

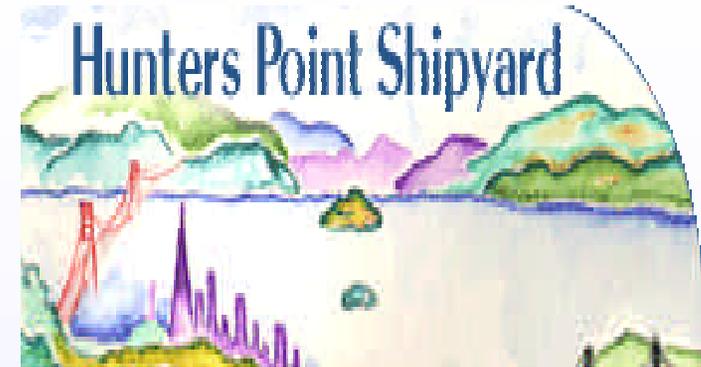
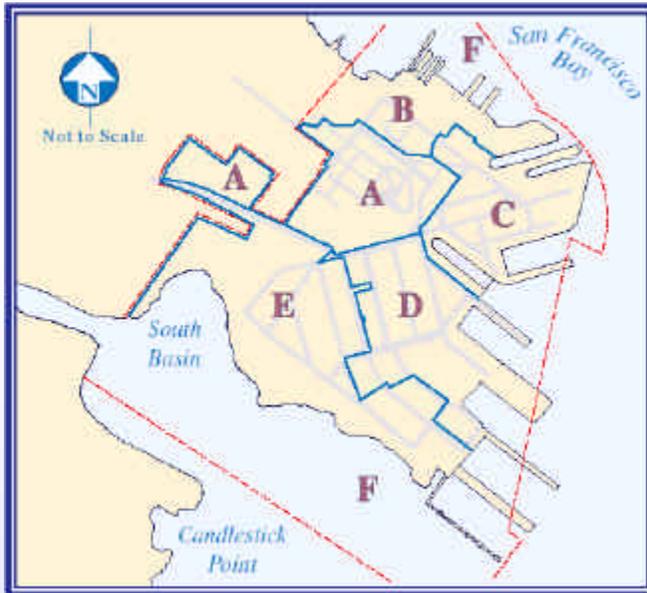


# U.S. Navy – Hunters Point Shipyard (HPS) Web Portal

Tetra Tech EM Inc.

*Presented by*

*Randy Dorian  
&  
Stephen Schmidt*



- Hunters Point Shipyard (HPS) is a 522-acre U.S. Navy facility in southeastern San Francisco. In 1986, the Navy began an environmental site remediation and cleanup program directed toward the eventual transfer of the site to the City of San Francisco.





## Why a Portal?

- Enormous amounts of data
  - Time consuming to manage
  - Disorganized repositories
  - Data access
- Empower individuals and teams
  - Decisions
  - Project costs
  - Risks
- Value to organization





# HPS Problem

- Data Access
  - Analytical records
  - Geographic information system (GIS) maps
- Decision Making
  - Needed to be timely
  - Required accurate information
- Document Processing
  - Publishing
  - Document management





# HPS Problem

- Collaboration
  - Simultaneous ongoing projects
  - Different entities
  - Different geographic locations
  - Centralized access
  - Communication tools
  - Project management





# Developing the Solution

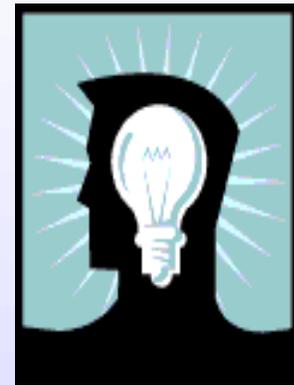
- Implementation Scenario
  - Out-of-box solution
  - Customized development
- Advantages
  - Available, robust, and stable
  - Had many required features
  - Development focused on customized requirements
  - Proven software development management
  - Quality assurance process
- Portal Software
  - Powerful and flexible portal front end





# Solution

- Development and Implementation Team
- Custom features
  - Workflow
  - Query tool
  - Mapping tool
  - Contacts
- Integration of various systems
- Testing and QA/QC process
  - Unit testing, system testing, and load testing
- Implementation
  - The solution and implementation scenario selected allowed Tetra Tech to implement a **fully functional beta release less than 3 months** after final requirements and the initial design documents were completed





# HPS Web Portal

- Portal
  - a web-based information repository
- Functionality
  - Project management tools
  - Document collaboration
  - Communicate new developments
  - Project report status
  - Issues and problems
  - Querying
  - Mapping





## HPS Users and Content Role-Based Security

- Project role and security level control access to functions and information on the portal
  - Member of teams and projects
  - Collaborate on reports and projects
  - Upload documents.
  - Create teams and projects
  - Upload documents to the library
  - Access analytical data via the query tool
  - View analytical data in the mapping tool
  - Browse library
  - Create announcements





