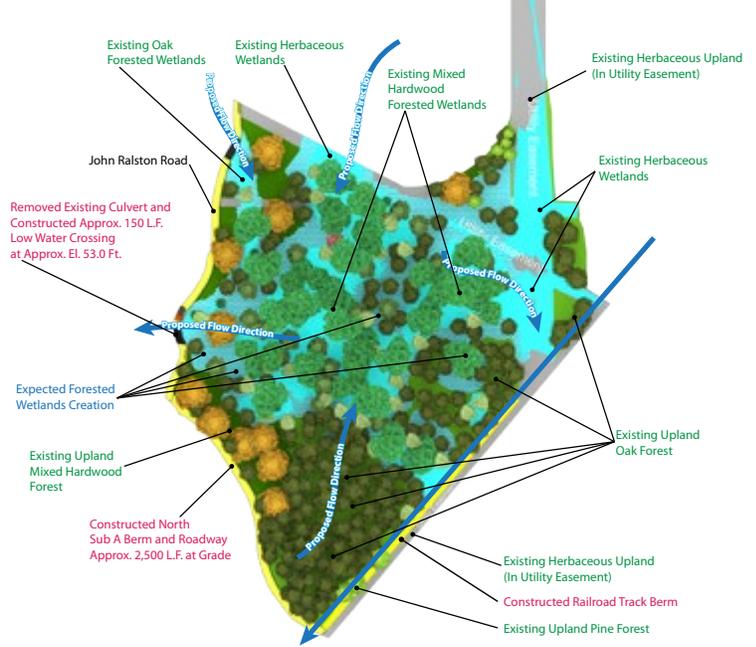
was produced that detailed the results of the baseline assessment and identified areas that should be considered "high risk areas," where management activities would provide benefits to the surrounding ecology.

An undesirable vegetative species identification guide was produced, incorporating the undesirable species observed during the baseline assessment. This identification guide included photographs of the species and a morphological and biological description of the species so that they could easily be identified in the field by HCFCU managers.

CESI also produced an undesirable vegetative species management guide that included management techniques and methods for controlling the undesirable vegetative species found during the baseline assessment. CESI conducted a literature search to identify mechanical, physical, biological, and/or chemical methods known to be effective at controlling the spread of these undesirable species.

### Client Contact:

Ms. Carolyn White, Harris County Flood Control District,  
(713) 684-4000, [carolyn.white@hcfcd.org](mailto:carolyn.white@hcfcd.org)



## Project: Greens Bayou Wetland Mitigation Bank Site Development Plan (2011 – Present)

Client: Harris County Flood Control District

In coordination with HCFCD, CESI prepared a Master Site Development Plan (SDP) for improvements and enhancements to 669 acres of the Greens Bayou Wetland Mitigation Bank (GBWMB), a 1,450-acre mitigation bank and wildlife refuge located in northeastern Harris County, Texas. Preparation of the SDP required data and impact analysis for wetland issues, migratory birds, threatened and endangered species, ground and surface water quality, cultural resources, and other environmental issues.

CESI utilized its environmental and communications expertise to develop a technical SDP that incorporated numerous environmental surveys and assessments. The SDP document was created to synthesize technical information while concurrently making it accessible and easy to understand for a variety of audiences. The SDP provided guidance for development of the GBWMB including philosophies, goals and objectives, estimated development phases, and anticipated ecological improvements.

The development of the SDP included the following:

- Managing brainstorming meetings between HCFCD, CESI biologists, and various stakeholders
- A study of the undeveloped acreage in the GBWMB to determine enhanced wetland mitigation opportunities
- Creation of implementation and maintenance strategies in the GBWMB
- Coordination with the U.S. Army Corps of Engineers, HCFCD, hydraulic and hydrologic specialists, and other stakeholders in creation of the SDP
- Creation of the highly illustrative SDP document with graphics that visually communicate the development of 669 acres of the GBWMB.

**Client Contact:**

Ms. Becky Martinez, Harris County Flood Control District, (713) 684-4191, [becky.martinez@hcfcd.org](mailto:becky.martinez@hcfcd.org)



## Project: Addicks and Barker Dam Safety Program, Harris and Fort Bend Counties, Texas (2010-Present)

*Client: U.S. Army Corps of Engineers*

The U.S. Army Corps of Engineers (USACE) conducts an ongoing inspection of USACE-owned and operated dams throughout the nation. Structural integrity, potential risks associated with structural concerns, and potential consequences of dam failure are carefully considered in this in-depth study of nationwide infrastructure.

Addicks and Barker Dams are two 11-mile long earthen dams creating 16,000 acres of reservoir in the heavily populated western region of Harris County and eastern region of Fort Bend County. A recent study designated Addicks and Barker Dams as “extremely high risk” when risks associated with the structure failure were combined with the potential consequences to the Houston metropolitan area.

Directly following the “extremely high risk” designation, the USACE Galveston District began implementation of the Addicks and Barker Dam Safety Program, providing a framework to ensure that both short- and long-term solutions are studied and applied, and that risks are effectively communicated to local communities. The Addicks and Barker Dam Safety Program is comprised of public education and communication efforts, in-depth risk analysis, development and implementation of interim risk reduction measures (IRRM), and study for long-term improvements to the existing dam structures.

In coordination with the USACE Public Affairs Office, CESI provides public education and communications services to communicate associated flood risk to adjacent communities. CESI’s public education and risk communication responsibilities to the USACE Galveston District include:

- Communication strategy development and implementation
- Public meeting coordination and facilitation
- Collateral material design, production, and mass distribution

- Project video shoots, on-camera interviews, and overall video production
- Project branding and marketing/public noticing
- Media planning and coordination
- Development and maintenance of the Addicks and Barker Dam Safety project website ([www.addicksandbarker.info](http://www.addicksandbarker.info)) and social media profiles
- As-needed support to the Public Affairs Office and the project team

CESI held a total of 13 outreach meetings – five meetings hosting the general public and additional briefings for media, congressional representatives, local public officials, and interested stakeholder groups. CESI prepared a branding system, multiple collateral pieces, an online web presence ([www.addicksandbarker.info](http://www.addicksandbarker.info)), a social media presence, and two 20-minute informational videos illustrating the subjects of investigation and associated risk. Public meetings feature a project-specific open house with multiple electronic and static display stations in addition to a CESI-staffed sign-in booth, formal presentation coordination, and audiovisual support. Materials are provided in English, Spanish, and Vietnamese for each meeting.

Following the successful implementation of this program, the public involvement approach developed by CESI was recognized as the ‘*National Best Practice Standard*’ by the USACE National Headquarters.

CESI currently assists the client with ongoing communications and public education efforts for the dam safety program.

### **Client Contact:**

*Mr. Enrique Villagomez, USACE Project Manager,  
(409) 766-3173, [enrique.villagomez@usace.army.mil](mailto:enrique.villagomez@usace.army.mil)*

# BATTLESHIP TEXAS Dry Berth Project



**PROJECT BACKGROUND**  
The Texas Parks and Wildlife Department (TPWD) has been challenged with a huge and complex mission - the restoration and preservation of the historic Battleship TEXAS. The agency's task is to secure the ship, stabilize the hull, and ensure its long-term survival.

**FEASIBILITY OF A DRY BERTH SOLUTION**  
TPWD began conducting a series of studies to determine the viability of a dry berth solution. The studies have demonstrated that a dry berth is the most viable option for the ship's preservation.

**WHERE ARE WE NOW?**  
TPWD is currently in the process of conducting a comprehensive environmental assessment and public involvement process. The project is currently in the design phase.

**PURPOSE AND NEED**  
The purpose of the Battleship TEXAS Dry Berth Project is to provide a permanent home for the ship and ensure its long-term survival. The project is a critical component of the ship's restoration and preservation efforts.

**THE BATTLESHIP'S CONDITION**  
The ship is currently in a state of disrepair and is sinking due to the hull's long exposure to brackish water. The ship's hull is severely deteriorated and requires immediate attention.

**THE PROJECT TIMELINE**

**GIVING THE BATTLESHIP TEXAS A PERMANENT PLACE IN HISTORY**

**BATTLESHIP TEXAS Dry Berth Project**

**SHIP'S LOG**

**PUBLIC MEETING**  
FEBRUARY 28, 2012  
SAN JACINTO MONUMENT  
SAN PORTE, TEXAS



## Project: Battleship TEXAS Dry Berth Project – Environmental and Public Involvement Services (2010 – present)

Client: Texas Parks and Wildlife Department and AECOM

The historic World War I and World War II Battleship TEXAS (BB-35) is currently in a state of disrepair requiring major restoration and preservation. Since 1948, the Battleship TEXAS has been secured adjacent to the San Jacinto Battleground State Historic Site in a slip off the Houston-Galveston Navigation Channel in Harris County, Texas. Approximately 100,000 visitors tour, study, and experience the Battleship Texas annually at this location.

Today, the Battleship Texas, subject to dire environmental and physical threats, is disintegrating and sinking due to the hull's long exposure to brackish water. This National Historic Landmark is in imminent threat of deterioration, and there is an immediate and urgent need to prevent the loss of historical integrity.

In 2010, the CESI team joined AECOM to provide environmental and public involvement services to the Texas Parks and Wildlife Department (TPWD) for the final berth of the Battleship Texas. AECOM and CESI have combined efforts to provide the environmental approach and associated study, and the public involvement efforts are led

by CESI. Services provided by CESI include environmental field studies, NEPA compliance documentation, Section 10/404/401 permitting, Section 106/110 support, provision of a facilitated stakeholder workshop, production of communication tools (including web, video, and print), and organization of a large-scale public open house at the San Jacinto Monument in February 2012.

For the production of the Battleship TEXAS Dry Berth Video Introduction, CESI won a Telly Award for its outstanding video production work in the "Government Relations" category in 2012.

This project began in November of 2010, and it is currently ongoing. To learn more about the Battleship Texas, please visit [www.dryberthTEXAS.org](http://www.dryberthTEXAS.org).

**Client Contact:**  
Ms. Lori Baer, AECOM,  
(954) 745-7254, [loribaer@aecom.com](mailto:loribaer@aecom.com)

Mr. Neil Thomas, Texas Parks and Wildlife Department,  
(512) 389-4355, [neil.thomas@tpwd.state.tx.us](mailto:neil.thomas@tpwd.state.tx.us)



## Project: Environmental Assessment Jersey Village, Harris County, Texas (2010 – 2011)

*Client: Harris County Flood Control District*

The Harris County Flood Control District (HCFC) E535-01 Environmental Assessment project is located in Jersey Village, Harris County, Texas, adjacent to a tributary of White Oak Bayou (HCFC Unit No. E135-00-00). The project site is located approximately 0.5-mile northeast of U.S. Highway 290 and approximately 0.4-mile east of Jones Road. The project site is approximately 42 acres in size and is the former site of the Jersey Meadow Golf Course. HCFC conducted this work through the Federal Emergency Management Agency's Hazard Mitigation Grant Program.

The project involved the construction of a stormwater detention basin to reduce the risk of flooding and future flood losses and damages to property in the project area, and CESI provided necessary environmental services and coordination.

CESI collected data for various environmental constraints within the project limits. This included performing a wetland delineation; vegetation characterization; habitat evaluation for federal and state-listed species; surveys for potential wildlife utilization on-site; cultural resources screening reviews; evaluation of potential hazardous materials within the project vicinity; collecting demographic data to evaluate socioeconomic conditions; and collecting data regarding

geology, soils, water quality and floodplains.

