

Garfield Avenue Site Cleanup Full Excavation Plan Public Meeting

March 3, 2011
6:30 p.m.

Mary McLeod Bethune Life Center
140 Dr. Martin Luther King Jr. Drive
Jersey City, N.J.

Chromium Cleanup
Partnership

N.J. DEPARTMENT OF ENVIRONMENTAL PROTECTION
CITY OF JERSEY CITY
PPG INDUSTRIES
COURT-APPOINTED SITE ADMINISTRATOR

Meeting Overview

- Welcome / Introduction
- Updates
- Full Excavation Plan
- Q&A
- Open Information Session

Welcome / Introduction

- Remarks - Mayor Healy
- Program Format
- Next meeting - May 19

Updates

- Cleanup to Date
- Exposure Prevention/Air Monitoring
- Site Security
- Blood Sampling Program
- Residential Inspection Program

Update

- Cleanup to Date

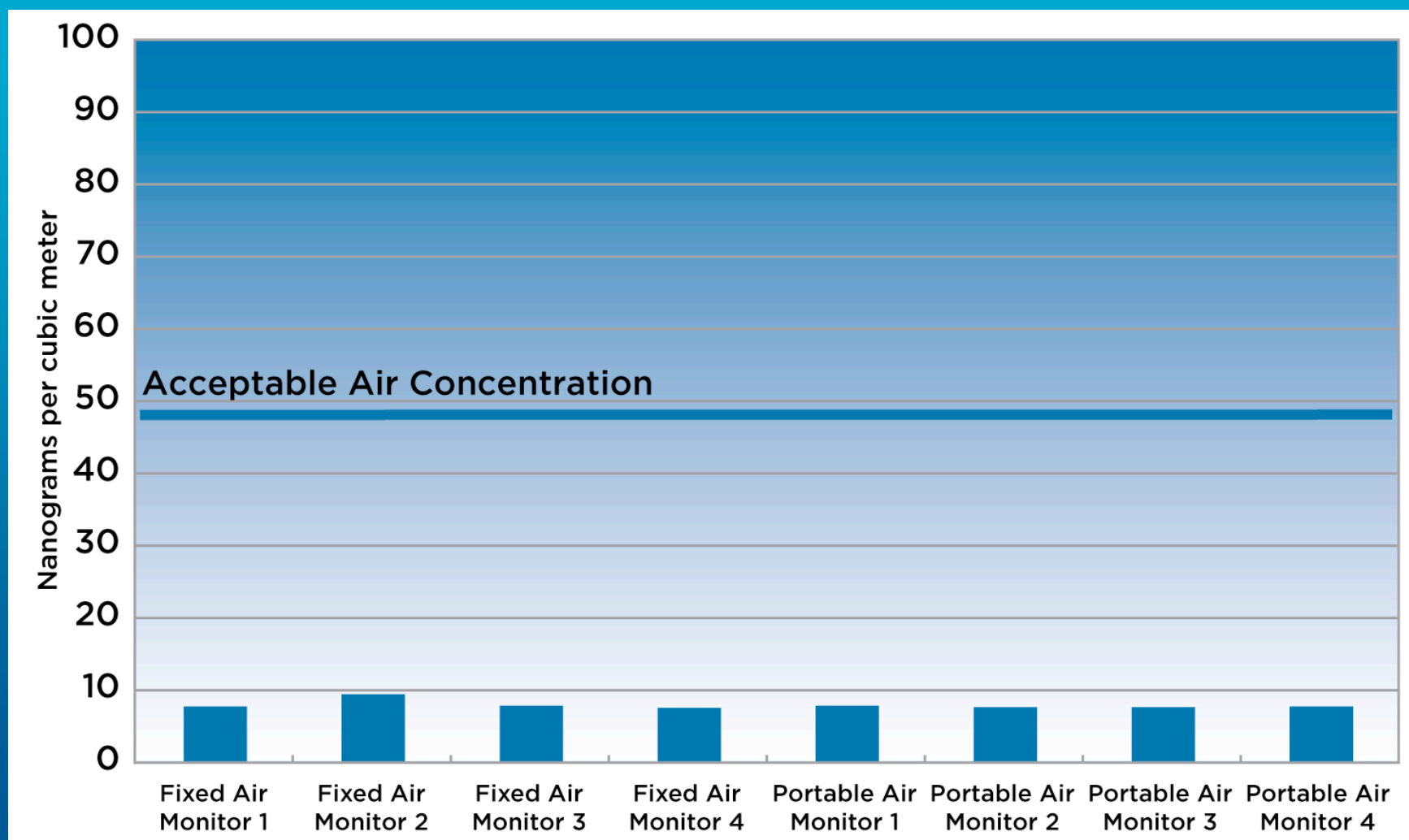
- Cleanup started July '10
- More than 50,000 tons of chromium contaminated waste dug up and sent to government approved disposal facility:
 - 15,000 tons of highly contaminated waste
 - 30,000 tons of soil mixed with waste
 - 6,000 tons of concrete and steel
- Increased variety of activity on site

Update

- Exposure Prevention/Air Monitoring
 - Dust and hexavalent chromium levels stayed below DEP-approved air-quality limits
 - Air monitoring conducted 24/7
 - Two full-time air monitoring technicians on site
 - Multiple prevention and protection plans
 - Dust Control, Air Monitoring, Traffic Safety and Control, Site Health & Safety

Cleanup to Date Average Concentrations

Hexavalent chromium (Through Feb. 17)



Update

- Site Security

- 24/7 Security guards
- Internal alarm notification system
- Management on-call 24/7
- Loaded trucks required to pass extensive screening before leaving the site
- Secure perimeter fencing
- Surveillance cameras

Update

- Blood Sampling Program

- Before cleanup began in July '10, blood samples were taken from 42 residents living near the Garfield Avenue site
- Results showed that there were no detectable levels of chromium that would indicate exposure to contaminated waste
- Exposure no different from other urban areas without chromium sites
- Samples analyzed by independent, certified laboratory
- Program administered by EOHSI
- First in a series of samples – Round 2 underway

Update

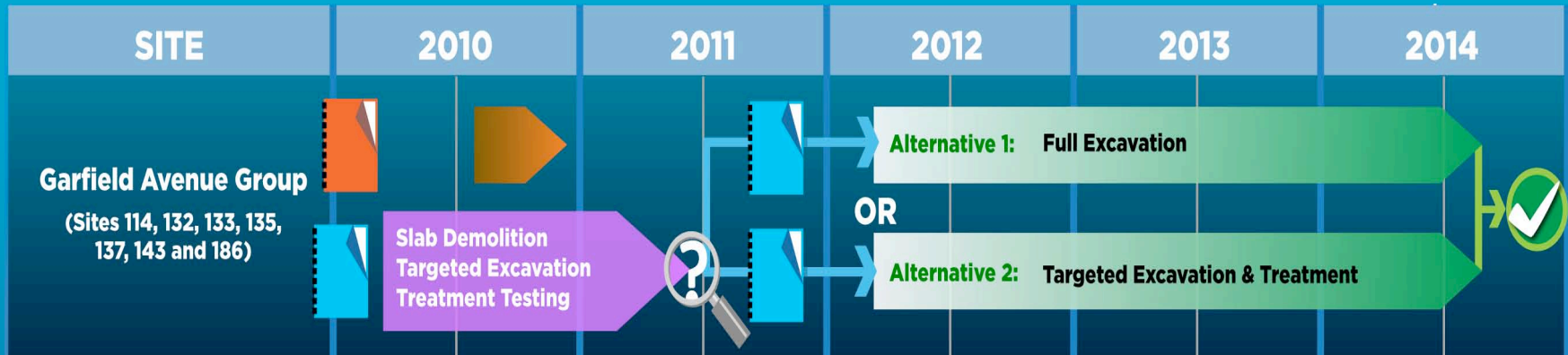
- Residential Inspection Program

- 64 requests received to date
- Record searches conducted for 54 properties
 - 8 sites were outside of the covered area
 - 1 request to determine eligibility
 - 1 in process
- Record searches indicated that there was no history of chromium waste on any of the properties
- Follow-up physical site inspections requested by property owners and lab results from soil sampling have not identified chromium waste at any residential property