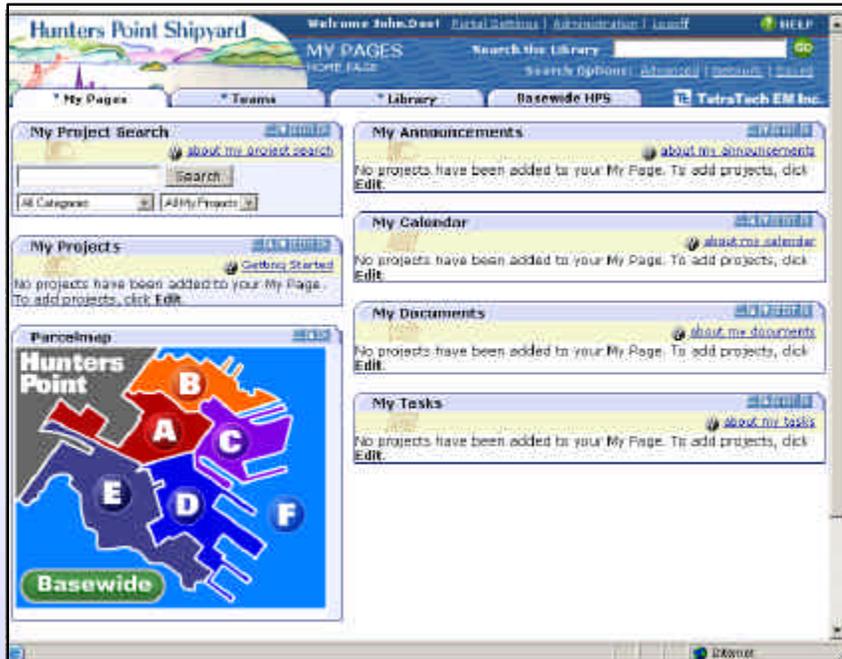
# Project Management Tools



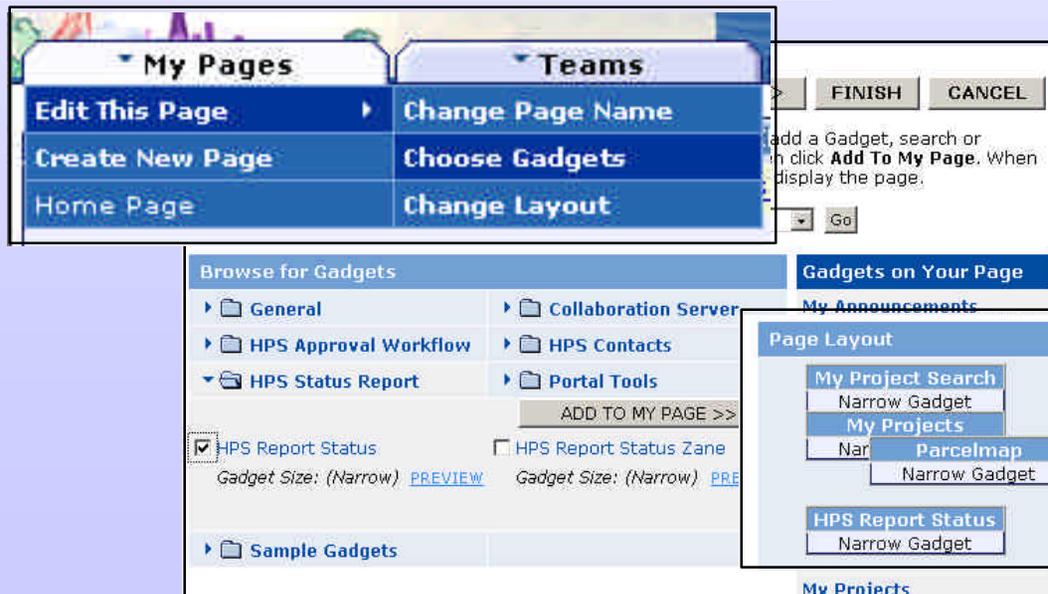
- Project Management Tools:
  - Customizable home page
  - Single web page
  - Task management tool
  - Project Calendar
  - Team announcement tool
  - Workflow tool
  - Team directories
  - Contact lists



# My Page



“My page” is the starting page of the portal, and displays information aggregated and customized for an individual user.



Up to five “My Pages” can be created to meet individual needs.





# Selecting Projects for My Page

**SELECT PROJECTS**

Information from selected projects appears in My Projects, My Announcements, My Calendar, My Documents, My Task Lists, and My Tasks and can be searched from My Project Search.

**Basewide**  
Inform everyone about the status of basewide activities.

**Draft Parcel B CSR**  
The main draft report for the Parcel B CSR.

**Parcel A**

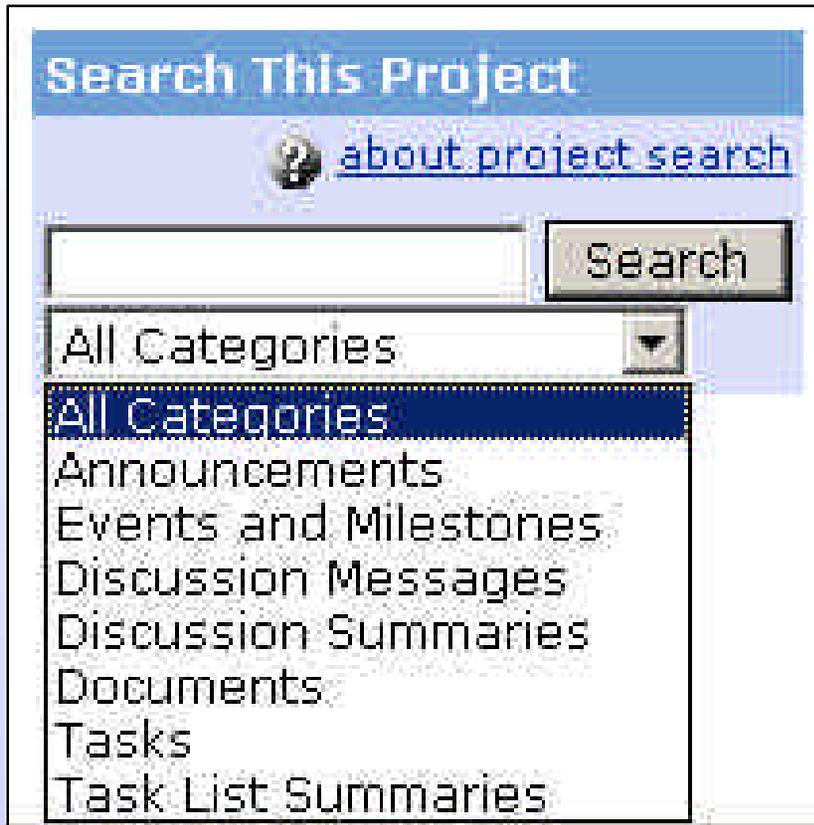
Buttons: FINISH, CANCEL

- Get project updates directly into My Page by selecting the projects where access is allowed.
- Unless a project is selected, its information will not appear in My Page, despite one's role in the project.