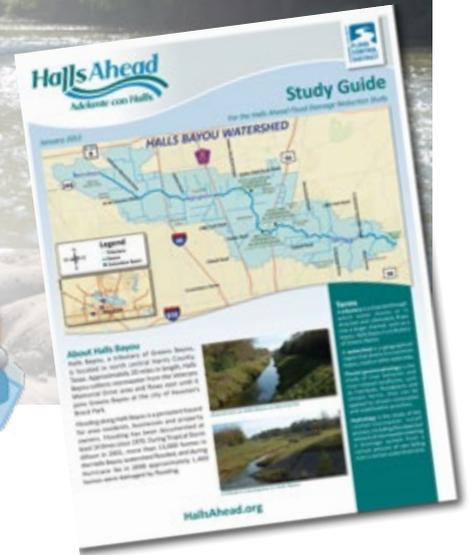
After data collection was complete, an evaluation of Action and No Action Alternatives was conducted to determine the extent of potential impacts to the human, physical and natural environments. The data collected, along with the results of the alternative analysis, was documented in an Environmental Assessment/Finding of No Significant Impact (EA/FONSI).

CESI coordinated with HCFC and FEMA regarding public outreach activities required for this project. CESI prepared a Public Notice that provided public awareness of the project. The Public Notice solicited participation and feedback from the public regarding the project.

The FONSI was signed by FEMA on June 30, 2011. Following the FONSI, HCFC could move forward with construction of the project in order to protect the public from flooding and its associated damages to property and infrastructure.

### **Client Contact:**

*Ms. Denise Wade, Harris County Flood Control District,  
(713) 684-4050, [denise.wade@hcfcd.org](mailto:denise.wade@hcfcd.org)*



## Project: Halls Ahead Flood Damage Reduction Study Public Involvement Services (2011 – present)

*Client: Harris County Flood Control District and Brown and Gay Engineers, Inc.*

Led by the Harris County Flood Control District, Halls Ahead is a multidisciplinary planning study for flood damage reduction in the Halls Bayou watershed. Located in north central Harris County, Texas, the Halls Bayou watershed is approximately 45 square miles in size and supports a population of more than 160,000 people. This FDR study combines traditional hydrology and hydraulic methodology with community values, fluvial geomorphology, and long-term planning concepts.

Since 2011, CESI has served as the community engagement lead for this flood damage reduction study. In this role, CESI has provided public noticing/outreach, facilitated a large-scale public meeting, coordinated media and advertising, and produced a seven-minute informational video. After experiencing low interest within the watershed community, CESI adapted the public outreach approach to organize and facilitate 15 community meetings between February and April 2012.

As the needs of the study changed, the Harris County Flood Control District identified the need for steady community input regarding the planning study, and the Halls Ahead Advisory Committee was formed in September 2012.

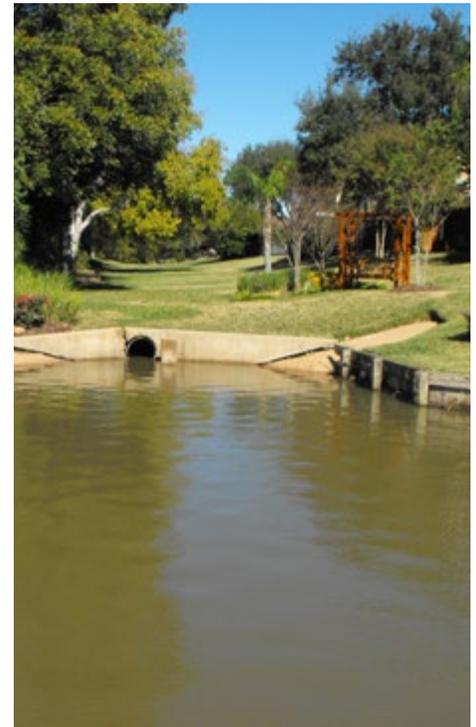
CESI currently designs and hosts monthly advisory committee meetings to maintain full participation and achieve informed feedback from this group of 15 community and agency representatives. As part of the Advisory Committee effort, CESI designed a series of highly successful brainstorming meetings to gather the Advisory Committee's feedback for a draft vision plan during winter 2012.

Through the Advisory Committee's continued participation, CESI aided the study team by identifying key community values that provide the foundation for the overall Halls Ahead flood damage reduction plan. This study is currently ongoing and is projected to conclude in fall 2013. For more information about this project, visit [www.HallsAhead.org](http://www.HallsAhead.org)

### **Client Contact:**

*Mr. Alan Potok, Assistant Director, Harris County Flood Control District, (713) 684-4000, [alan.potok@hcfcd.org](mailto:alan.potok@hcfcd.org)*

*Mr. Lee Lennard, Senior Vice President, Brown & Gay Engineers, (281) 558-8700, [llennard@browngay.com](mailto:llennard@browngay.com)*



## Project: Sugar Creek Subdivision Drainage Improvements Project (2011 – 2012)

*Client: The City of Sugar Land and Dannenbaum Engineering Corporation*

Sugar Creek Subdivision, located in the City of Sugar Land, Texas, has experienced severe flooding problems due to aging and inadequate drainage infrastructure. The City of Sugar Land funded a study in 2005 to identify drainage deficiencies in the watershed. This analysis found that lack of stormwater inlet capacity and a lack of design for peak capacity during extreme storm events result in drainage deficiencies.

The City of Sugar Land hired Dannenbaum Engineering Corporation to re-design a functional stormwater system that would alleviate flooding issues experienced by the Sugar Creek Subdivision. CESI provided environmental consulting services for this drainage improvement project.

CESI collected data for various environmental constraints within the project limits. This included performing a wetland

delineation, habitat evaluation for federal and state-listed species, and cultural resource screening level reviews. After data collection was complete, CESI evaluated the project plans to determine permitting requirements.

CESI obtained data in an efficient and effective timeframe to document the proposed project and anticipated effects to the surrounding natural environments. Based upon a review of the project plans, CESI determined that the project would qualify for a non-reporting Nationwide Permit 3 for maintenance activities, thus eliminating the need for coordination with the U.S. Army Corps of Engineers.

**Client Contact:**

*Mr. Alejandro Flores, P.E., Dannenbaum Engineering Corporation, (713)527-6365, [al.flores@dannenbaum.com](mailto:al.flores@dannenbaum.com)*



## Project: Mason Creek Hike and Bike Trail (2011)

*Client: Harris County Public Infrastructure Department*

Harris County Public Infrastructure Department (HCPID) proposed to improve pedestrian and bike access surrounding Mason Creek and associated tributaries in southwestern Harris County, Texas. The project consisted of grading, reshaping, and construction of a 10-foot wide reinforced concrete trail and retaining wall, hand railing, relocation of storm sewer outfalls, and construction of two pedestrian bridges spanning Mason Creek. The concrete trails, which connected to existing asphalt trails on the high banks of Mason Creek, were proposed to be directed underneath existing bridge crossings to improve mobility and safety to recreational pedestrians and bikers.

CESI surveyed the location of the Ordinary High Water Mark (OHWM) within the project area. Impacts to jurisdictional waters resulting from construction of the proposed project, included 0.001 acre of permanent impacts and 0.042 acre of temporary impacts associated with replacement of stormwater outfalls.

Using the information obtained from the delineation of the OHWM, CESI prepared a Pre-Construction Notification (PCN) for a Nationwide Permit (NWP) and submitted this information to the United States Army Corps of Engineers (USACE) for approval. The PCN included a description of the project, a listing of anticipated impacts, associated drawings and figures depicting the project plans, and a Tier I Certification Checklist for Section 401 certification from the Texas Commission on Environmental Quality.

CESI coordinated with the USACE to process the PCN within the 45-day government allotted timeframe for processing these types of permits. The PCN was approved by the USACE on August 22, 2011, a timeframe of less than 30 days.

**Client Contact:**

*Mr. Dwayne Rogers, HCPID, (713)755-7144,  
[dwayne.rogers@hcpid.org](mailto:dwayne.rogers@hcpid.org)*



## Project: 3,000-acre Master Planned Residential Subdivision (2011)

*Client: Confidential*

The project site, an existing 3,000-acre residential subdivision, is located between Interstate Highway (IH) 45 and State Highway SH (59) in southern Montgomery County, Texas. Prior to Crouch Environmental Services, Inc. (CESI) involvement, the client received numerous cease and desist orders and administrative appeals from the U.S. Environmental Protection Agency (EPA) and United States Army Corps of Engineers (USACE) for alleged violations of Sections 401, 402, and 404 of the Clean Water Act. As a leading environmental firm in the Houston area, CESI was hired as an expert witness on behalf of the client.

The community provides luxury, single-family homes within a master-planned residential subdivision. The community also includes designated commercial lots, green space, and a series of lakes and other water features for aesthetic and recreational purposes. The development incorporates walking trails, landscaped entrances, and public utilities including public water, underground transmission lines, and public sewer lines. Prior to development, the project site was comprised of undeveloped upland forests, active agricultural land, intermittent and ephemeral tributaries, emergent freshwater wetlands, and various other vegetative communities.

The CESI Environmental Team became involved with this project as a recommended consulting firm following initiation

of legal action against the client for allegedly unpermitted impacts to waters of the U.S., including wetlands. On behalf of the client, CESI provided expert technical consulting services related to wetlands, Sections 404/402/401 of the Clean Water Act, Section 10 of the Rivers and Harbors Act, and regulatory guidance issued pertaining to wetlands and waters of the U.S. by the USACE and the EPA. CESI performed preliminary site visits for comparison surveys of previously delineated areas, collection of forensic data related to wetlands and other waters of the U.S., threatened and endangered species evaluation, navigable waters assessment, and other various environmental surveys. CESI assisted the client with the preparation of depositions and expert testimony for witness preparation, and figures and exhibits related to the comparison of data for the project site. Due to their diligent efforts, CESI was assigned additional work, including water quality sampling, USACE records research and literature review, and soil testing and classification.

Through a broad and effective coordination approach, CESI assisted the client and the client's attorney in evaluating the effects of the alleged charges and coordinating project defense.

**Client Contact:**  
*Confidential*



## Project: Luce Bayou Interbasin Transfer Project (2009 – 2012)

*Client: AECOM*

*Owner: Coastal Water Authority*

The Luce Bayou Interbasin Transfer project is a 23-mile conveyance project designed to transfer surface water from the Trinity River in Liberty County, Texas, to Lake Houston in Harris County, Texas. The purpose of this project is to increase the available water capacity that can be used to supply Harris County with clean, potable water as demand for this resource increases over time. In addition, water from Lake Houston, supplemented with supply from the Trinity River through the Luce Bayou project, may also play a vital role in providing for future water demands in Montgomery County. It is anticipated that Montgomery County will eventually convert from the current primarily groundwater supply to a surface system that will draw on the supply provided by this project.

CESI participated as an active member of the Environmental Team led by AECOM, conducting numerous environmental surveys on approximately 1,200 acres of land. In a matter of hours, CESI increased its staff by eight people and mobilized field biologists and technicians to meet the urgent needs of the project. These included wetland delineation, endangered species assessment, biological assessment, habitat modeling, and a zebra mussel management and control plan. CESI developed a compensatory mitigation plan, a wetland evaluation report, threatened and endangered species survey report, and various other environmental documents for the project.

CESI was required to analyze the project site utilizing several different ecological modeling procedures, including Wetland Evaluation Technique 2.0 (WET 2.0), the Modified Charleston Method, and Interim Hydrogeomorphic Model (iHGM). CESI processed each model independently on approximately 1,200 acres of the project site and then compared the results of each model to determine appropriate mitigation for potential impacts to project site. CESI, in consultation with the client and several resource agencies, determined the appropriate model to utilize in restoration and mitigation of activities. Through a broad and effective communication approach, project information was compiled including intensive field surveys, agency input, and stakeholder input and design. CESI is actively involved in the development of final versions of the referenced reports and compilation and creation of the final Environmental Impact Statement.