Garfield Avenue Group Sites

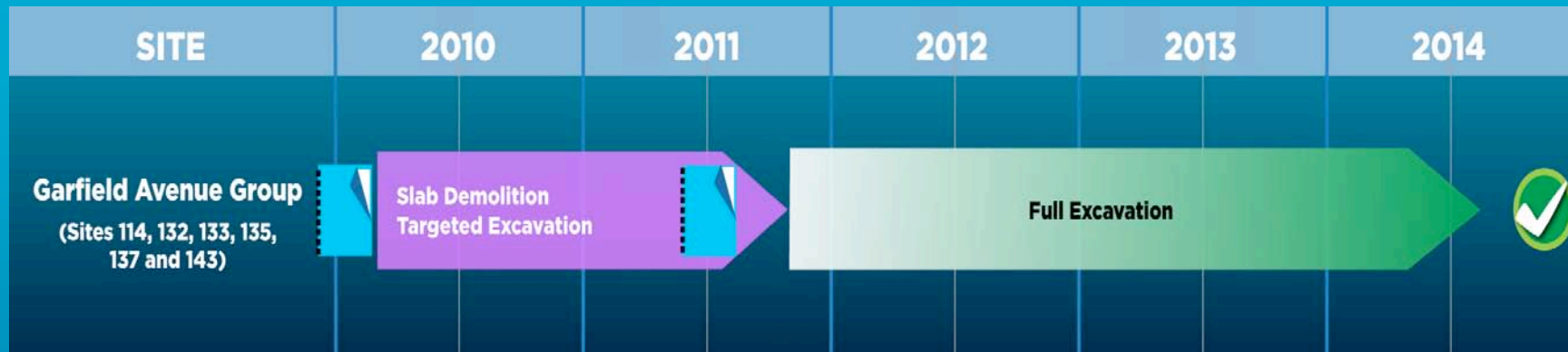


Original Plan for Garfield Avenue Group



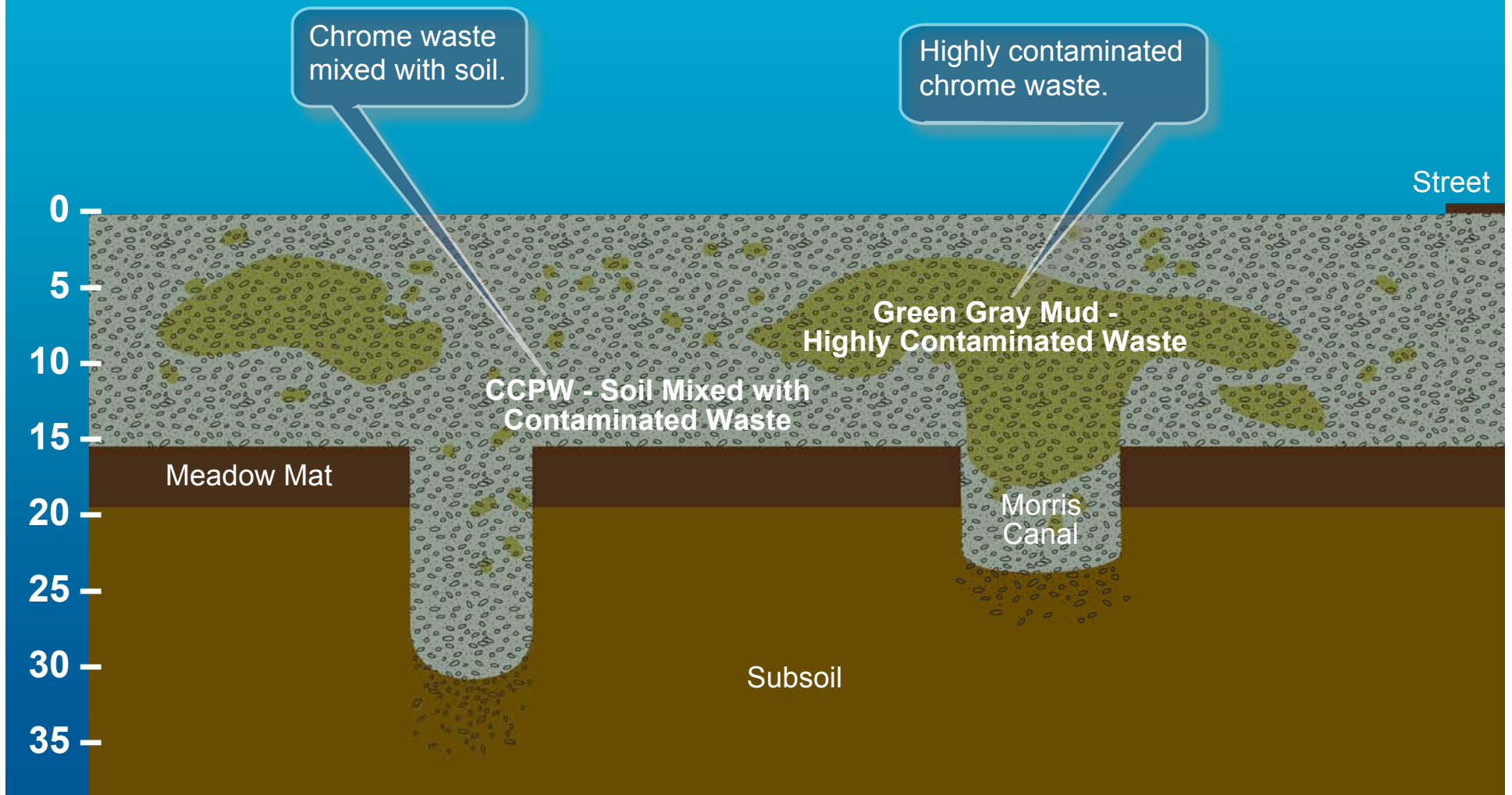
- Initial cleanup and treatment study: 7/10 - 6/11
- Alternatives analysis, final cleanup selection, design and review: 7/11 - 3/12
- Full-scale start-up of selected cleanup plan: 4/12
- Cleanup complete - Fall 2014

