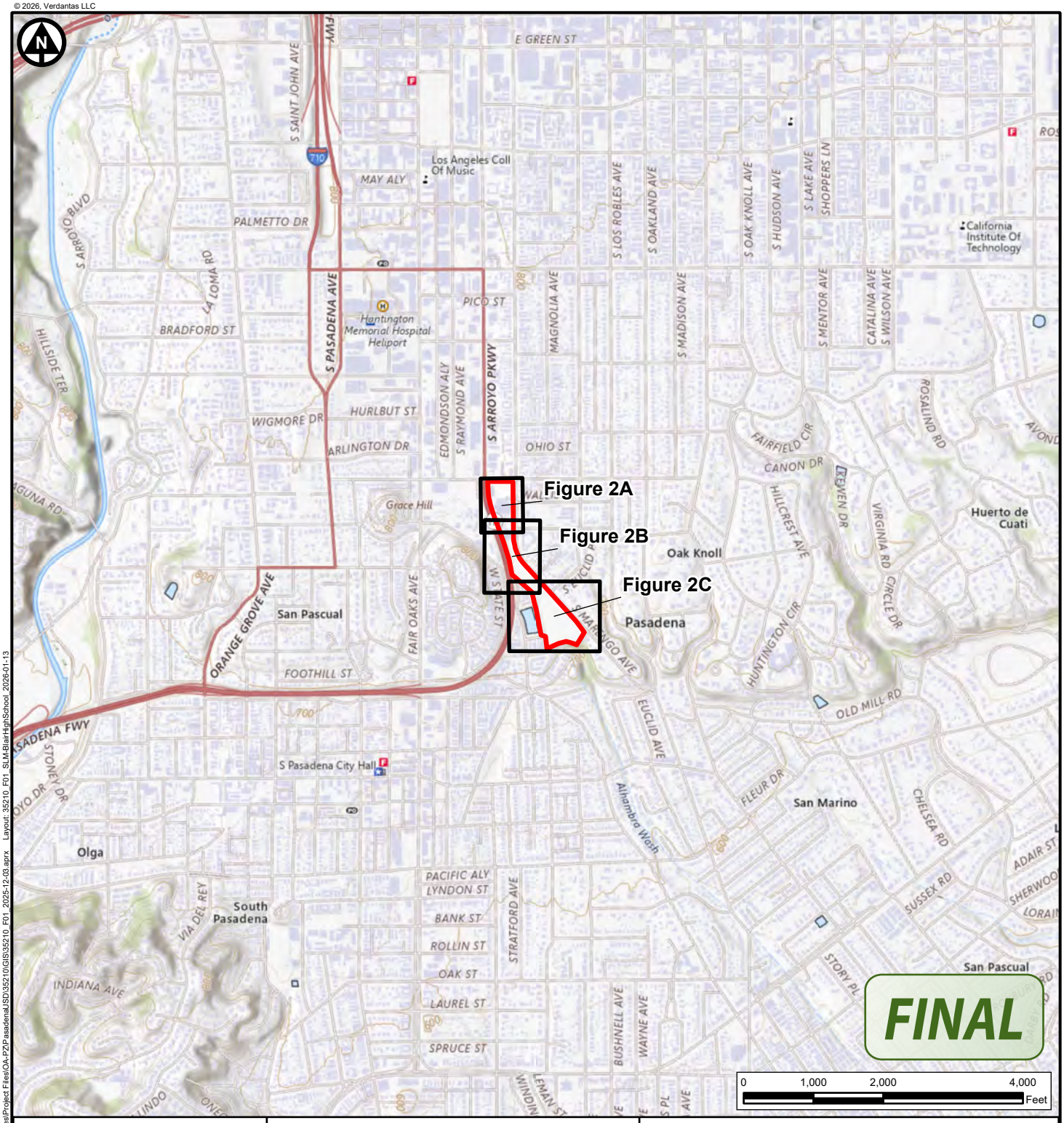
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FINAL

Approximate Site Boundary



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Sources:
Aerial Imagery: Esri Imagery Web Service dated 2021.

Topographic Map: National Geographic Society Web Service.