**Client Contact:**

*Ms. Kelly Krenz, AECOM, (713) 267-2849,  
kelly.krenz@aecom.com*

*Mr. Don Ripley, P.E., Coastal Water Authority,  
dripley@coastalwaterauthority.org*



## Project: Bay Area Park Canoe Launch and Shoreline Restoration (2009 – 2011)

Client: Harris County Public Infrastructure Department – Architecture and Engineering Division

Bay Area Park is a public park located in southeast Harris County, Texas, and is maintained by the Harris County Public Infrastructure Department – Architecture and Engineering Division (HCPID-AED). This public amenity is located 1.20 miles west-southwest of the Red Bluff Road/Bay Area Boulevard intersection on the eastern shore of tidally-influenced Armand Bayou. To meet expanding interest in outdoor activities in the growing neighborhoods of southeast Harris County, HCPID-AED constructed a canoe launch in Bay Area Park to facilitate water-based recreational activities, and created 0.11 acre of saltmarsh wetlands to manage erosion and contribute to the ecological stability of Armand Bayou.

CESI developed, coordinated, and implemented all necessary environmental studies including wetland delineation, endangered species assessment, and cultural resource records reviews. Following the completion of environmental studies, CESI acted as a liaison between stakeholders in the environmental process, including HCPID-AED and various resource agencies. Utilizing input received at these meetings, CESI worked with HCPID-AED to develop a Section

404/401 permit application and a coastal lease application through the Texas General Land Office (GLO).

CESI harvested vegetation from a GLO-approved donor area, transported it to the project site, and planted this donor vegetation to establish saltmarsh along a highly eroded shoreline. CESI was also responsible for monitoring the saltmarsh restoration area utilizing pre-determined success criteria for a period of five years per GLO requirements.

CESI successfully obtained the necessary permits for impacts to Waters of the U.S. and for establishment of the saltmarsh restoration site. CESI subsequently planted the saltmarsh restoration site, and it is currently flourishing with near 100 percent vegetation cover. This project restored a portion of the shoreline of Armand Bayou and has provided a net benefit to the ecology of the Armand Bayou watershed.

### Client Contact:

Ms. Sonia Phillips, HCPID-AED, (713) 755-7042,  
[sonia.phillips@hcpid.org](mailto:sonia.phillips@hcpid.org)



## Project: Powderhorn Ranch Marina on Matagorda Bay (2008 – present)

*Client: Mr. Greg Betterton*

Powderhorn Ranch Marina on Matagorda Bay is a 183-acre site located on the west side of Matagorda Bay, approximately five miles north of the town of Port O'Connor in Calhoun County, Texas. The purpose of the project is to provide an economically viable, bayside multi-use community with direct water access to Matagorda Bay and the Gulf of Mexico and to provide docking facilities and associated marine structures primarily for deep-draft offshore pleasure and fishing craft. The site is comprised of open water, submerged bay bottom habitat, emergent fresh and salt water wetlands, and upland communities.

CESI submitted a United States Army Corps of Engineers (USACE) Section 404/401 Individual Permit application to authorize construction of the waterfront residential community, including development of access canals and breakwaters into Matagorda Bay, a saltwater marina excavated from uplands, and associated roadways and stormwater management facilities. CESI prepared an application to the Texas General Land Office for a permit to lease coastal submerged land that would be required

for the construction of the proposed access channel and breakwaters in Matagorda Bay.

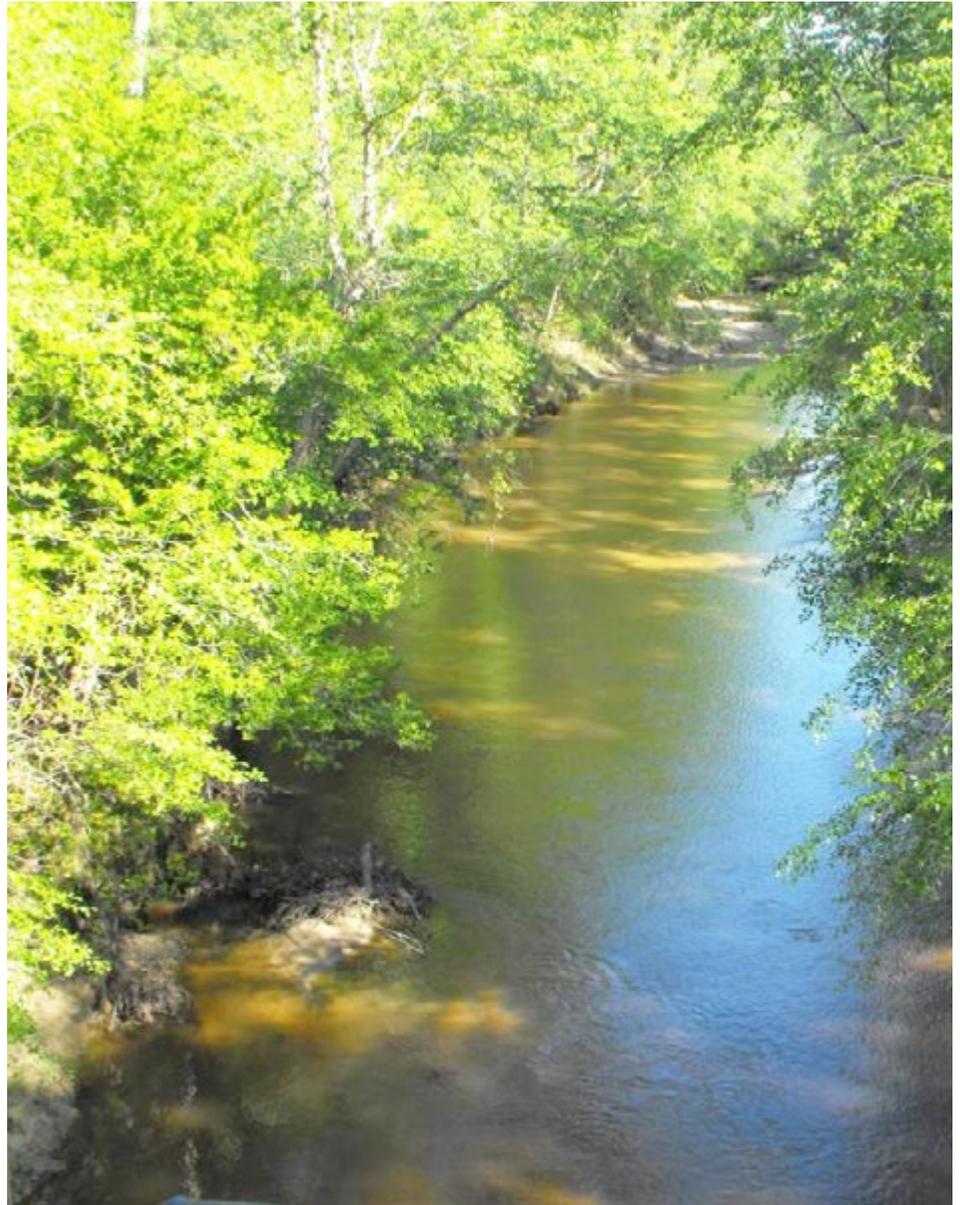
CESI conducted numerous environmental surveys, including wetland delineation, threatened and endangered species assessment, essential fish habitat assessment, seagrass and oyster bed surveys, cultural resource screening level review, underwater cultural resource survey, pedestrian survey with shovel testing and backhoe trenching, and a water quality flushing analysis were conducted.

Subsequent to completion of the environmental studies, CESI coordinated with project engineers to develop a site plan that minimized impacts to regulated resources. CESI developed a comprehensive mitigation plan to compensate for unavoidable impacts, including the creation of nine acres of freshwater wetlands, 38 acres of open water/bay bottom habitat, 0.15 acre of sand flats, 0.05 acre of seagrass bed and nine acres of wetland preservation.

**Client Contact:**

*Mr. Greg Betterton, (941) 488-4422, [greg@bettertonlaw.com](mailto:greg@bettertonlaw.com)*





## Project: 5,000-acre Lake Houston Wilderness Park (2008-2009)

*Client: SWA Group and the City of Houston*

The Lake Houston Wilderness Park is located north of Lake Houston along Farm-to-Market Road (FM) 1485 between United States Highway (US) 59 and Huffman-New Caney Road, in the town of New Caney, Texas. The City of Houston, through SWA Group, proposed to construct recreational facilities within the existing park, including hike and bike trails, picnic tables, sports fields, and an interpretive center.

CESI was subcontracted through the SWA Group to submit the necessary permit applications, including a United States Army Corps of Engineers (USACE) Section 404/401

permit and a Texas Commission on Environmental Quality (TCEQ) Stormwater Pollution Prevention Plan (SWPPP), to authorize construction and subsequent development of access roads, trails, and an interpretive center. CESI also conducted environmental surveys on the 5,000-acre site, including wetlands delineation, endangered species assessment, and cultural resource records review.

**Client Contact:**

*Mr. James Vick, SWA Group, (713) 868-1676,  
jvick@swagroup.com*



## Project: Tom Bass Park, Alexander Deussen Park, and Eisenhower Parks (2009 – 2010)

*Client: Harris County Public Infrastructure Department – Architecture and Engineering Division/ City of Houston Parks and Recreation Department.*

Tom Bass Park, Alexander Deussen Park, and Eisenhower Park are three parks maintained by the City of Houston Parks and Recreation Department. Tom Bass Park is located near the southeast corner of Beltway (BW) 8 and State Highway (SH) 288, while Alexander Deussen Park and Eisenhower Park are located on the southwestern shore of Lake Houston. Harris County Public Infrastructure Department – Architecture and Engineering Division (HCPID-AED) proposed to construct recreational facilities within these existing parks, including dog parks, hike and bike trails, picnic tables, and sports fields.

CESI implemented and incorporated numerous environmental surveys, including wetlands delineations, endangered species assessments, and cultural resource records review and pedestrian surveys with shovel testing. CESI coordinated with the client and several subcontractors to obtain the necessary data to complete these reports.

Following the completion of initial environmental studies, CESI acted as a liaison between the various stakeholders in the environmental process, including holding meetings to discuss the concept with local resource agencies and stakeholders. Utilizing the input received at these meetings, CESI worked with HCPID-AED to develop consistent environmental documentation and section 404/401 permit applications.

Through a broad and effective coordination approach, project information was compiled from various sources including intensive field surveys, agency input, and stakeholder input and design. CESI obtained section 404/401 permits for impacts to waters of the U.S. in a timely and ultimately cost-saving fashion.

**Client Contact:**

*Ms. Kathy Williams, HCPID-AED, (713) 755-1154, [kathy.williams@hcpid.org](mailto:kathy.williams@hcpid.org)*



## Project: City of La Porte Phase I Environmental Site Assessment (2010)

*Client: City of La Porte, Texas*

A Phase I Environmental Site Assessment (ESA) was conducted on an 81-acre tract of undeveloped land adjacent to Bay Area Boulevard in the City of La Porte, Texas. The Phase I ESA investigation was conducted in accordance with American Society for Testing and Materials (ASTM) E-1527-05 standards.

Prior to performing a field investigation of the project site, CESI conducted a review of state and federal environmental regulatory databases to determine if any recognized environmental conditions (RECs) previously existed on or in the vicinity of the project site. Following the regulatory database review, CESI performed an on-site field investigation to visually assess the site for RECs. This included review of existing structures, equipment, land use, public thoroughfares, water bodies and wetlands,

wastewater discharge, potable water sources, wells, sewage disposal systems, floor drains and sumps, stains and corrosion, fuel sources, above and underground storage tanks, asbestos-containing materials, polychlorinated biphenyls, lead-based paint, hazardous substances, stained soils, landfills, surface impoundments, stressed vegetation, and noxious odors, among others. CESI conducted interviews with adjacent landowners regarding their knowledge of environmental concerns in the surrounding area.

No RECs were found during investigations. The City of La Porte used this information presented in the Phase I ESA report to assist in evaluating the potential environmental concerns at the site for real estate acquisition purposes.