# Project Search



- Use Project Search to quickly find documents, tasks, discussions, and other content inside a project.
- Type in one or more keywords, and click “Search”
- The drop-down box can limit searches to specific items.
- Search all projects or just the ones with an active role.



# Project Discussions/Threads

COMMUNITY PAGE : [PROJECT OVERVIEW](#) | [Discussions](#)

**Project: Draft Parcel B CSR**

- Overview
- Calendar
- Task Lists
- Documents
- Discussions**

**Actions**

[Create Discussion](#)

**Discussions** [about discussions](#)

**Discussions in Draft Parcel B CSR**

Discussion	Threads	Last Post
<a href="#">Do we need to revise the curves map?</a>	2	6/18/02 4:49 PM
<a href="#">Parcel B CSR outstanding issues...</a>	1	6/18/02 4:50 PM

- Click on the “Discussions” link of a project page to view available discussions.
  - Discussions are about general topics.
  - Threads are a set of questions / responses / comments along a single line of thought.

**Discussions** [about creating discussions](#)

**Finish** **Cancel**

**Create Discussion**  
Step 1 of 1: Name and Describe Your Discussion

Enter the name and description for your discussion, then click **Finish**. **IMPORTANT:** Do not use your Web browser Back and Forward buttons when navigating in the wizard.

[Edit Permissions](#)

**Discussion Name:**

**Description:**





# Project Calendar

**Calendar** [about the calendar](#)

**Tuesday, June 18, 2002**  
6/18/02 - 6/19/02 [Reformat data points](#)

**Wednesday, June 19, 2002**  
6/18/02 - 6/19/02 [Reformat data points](#)  
6/19/02, 9:45 AM - 9:45 PM [GIS Tracking Spreadsheet](#)  
6/19/02, 9:45 AM - 9:45 PM [Update drawing of excavations](#)  
6/19/02, 2:00 PM - 3:00 PM [Report Team Meeting](#)

**Thursday, June 20, 2002**  
6/20/02, 9:45 AM - 9:45 PM [Samples Collected at Each Excavation](#)

**Calendar Navigator**  
Calendar View: Week  
< Jun > Day Week  
Su Mo Tu We Month Sa  
26 27 28 29 30 31 1  
2 3 4 5 6 7 8  
9 10 11 12 13 14 15  
16 17 18 19 20 21 22  
23 24 25 26 27 28 29  
30 1 2 3 4 5 6  
[go to today](#)

**Calendar Navigator**  
Calendar View: Week  
< Jun > Day Week  
Su Mo Tu We Month Sa  
26 27 28 29 30 31 1  
2 3 4 5 6 7 8  
9 10 11 12 13 14 15  
16 17 18 19 20 21 22  
23 24 25 26 27 28 29  
30 1 2 3 4 5 6  
[go to today](#)

*Viewing  
the week  
of June 16  
to June 22*

- The Calendar shows upcoming events, milestones and tasks for the project.
  - Milestones have a single date and time. Use them for discrete deadlines.
  - Events have a start date and time, and an end date and time. Use them for meetings and events with a preset duration.





# Document Management/Collaboration Tools

- Requirements
  - Version tracking
  - Check-in and check-out
  - Searchable metadata
  - Document publishing controls
  - Workflow management
  - Searchable threaded discussions
  - Secure document access





# Documents

Name	Size	Author	Modified	Checked Out By
00-01_Curves.pdf	1499 KB	bm.moher	6/12/02 9:11 AM	
AppScreening.xls	6210 KB	bm.moher	6/12/02 9:14 AM	
AppKfy2.xls	1196 KB	bm.moher	6/12/02 9:15 AM	

Search This Project

[about project search](#)

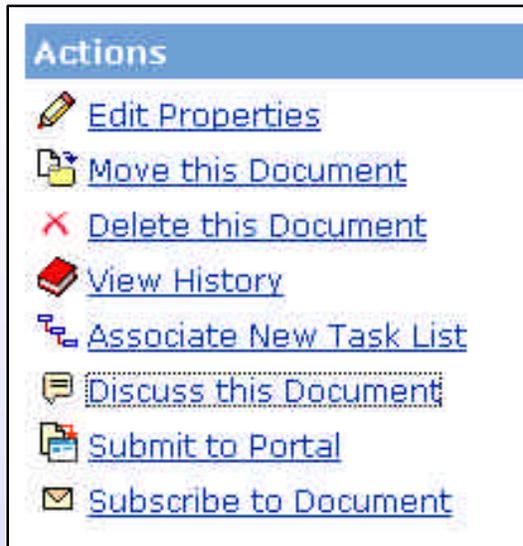
All Categories

- All Categories
- Announcements
- Events and Milestones
- Discussion Messages
- Discussion Summaries
- Documents**
- Tasks
- Task List Summaries

- Projects allow allow the organization of “Documents” into Folders and Files similarly to Windows Explorer.
- Browse through folders, or use the project search engine, filtered for “Documents.”
- View information about documents in either a detail or summary view.
- Download and/or checkout documents.



## Documents – Other Actions



*Security roles control access to these options.*

- “View History” shows the versions a document has been through, who changed it, and when. It also allows viewing and downloading of older versions of a document.
- Task Lists can be assigned to documents and projects.
- Documents can be discussed with other team members.
  - There can only be one discussion per document.
  - Discussion can hold any number of “threads.”
  - Team members can subscribe to discussions so that they are notified by e-mail when there are new responses.



