



New Bedford High School

Question & Answer Meeting

Thursday – June 10, 2010

Agenda

- ❑ Role of the City's Licensed Site Professional
- ❑ Updates/new developments/future activities
 - New Bedford High School Exterior
 - Soil and groundwater impacts
 - New Bedford High School Interior
 - PCB building materials only
 - Dr. Paul F. Walsh Athletic Field

Role of City's Licensed Site Professional (LSP)

LSP Responsibilities

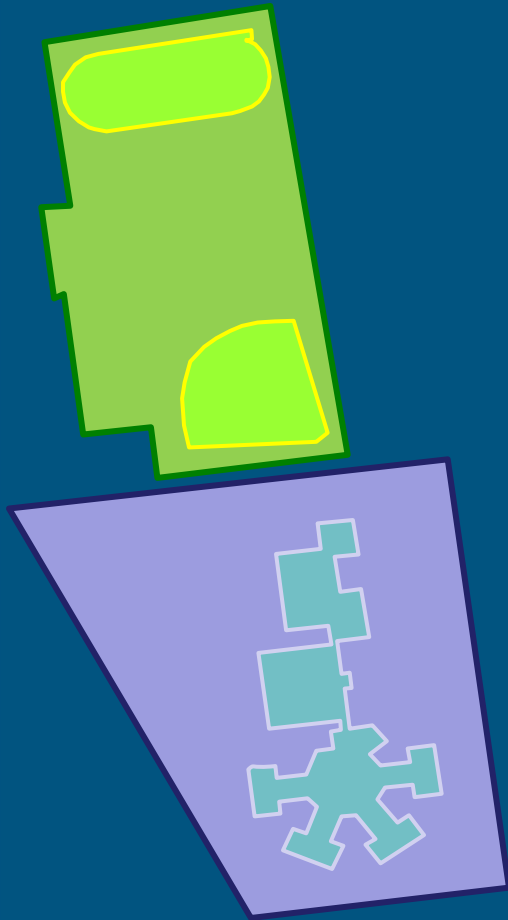
- ❑ **310 CMR 40.0191 Accurate and Complete Record Keeping** *“No person shall make, or cause any person to make, any false, inaccurate, incomplete or misleading statement in any document which that person keeps or is required to keep pursuant to M.G.L. c. 21E, 310 CMR 40.0000”*
- ❑ **Disclosure of Material Facts (310 CMR 40.0015)** *“identify in the LSP Opinion the material facts, data and other information known ... about the disposal site that is pertinent to the LSP Opinion”*
- ❑ **Certification of Submittals (310 CMR 40.0009)** *“...attest under the pains and penalties of perjury ...the material information contained in this submittal is... true, accurate and complete...”*

New Bedford High School Exterior

Update/Interim Comprehensive Site Assessment Walsh Field/NBHS Campus

□ TRC Interim Comprehensive Site Assessment Report

- Submitted July 21, 2009 (5,000+ pages)
- Supported remediation analysis for Walsh Field
- No current risk
- Comprehensive site assessment currently being updated



Post-Comprehensive Site Assessment Report Investigation



Work Completed at NBHS Campus

☐ Soil sampling (December 2008 – May 2010)

- Soil borings – 407
- Surface soil samples - 82
- Over 500 PCB soil analyses
- Approximately 300 PAH soil analyses
- Over 530 metals soil analyses
- Sixteen (16) chlorinated dioxin/dibenzofuran and PCB congener analyses
- Data collected to support remedial planning and risk assessment

Update/Discovery and Reporting

Volatile Organic Compound (VOC) Investigation

- ❑ **Mechanical room seep sampling (December/January/February 2010)**
 - Detected chlorinated volatile organic compounds.
 - Two out of four seeps
 - No benzene or related compounds detected
 - Evaluated sewage-related impacts

- ❑ **Groundwater sampling (January 2010)**
 - Evaluated association with groundwater
 - Evaluated potential for impacts associated with sewer system

Update/Discovery and Reporting

Volatile Organic Compound (VOC) Investigation

- ❑ **Field screened mechanical room air (Jan. 2010)**
 - Photoionization detector (PID) and Draeger tubes
 - No impacts detected

- ❑ **Modeled potential indoor air impacts (Jan. 2010)**
 - Based on VOC concentrations in seep
 - No Imminent Hazard