Revised Plan for Garfield Avenue Group



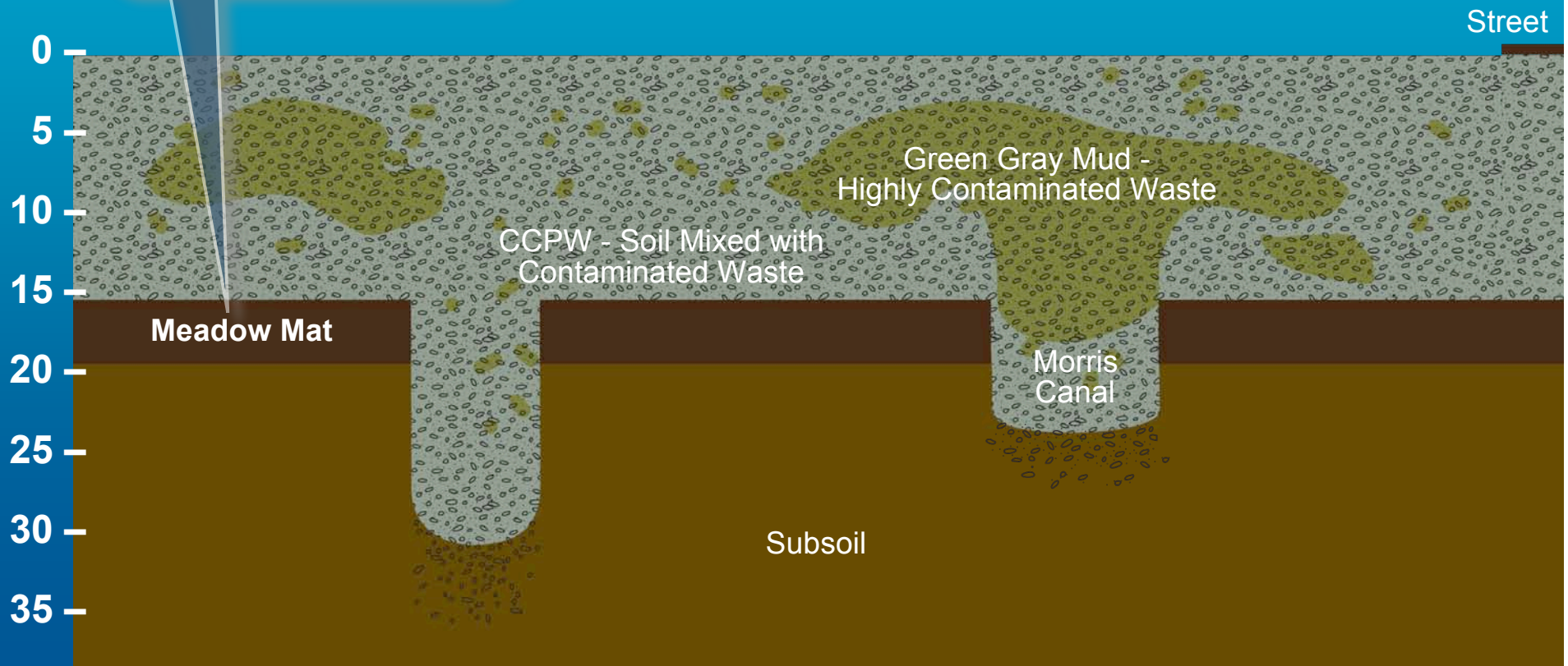
- Full excavation plan submitted to Superior Court: 11/23/10
- PPG to remove 700,000 tons of chromium waste
- Community preference and cleanup experience led to decision
- Sources of chromium waste removed to depth of 20 to 35 feet or where competent meadow mat is reached
- Excavated site will be filled with clean material
- Inaccessible areas, such as roads and light rail, will use treatment and/or containment
- On-Site wastewater treatment plant will be built
- Groundwater will be treated into the future