# Documents – View, Check-out

**Documents** [about file details](#)

**00-01 Curves.pdf**

[View the Document](#)    [Check Out and Download](#)

**File Details**

00-01 Curves.pdf 1499 KB (1535284 Bytes)

<b>Checked Out By:</b>		<b>Check-Out Date:</b>	
<b>Author:</b>	tim.mower	<b>First Uploaded:</b>	June 12, 2002 9:10:57 AM MDT
<b>Current Version:</b>	1	<b>This Version Uploaded:</b>	June 12, 2002 9:10:57 AM MDT
<b>File Type:</b>	PDF document	<b>Last Modified:</b>	June 12, 2002 9:11:15 AM MDT
<b>File Location:</b>	Draft Parcel B CSR		

**Documents** [about file details](#)

**00-01 Curves.pdf**

[View the Document](#)    [Check In New Version](#)    [Undo Check Out](#)

You have just checked out this document.

**File Details**

00-01 Curves.pdf 1499 KB (1535284 Bytes)

<b>Checked Out By:</b>	ant
<b>Author:</b>	tim
<b>Current Version:</b>	1
<b>File Type:</b>	PDF
<b>File Location:</b>	Dra

**Check-In Comments**

Internal draft version, prior to TR.

- Clicking on a document's filename shows its details.
- “View the Document” or “Check out and download”
- Checking out a document will lock it on the portal, so that others can't make changes to it until it's checked back in.
- “Check out and Download” to obtain an electronic copy of the document.
- When revisions are complete, go back to the document's details page and click on “Check in New Version” to upload it.
  - When checking in a new updated file0 check-in comments are important for future reference





# A "Teams" page

Address <http://hpsnet.ttemi.com/portal45/communities/community.asp?CommunityID=226&Refresh=37949&UserID=205&PageID=-226> Go Links >>

**Hunters Point Shipyard** Welcome [marna.parslow!](#) [Portal Settings](#) | [Administration](#) | [Logoff](#) **HELP**

**TEAMS** HPS - WEB Search the Library  GO  
Search Options: [Advanced](#) | [Network](#) | [Saved](#)

My Pages Teams Library HPS - Web TetraTech EM Inc.

### Team Discussions

[about team discussions](#)

Discussion	Project	Last Post
<a href="#">Librarian Training- what is important?</a>	<a href="#">Training</a>	10/18/02
<a href="#">Anything missing from the training?</a>	<a href="#">Training</a>	9/20/02
<a href="#">Database Issues</a>	<a href="#">Database</a>	8/9/02
<a href="#">Training discussion</a>	<a href="#">Database</a>	--
<a href="#">Training Test</a>	<a href="#">Training</a>	--

### Team Announcements

[about team announcements](#)

**Training is in full swing - Seattle, Denver, SF, and San Diego have been trained**  
Posted by [marna.parslow](#) on 10/18/02 10:53 AM in project [Training](#)

### Team Calendar

[about the team calendar](#)

**October 1 - 5**

10/3/02 - 10/16/02	<a href="#">Blah Blah</a>	<a href="#">Training</a>
--------------------	---------------------------	--------------------------

**October 6 - 12**

10/3/02 - 10/16/02	<a href="#">Blah Blah</a>	<a href="#">Training</a>
--------------------	---------------------------	--------------------------

**October 13 - 19**

10/3/02 - 10/16/02	<a href="#">Blah Blah</a>	<a href="#">Training</a>
10/18/02 - 10/19/02	<a href="#">unassigned task demo</a>	<a href="#">Training</a>

**October 20 - 26**

10/23/02	<a href="#">Rollout to Navy</a>	<a href="#">Training</a>
----------	---------------------------------	--------------------------

**Calendar Navigator**  
Calendar View: [Month](#)  
< Oct > < 2002 >  
Su Mo Tu We Th Fr Sa  
29 30 1 2 3 4 5  
6 7 8 9 10 11 12  
13 14 15 16 17 18 19  
20 21 22 23 24 25 26  
27 28 29 30 31 1 2  
3 4 5 6 7 8 9  
[go to today](#)

### Team Projects

[Getting Started](#)

[CREATE PROJECT](#)

Check the project or projects you want to monitor. The Collaboration Server displays project information.

Project	Status
<input checked="" type="checkbox"/> <a href="#">Training</a>	On Schedule
<input checked="" type="checkbox"/> <a href="#">Database</a>	Behind Schedule
<input checked="" type="checkbox"/> <a href="#">Navy Project 1</a>	Not Started
<input checked="" type="checkbox"/> <a href="#">PlumTree</a>	Not Started

### HPS Approval Workflow

[Web Test](#)

Current: Final Complete 10/9/2002

### Team Documents

[about team documents](#)

Summary view: 10 most recent documents from selected projects

File	Project	Author	Modified
<a href="#">HPS Librarian Training.ppt</a>	<a href="#">Training</a>	<a href="#">marna.parslow</a>	10/18/02
<a href="#">Acrohelp.pdf</a>	<a href="#">Database</a>	<a href="#">steve.schmidt</a>	10/4/02

Done Local intranet





# Approval Workflow

**HPS Approval Workflow**

**Parcel B CSR Report**

Current: Internal Draft - Response and Report to US Navy 6/18/2002

Next: Draft - Report to Regulators for Comment 7/15/2002

[View Report States](#)

Report Title: Parcel B CSR Report

Internal Draft	Draft	Internal Draft Final	Draft Final	Final
<b>Stage</b>	<b>Due Date</b>	<b>Complete?</b>		
Internal Draft	10/1/2002	<input type="checkbox"/>		
Internal Document Production Process	5/15/2002	<input checked="" type="checkbox"/>		
Technical Review	5/14/2002	<input checked="" type="checkbox"/>		
Editorial Review	5/13/2002	<input checked="" type="checkbox"/>		
Quality Control	5/11/2002	<input checked="" type="checkbox"/>		
Report to US Navy	5/11/2002	<input checked="" type="checkbox"/>		
Receive US Navy Comments	8/15/2002	<input checked="" type="checkbox"/>		

- Customized functionality
- Allows project managers to participate in the complex document review process and versioning required for HPS documents
- Data is searchable for all deliverables at HPS by due date or responsible party.