Quadrangle: Pasadena and Los Angeles, California

Blair High School
1201 S. Marengo Avenue
Pasadena, California 91106

Site Location Map

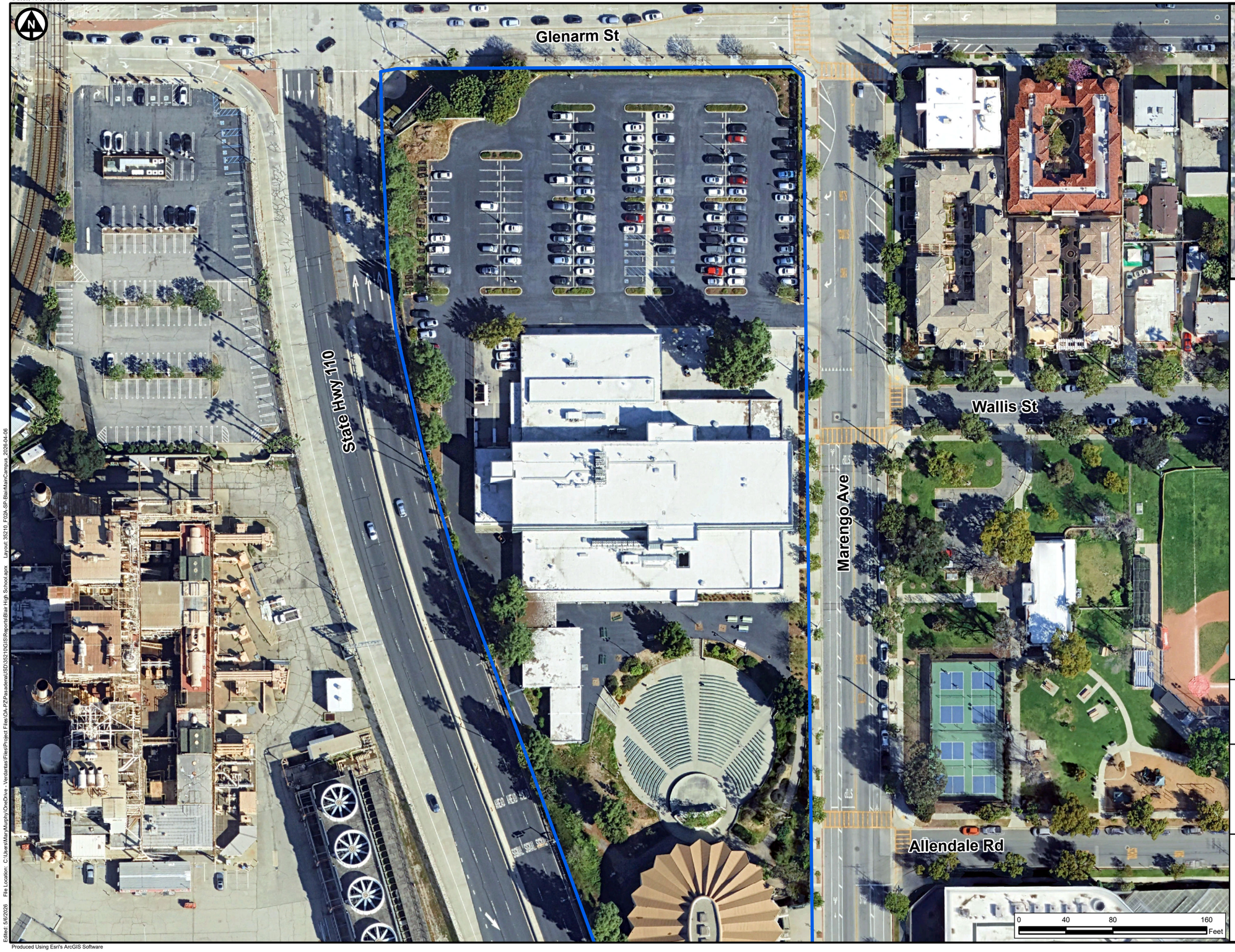
Pasadena Unified School District
Fire-Related Campus Assessment

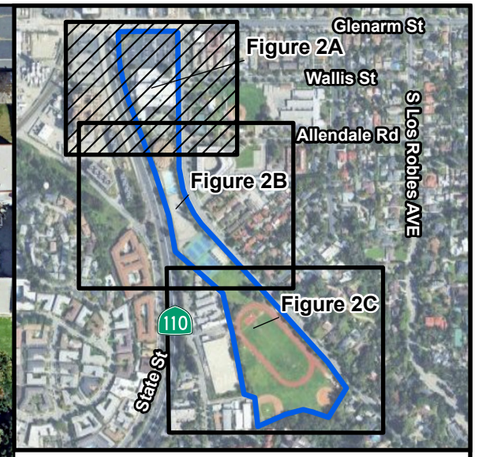
Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 2,000 ft
Figure	1

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Approximate Site Boundary

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Blair High School - Main Campus
1201 S. Marengo Avenue
Pasadena, California 91106