Garfield Avenue Site

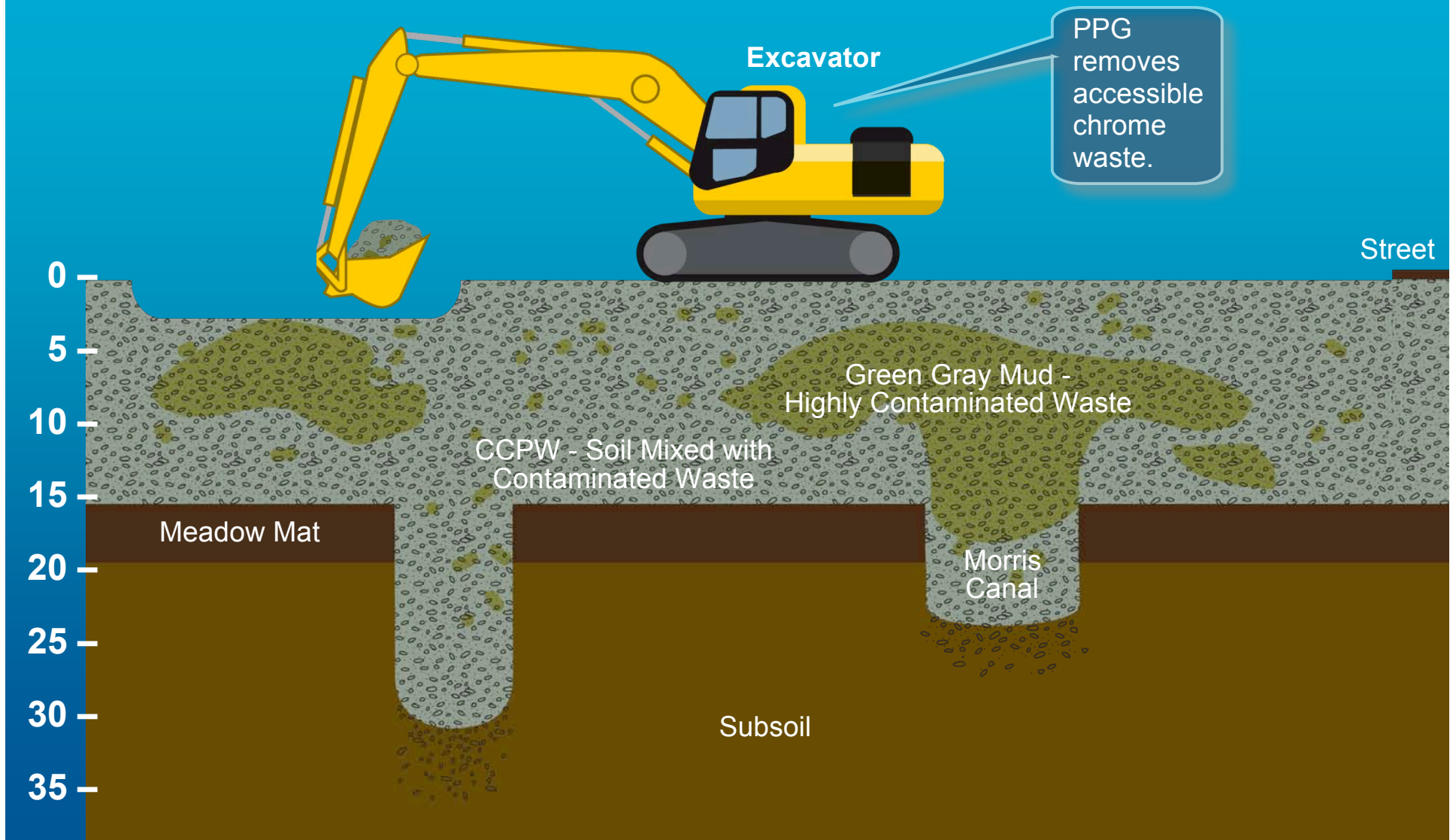


Garfield Avenue Site

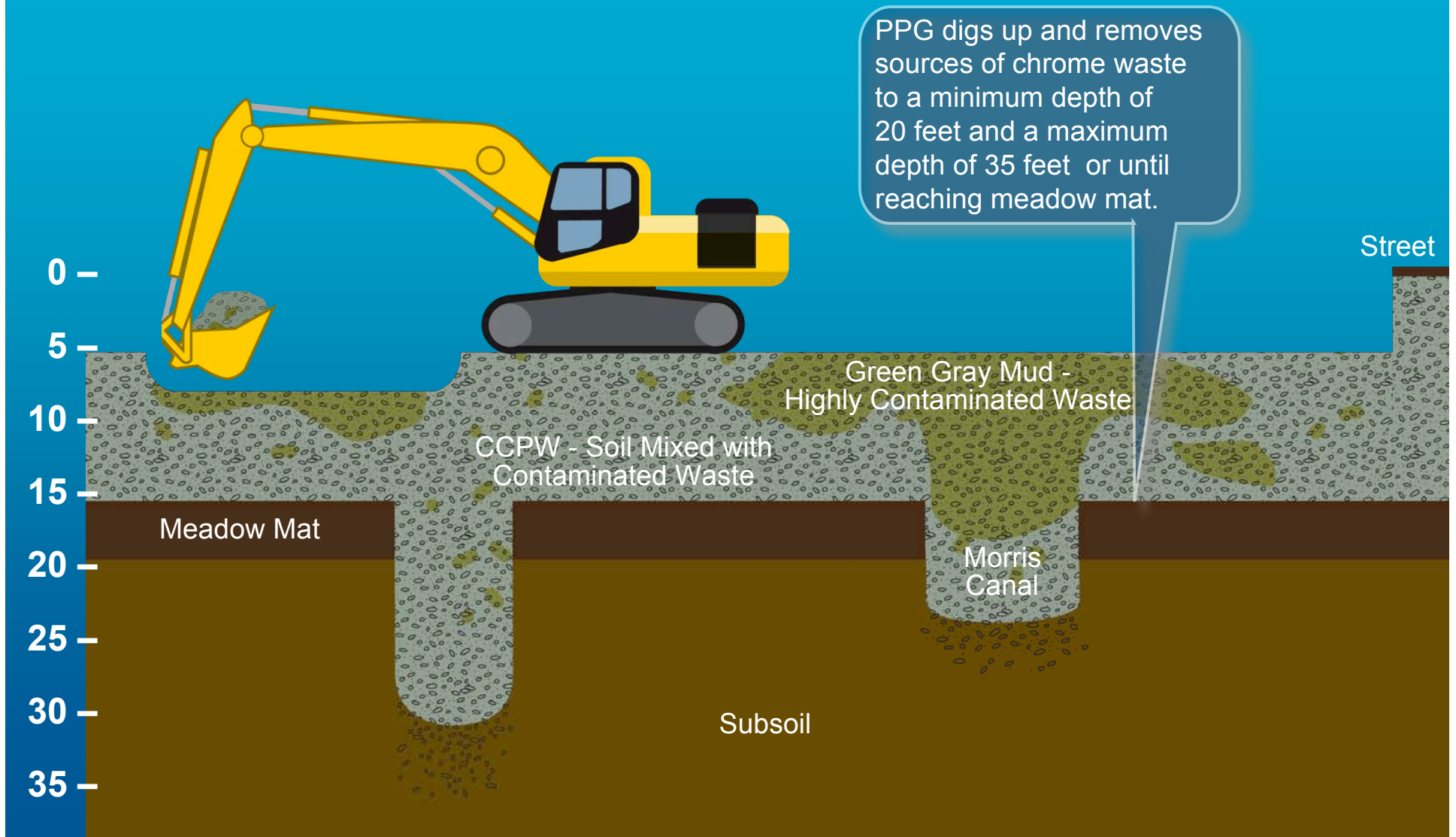
Naturally occurring layer of peat reduces hexavalent chromium into a harmless trivalent state.