# Document Library/Archive

- Automated indexing
- Powerful search engine
- Full text search
- Customizable search options
- Flexible library document schema
  - Browse by category or subfolder
- Publishing controls
- Security





# The Library

Address <http://hpsnet.ttemi.com/portal45/catalog/home.asp?UserID=205> Go Links >>

**Hunters Point Shipyard** Welcome [marna.parslow!](#) [Portal Settings](#) | [Administration](#) | [Logoff](#) ? HELP

**LIBRARY** Search the Library  GO  
Search Options: [Advanced](#) | [Network](#) | [Saved](#)

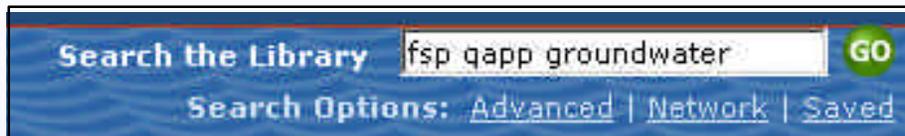
My Pages Teams Library HPS - Web TetraTech EM Inc.

Actions	Subfolders in "Library"	
<input type="checkbox"/> <b>BROWSE MODE</b> HELP	<input type="checkbox"/> <b>Basewide</b> <a href="#">Presentations</a>	<input type="checkbox"/> <b>Parcel D</b>
<input type="checkbox"/> <b>EDIT MODE</b>	<input type="checkbox"/> <b>Correspondence</b>	<input type="checkbox"/> <b>Parcel E</b>
<input type="checkbox"/> <b>RENAME MODE</b>	<input type="checkbox"/> <b>Parcel A</b>	<input type="checkbox"/> <b>Parcel F</b>
	<input type="checkbox"/> <b>Parcel B</b>	<input type="checkbox"/> <b>TtEMI Templates</b>
	<input type="checkbox"/> <b>Parcel C</b>	





# Simple Searching



- Can enter one or more keywords to search against
- The portal returns folder matches first, then file matches.
- If there are too many results, the user can try using more keywords, more specific keywords or the advanced search capabilities.





# Advanced Searching

Search the Library

Search Options: **Advanced** | Network | Saved

**ADVANCED SEARCH**

Get the most out of your search by following these examples.

- To search for *all the words* in your search string, use *and*:  
- sales *and* report *and* 2001
- To search for an *exact phrase*, use quotes:  
- "sales report for 2001"

Select Search Location	Select Search Requirements
<b>You are currently searching in:</b> <a href="#">SPECIFY FOLDERS</a> Documents Directory	<b>Find documents which meet these requirements:</b> <input checked="" type="radio"/> All Requirements <input type="radio"/> Any Requirements <input type="button" value="+ ADD REQUIREMENT"/> <input type="button" value="- REMOVE LAST"/> Text <input type="text"/> Contains <input type="text"/>

ese examples:

- To search for an *exact phrase*, use quotes:  
- "sales report for 2001"

Search Requirements

- Allows multiple “Search Requirements”
- Search for entries that match all requirements, or for all the files that match one or more of the requirements.
- Requirements can be set for text or any or all of the metadata details associated with the documents.



# HPS Query Tool Requirements

- Requirements
  - Access to database
  - Queries - Create, Save, Edit, Personal, Public
    - Select filter criteria using selection options in the following categories: geographical, point, sample, analysis, chemical, and cleanup goals.
  - Reports
  - Downloadable
  - Results





# HPS Query Tool

Address: <http://hpsnet.ttemi.com/portal45/gateway/gateway.asp?GID=265&CID=0&URL=http%3A%2F%2Fhpsims%2FQuery%5FTool%2FHPS%5FQueryTool%2Ehtm> Go Links >>

**Hunters Point Shipyard** Welcome marna.parslow!  
**Query Tool**  
TetraTech EM Inc.

Query Name: marna.parslow\_parcelB\_MW\_metals

Parcel	Selected	Zone	Reuse	Site	Excavation
A	B				
B					
C					
D					
E					
F					

Select as many or as few selection criteria as needed

Done Internet





Address <http://hpsnet.ttemi.com/portal45/gateway/gateway.asp?GID=265&CID=0&URL=http%3A%2F%2Fhpsims%2FQuery%5FTool%2FHPS%5FQueryTool%2Ehtm> Go Links >>



Welcome marna.parslow!

## Query Tool

TetraTech EM Inc.

Query Name: marna.parslow\_parcelB\_MW\_metals

The number of record is 15245.