- ❑ **Reported to MassDEP (January 29, 2009)**
 - 72-hour notice category
 - Expedited response actions taken

Update/Initial Response Actions

Volatile Organic Compound (VOC) Investigation

- ❑ **Conducted indoor air sampling (January 31, 2010)**
 - Five (5) locations including mechanical room and classroom space
 - Detected chlorinated volatile organic compounds
 - Detected non-chlorinated volatile organic compounds (e.g., benzene)

- ❑ **Indoor air risk assessment (February 2010)**
 - Keith Middle School protocol
 - No significant risk

- ❑ **Published Fact Sheets/Posted on City Website**
 - First Fact Sheet - February 4, 2010
 - Updated Fact Sheet - March 2010

Update/Follow-up Investigation

Volatle Organic Compound (VOC) Investigation

- ❑ Chemical inventory/MSDS Review
(January/February/ March 2010)
- ❑ Building drawings review (Ongoing)
- ❑ Field survey of first floor drains/lines/ cracks/sinks
(February/March/April 2010)
 - A- and B-block
 - Screening and evaluating for potential sealing
 - Target for periodic trap management

Update/Follow-up Investigation

Volatle Organic Compound (VOC) Investigation

- ❑ Seepage mitigation evaluation (Initiated Feb. 2010)
 - Specialty vendor visits (April 2010)

- ❑ Sampled 10 storm sewer manholes and five sanitary sewer manholes (Feb. 2010)

- ❑ HVAC, air flow, building pressure evaluations (February 2010)
 - Certified Industrial Hygienist (CIH) system review
 - Mitigation by routine operation of HVAC system

Update/Follow-up Investigation

Volatle Organic Compound (VOC) Investigation

- ❑ **Nine new monitoring wells (February 2010)**

- ❑ **Sampled all new and existing NBHS monitoring wells - 16 total (February 2010)**
 - Limited number of wells with detects
 - No benzene or related compounds detected.
 - Revised groundwater elevation contour map

- ❑ **Installed five additional monitoring wells before the April vacation week (April 2010)**

Update/Follow-up Investigation

Volatile Organic Compound (VOC) Investigation

- ❑ Installed/sampled 11 temporary soil gas points
(February 2010)
 - Low concentration detections
 - Chlorinated volatile organic compounds
 - Benzene and related compounds
 - No vinyl chloride detected

- ❑ Installed 8 permanent soil gas points
(February 2010)
 - Previously installed vapor barrier encountered in all locations

Update/Follow-up Investigation

Volatile Organic Compound (VOC) Investigation

- ❑ **Camera inspection of sanitary sewer line (March 2010)**
- ❑ **Collected 12 indoor air samples (April 2010)**
 - **Low concentration detections**
 - **Ten of twelve samples below screening thresholds**
 - **Chlorinated and non-chlorinated (e.g., benzene) volatile organic compounds**
 - **No exceedance in Classroom A-3-112/No subsurface impacts**
 - **Mechanical Room exceedances**
 - **Lecture Room source requires further evaluation**
 - **No Imminent Hazard condition or current chronic risk**

Update/April Investigation

Volatle Organic Compound (VOC) Investigation

- ❑ **Sampled 8 permanent soil gas points (April 2010)**
 - **Concurrent with indoor air sampling**
 - **Mechanical Room vapor point sampled twice**
 - **Concentration detections**
 - **No VOCs above screening thresholds in six of eight vapor points**
 - **Detections:**
 - **Chlorinated volatile organic compounds**
 - **Benzene and related compounds**
 - **Vinyl chloride detected in Mechanical Room samples only**

Update/April Investigation

Volatle Organic Compound (VOC) Investigation

- ❑ **Sampled 10 groundwater monitoring wells (April 2010)**
 - Five existing and five newly installed monitoring wells
 - No VOCs in excess of state standards in eight of ten monitoring wells
 - Low concentration detections
 - Chlorinated volatile organic compounds (e.g., vinyl chloride)
 - Relatively small source area of VOC impacts
 - Supplemental groundwater elevation gauging