Garfield Avenue Full Excavation Plan

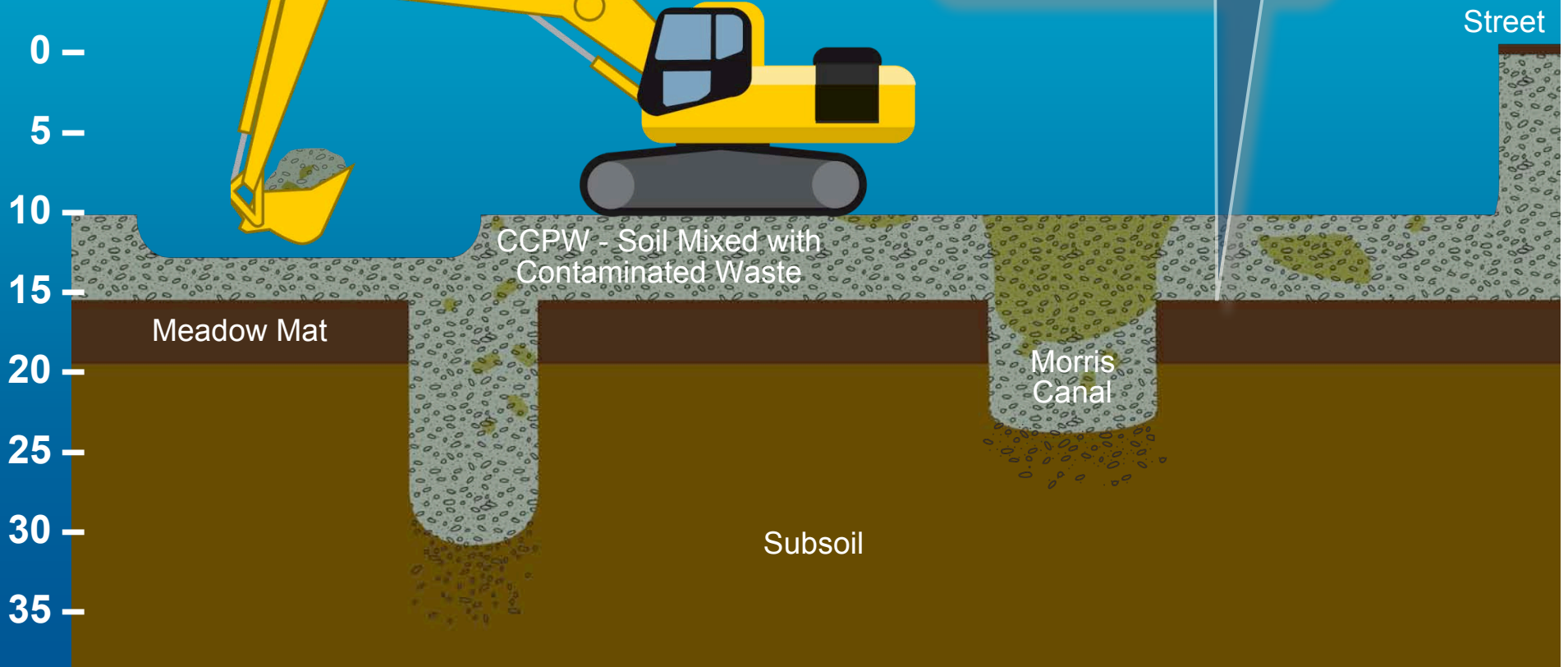


Garfield Avenue Full Excavation Plan



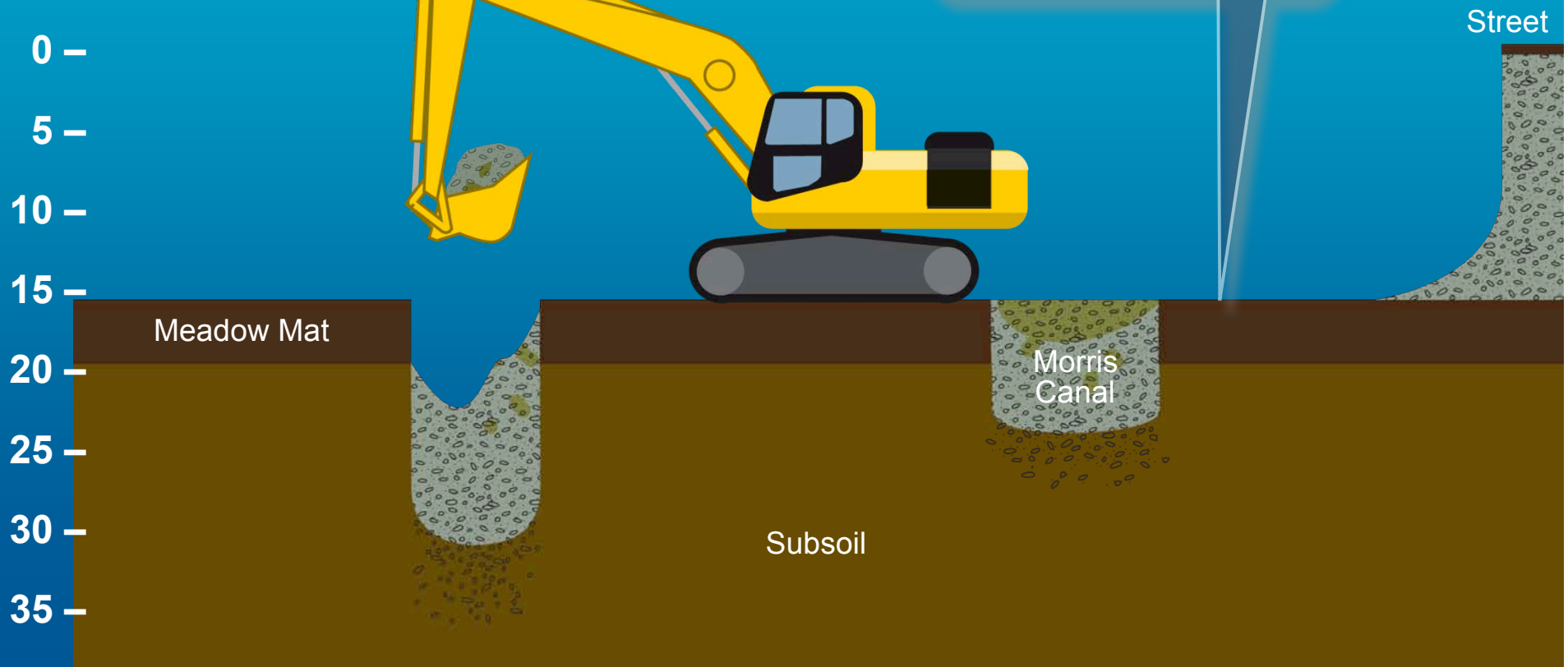
Garfield Avenue Full Excavation Plan

PPG digs up and removes sources of chrome waste to a minimum depth of 20 feet and a maximum depth of 35 feet or until reaching meadow mat.



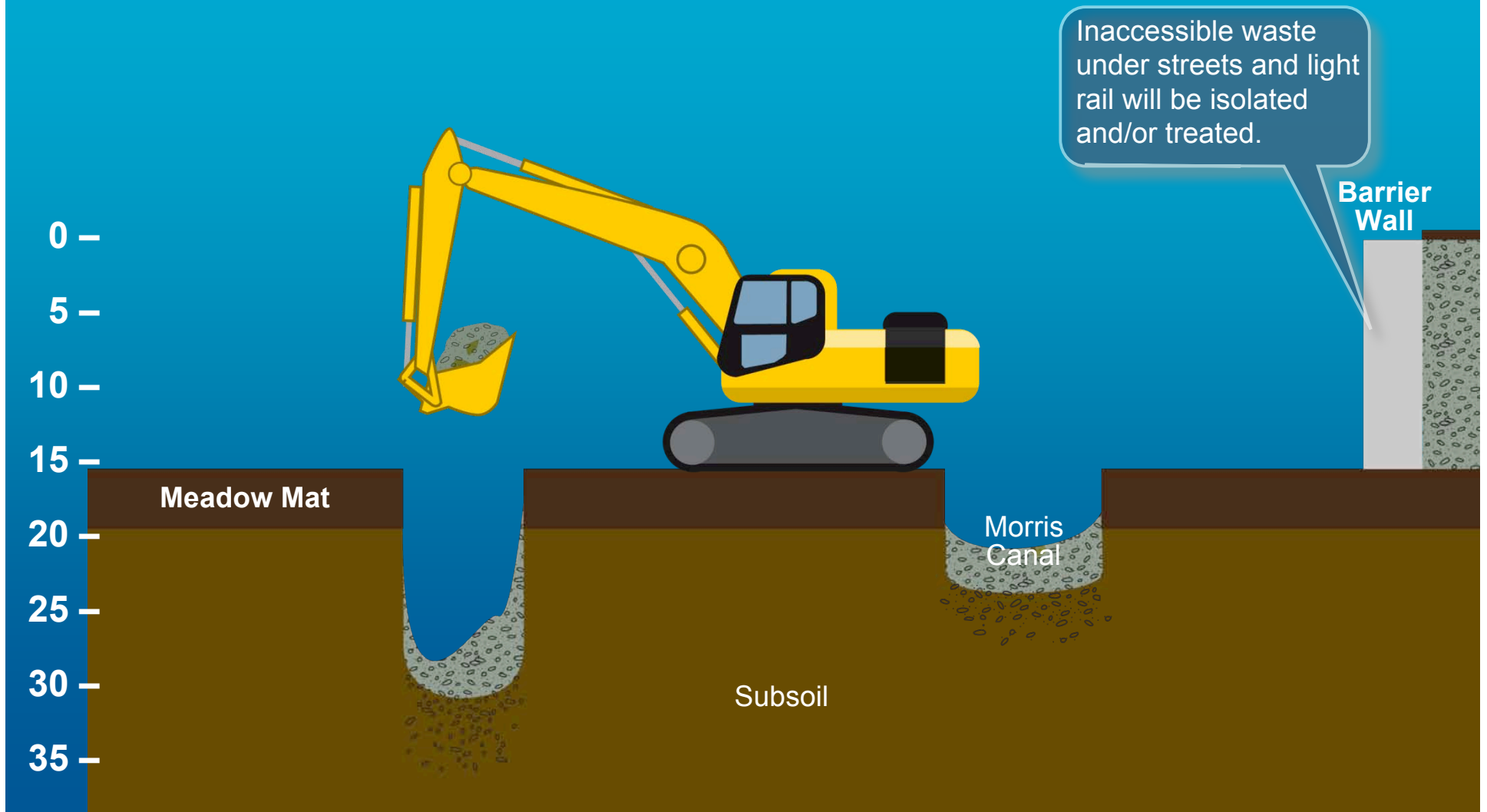
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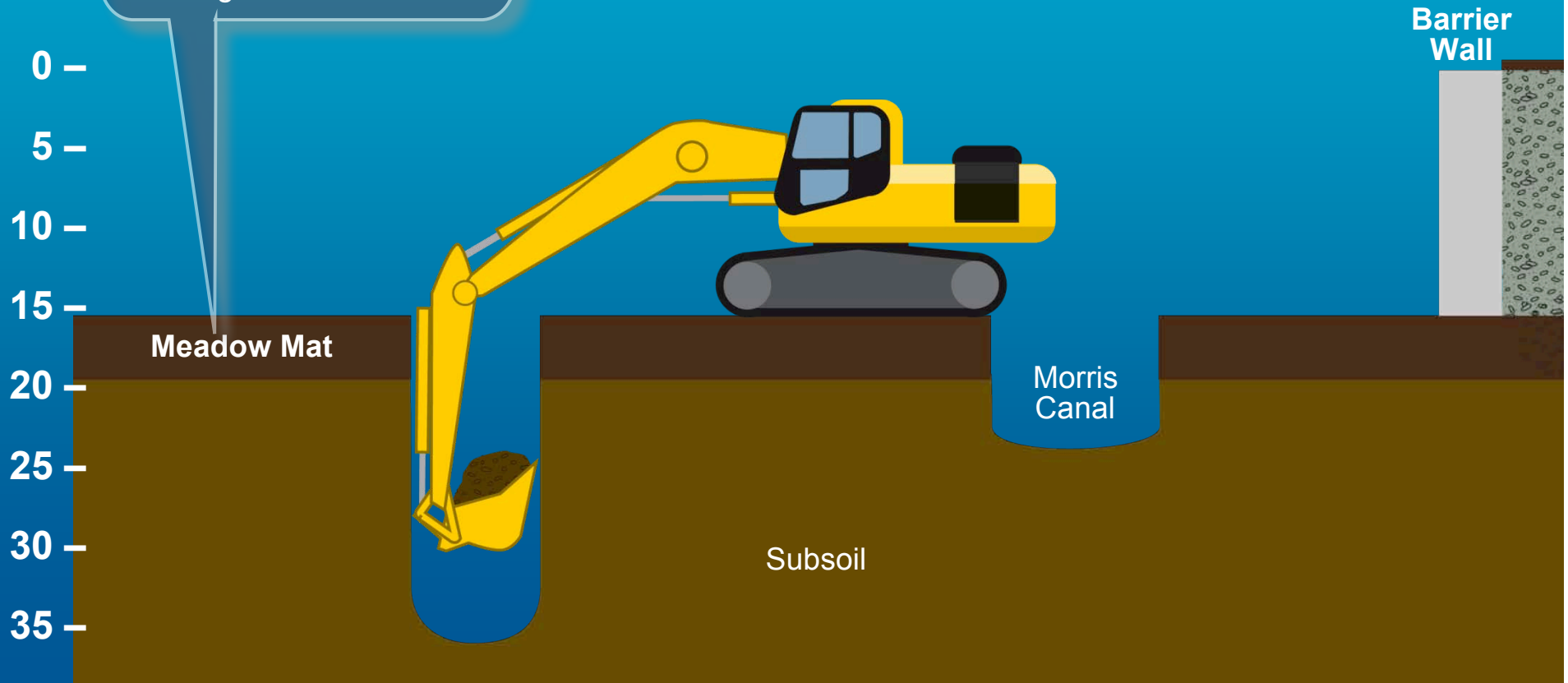
Garfield Avenue Full Excavation Plan