**Client Contact:**

*Corby D. Alexander, City of La Porte, 281-471-5020*



## Project: 900-acre Sanctuary at Costa Grande Phase I and II (2007 – 2012)

*Client: D.H. Texas Development*

The Sanctuary at Costa Grande site is located on the west side of Matagorda Bay south of State Highway (SH) 185 between Seadrift and Port O'Connor, Texas. D.H. Texas Development planned to construct a luxury waterfront residential community on the Gulf Intracoastal Waterway. The 900-acre proposed development site was a mosaic of open water, submerged habitat, emergent fresh and salt water wetlands, and upland communities. The project site was located in close proximity to the Aransas National Wildlife refuge, which is designated as critical habitat for an endangered bird species, the whooping crane (*Grus americana*). This project required close coordination with the U.S. Fish and Wildlife Service to ensure no adverse effects to whooping cranes.

CESI conducted environmental surveys to determine environmental constraints associated with the project prior to its design. Studies performed included a wetland delineation, endangered species assessment, biological assessment, a cultural resource records review and pedestrian survey, and an essential fish habitat assessment. Following the background environmental studies, CESI assisted in coordinating a United States Army Corps of Engineers (USACE) Section 404/401 permit to authorize construction of access canals and a marina adjacent to the Gulf Intracoastal

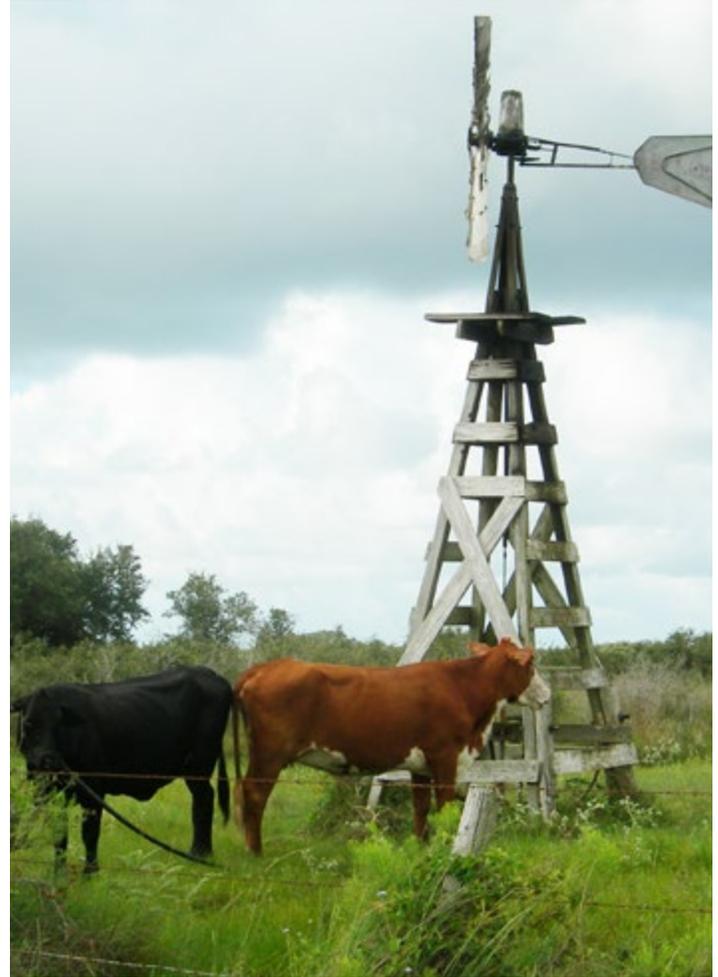
Waterway associated with development of the waterfront residential community.

CESI acted as a liaison between the various stakeholders throughout the environmental permitting process, including participating in meetings for discussion of the project design with regulatory and resource agencies and other stakeholders. CESI also assisted in the design, construction, and establishment of the various mitigation and restoration areas, including a 40-acre freshwater wetland, a 20-acre saltmarsh, and hundreds of acres of wetland preservation and restoration areas.

Through open and effective communication, CESI obtained Section 404/401 permits for impacts to Waters of the U.S. on behalf of the client in a timely manner. CESI conducted a five-year whooping crane monitoring program during and following project construction activities, which allowed construction of the project in the vicinity of critical habitat. The project was in line with the developer's schedule, in large part due to the efficiency of the CESI environmental team.

**Client Contact:**

*Mr. Darryl Hammond, D.H. Texas Development,  
(361) 576-3334, [dhammond@costagrande.com](mailto:dhammond@costagrande.com)*



## Project: 11,000-acre Property (2007-2008)

*Client: D.H. Texas Development*

The 11,000-acre project site is located on the west side of Matagorda Bay south of State Highway (SH) 185 between Seadrift and Port O'Connor, Texas. To take advantage of the landscape and aesthetic appeal, proximity to popular outdoor amenities, and growing demand for seaside single-family luxury housing, D.H. Texas Development employed Crouch Environmental Services, Inc. (CESI) to conduct numerous environmental studies to determine the feasibility of developing portions of the property into a master-planned, mixed use community in the heart of the Texas Coast.

The CESI Environmental Team conducted a wetland delineation on the 11,000 acre property. Following the delineation and subsequent preparation of a comprehensive wetland delineation report, CESI submitted a formal Waters of the U.S., Including Wetlands, Delineation to the United States Army Corps of Engineers (USACE) for an Approved Jurisdictional Determination (AJD). CESI worked closely with the USACE project manager to determine jurisdiction over all 543 individual features on the project site and accompanied

the USACE in the field multiple times throughout the course of the AJD process. CESI assisted the USACE in necessary fieldwork including soil samples, hydrology studies, and vegetation identification and collection.

CESI completed one of the largest Waters of the U.S., including Wetlands, AJD projects ever performed in the Galveston District of the USACE. Of the 2,476 acres of potentially jurisdictional features delineated on-site, the USACE only revised 0.1 acre through the AJD review process. CESI obtained the AJD from the USACE within one year of submitting the initial report to the USACE for review. Following CESI's efforts, D.H. Texas Development is currently analyzing its options to avoid and minimize negative impacts to existing wetlands. Despite the large size and scope of the project, CESI completed the work on time and within budget.

### **Client Contact:**

*Mr. Darryl Hammond, D.H. Texas Development,  
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## Project: 6,000-acre Falcon Point Ranch (2006 – present)

*Client: Urban Engineering and Surveying*

The 6,000-acre Falcon Point Ranch project site is located approximately 35 miles southeast of Victoria, Texas, near the town of Seadrift, in Calhoun County, Texas. A private developer planned to construct a luxury waterfront residential community known as “Falcon Point Ranch” on the Gulf Intracoastal Waterway. The approximately 6,000 acre site was comprised of open water, submerged habitat, emergent fresh and salt water wetlands, and upland communities.

CESI conducted numerous environmental surveys including wetlands delineation, endangered species assessment, biological assessment, species specific surveys, and cultural resource records review and pedestrian survey with shovel testing.

CESI acted as liaison between the various stakeholders in the environmental process including meetings to discuss the concept with local agencies and the public. Utilizing the

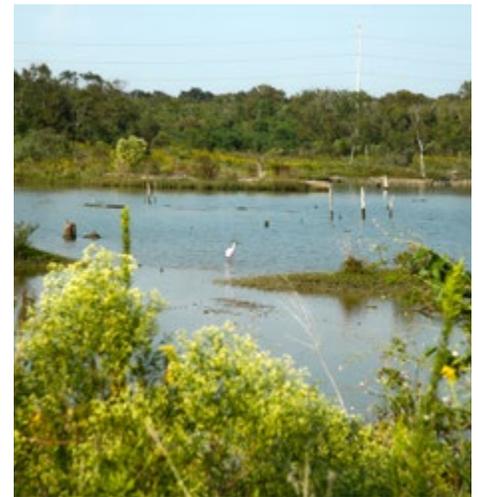
input received at these meetings, CESI worked closely with Urban Engineering and the various governmental agencies to develop the project in an environmentally sensitive coastal habitat and minimize impacts to ecological resources.

CESI submitted a United States Army Corps of Engineers (USACE) Section 404/401 permit application to authorize construction and subsequent development of access canals and a marina adjacent to the Gulf Intracoastal Waterway in connection with the waterfront residential community. CESI also worked closely with project engineers to design and construct wetland mitigation areas within this development.

### **Client Contact:**

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## Project: 420-acre Baytown Nature Center Master Plan (1996)

*Client: City of Baytown Parks and Recreation Department*

The Baytown Nature Center is a 420-acre premier wildlife and nature center located adjacent to the City of Baytown, Texas. The Baytown Nature Center is visited by thousands of tourists each year who enjoy viewing over 320 bird species; interesting hikes along nature trails; fishing in Burnett, Scott, and Crystal Bays; and picnicking near the children's interpretative playground on the San Jacinto Point Peninsula.

CESI developed a master plan for the San Jacinto Point Peninsula that enhanced existing beneficial park features, provided safer and easier access to more remote areas of the park, and illustrated areas that required improvement. The master plan highlighted areas where major site development would transform low quality habitat to excellent wildlife habitat, including the transformation of low quality uplands to both freshwater wetlands and saltmarsh habitat.

CESI provided a site layout with park amenities such as boardwalks, wildlife observation stations, wildlife habitat, and interconnected roads and trails.

CESI acted as liaison between the various stakeholders in the environmental process including meetings to discuss the design concepts and layouts with local agencies and stakeholders such as the City of Baytown and various resource agencies. Utilizing the input received at these meetings, CESI worked with the City of Baytown to develop consistent documentation and permit applications.

The master plan has been adopted by the City of Baytown, and CESI currently oversees various development projects associated with this plan.

**Client Contact:**

*Mr. Scott Johnson, Director – City of Baytown Parks and Recreation Department, (281) 420-6599*



## Project: Brownwood Marsh Restoration Project (1994-1995)

Client: French Limited Task Group

Environmental services for this project included:

- Project Mitigation Design
- Wetland Delineations
- Construction Impacts
- Environmental Permitting
- Land Use
- Hazardous Materials
- Soil Surveys
- Listed Species Survey
- Vegetation
- Cultural Resources
- Wildlife Surveys

This project was required as mitigation for impacts to wetlands by the French Limited Superfund Site. Twenty-eight potential sites were evaluated between the Lake Houston Dam and Galveston Bay. Conceptual designs were generated for the four top candidate sites. The former Brownwood Subdivision in Baytown, Texas, was selected as the preferred site, and a detailed design was generated for the mitigation project at this location.

CESI provided overall project management for site selection, permitting, design and construction of a new 60-acre coastal wetland at the site. The design included the creation of

40 acres of new saline marsh, 10 acres of deepwater channels allowing tidal influence from the bay, and 10 acres of forested islands supporting shallow freshwater ponds.

CESI obtained necessary permits for impacts to Waters of the U.S., cultural resources, and vegetation impacts on behalf of the client in a timely and ultimately cost-saving manner. Construction of the project began in November 1994 and was completed in June 1995. Planting of the new marsh was completed in August 1995. CESI was responsible for on-going maintenance of the site for five years as requested by the client and the state and federal oversight committee, including representatives from the Texas Natural Resource Conservation Commission, National Marine Fisheries Service, U.S. Fish and Wildlife Service, Texas General Land Office, and the Texas Parks and Wildlife Department. CESI and the client met regularly with these entities to ensure successful implementation of the project.

This successful site was later renamed as the "Baytown Nature Center." This project has been featured in magazines, newspapers, and television specials.

### Client Contact:

Mr. Scott Johnson, Director – City of Baytown Parks and Recreation Department, (281) 420-6599



## Project: Stormwater Quality Consulting Services (2009 – Present)

Client: Atkins and Port of Houston Authority

CESI provides stormwater quality consulting services in accordance with the Port of Houston Authority’s (POHA) Texas Discharge Pollutant Elimination System (TPDES) multi-sector general permit (MSGP) and Municipal Separate Storm Sewer System (MS4) permit. CESI is on-call 24 hours a day, 7 days a week over the duration of the project to sample stormwater effluent during storm events. CESI is responsible for sampling stormwater from three Port of Houston Terminals: Bayport Terminal, Barbour’s Cut Terminal and Turning Basin Terminal. As part of permit compliance activities, CESI was tasked with inspecting and screening 71 outfalls during dry weather for the presence of illicit stormwater discharges.

