#### Alameda County Environmental Health Meeting Sign-In Sheet

Mandela Reuse 1125 Mandela Parkway, Oakland, CA RO0003184

Friday, August 28, 2015 2:00 PM

NAME	COMPANY	MAILING ADDRESS	PHONE	Signature	E-MAIL
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# REMEDIAL ACTION PLAN 1125 MANDELA PARKWAY OAKLAND, CALIFORNIA

# PROJECT OBJECTIVES

- Remove potential environmental risks associated with direct contact
- Achieve case closure for unrestricted land use with Alameda County Environmental Health (ACEH) to allow redevelopment of subject property by Smart Growth Inc. for residential land use

# SITE BACKGROUND

- 1957 pre-circa 1970: Former gasoline service station
- 1973 Property purchase by Thompson (former address of 1409-1417 12<sup>th</sup> Street)
- Potential existence of four (4) underground storage tanks (USTs) or aboveground storage tanks (ASTs) in southeast corner of property
- No formal UST removal reports on file with the City of Oakland Fire Department
- Currently sitting as an undeveloped, unpaved vacant lot

# PREVIOUS INVESTIGATIONS & CORRECTIVE ACTION

1999: Blymyer Engineers Subsurface Investigation

- Elevated levels of TPHs in soil and groundwater
- Magnetometer survey no evidence of buried USTs
- 2007 2008: Site Characterization
- Confirmation of TPH levels in soil and groundwater
- 2008: Completion of Dual Phase Extraction (DPE) Pilot Test
- <u>2010 2011</u>: Operation of DPE Remedial System
- <u>2013</u>: Completion of DPE Operations / Confirmation Sampling & Supplemental Confirmation Sampling
- Confirmation Sampling: Residual TPH-g and EX levels
- Supplemental Sampling: Site met LTCP requirements

# ACEH UST CASE CLOSURE

#### April 2015 ACEH Case Closure

Site Management Requirements issued Land use to limited to commercial/industrial use

#### **ACEH Conclusions**

- Soil vapor evaluated as low risk within upper 5 feet
- Residual impacted soils below 5 feet & above 10 feet

#### Notes:

- Property re-zoned for residential land use (RM-2)
- Residential land use planned by Smart Growth Inc.
- Minimal excavation, if any, during redevelopment
- No private, domestic wells will be installed

## HISTORICAL ANALYTICAL DATA

#### Soil Vapor:

 TPH-g and VOCs (i.e., benzene) in small, localized area within NW portion of property

#### Soil:

 TPH-g and BTEX in two localized areas within NW-Central and NE portions of property

#### **Groundwater:**

 TPH-d, TPH-g, and benzene in two localized areas (NW-Central and NE portions) of property. Most recent groundwater monitoring conducted in 2013 prior to ACEH case closure

### **FINDINGS**

- Two (2) localized, impacted areas within NW-Central and NW portions of property based on distribution of contaminants in subsurface medial
- Extent of impacted soil areas mimic areas of impacted groundwater
- Extent of impacted soil vapor restricted to small, localized area
- Dissolved phase TPH plume in groundwater is stable and not migrating in the direction of groundwater flow
- Risk from vapor intrusion due to TPH contamination was determined to be low by ACEH

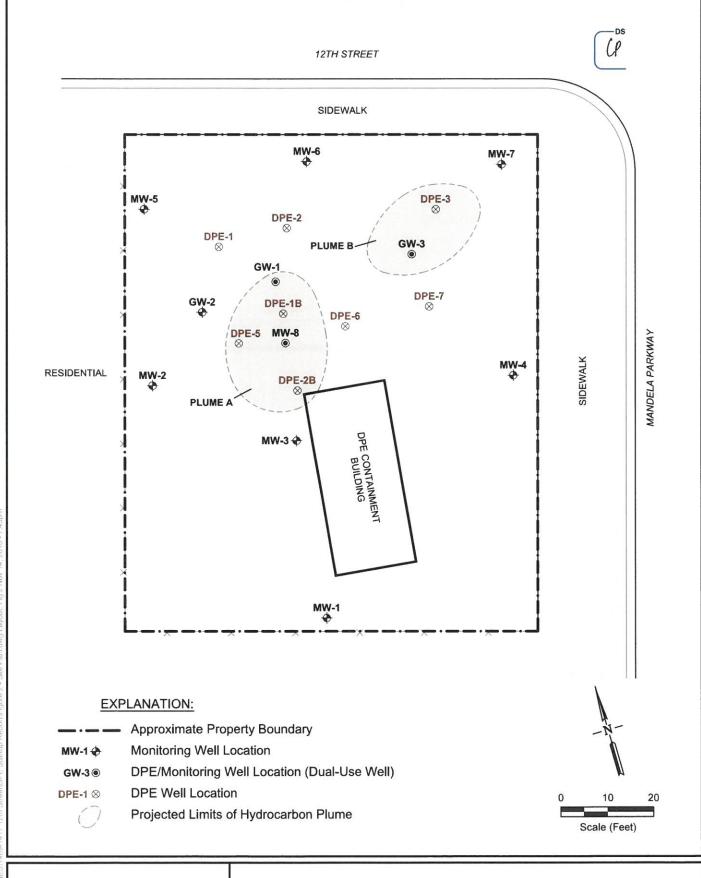
# REMEDIAL APPROACH

### Goals

- Remove environmental risks for direct contact
- Obtain case closure for unrestricted land use from ACEH thus allowing Smart Growth Inc. to move forward with redevelopment project

#### **Solution**

 Engineering control: Vapor Barrier Installation over localized, impacted areas where future structures will be placed



Impact Environmental Services 39120 Aronaut Way, Suite 223 Fremont, CA 94538 Figure 2 1409 to 1417 12TH STREET OAKLAND, CALIFORNIA

SITE PLAN