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Garfield Avenue Full Excavation Plan

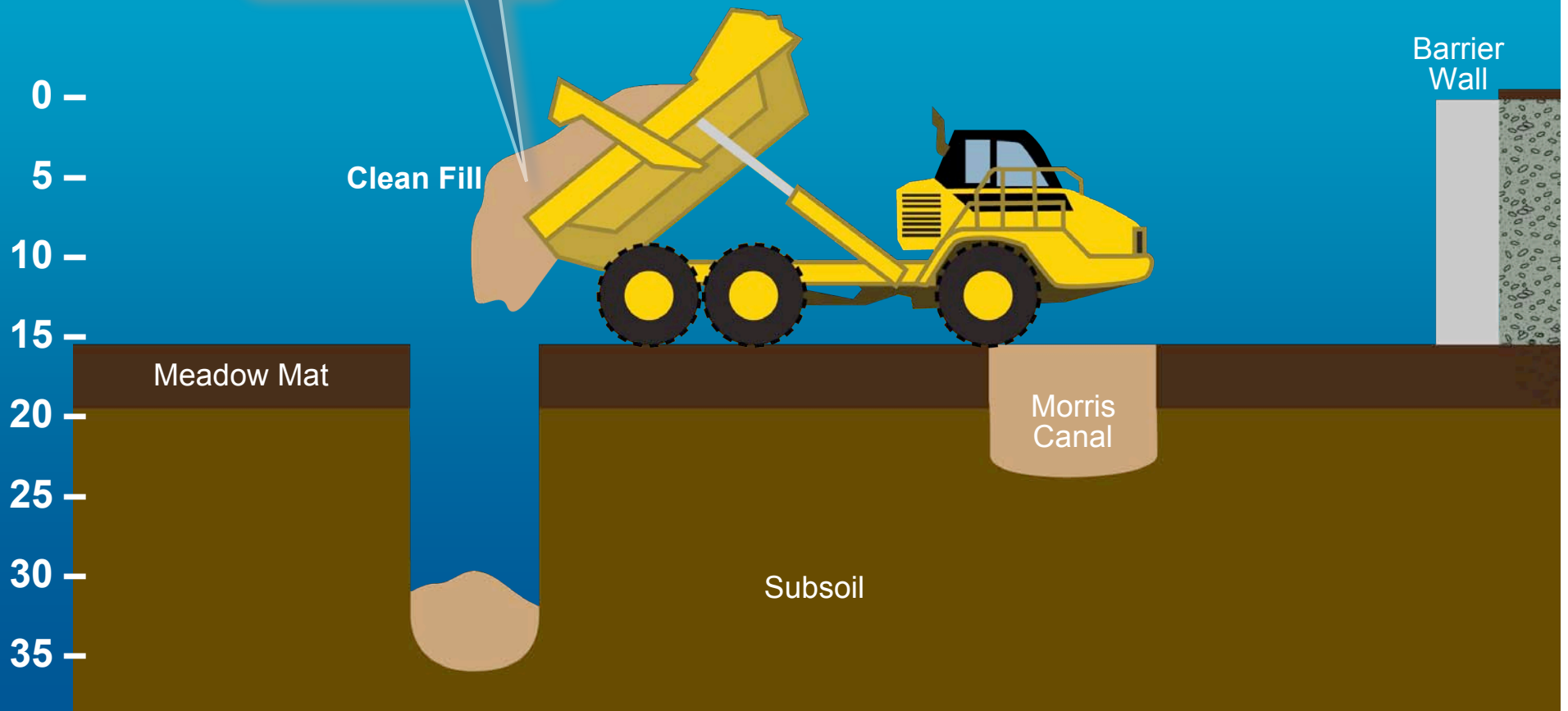
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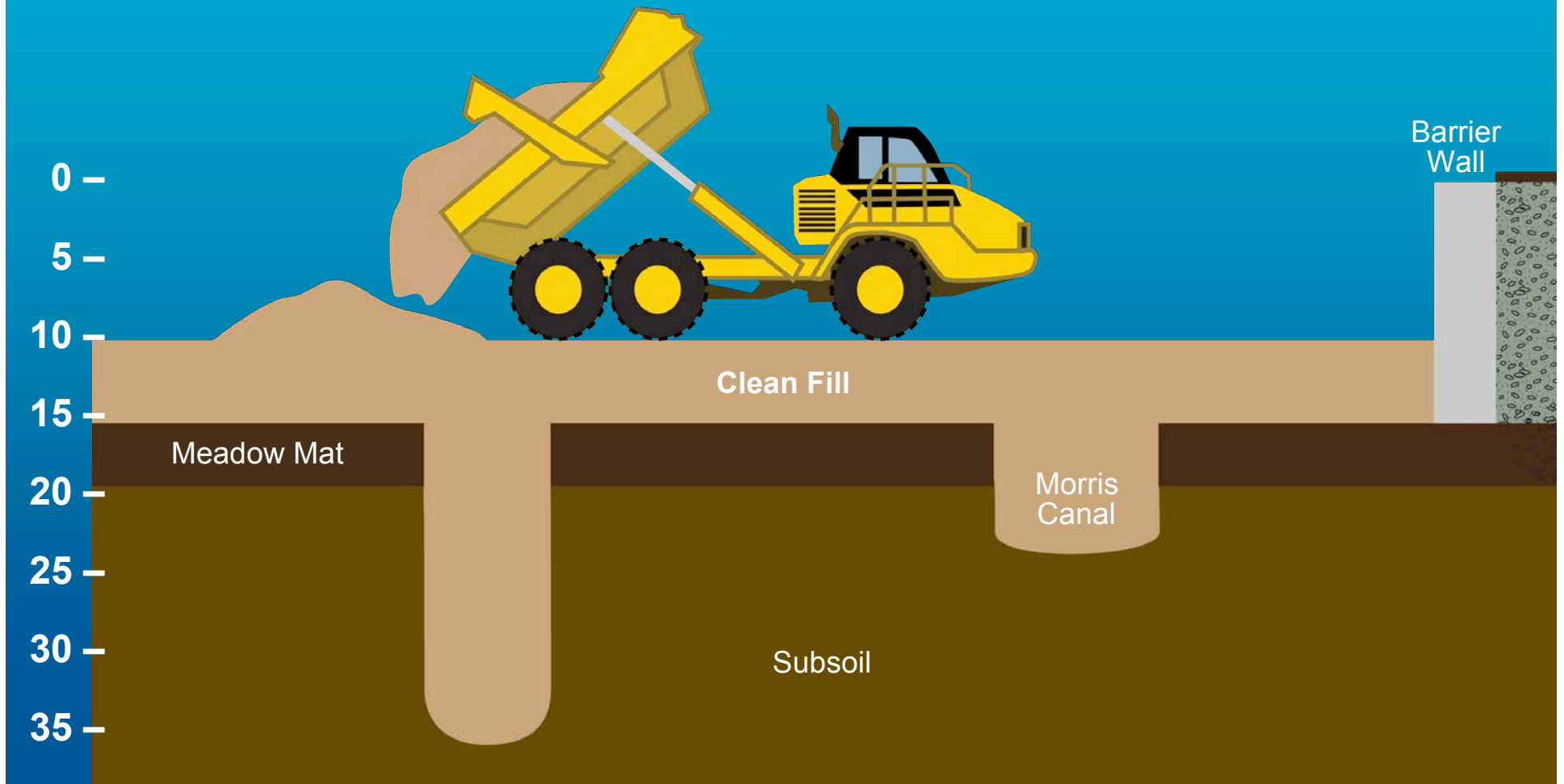
Garfield Avenue Full Excavation Plan

PPG replaces excavated waste with clean fill.