CESI regularly monitors weather and conducts stormwater sampling for both analytical and visual analysis using Texas Commission on Environmental Quality (TCEQ) sample collection guidelines. Project-specific data forms and Chain of Custody forms are collected with the samples. CESI follows the POHA Dry Weather Outfall Inspection, Sampling and Discharge Management Procedures Manual to facilitate outfall screening activities for the presence of illicit discharges.

In addition to stormwater sampling and outfall screening, CESI updated the existing storm sewer conveyance system maps for a large portion of POHA’s developed property, including Turning Basin Terminal, Industrial Park East Terminal, Manchester Wharves, Southside Wharves, Woodhouse Terminal, Sims Bayou Terminal, Bulk Materials Handling Terminal, Jacintoport Terminal, CARE Terminal, Barbour’s Cut Terminal, and Bayport Terminal.

For storm sewer mapping activities, CESI updated existing maps and created new maps for previously unmapped areas of the storm sewer conveyance system at many of the POHA properties. CESI mapped over 40 miles of storm sewer using sub-meter Global Positioning System technologies. CESI compiled attribute data associated with the storm sewer

systems, including the specific dimensions and materials of each of the components along the system, such as outfalls, inlets, culverts, pipes, manholes, and swales. All data was managed within a Geographical Information System (GIS) environment, enabling spatial analysis and map making.

CESI also developed a series of educational materials about stormwater pollution prevention for port users. Graphically designed, reader-friendly documents were created for each of the following user groups: port employees, contractors, and tenants. These are available online through the Port of Houston Authority website.

**Client Contact:**

Mr. Chad Richards, Atkins, (281) 529-4200, [chad.richards@atkinsglobal.com](mailto:chad.richards@atkinsglobal.com)

Ms. Dana Blume, Port of Houston Authority, (713) 670-2805, [dblume@poha.com](mailto:dblume@poha.com)





## Project: TransCanada Keystone XL Pipeline Project (2008)

TransCanada Keystone Pipeline, LP planned to develop a large-diameter crude oil mainline pipeline, approximately 1,375 miles in length with associated facilities. The project spanned from near Morgan, Montana, at the border between the United States and Canada to Steele City, Nebraska, and from Cushing, Oklahoma, to Nederland, Texas and onward to the Houston Ship Channel area.

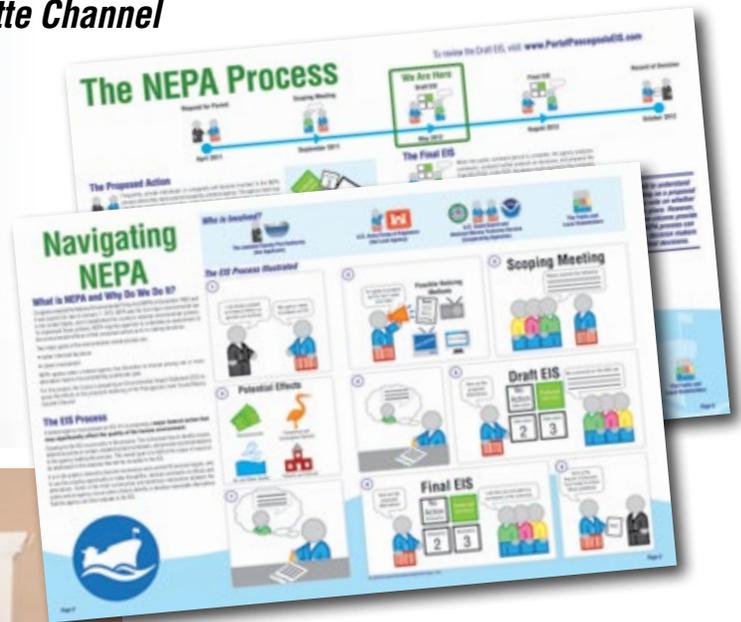
As a sub-consultant to ENSR, CESI provided environmental investigations for a 475-mile segment of the project between

Cushing, Oklahoma and Nederland, Texas. CESI organized and maintained a team of twelve full-time field biologists and technicians to delineate the 475-mile project area within nine months.

Environmental services provided include wetland delineations, threatened and endangered species assessments, Geographic Information Systems, and other support as required to complete this project on time and under budget.



Draft Environmental Impact Statement for the Proposed Widening of the  
**Pascagoula Lower Sound/Bayou Casotte Channel**  
**Jackson County, Mississippi**



**Project: Public Involvement for Environmental Impact Statement for the  
 Proposed Widening of the Pascagoula Lower Sound/Bayou Casotte Channel  
 Jackson County, Mississippi (2012)**

*Client: U.S. Army Corps of Engineers and ATKINS*

The U.S. Army Corps of Engineers (USACE), Mobile District, is preparing an Environmental Impact Statement for the proposed widening of the Pascagoula Lower Sound and Bayou Casotte navigation channels from Horn Island Pass to the turning basin in Bayou Casotte. The proposed project would reduce existing channel and harbor restrictions, thereby improving operating conditions and efficiency in the channel and harbor. The proposed project would improve the capacity of the port to handle current and future marine vessel traffic in an economical and efficient manner.

CESI worked with the Port of Pascagoula, the USACE Mobile District, and a third-party consulting team to provide NEPA-compliant public involvement services as required by this Environmental Impact Statement. This public involvement effort required clear internal communication and coordination between several federal and state agencies to thoroughly consider the applicant's

permit application. CESI developed a client-specific Public Involvement Management Strategy, compiled and maintained stakeholder databases, and created communications tools culminating with an agency workshop and public hearing in May 2012. All public involvement efforts were documented in a comprehensive Public Hearing Summary Report by CESI. For more information about this project, visit [www.PortofPascagoulaEIS.com](http://www.PortofPascagoulaEIS.com)

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*Mr. Philip Hegji, Project Manager, U.S. Army Corps of  
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## Project: Bayport Container Terminal Environmental Impact Statement (1999-2007)

*Client: URS Corporation and United States Army Corps of Engineers*

The purpose of the project was to address the shortage of capacity in existing terminal facilities including cargo and liquid transports. The Port of Houston (POHA) designed the Bayport Container Terminal site to handle standardized cargo containers and provide overflow capacity for the nearby Barbours Cut Terminal. The preferred alternative included the creation of a 756-acre container terminal complex, including wharves, container yards, gate facilities, intermodal yards, ancillary and support facilities, 131-acre cruise ship terminal, and a 156-acre buffer and stormwater management area. During the Section 404/401 permitting process, the United States Army Corps of Engineers (USACE) determined that the development of a large shipping container terminal constituted a large federal action and an Environmental Impact Statement (EIS) was required.

CESI was tasked with preparing the comprehensive biological sections of the EIS, including an objective appraisal of the impacts associated with the project. This effort required close coordination between the local sponsor for the project (Port of Houston Authority) and the government technical representatives with the USACE in the preparation of the document. The EIS included an in-depth assessment of the environmental impacts to the project site and its surrounding area including potential effects to topography and soils, geology, hydrology and drainage, climate and relative sea level rise, water and sediment quality, vegetation, aquatic and terrestrial habitats, wildlife resources, fisheries and essential fish habitat, threatened and endangered species, invasive species, visual and aesthetic resources and recreational resources.

CESI executed a comprehensive environmental review strategy incorporating numerous environmental surveys to incorporate into the EIS document and overarching cumulative primary and secondary impacts sections of the EIS document. These surveys aided URS in obtaining data that allowed for a thorough assessment of the potential environmental impacts that would result from construction of the preferred alternative. CESI worked diligently with URS and the USACE to develop consistent documentation that effectively and precisely communicated the impacts of the proposed project.

The project began in 1999 with the submittal of the draft EIS. CESI assisted URS and the USACE through the entire NEPA process, acting as liaison between stakeholders. CESI completed the required biological surveys, compiled the appropriate environmental data, and prepared the corresponding environmental documentation within a short window of time due to budget constraints and scheduling conflicts. Due to CESI's meticulous work effort and ability to work as a team with URS and the USACE, this project was approved in an efficient manner and a Record of Decision (ROD) was issued in December 2003 while the Section 404/402 permits were issued the following January. The project was constructed beginning in 2004 and opened to the public in 2007.

### **Client Contact:**

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fred.anthamatten@usace.army.mil*



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- Award-Winning Project Branding
- The “12-Step Conceptual Planning Process” and Accessible Graphics
- E-blast Public Notices
- Public Service Announcement for Television Broadcast
- Public Meeting Announcement Posters
- Project Newsletter and Information Sheets
- Eighteen-minute Project Video (featuring multiple client interviews, on-site B-roll, and 3D animated graphic renderings)
- Online support



## Project: Pelican Island Container Terminal Conceptual Planning Study (2009-2011)

Client: Port of Galveston and Port of Houston Authority (AECOM)

Pelican Island, located three miles from the deep waters of the Gulf of Mexico, provides a prime natural location for a port facility. To take advantage of this opportunity, the Port of Houston Authority (POHA) and Port of Galveston (POG) partnered to investigate the feasibility of placing a container terminal at Pelican Island.

Both ports recognized that public involvement and education would be essential to the planning process for a project of such magnitude. In 2009, CESI was hand-picked to join the consulting team (led by AECOM Corporation) as the public involvement lead for the Pelican Island Container Terminal Conceptual Planning Study.

The CESI Communication team developed and implemented a full-fledged communications strategy incorporating messaging and goals of both POHA and POG. This strategy included a twelve-step planning process that the entire project followed, providing multiple opportunities for public input throughout the study. A branding system was created to define the project's identity, and a comprehensive stakeholder database was developed in concert with both ports.

CESI hosted numerous initial stakeholder meetings to discuss the concept with local agencies and stakeholders. Utilizing the input received at these meetings, CESI worked with the project team to develop consistent messaging and opportunities for dissemination. This included the production of a full range of print, online, and audiovisual tools to raise public understanding and awareness.

A formal public meeting was held on June 14, 2010, to release the conceptual design alternatives to the public and receive

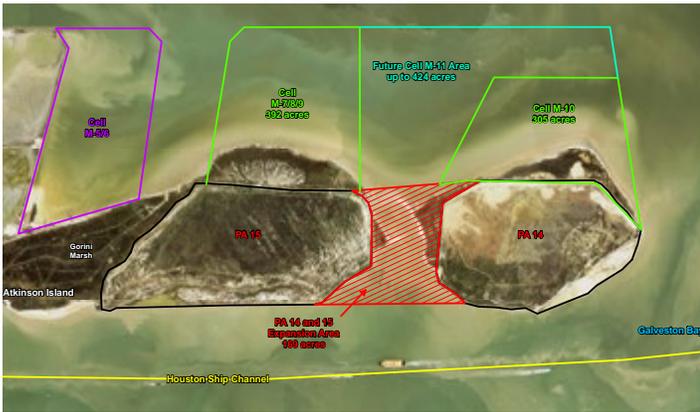
comments. The meeting featured a project-specific open house with multiple electronic and static display stations and a twenty-minute informational video. In addition to project newsletters, meeting advertisements, and media relations support, the CESI team provided event coordination, a staffed registration booth, and full audiovisual support. While the project received notable media attention, coverage was impartial and consistent with messaging developed by the team.

Following the well-attended public meeting, public comments were received through mail and through a project email address. CESI catalogued all comments and organized them in a formal public involvement summary for consideration by both ports.

Through a broad and effective communications approach, a variety of project information was made available to project stakeholders and surrounding communities. Thus, the public was able to make informed decisions, impart valuable knowledge, and ask relevant questions about the container terminal concepts at Pelican Island. Following this process, the study team achieved findings that were both technically sound and socially relevant, providing POHA and POG with an accurate, reliable, and valuable planning forecast tool for their future undertaking.