Site Plan

Pasadena Unified School District
Fire-Related Campus Assessment

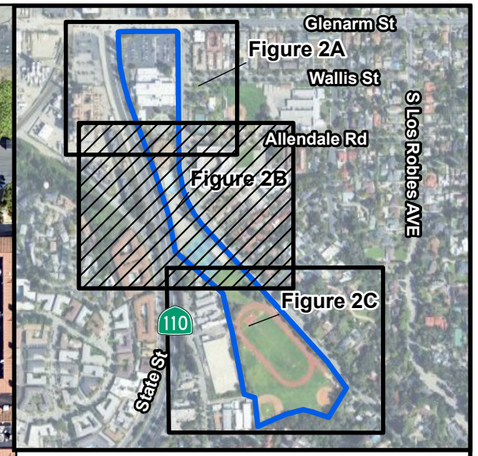
Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 60 ft
Figure	2A

Edited: 5/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\Blair High School.aprx Layout: 35210_F02A-SP-BlairMainCampus_2026-04-06

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Approximate Site Boundary

FINAL

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Blair High School - Central
1201 S. Marengo Avenue
Pasadena, California 91106

Site Plan

Pasadena Unified School District
Fire-Related Campus Assessment

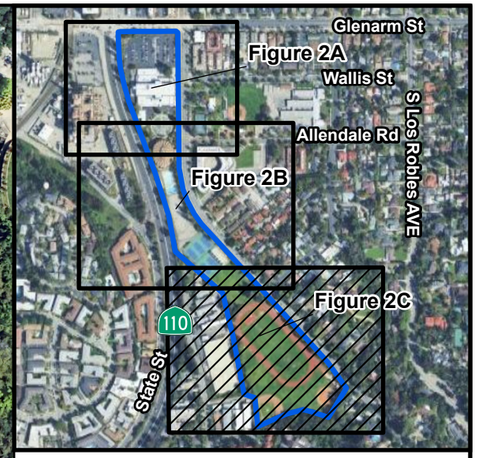
Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 100 ft
Figure	**2B**

Edited: 5/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\Blair High School.aprx Layout: 35210_Fi2B-SP-BlairHighCentral_2026-05-06

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Approximate Site Boundary

FINAL

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Blair High School - Sports Fields
1201 S. Marengo Avenue
Pasadena, California 91106

Site Plan

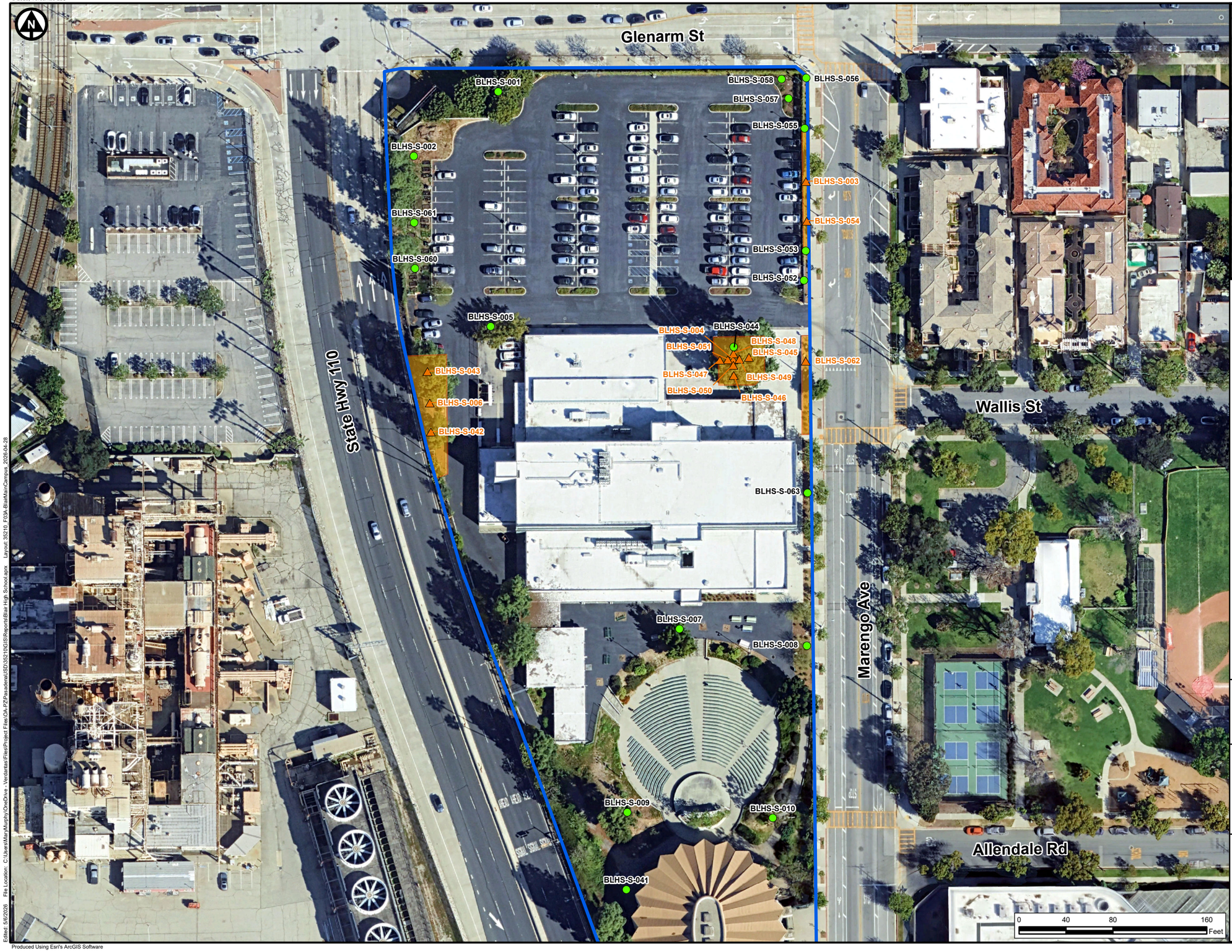
Pasadena Unified School District
Fire-Related Campus Assessment