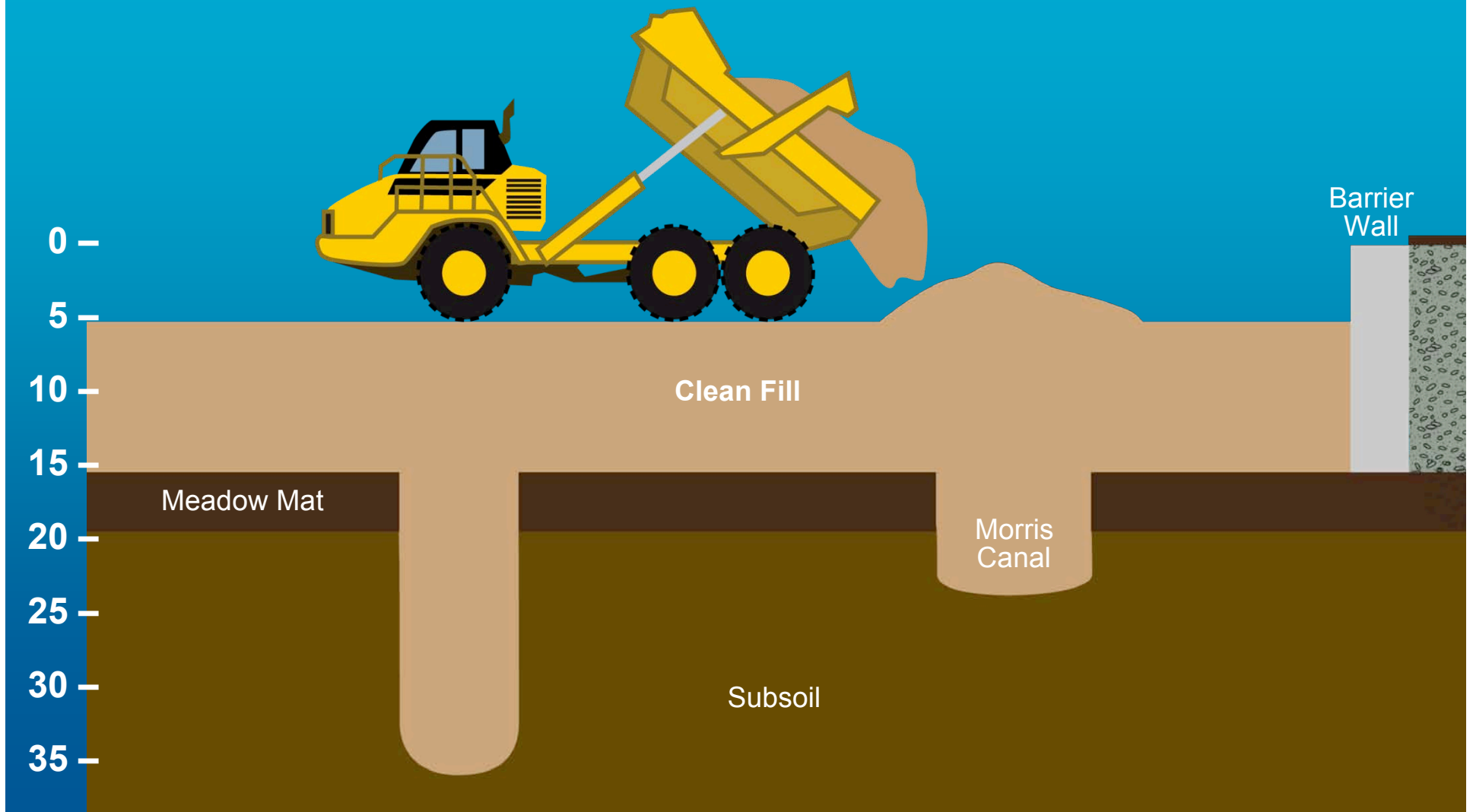


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Garfield Avenue Full Excavation Plan