### Client Contact:

Mr. Michael Mierzwa, Director, Port of Galveston,  
(409) 766-6113, [mmierzwa@portofgalveston.com](mailto:mmierzwa@portofgalveston.com)



## Project: Expansion of Dredged Material Placement Areas 14 and 15 for the Houston Ship Channel (2009 – 2010)

*Client: Atkins and U.S. Army Corps of Engineers*

The purpose of this project was to address the shortage of capacity for the placement of dredged material generated during maintenance dredging operations within the Houston Ship Channel, specifically the Upper Bay reach. The preferred alternative for the proposed project included the expansion of dredged material placement capacity by expansion of existing upland placement areas #14 and #15 to include 169 acres of land for upland placement of dredged material. In addition, approximately 1,121 acres of beneficial use marsh areas were provided to further increase dredged material placement capacity, while also creating critical estuarine habitat for area wildlife within the Galveston Bay system.

In compliance with the National Environmental Policy Act, CESI prepared a comprehensive Environmental Assessment, including an objective appraisal of the impacts associated with the project. This effort required close coordination between the local sponsor for the project (Port of Houston Authority) and technical representatives with the United States Army Corps of Engineers (USACE) in the preparation of the document. The Environmental Assessment included a detailed assessment of the environmental impacts to the project site and its surrounding area including potential effects to topography and soils, geology, hydrology and

drainage, climate and relative sea level rise, water and sediment quality, vegetation, aquatic and terrestrial habitats, wildlife resources, fisheries and essential fish habitat, threatened and endangered species, invasive species, air quality, noise, traffic and transportation, cultural resources, socioeconomic resources, hazardous wastes, visual and aesthetic resources and recreational resources.

CESI executed numerous environmental surveys including a wetlands assessment, threatened and endangered species assessment, vegetation assessment, biological assessment, habitat evaluation procedure, and historical records reviews of various publicly available environmental databases. These surveys allowed for a thorough assessment of the potential environmental impacts that would result from construction of the preferred alternative.

The project was fast tracked through the American Recovery and Reinvestment Act of 2009, and CESI was able to obtain a Finding of No Significant Impacts (FONSI) for the proposed project in a matter of a couple of months.

### **Client Contact:**

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# PORT EVERGLADES

BROWARD COUNTY, FLORIDA



## Project: Port Everglades Master/Vision Plan Video Production Broward County, Florida (2011)

*Client: Broward County Port Everglades Department and AECOM*

AECOM led implementation of the Master/Vision Plan at Broward County's Port Everglades, approved by the Broward County Board of Commissioners and adopted into the State of Florida Comprehensive Plan. The plan covers all aspects of Port Everglades operations, from containerized cargo to handling of liquid bulk to state-of-the-industry cruise facilities. Both AECOM and CESI have a unique understanding of Port Everglades facilities.

The Master/Vision Plan sets the course for the successful future of Port Everglades over a twenty-year horizon. Most essentially, the Master/Vision Plan addresses Port Everglades' greatest need – increasing berth capacity and flexibility to handle more vessels simultaneously and to accommodate more types and sizes of vessels in the future.

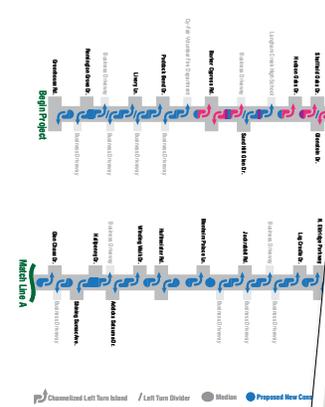
CESI partnered with AECOM to provide the award-winning "Port Everglades Master/Vision Plan" video production in

English and Spanish for an international market. The video included three-dimensional renderings and animations created in-house by CESI and were used to provide a virtual tour through the components of the Port Everglades Master Plan as directed by AECOM. This video production won a 2012 Telly Award as an outstanding video in the "Government Relations" category. This video showcases the Port Everglades Master Plan prepared by AECOM and was used to inform users, legislators, local public officials and many other interested parties. View this video at the following link: <http://www.broward.org/port/masterplan/>

**Client Contact:**

*Ms. Lori Baer, Marine Market Segment Lead, AECOM, (954) 745-7254, [loribaer@aecom.com](mailto:loribaer@aecom.com)*

*Mr. Steven Cernak, Chief Executive/Port Director, Port Everglades, (954) 468-3516, [scernak@broward.org](mailto:scernak@broward.org)*



**PROPOSED IMPROVEMENTS**  
**FM 529** Greenhouse Road to US Highway 290  
 Harris County, Texas  
 Texas Department of Transportation (CSJ 1006-01-068)

**Welcome to the Public Meeting**  
 The Texas Department of Transportation (TxDOT) solicits your input for the proposed project for the FM 529 Roadway Improvement project.

**About the Proposed Project...**  
 The proposed project consists of improvements of Farm to Market Road (FM) 529 from Greenhouse Road east to US Highway (US) 290. Proposed improvements would include the conversion of the center two-way center-left-turn lane to a raised median with the addition of turn lanes and channelized turn islands at adjacent properties. This project would also result in more existing raised medians within the project limits. The proposed project length is approximately 8.05 miles.

**Project Need and Purpose**  
 The FM 529 corridor has experienced increasing traffic flow since construction, and as a result, automobile accidents near and along associated with traffic congestion have increased. Automobile accidents, and continued regional growth and development, projected traffic volumes indicate that the corridor will continue to experience increasing traffic volume. This anticipated growth in traffic will continue to exacerbate the demands on the current infrastructure if improvements are not made to address existing issues.

**The purpose of the project is to:**

- High incidence of automobile accidents
- Reduce traffic congestion
- Improve the area's mobility and safety

## Project: Farm-to-Market 529 - Greenhouse Road to US 290 Access Management Study and Categorical Exclusion Harris County, Texas (2011-2012)

Client: Rodriguez Transportation Group, Inc. and Texas Department of Transportation

This roadway improvement project, sponsored by the Texas Department of Transportation (TxDOT) is located along Farm-to-Market (FM) 529 from Greenhouse Road to United States Highway (US) 290 in Harris County, Texas.

The purpose of the project is to improve the mobility, safety, and quality of life for the people traveling along FM 529. The 8-mile roadway project included the conversion of the center left-turn lane of FM 529 to a raised median to control roadway access to adjacent properties.

In coordination with the project design engineers, CESI provided environmental study and NEPA compliance, including public involvement services.

CESI collected data for various environmental constraints within the project limits. This included performing a wetland delineation, habitat evaluation, vegetation survey, surveys for potential wildlife utilization, and water quality analysis. After data collection was complete, an evaluation of the potential

impacts to the human, physical and natural environments was conducted. The data collected was documented in a Categorical Exclusion (CE) to satisfy requirements of the National Environmental Policy Act (NEPA).

CESI also provided public involvement services for this project, including publishing public notice of the public meeting, developing informational handouts and displays, and conducting a well-attended public meeting.

The FM 529 Access Management Study CE received environmental clearance with TxDOT approval on July 27, 2012. CESI conducted all studies, compiled the CE, and received environmental clearance within a little over a year. The environmental clearance allowed the project to proceed to the next stage of project development.

**Client Contact:**  
 Mr. Brock Miller, Rodriguez Transportation Group, Inc.,  
 (832) 220-1508 ext. 201, bmillier@rtg-texas.com



## Project: Congress Avenue - at Buffalo Bayou (2010) City of Houston, Harris County, Texas

*Client: Rodriguez Transportation Group, Inc.*

*Owner: Texas Department of Transportation/City of Houston*

The City of Houston proposed to replace an existing 180-foot bridge located at Congress Avenue over Buffalo Bayou at the northern edge of downtown Houston in Harris County, Texas. The project included construction of a pile-supported bridge structure, including asphalt overlay grading, two pedestrian ramp crosswalks, signal modification, and pavement marking. The project was partially funded by the Texas Department of Transportation (TxDOT).

CESI collected data for various environmental constraints within the project limits. This included performing a wetland delineation; vegetation characterization; habitat evaluation for federal and state-listed species; surveys for potential wildlife utilization on-site; cultural resources screening reviews; evaluation of potential hazardous materials within the project vicinity; collection of demographic data to evaluate socioeconomic conditions; and collection of data regarding geology, soils, water quality and floodplains. After data collection was complete, an evaluation of the extent of potential impacts to the human, physical and natural environments was conducted in accordance with the National Environmental Policy Act (NEPA). Data collected, along with the results of the impacts analysis, was documented in a Programmatic Categorical Exclusion

(PCE) performed in accordance with Texas Department of Transportation Standards of Uniformity.

CESI assisted TxDOT with coordination with the U.S. Coast Guard on Section 9 Rivers and Harbors Act permitting. Through CESI's efforts, in conjunction with TxDOT, the U.S. Coast Guard determined that a bridge permit was not required for this project.

CESI prepared a pre-construction notification (PCN) under Nationwide Permit (NWP) 14 for the proposed project and coordinated this effort with TxDOT and the U.S. Army Corps of Engineers (USACE) Galveston District. The PCN and issuance of the NWP 14 occurred in less than 30 days, which is shorter than the typical USACE NWP processing timeframe. CESI's extensive knowledge of the permitting process and thorough application package resulted in a timely review and approval by the USACE.

The PCE for the project was approved in May 2010. The NWP 14 was approved in June 2010. The construction project was completed on schedule.

**Client Contact:**

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## Project: State Highway 146 - Fairmont Parkway to State Highway 3 Harris and Galveston County, Texas (2010-2012)

*Client: Michael Baker, Jr. Inc./ Texas Department of Transportation*

The project is located along State Highway (SH) 146 from Fairmont Parkway to SH 3 in Harris and Galveston counties. The project traverses multiple cities, including La Porte, Shoreacres, Pasadena, Kemah, Seabrook, Bacliff, Texas City, and La Marque. The project includes three separate Segments of Independent Utility (SIUs): Fairmont Parkway to Red Bluff Road, Red Bluff Road to FM 518, and FM 518 to SH 3. Each of these SIUs were evaluated individually for potential impacts to the human, physical and natural environments. The proposed include widening the existing roadway from four to six lanes, adding frontage roads, grade separated overpasses, direct connectors, and express lanes.

CESI collected data for various environmental constraints within the project limits. This included performing a wetland delineation; vegetation characterization; habitat evaluation for federal and state-listed species; surveys for potential wildlife utilization on-site; essential fish habitat (EFH); and water quality. After data collection was complete, an evaluation

of the extent of potential impacts to the human, physical and natural environments was conducted in accordance with the National Environmental Policy Act (NEPA). The data collected, along with the results of the impacts analysis, was documented in an Environmental Assessment/Finding of No Significant Impact (EA/FONSI).

CESI prepared a pre-construction notification (PCN) under Nationwide Permit (NWP) 14 for the grade separated overpasses and connectors associated with the Fairmont Parkway to Red Bluff Road SIU. This effort was coordinated with TxDOT and the U.S. Army Corps of Engineers Galveston District (USACE).