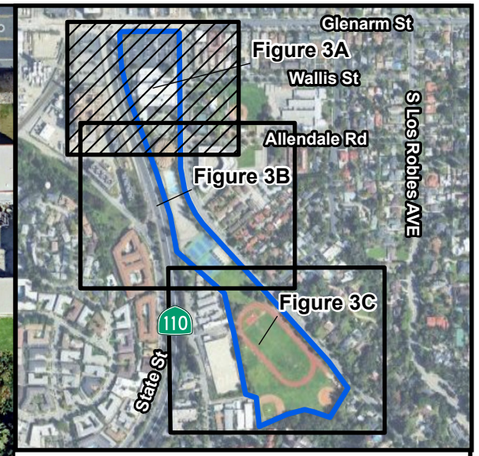
Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 100 ft
Figure	**2C**

Produced Using Esri's ArcGIS Software

Edited: 5/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\JSD\35210\GIS\Reports\Blair High School.aprx Layout: 35210_F02C-SP-BlairHighFields_2026-01-13

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- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Blair High School - Main Campus
1201 S. Marengo Avenue
Pasadena, California 91106

Soil Sample Analytical Results

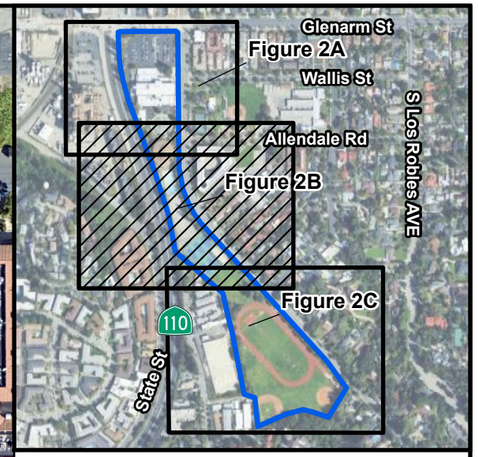
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 80 ft
Figure	3A

Edited: 5/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\Blair High School.aprx Layout: 35210_F03A-BlairMainCampus_2026-04-28
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- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Blair High School - Central
1201 S. Marengo Avenue
Pasadena, California 91106

Soil Sample Analytical Results

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 100 ft
Figure	3B

Edited: 5/6/2026 File Location: C:\Users\MarcMurphy\OneDrive - Verdantas\Files\Project Files\OA-P2\Pasadena\USD\35210\GIS\Reports\Blair High School.aprx Layout: 35210_F03B-BlairHighCentral_2026-04-28
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▲ Location of Sample with Analytical Results Above Regulatory Screening Criteria

● Location of Sample with Analytical Results at or below Regulatory Screening Criteria

Proposed Removal Area

Approximate Site Boundary

FINAL

Notes:

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Blair High School - Sports Fields
1201 S. Marengo Avenue
Pasadena, California 91106

Soil Sample Analytical Results

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 100 ft
Figure	3C

Edited: 5/8/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\Blair High School.aprx Layout: 35210_F03C-BlairHighFields_2026-04-17