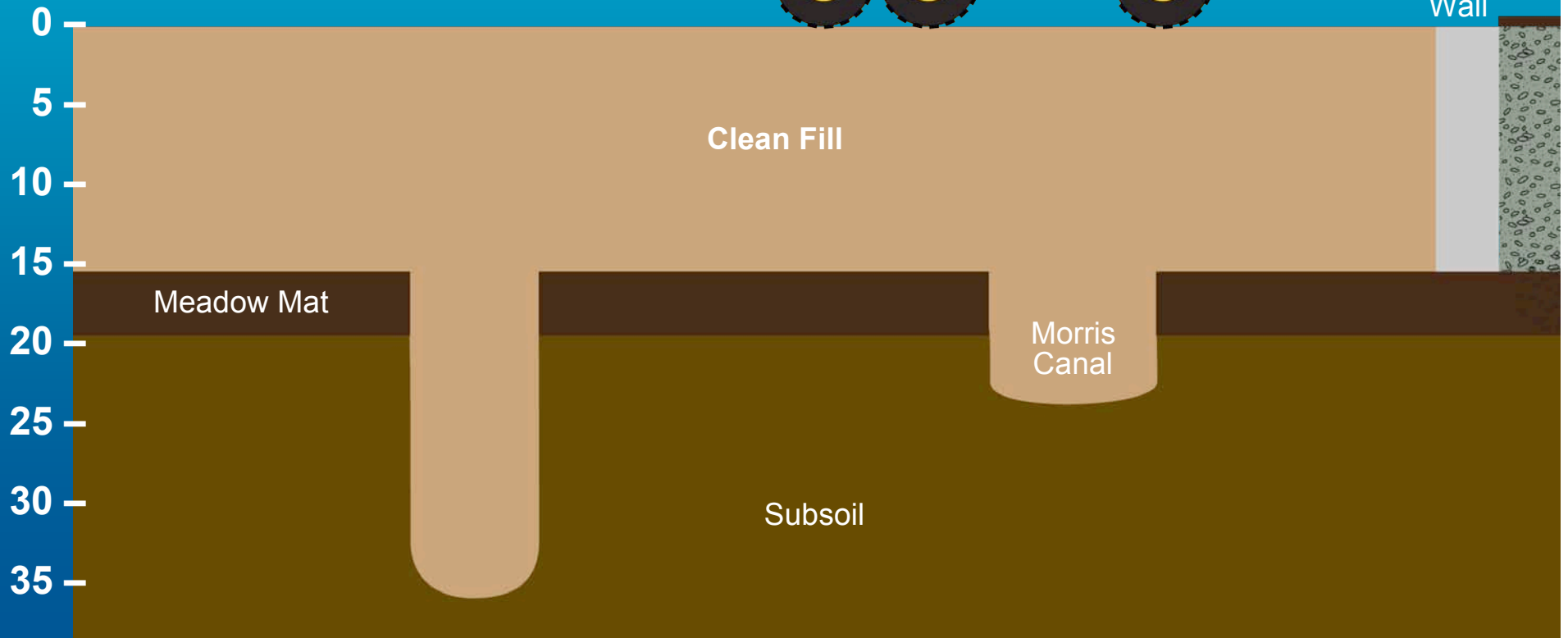


Garfield Avenue Full Excavation Plan



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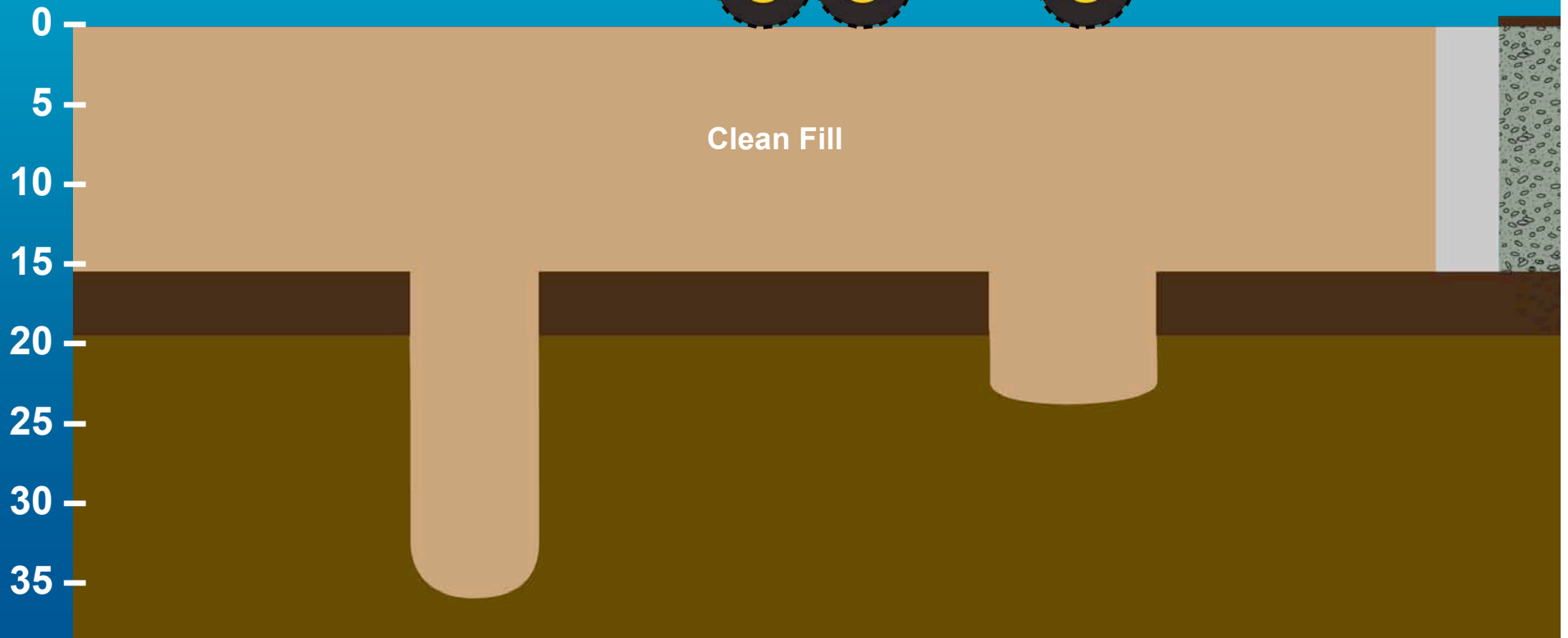
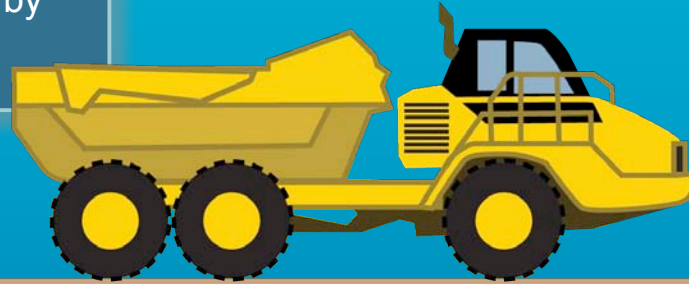
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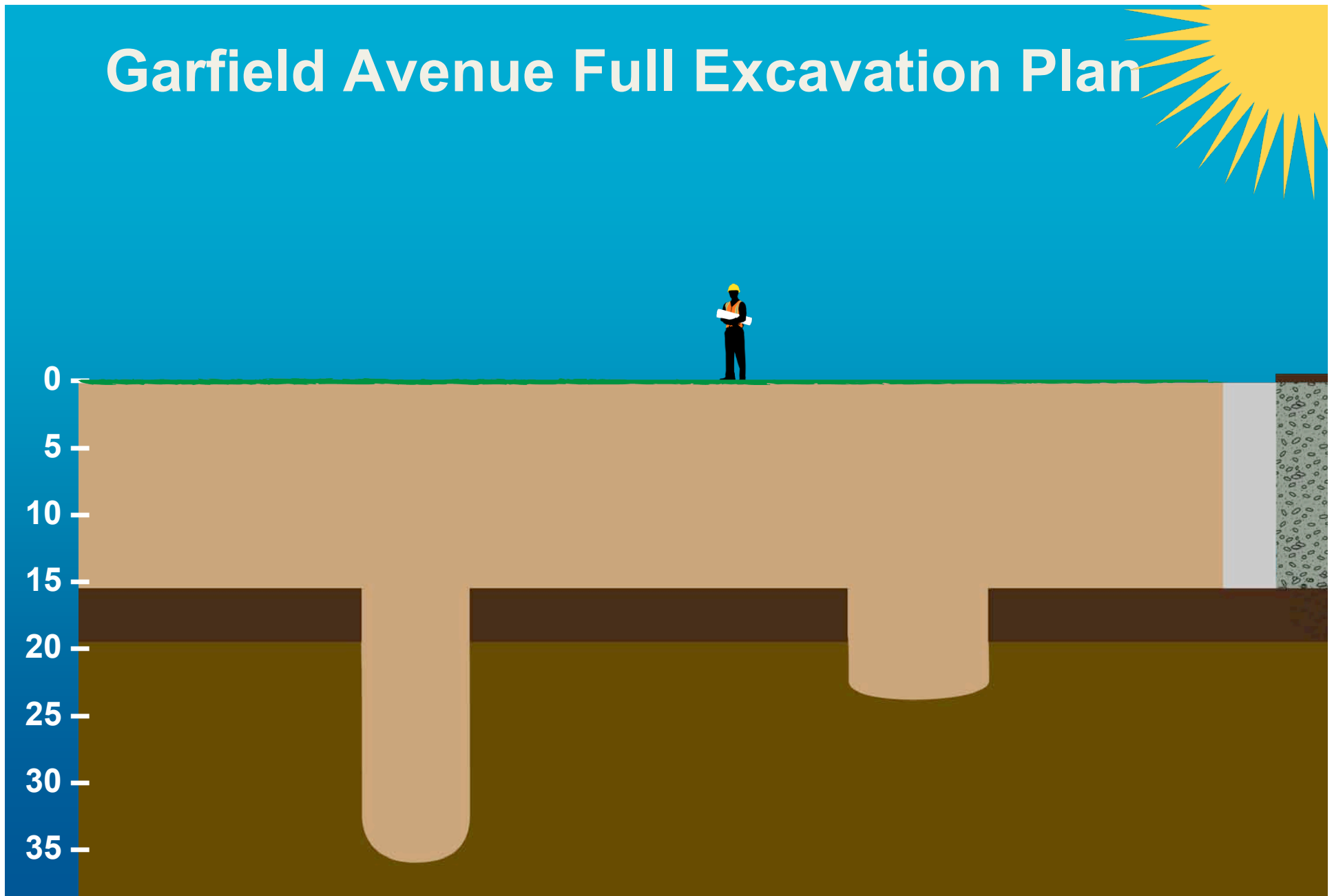
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Garfield Avenue Full Excavation Plan

Cleanup is scheduled to be completed by end of 2014.



Garfield Avenue Full Excavation Plan



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Comprehensive Exposure Prevention Plans

- Multiple, overlapping prevention and protection plans
 - Dust Control Plan
 - Air Monitoring Plan
 - Traffic Safety and Control Plan
 - Site Health & Safety Plan
 - Community Exposure Prevention and Testing Program

Next Public Meeting

May 19, 2011

How to Reach Us

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Tuesdays and Thursdays 10 a.m. - 2 p.m.