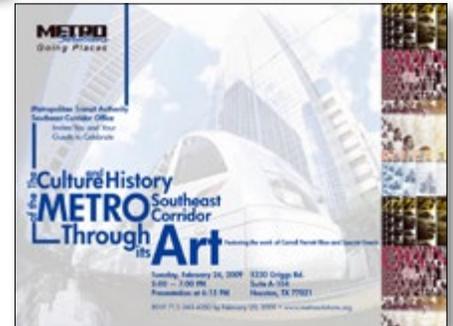
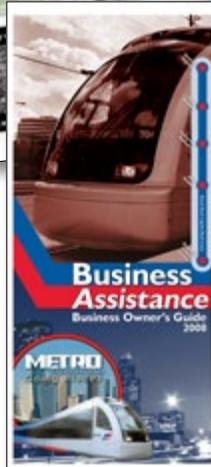
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*Mr. Joseph Liggio, PWS, Texas Department of  
Transportation, (713) 802-5408, [Joe.Liggio@txdot.gov](mailto:Joe.Liggio@txdot.gov).*



Over 100 Years of Project Experience



## Project: METRO Solutions Community Outreach Program for the Light-Rail Transit Expansion Project – Marketing and Communications (2007-2010)

Client: The Metropolitan Transit Authority of Harris County, Texas (METRO)

January 2007 marked the beginning of METRO’s joint venture to build a city-wide light rail transit (LRT) expansion, including five inner-city, light-rail corridors. In this huge undertaking, METRO required assistance in distributing key messages about construction information, safety awareness, business assistance programs, small business initiatives, and other community outreach opportunities available through this project.

CESI joined the METRO Solutions team to provide full-time communications and community outreach support for three years for the LRT expansion project. From 2007 to 2010, CESI delivered creative, cost-effective, and timely communications services. CESI met all of METRO Solutions’ day-to-day communications needs, including authorship, design, and production of the following:

- Corridor-specific community outreach campaign development and implementation, including:
  - Communities in Motion – a corridor-specific awareness and outreach program
  - The “Arts in Transit” Program – connecting the community and artists to beautify rail stops
  - A Business Assistance Program
  - A Community/School Safety Education Program

- Public meeting and event planning and execution (on a routine, monthly basis)
- Media relations support and training seminars
- Collateral material design and development (including postcards, newsletters, brochures, signage, maps, coloring books, and other public education materials)
- Video production (hour-long public access documentaries and informational short films)
- Project branding
- A Social Media Plan, incorporating Facebook, Twitter and Youtube social media identities
- Development and maintenance of the METRO Solutions’ project website ([www.metro-solutions.org](http://www.metro-solutions.org)) and online, social media presences
- Audiovisual presentations, video production, and display design
- As-needed commercial and event photography
- As-needed communications support to the METRO Community Outreach team and satellite Corridor Offices

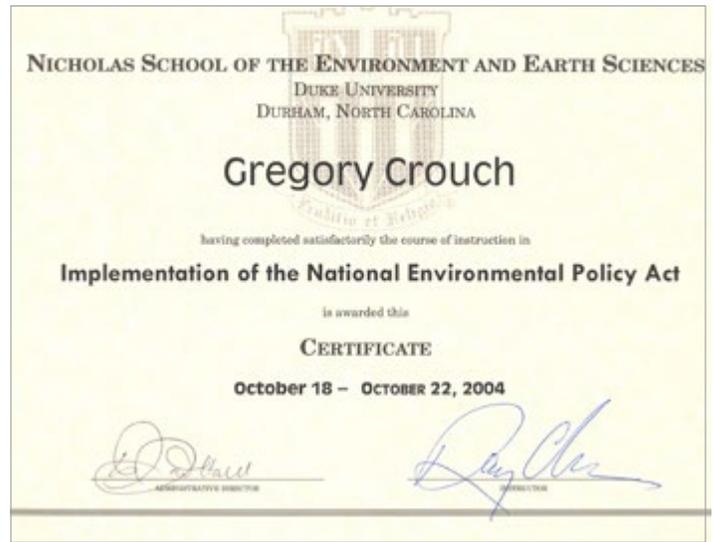
### Client Contact:

Kimberly J. Williams, J.D., Chief Administrative Officer,  
(713) 739-4992, [Kimberly.Williams@ridemetro.org](mailto:Kimberly.Williams@ridemetro.org)



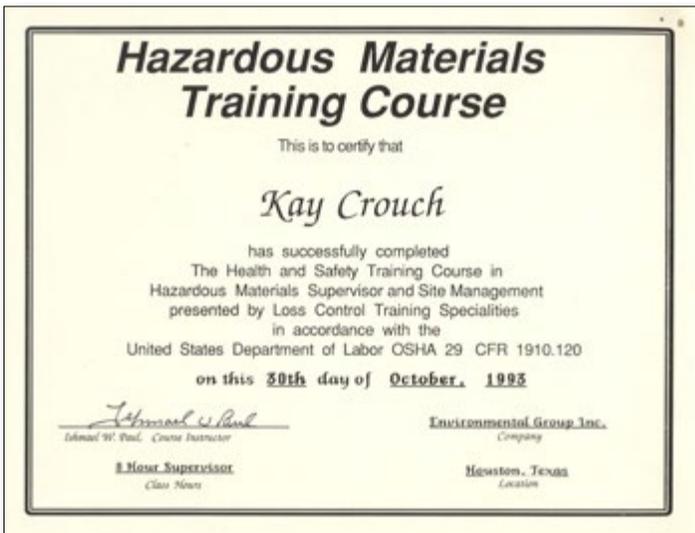
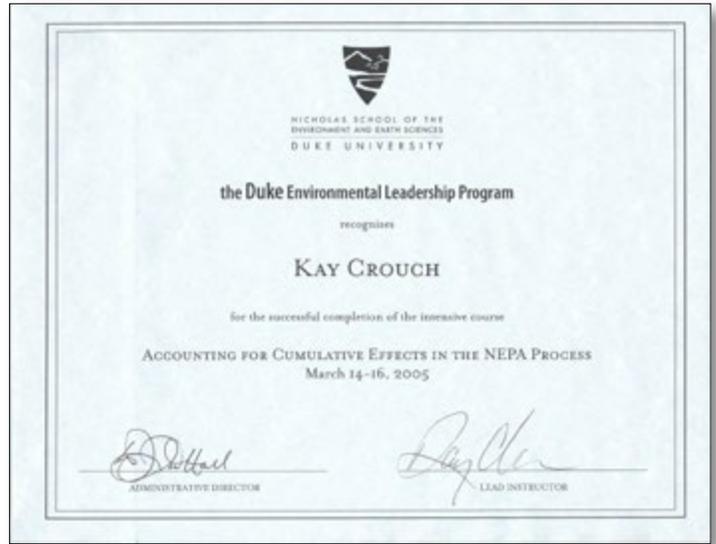


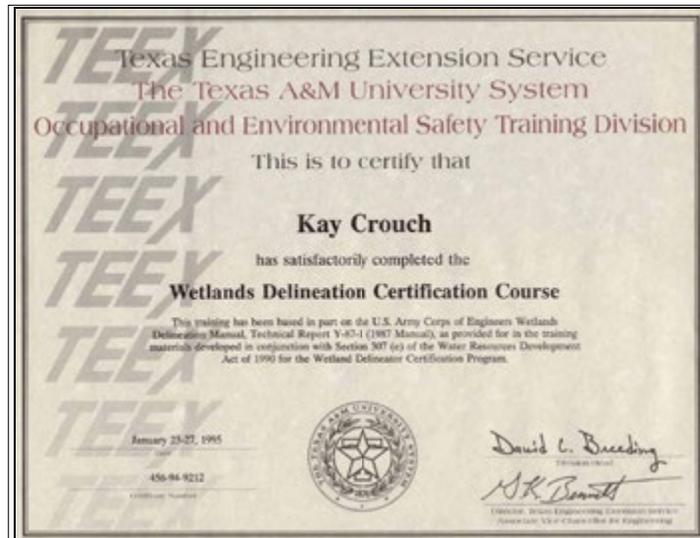
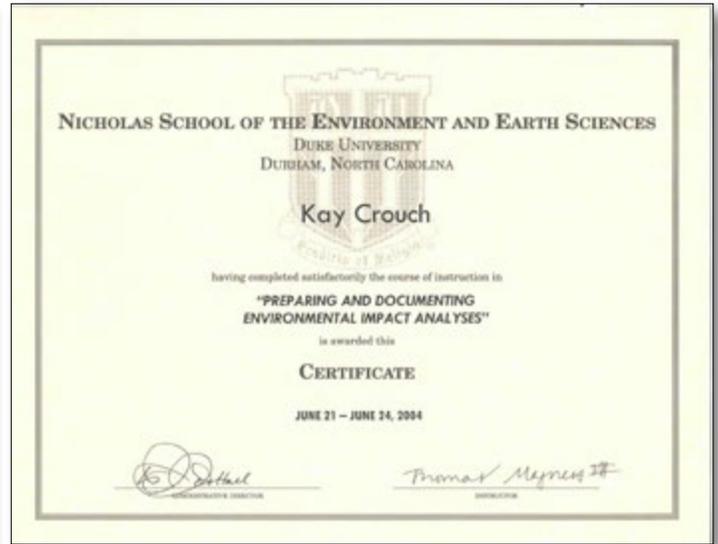
# Our Certifications



# Kay Crouch Certifications

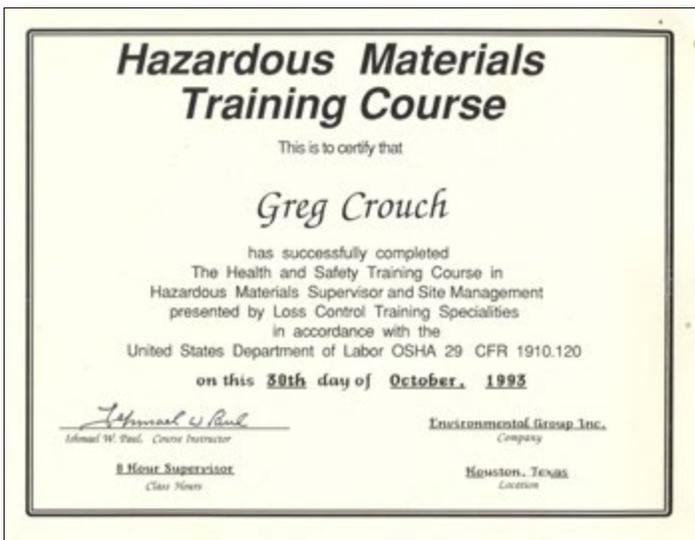
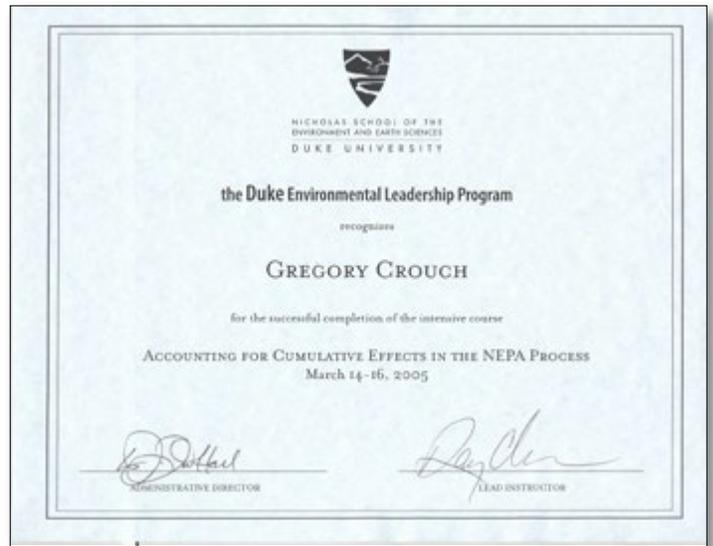
- Health and Safety Training Course in Hazardous Materials Supervisor and Site Management, United States Department of Labor OSHA, 1993, current as of 2008
- Accounting for Cumulative Effects in the NEPA Process, Duke University, Nicholas School of the Environment and Earth Sciences, 2005
- Socioeconomic Impact Analysis under NEPA, Duke University, Nicholas School of the Environment and Earth Sciences, 2005
- 404 Permit Training Certificate, U.S. Army Corps of Engineers and Texas Department of Transportation, 2005
- Implementation of the National Environmental Policy Act, Duke University, Nicholas School of the Environment and Earth Sciences, 2004
- Preparing and Documenting Environmental Impact Analysis, Duke University, Nicholas School of the Environment and Earth Sciences, 2004
- Wetlands Delineation Certification Course, The Texas A&M University System Occupational and Environmental Safety Training Division, 1995