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BLHS-S-044
Benzo(a)pyrene: <15 ug/kg @ Surf
Dibenz(a,h)anthracene: <15 ug/kg @ Surf

BLHS-S-004
Benzo(a)pyrene: 475 ug/kg @ Surf
Dibenz(a,h)anthracene: 63 ug/kg @ Surf
Benzo(a)pyrene: 229 ug/kg @ 1 foot bgs
Dibenz(a,h)anthracene: <15 ug/kg @ 1 foot bgs

BLHS-S-048
Benzo(a)pyrene: 696 ug/kg @ Surf
Dibenz(a,h)anthracene: <15 ug/kg @ Surf
Benzo(a)pyrene: <15 ug/kg @ 2 feet bgs
Dibenz(a,h)anthracene: <15 ug/kg @ 2 feet bgs

BLHS-S-045
Benzo(a)pyrene: 165 ug/kg @ Surf
Dibenz(a,h)anthracene: <15 ug/kg @ Surf
Benzo(a)pyrene: <15 ug/kg @ 2 feet bgs
Dibenz(a,h)anthracene: <15 ug/kg @ 2 feet bgs

BLHS-S-047
Benzo(a)pyrene: 112 ug/kg @ Surf
Dibenz(a,h)anthracene: <15 ug/kg @ Surf

BLHS-S-049
Benzo(a)pyrene: 331 ug/kg @ Surf
Dibenz(a,h)anthracene: <15 ug/kg @ Surf

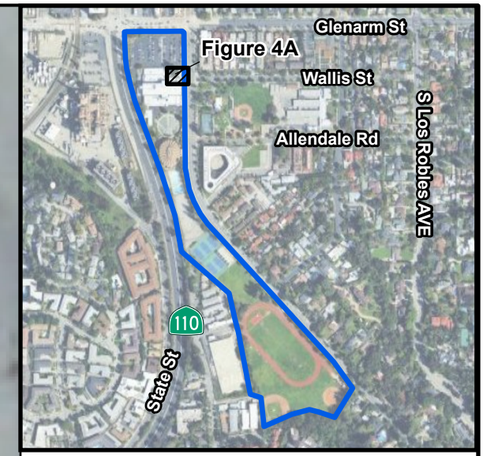
BLHS-S-051
Benzo(a)pyrene: 251 ug/kg @ Surf
Dibenz(a,h)anthracene: <15 ug/kg @ Surf
Benzo(a)pyrene: 34 ug/mg @ 2 feet bgs
Dibenz(a,h)anthracene: <15 ug/kg @ 2 feet bgs

BLHS-S-050
Benzo(a)pyrene: 656 ug/kg @ Surf
Dibenz(a,h)anthracene: <15 ug/kg @ Surf

BLHS-S-046
Benzo(a)pyrene: 205 ug/kg @ Surf
Dibenz(a,h)anthracene: <15 ug/kg @ Surf

BLHS-S-062
Benzo(a)pyrene: 121 ug/kg @ Surf
Dibenzo(a,h)anthracene: <50 ug/kg @ Surf

Marengo Ave



- Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria
- Step-out Sample Location
- Proposed Removal Area
- Approximate Site Boundary

PAHs	Polycyclic Aromatic Hydrocarbons
mg/kg	Milligrams per kilogram
ug/kg	Micrograms per kilogram
Surf	Surface
bgs	Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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FINAL

0 5 10 20 Feet

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Blair High School - Main Campus
1201 S. Marengo Avenue
Pasadena, California 91106

Soil Sample Analytical Results Location -004

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 10 ft
Figure	4A

Edited: 5/7/2026 File Location: C:\Users\MarkMurphy\OneDrive - Verdantas\Files\Project Files\Ok-PZ\Pasadena\USD\35210\GIS\Reports\Blair High School.aprx Layout: 35210_F04A-BlairMainCampus_2026-04-05

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BLHS-S-058
Lead: 21.9 mg/kg @ Surf
Arsenic: 7.9 mg/kg @ Surf