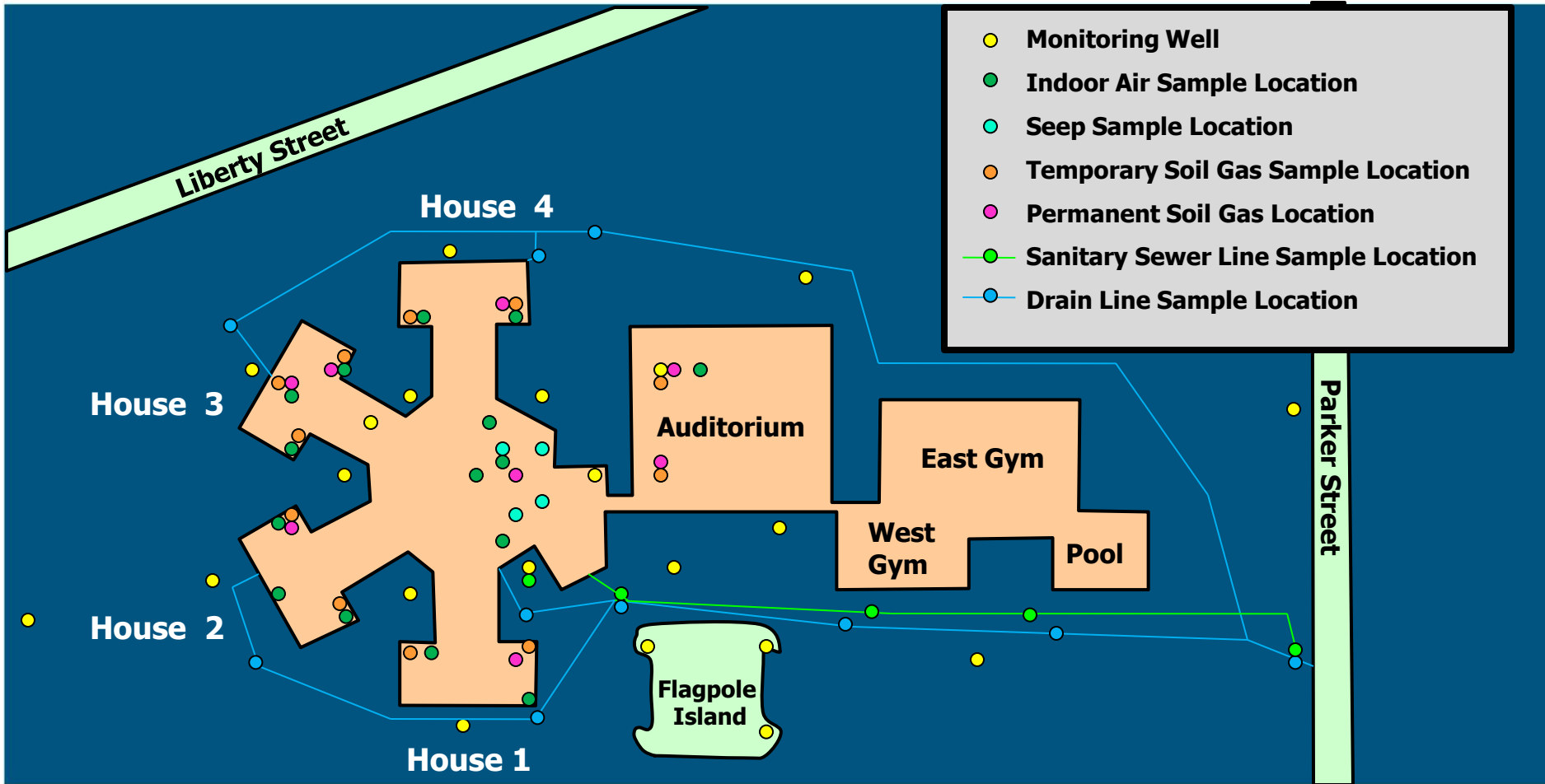
Current Activities

Volatle Organic Compound (VOC) Investigation

- Assessment of Mechanical Room seep mitigation options**
 - Specialty vendor bids in and currently under review
 - Three (3) floor drains plugged (April 2010)
 - Two (2) floor cracks sealed (April 2010)
- Evaluation of VOC sources (other than groundwater) in Mechanical Room and Auto Shop**
- Additional indoor air sampling of select locations**
- Evaluation of groundwater VOC remediation options**
- As need additional sampling of other media (e.g., soil vapor and groundwater)**
- Updated fact sheet (June 2010)**

Update/Investigation Locations

Volatile Organic Compound (VOC) Investigation



NBHS Soil Sampling for Dioxins (April 2010)