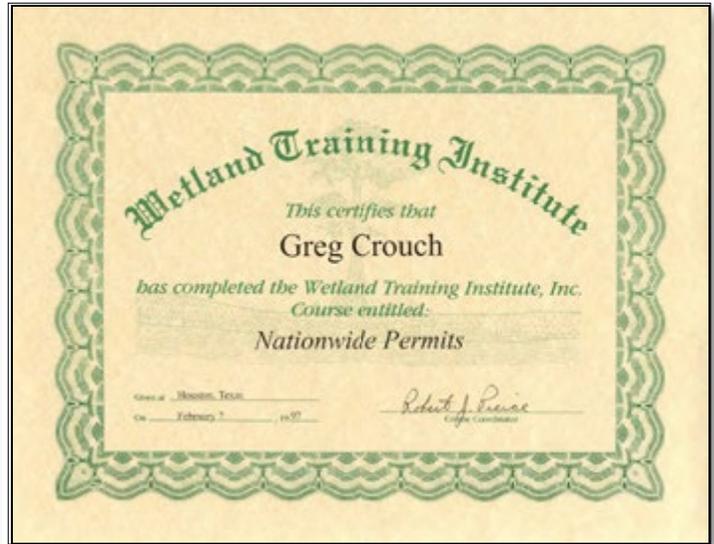
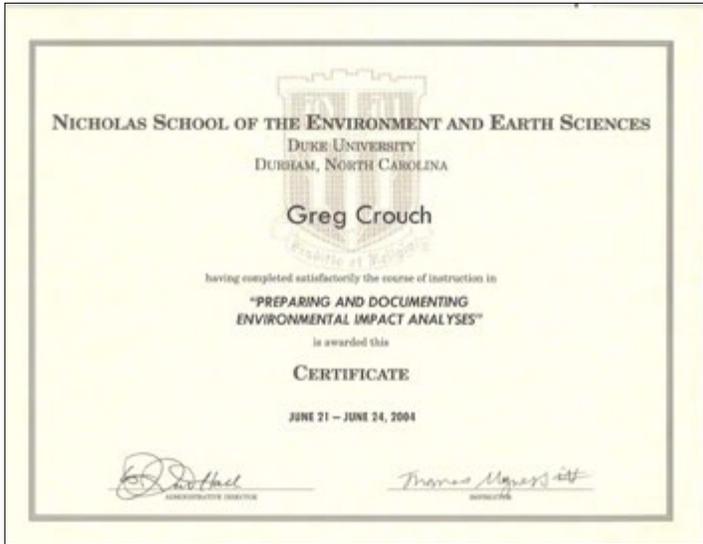
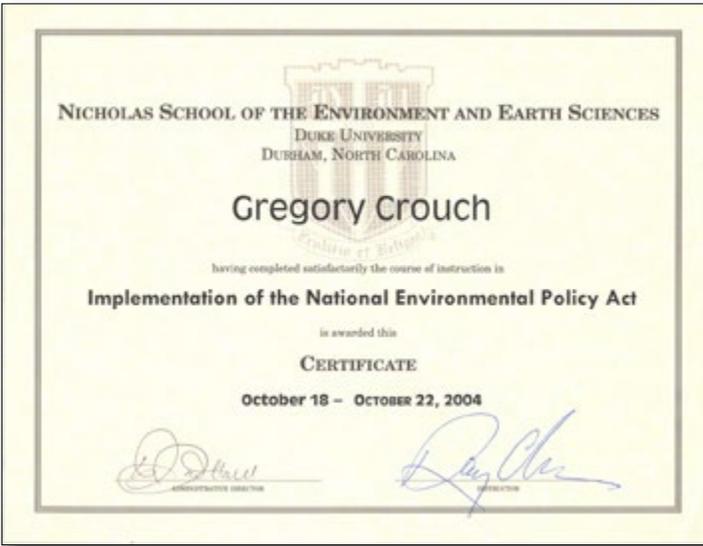




# Greg Crouch Certifications

- Health and Safety Training Course in Hazardous Materials Supervisor and Site Management, United States Department of Labor OSHA, 1993, current as of 2008
- Accounting for Cumulative Effects in the NEPA Process, Duke University, Nicholas School of the Environment and Earth Sciences, 2005
- 404 Permit Training Certificate, U.S. Army Corps of Engineers and Texas Department of Transportation, 2005
- Socioeconomic Impact Analysis under NEPA, Duke University, Nicholas School of the Environment and Earth Sciences, 2005
- Implementation of the National Environmental Policy Act, Duke University, Nicholas School of the Environment and Earth Sciences, 2004
- Preparing and Documenting Environmental Impact Analysis, Duke University, Nicholas School of the Environment and Earth Sciences, 2004
- 38-Hour Army Corps of Engineers Wetland Delineation & Management Training Program, Richard Chinn Environmental Training, Inc., 2000
- Nationwide Permits, Wetland Training Institute, 1997
- Wetlands Delineation Certification Course, The Texas A&M University System Occupational and Environmental Safety Training Division, 1995
- Media Training, Goldman Public Relations Co., Inc., 1994
- Asbestos Hazard Emergency Response Act (AHERA) Asbestos Inspector Certification, U.S. Environmental Protection Agency





# CESI Certifications



**GLENN HEGAR TEXAS COMPTROLLER OF PUBLIC ACCOUNTS**

The Texas Comptroller of Public Accounts (CPA) administers the Statewide Historically Underutilized Business (HUB) Program for the State of Texas, which includes certifying minority- and woman-owned businesses as HUBs and is designed to facilitate the participation of minority- and woman-owned businesses in state agency procurement opportunities. The CPA has established Memorandums of Agreement with other organizations that certify minority- and women-owned businesses that meet certification standards as defined by the CPA. The agreements allow for Texas-based minority- and women-owned businesses that are certified with one of our certification partners to become HUB certified through one convenient application process.

In accordance with the Memorandum of Agreement the CPA has established with the City of Houston (COH), we are pleased to inform you that your company is now certified as a HUB. Your company's profile is listed in the State of Texas HUB Directory and may be viewed online at <http://www.window.state.tx.us/procurement/cmb1/hubonly.html>. Provided that your company continues to remain certified with the COH, and they determine that your company continues to meet HUB eligibility requirements, the attached HUB certificate is valid for the time period specified.

You must notify the COH in writing of any changes affecting your company's compliance with the HUB eligibility requirements, including changes in ownership, day-to-day management, control and/or principal place of business. Note: Any changes made to your company's information may require the COH and/or the HUB Program to re-evaluate your company's eligibility. Failure to remain certified with the COH, and/or failure to notify them of any changes affecting your company's compliance with HUB eligibility requirements, may result in the revocation of your company's certification.

Please reference the enclosed pamphlet for additional resources, such as the state's Centralized Master Bidders List (CMBL), that can increase your chance of doing business with the state.

Thank you for your participation in the HUB Program! If you have any questions, you may contact a HUB Program representative at 512-463-5872 or toll-free In Texas at 1-888-863-5881.

## Texas Historically Underutilized Business (HUB) Certificate



Certificate/VID Number:	<b>1760430047900</b>
File/Vendor Number:	<b>22593</b>
Approval Date:	<b>30-JUN-2015</b>
Scheduled Expiration Date:	<b>30-JUN-2018</b>

In accordance with the Memorandum of Agreement between the  
City of Houston (COH)

and the Texas Comptroller of Public Accounts (CPA), the CPA hereby certifies that

### **CROUCH ENVIRONMENTAL SERVICES, INC.**

has successfully met the established requirements of the State of Texas Historically Underutilized Business (HUB) Program to be recognized as a HUB. This certificate, printed 09-JUL-2015, supersedes any registration and certificate previously issued by the HUB Program. If there are any changes regarding the information (i.e., business structure, ownership, day-to-day management, operational control, addresses, phone and fax numbers or authorized signatures) provided in the submission of the business' application for registration/certification into the COH's program, you must immediately (within 30 days of such changes) notify the COH's program in writing. The CPA reserves the right to conduct a compliance review at any time to confirm HUB eligibility. HUB certification may be suspended or revoked upon findings of ineligibility. If your firm ceases to remain certified in the COH's program, you must apply and become certified through the State of Texas HUB program to maintain your HUB certification.

*Paul Gibson, Statewide HUB Program Manager  
Texas Procurement and Support Services*

Note: In order for State agencies and institutions of higher education (universities) to be credited for utilizing this business as a HUB, they must award payment under the Certificate/VID Number identified above. Agencies and universities are encouraged to validate HUB certification prior to issuing a notice of award by accessing the Internet (<http://www.window.state.tx.us/procurement/cmb1/cmb1hub.html>) or by contacting the HUB Program at 1-888-863-5881 or 512-463-5872.

Rev. 01/15





Annise D. Parker,  
Mayor



# CITY OF HOUSTON

Office of Business Opportunity

**Crouch Environmental Services, Inc.**

is duly certified as a

## Women Business Enterprise (WBE)

**Certified Categories:**

- NAICS-541613: MARKETING CONSULTING SERVICES
- NAICS-541620: ENVIRONMENTAL CONSULTING SERVICES
- NAICS-541820: PUBLIC RELATIONS CONSULTING SERVICES

Certification Number: 15-6-10371

June 30, 2016

June 30, 2018

*Carlecia D. Wright*

Anniversary Date

Expiration Date

Note: This certificate is the property of the City of Houston Office of Business Opportunity, and may be revoked should the above named firm graduate from the MWDBE program.



http://www.cityofhouston.com/functions/Certification/Communications/LetterCertificatView.asp?XID=6350&ViewType=Single\_6730/2615

B2 Grob

Photo Prof





Annise D. Parker,  
Mayor

# CITY OF HOUSTON

Office of Business Opportunity



**Crouch Environmental Services, Inc.**

is duly certified as a

## Disadvantaged Business Enterprise (DBE)

**Certified Categories:**

- NAICS-541613: MARKETING CONSULTING SERVICES
- NAICS-541620: ENVIRONMENTAL CONSULTING SERVICES
- NAICS-541820: PUBLIC RELATIONS CONSULTING SERVICES

Certification Number: 15-6-10371

**Anniversary Date:**

June 30, 2016

*Carleen D. Wright*

Note: This certificate is the property of the City of Houston Office of Business Opportunity, and may be revoked should the above named firm graduate from the MWDBE program.



www.cityofhouston.gov/communications/Certifications/afterCertificateView.asp?XID=4100&ViewType=Single... 6/30/2015



# CROUCH ENVIRONMENTAL SERVICES, INC.

*is registered as a*

## Small Business Enterprise

Effective Date: 03/28/2018

Expiration Date: 05/31/2020



**PORT HOUSTON**

Senior Director  
Small Business & Maritime Education



# Metropolitan Transit Authority of Harris County, Texas Office of Small Business hereby duly affirms that:

## Crouch Environmental Services, Inc.

has successfully met the established requirements of METRO's  
Small Business Enterprise Program to be certified as a

## Small Business Enterprise (SBE)

### Certified NAICS Codes:

- NAICS 541613: MARKETING CONSULTING SERVICES
- NAICS 541620: ENVIRONMENTAL CONSULTING SERVICES
- NAICS 541820: PUBLIC RELATIONS AGENCIES

Certification Number: 021200317  
 Effective Date: May 9, 2017  
 Expiration Date: May 9, 2020



*Thomas C. Lambert*  
 Thomas C. Lambert  
 President & Chief Executive Officer

*Kimberly J. Williams*  
 Kimberly J. Williams, J.D.  
 Deputy Chief Procurement Officer  
 Office of Procurement

Note: This certificate is the property of the Metropolitan Transit Authority of Harris County's Office of Small Business and may be revoked should the above named firm graduate from or fails to comply with METRO's Small Business Enterprise Program. Recertification is required every three years.