Query Tool		Edit Query		View Results Graphically			Save Query Permanently			Download File				
PARCEL	IRSITE	ZONING	REUSE	EXCAVATION	PT TYPE	PT ID	ABANDON DI	CONTRACT	CTO DO	SMP DI	MATRIX CTGY	MATRIX	SMP TYPE	SMP TDEP
B	07	RESIDENTIAL	OPEN SPACE		MW	IR07MW20A1		CLEAN 2	0270	4/25/2000 12:00:00 AM	WATER	WATER	ORIG	0
B	07	RESIDENTIAL	OPEN SPACE		MW	IR07MW20A1		CLEAN 2	0270	4/25/2000 12:00:00 AM	WATER	WATER	ORIG	0
B	07	RESIDENTIAL	OPEN SPACE		MW	IR07MW20A1		CLEAN 2	0270	4/25/2000 12:00:00 AM	WATER	WATER	ORIG	0
B	07	RESIDENTIAL	OPEN SPACE		MW	IR07MW20A1		CLEAN 2	0270	4/25/2000 12:00:00 AM	WATER	WATER	ORIG	0
B	07	RESIDENTIAL	OPEN SPACE		MW	IR07MW20A1		CLEAN 2	0270	4/25/2000 12:00:00 AM	WATER	WATER	ORIG	0
B	07	RESIDENTIAL	OPEN SPACE		MW	IR07MW20A1		CLEAN 2	0270	4/25/2000 12:00:00 AM	WATER	WATER	ORIG	0
B	07	RESIDENTIAL	OPEN SPACE		MW	IR07MW20A1		CLEAN 2	0270	4/25/2000 12:00:00 AM	WATER	WATER	ORIG	0





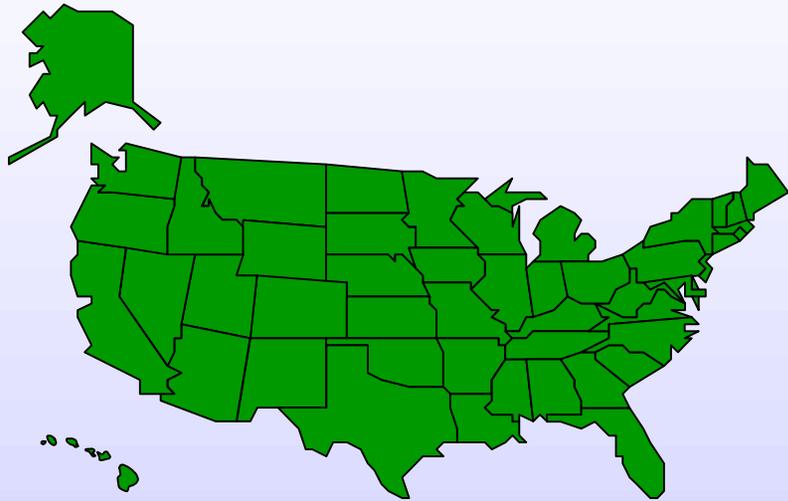
# Web GIS requirements

- GIS functions
- Data layers
- Results by chemical concentration
- Most commonly requested
- Aerial photography layers
- Access to common queries
- Multiple select tools with hyperlink