Summary of Investigative Technical Approach

❑ Sampling approach

- Five soil borings
- Top foot, 1-3 feet, and fill

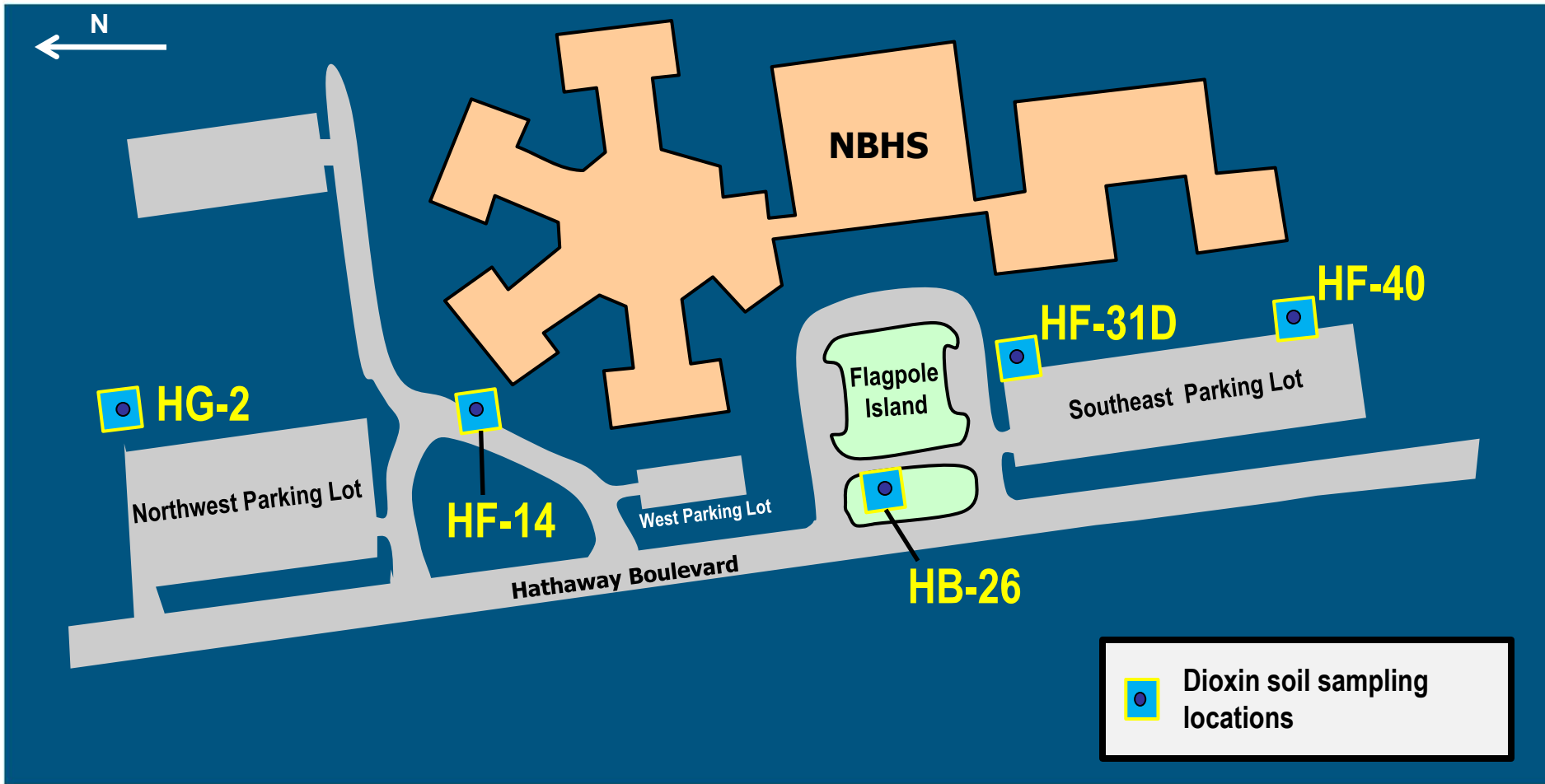
❑ Analytical suite

- Chlorinated dioxins and dibenzofurans and PCB congeners
- PAHs, Metals and PCB aroclors
- VOCs (other analyses) if warranted by screening
- Analytical data under evaluation