BLHS-S-056
Lead: 74.2 mg/kg @ Surf
Arsenic: <5.0 mg/kg @ Surf

BLHS-S-057
Lead: 22.4 mg/kg @ Surf
Arsenic: 7.8 mg/kg @ Surf

BLHS-S-055
Lead: 73.4 mg/kg @ Surf
Arsenic: <5.0 mg/kg @ Surf

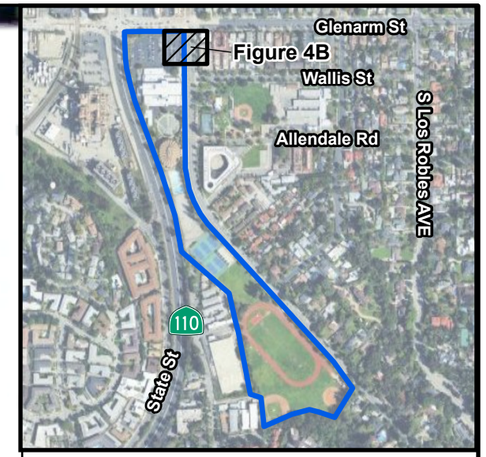
BLHS-S-003
Lead: 127 mg/kg @ Surf
Lead: 47.1 mg/kg @ 1 foot bgs
Lead: 3.8 mg/kg @ 4 feet bgs
Arsenic: 24.9 mg/kg @ Surf
Arsenic: 53.4 mg/kg @ 1 foot bgs
Arsenic: <5.0 mg/kg @ 4 feet bgs

BLHS-S-054
Lead: 203 mg/kg @ Surf
Arsenic: 12.8 mg/kg @ Surf
Lead: 16 mg/kg @ 2 feet bgs
Arsenic: 6.2 mg/kg @ 2 feet bgs

BLHS-S-053
Lead: 71.3 mg/kg @ Surf
Arsenic: 6.5 mg/kg @ Surf

BLHS-S-052
Lead: 30.8 mg/kg @ Surf
Arsenic @ <5.0 mg/kg @ Surf

Marengo Ave



- Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria
- Step-out Sample Location
- Proposed Removal Area
- Approximate Site Boundary
- **mg/kg** Milligrams per kilogram
- **Surf** Surface
- **bgs** Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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FINAL

0 10 20 40 Feet

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Blair High School - Main Campus
1201 S. Marengo Avenue
Pasadena, California 91106

Soil Sample Analytical Results Location -003

Pasadena Unified School District
Fire-Related Campus Assessment

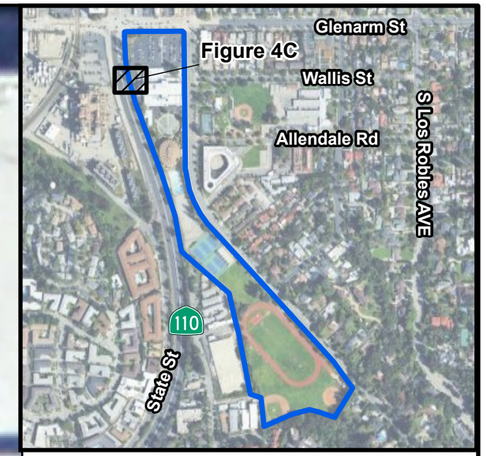
Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 20 ft
Figure	4B

Edited: 5/7/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\SD\35210\GIS\Reports\Blair High School.aprx Layout: 35210_F04B-BlairMainCampus_2026-05-07

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- Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria
- Step-out Sample Location
- Proposed Removal Area
- Approximate Site Boundary

mg/kg Milligrams per kilogram

Surf Surface

bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Blair High School - Main Campus
1201 S. Marengo Avenue
Pasadena, California 91106

Soil Sample Analytical Results Location -006

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 15 ft
Figure	4C

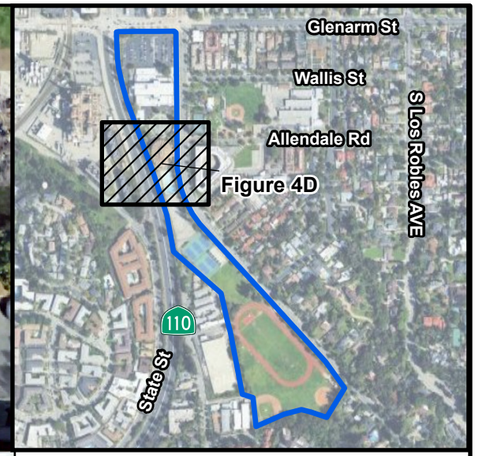
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BLHS-S-009
BLHS-S-010
BLHS-S-041
Lead: 39.1 mg/kg @ Surf
BLHS-S-011
Lead: 146 mg/kg @ Surf
Lead: 99.7 mg/kg @ 1 foot bgs
Lead: 54.4 mg/kg @ 1.5 feet bgs
BLHS-S-012
BLHS-S-013
Lead: 81.5 mg/kg @ 1 foot bgs
Lead: 73.7 mg/kg @ 2.feet bgs
BLHS-S-040
Lead: 300 mg/kg @ Surf
Lead: 59.6 mg/kg @ 1 foot bgs
BLHS-S-014

State Hwy 110
State Hwy 110 Ramp
State St
Marengo Ave
Allendale Rd



FINAL

0 25 50 100 Feet

Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria

Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria

Step-out Sample Location

Proposed Removal Area

Approximate Site Boundary

mg/kg Milligrams per kilogram

Surf Surface

bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

The aerial photo was acquired through Google Earth, 2025.