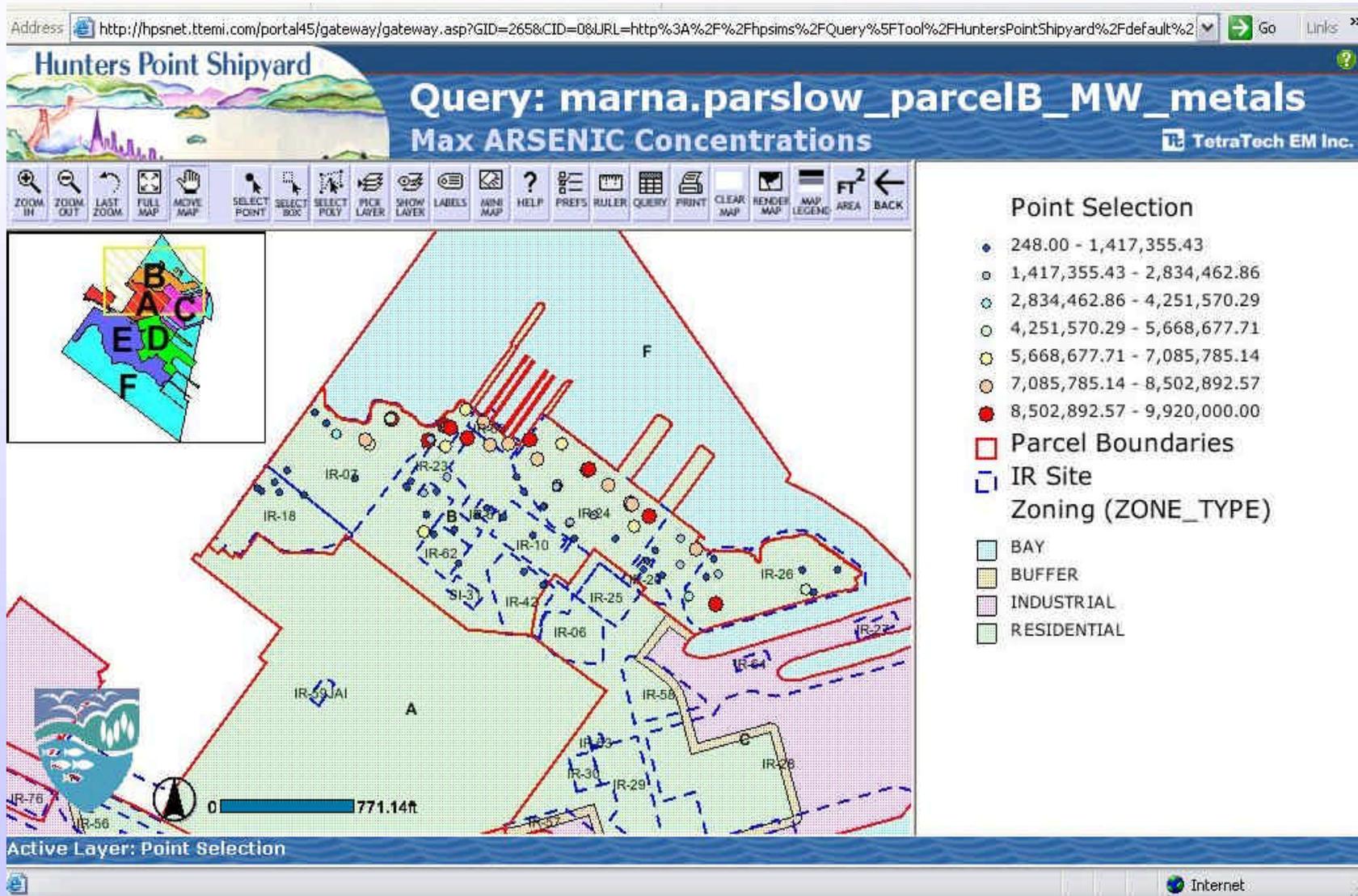
# Web GIS Mapping Tool



- Web-enabled GIS application
  - Electronic map base
  - Spatial layers
  - Panned and zoom
- Predefined Maps
- Ad hoc Maps
- Portable document format (PDF)