❑ Selection based on review of database

NBHS Soil Sampling for Dioxins

Approximate Sample Locations



NBHS-Liberty Street Drainage Line

Sampling (May 2010)

Summary of Investigative Technical Approach

Sampling approach

- Eight soil borings (three on NBHS campus)
- Top foot, 1-3 feet, and depth of drainage line
- Sampled for PCB aroclors

EPA to review data to determine regulatory jurisdiction

Drainage line to be installed in accordance with MCP Utility-Related Work Plan

Currently scheduled for summer 2010

- Work will not be conducted while school is in session

New Bedford High School PCB-Containing Building Materials

Update/NBHS Building Materials

Anticipated Schedule for 2010

□ Action

- Removal/Abatement Plan (RAP)
- Plans and specs
- Implementation

□ Date/Time Frame

- March 2010
- Submitted to City March 2010
- Summer 2010

Update/NBHS Building Materials

2010 Response Actions

- B-Block Univent removal and replacement
- Wall paint (Rooms B-230, A-211-3, A-213-4)
- Foam furnishings beyond useful lifetime
- Maintenance/covering (caulking, sealants, mastics)
- Incidental asbestos management
- Address per the regulations in consultation with EPA

Update/NBHS Building Materials/Other Future Activities

- Schedule further abatement per EPA regulations**
- Collect data for remedial planning**
- Continue maintenance measures**

Community Questions

NBHS Building Materials

Q. Provide a list of classrooms where PCB Bulk Wastes have been removed as well as classrooms that remain to be addressed?

A. During the summer of 2009, oversaw the removal of the following building material items:

- Laminated cabinets (B-319-3, A-205-4, and B-240)
- Painted sheet rock walls (A-206-4)
- Furniture and gym mats with polyurethane foam (various locations)

In Summer of 2010, B-Block Univents removal and replacement and wall paint (Rooms B-230, A-211-3, A-213-4).

Community Questions

NBHS Building Materials

Q. What are the most current air quality test results of the entire school with special consideration to the areas around the rooms where TRC has been conducting removal of PCB contaminated materials?

A. Collected 24 interior air samples for PCBs in February 2008. The results and accompanying letter dated April 2008 are posted on the City's website.

Community Questions

NBHS Building Materials

Q. How are the materials being contained within the classrooms before being brought out?

A. Work performed in negative pressure enclosure with HEPA filtration to the exterior of the building. Dust monitoring immediately outside the Containment Area. Additional monitoring for fibers where asbestos containing materials (ACM) are involved. PCB Bulk Product Wastes double wrapped in plastic prior to transfer to staging area for disposal.

Community Questions

NBHS Building Materials

Q. How are the tools used for this work decontaminated before being brought out?

A. Contaminated building materials were double wrapped with 6 mil poly sheeting and sealed with duct tape. High-Efficiency Particulate Air (HEPA) filter equipped vacuums used to remove dust and debris. Areas wiped down with a tri-sodium phosphate (TSP) cleaning solution and rags. Containment, wrapped contaminated materials, and equipment also wiped down with TSP cleaning solution.

Community Questions

NBHS Building Materials

Q. If teachers/staff are worried about a particular issue at the NBHS, whom should they contact?

A. If you have questions or concerns, please contact Cheryl Henlin, City of New Bedford Environmental Stewardship Department, at (508) 991-6188 or email cheryl.henlin@newbedford-ma.gov

Walsh Field

Walsh Field - Regulatory Process Update

□ Work Plans for Soil Management/Remediation

➤ Varsity Improvements

- Soil management associated with construction and refurbishment activities
- Varsity field water line installation on June 10, 2010