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Blair High School - Central
1201 S. Marengo Avenue
Pasadena, California 91106

Soil Sample Analytical Results Locations -011 and -013

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 50 ft
Figure	4D

Edited: 5/7/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\Blair High School.aprx Layout: 35210_F04D-BlairHighCentral_2026-05-07

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BLHS-S-040
Lead: 300 mg/kg @ Surf
Lead: 59.6 mg/kg @ 1 foot bgs

BLHS-S-014

BLHS-S-039
Lead: 174 mg/kg @ Surf
Lead: 105 mg/kg @ 2.75 feet bgs

BLHS-S-015
Lead: 218 mg/kg @ Surf
Lead: 57.4 mg/kg @ 1 foot bgs
Lead: 7.9 mg/kg @ 2 foot bgs

BLHS-S-038
Lead: 906 mg/kg @ Surf
Lead: 22.7 mg/kg @ 1 foot bgs

BLHS-S-016

BLHS-S-037
Lead: 273 mg/kg @ Surf
Lead: 109 mg/kg @ 2.5 feet bgs

BLHS-S-017
Lead: 253 mg/kg @ Surf
Lead: 89.6 mg/kg @ 2 feet bgs
Lead: 362 mg/kg @ 2.5 feet bgs

BLHS-S-036
Lead: 240 mg/kg @ Surf
Lead: 191 mg/kg @ 1 foot bgs

BLHS-S-035
Lead: 52.6 mg/kg @ Surf

BLHS-S-18

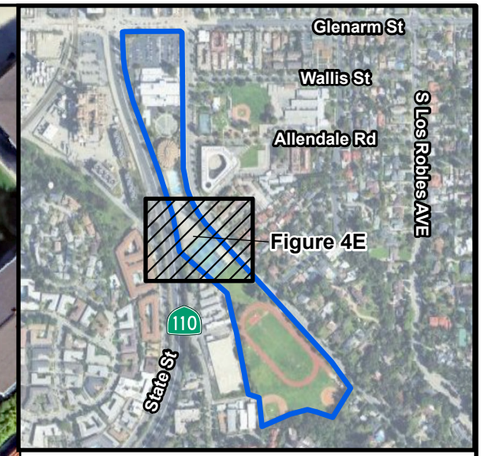
BLHS-S-19

BLHS-S-64

Ramp
State Hwy 110
State Hwy 110
State St
Marengo Ave
Garfield Ave
Marguerita Ln

FINAL

0 25 50 100 Feet



- Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria
- Step-out Sample Location
- Proposed Removal Area
- Approximate Site Boundary
- mg/kg Milligrams per kilogram
- Surf Surface
- bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

The aerial photo was acquired through Google Earth, 2025.

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Blair High School - Central
1201 S. Marengo Avenue
Pasadena, California 91106

Soil Sample Analytical Results Locations -015 and -017

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 50 ft
Figure	4E

Edited: 5/7/2026 File Location: C:\Users\MarkMurphy\OneDrive - Verdantas\Files\Project Files\OA-P2\Pasadena\USD\35210\GIS\Reports\Blair High School.aprx Layout: 35210_F04E-BlairHighCentral_2026-05-07

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BLHS-S-031
Lead: 66.0 mg/kg @ Surf

BLHS-S-025
Lead: 109 mg/kg @ Surf
Lead: 6.4 mg/kg @ 1 foot bgs

BLHS-S-030
Lead: 11.5 mg/kg @ Surf

BLHS-S-034
Lead: 71.8 mg/kg @ Surf

BLHS-S-032
Lead: 26.1 mg/kg @ Surf

BLHS-S-033
Lead: 32.5 mg/kg @ Surf

BLHS-S-059
Lead: 14.9 mg/kg @ Surf



- Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria
- Step-out Sample Location
- Proposed Removal Area
- Approximate Site Boundary
- mg/kg Milligrams per kilogram
- Surf Surface
- bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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FINAL

0 7.5 15 30 Feet

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Blair High School - Sports Fields
1201 S. Marengo Avenue
Pasadena, California 91106