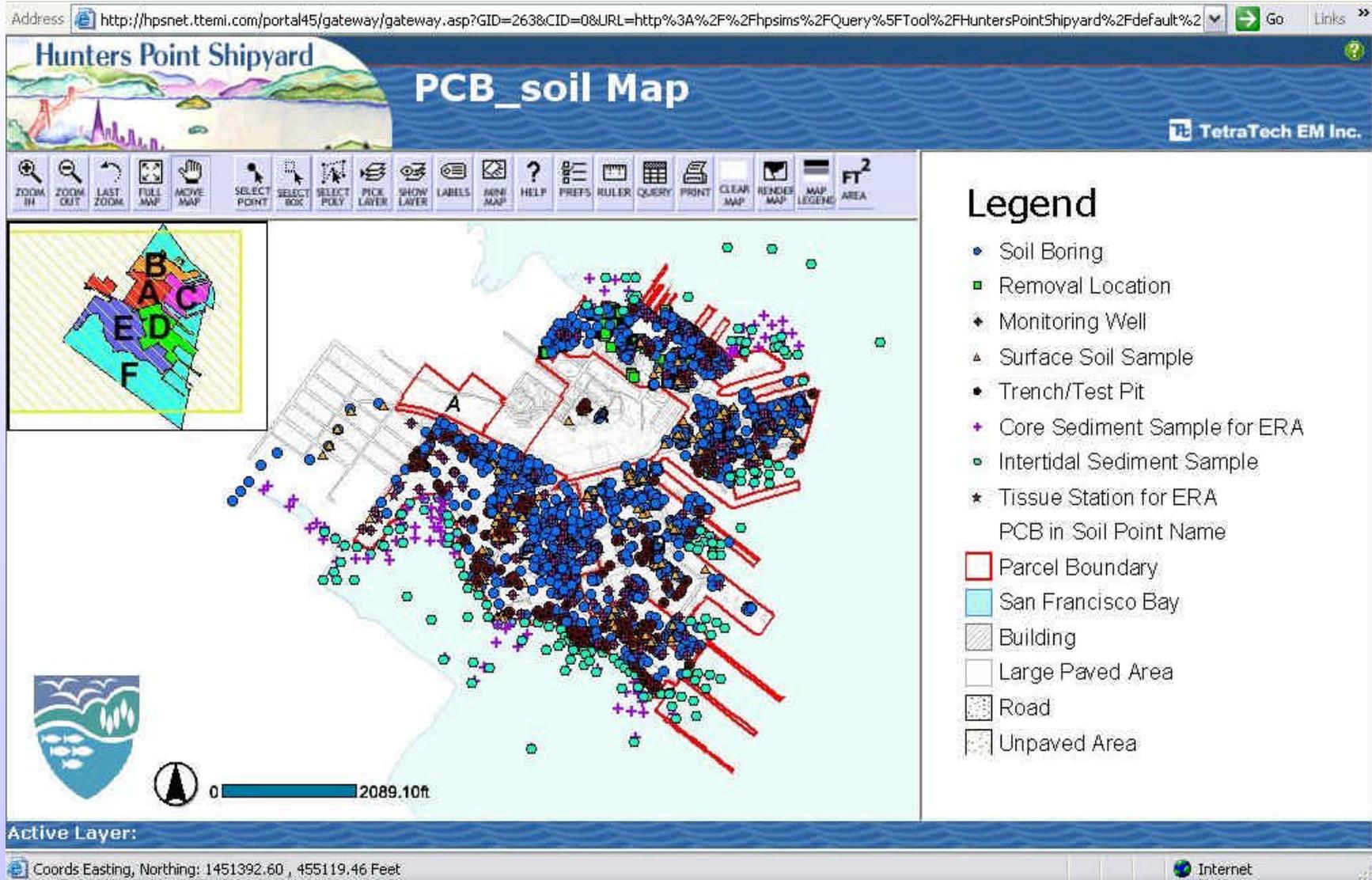


# Query Tool Results in Graphical Format



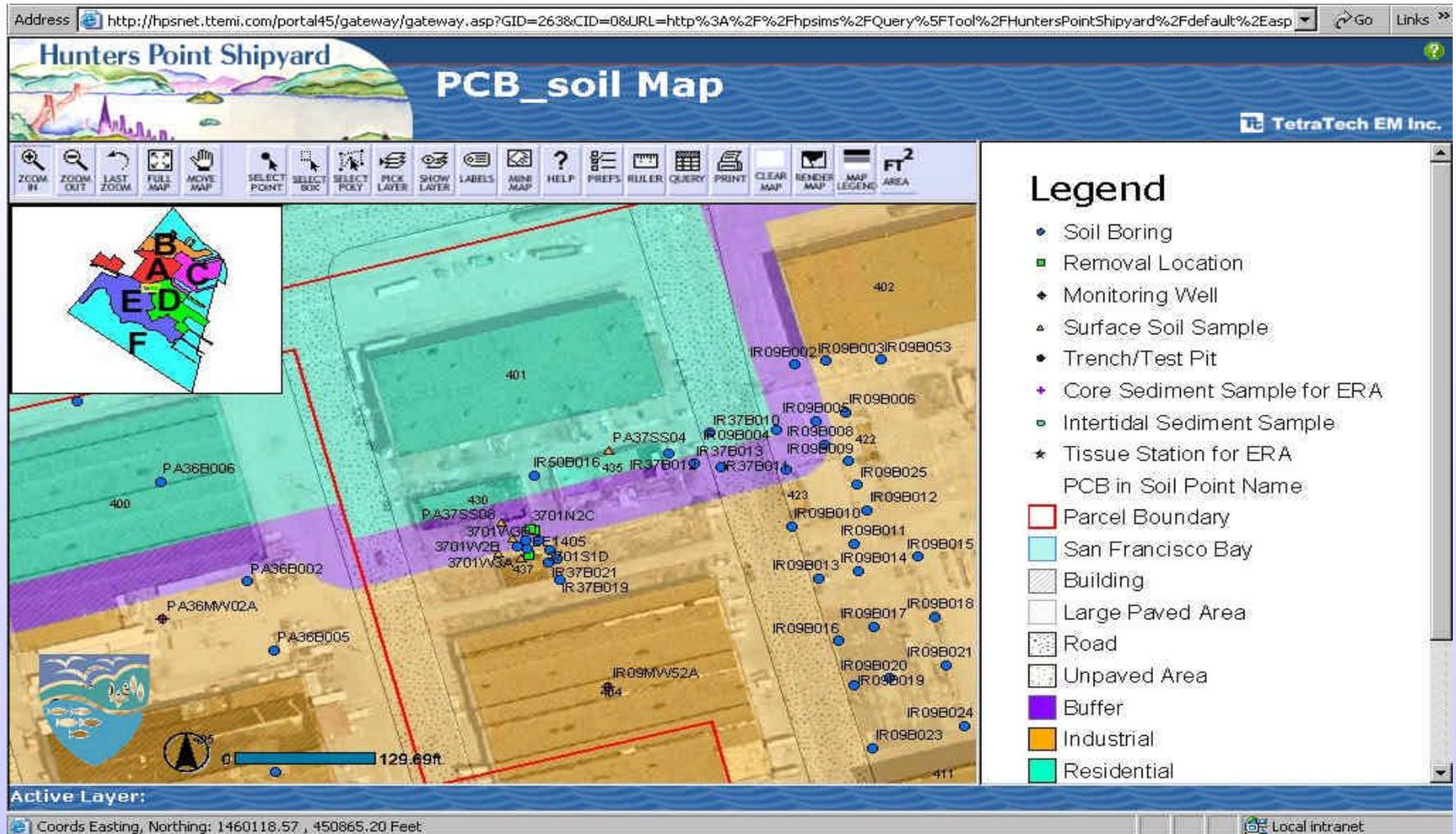


# Predefined Map





# Map Tool Predefined Maps

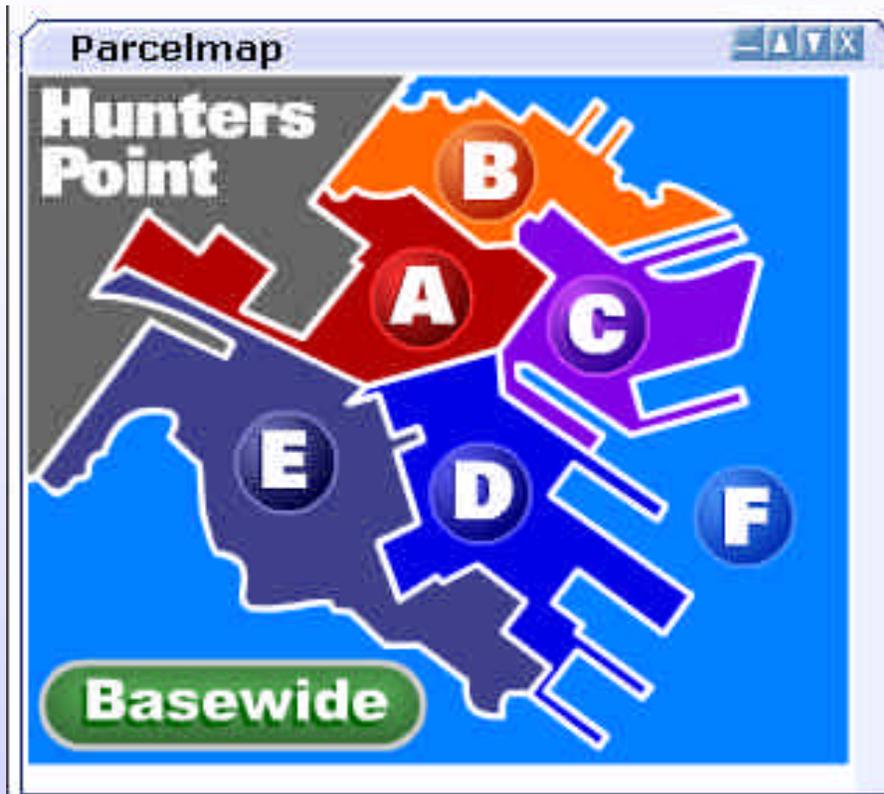


Predefined maps consisting of an aerial photograph of the site are activated when the user zooms in to a particular scale.





## The Parcel Map



- The parcel map is a quick way to access the “Basewide HPS” projects.



# Benefits of Solution

- Increased productivity
- Reduced costs
- Increased security
- Better project management and communication