➤ Walsh Field Soil Removal

- Varsity diamond scheduled for Summer 2010

Update/Walsh Field Remediation

Soil Excavation and Landfill Re-use

Regulatory Filing

- Work Plan - October 2009
- Completed public review period

Actions Taken

- Excavated 1,052 tons of soil
- Soil accepted at Crapo Hill

Future Response Actions

- Summer 2010 – Varsity ball field

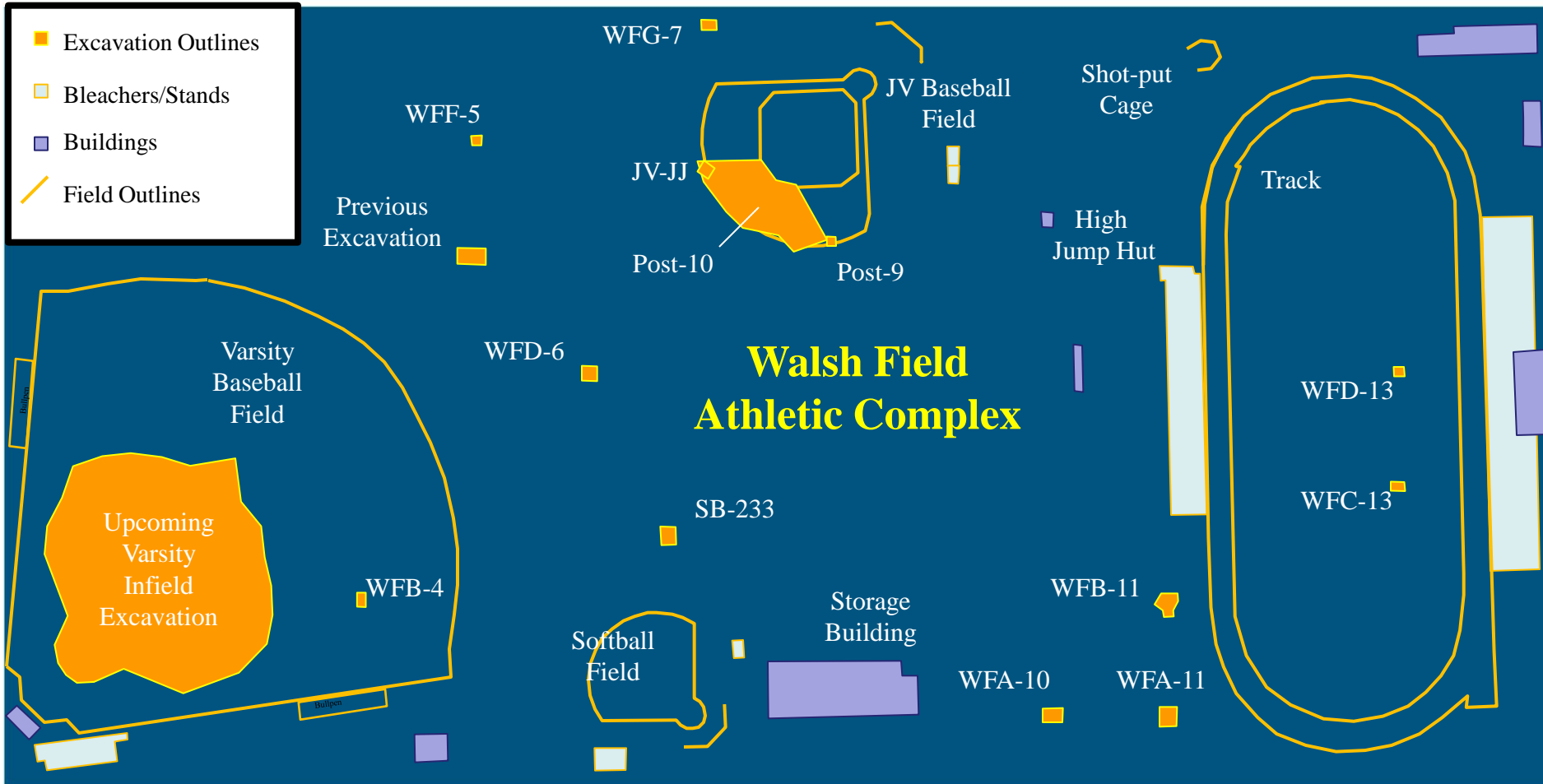
Completion of activities

- Varsity response action
- Varsity improvements

Partial closure report to be prepared

- Activity and Use Limitation

Excavation Locations at the Walsh Field Athletic Complex



Community Questions - Walsh Field

Q. Has the remediation work been completed at Paul Walsh Field and if not, when?

A. Response actions at Paul Walsh Field were initiated in the Fall of 2009. Remaining field work includes the excavation of soil from the Varsity Field and associated restoration in Summer 2010.

Q. When remediation work is completed, will the field be perfectly safe for all human activities?

A. The remediation at Paul Walsh Field will render the field suitable for active and passive recreational activities.

Thank You for Your Time and Attention

Questions are Welcome