Soil Sample Analytical Results Location -025

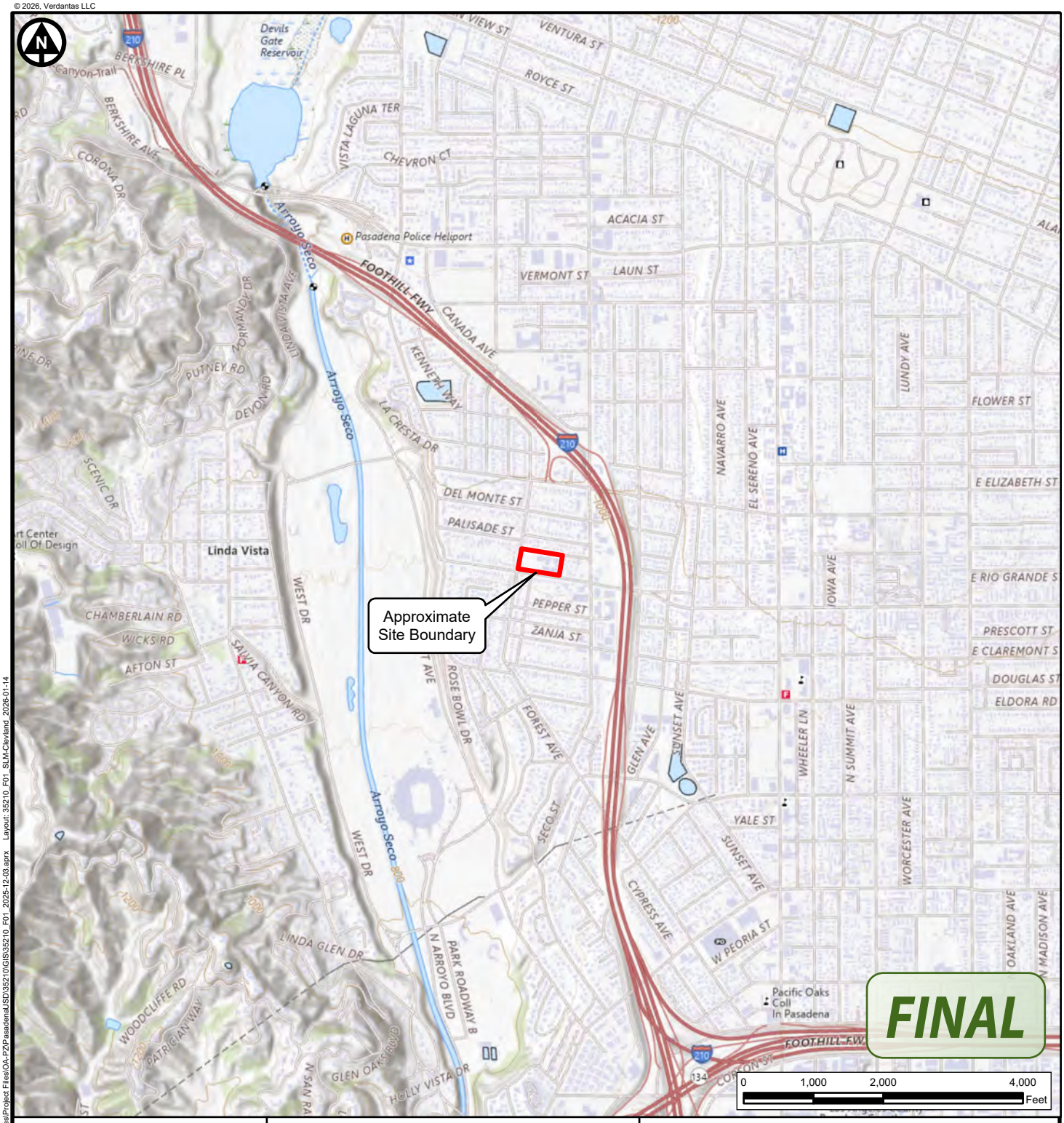
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 15 ft
Figure	4F

Edited: 5/7/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\Blair High School.aprx Layout: 35210_F04F-BlairHighFields_2026-05-07

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Approximate Site Boundary



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Sources:
Aerial Imagery: Esri Imagery Web Service dated 2021.

Topographic Map: National Geographic Society Web Service.

Quadrangle: Pasadena, California

Cleveland Elementary School
524 Palisade Street
Pasadena, California 91103

Site Location Map

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 2,000 ft
Figure	1

Edited: 1/14/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\35210_F01_2025-12-03.aprx Layout: 35210_F01_SLM-Cleveland_2026-01-14

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Approximate Site Boundary

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Cleveland Elementary School
524 Palisade Street
Pasadena, California 91103

Site Plan

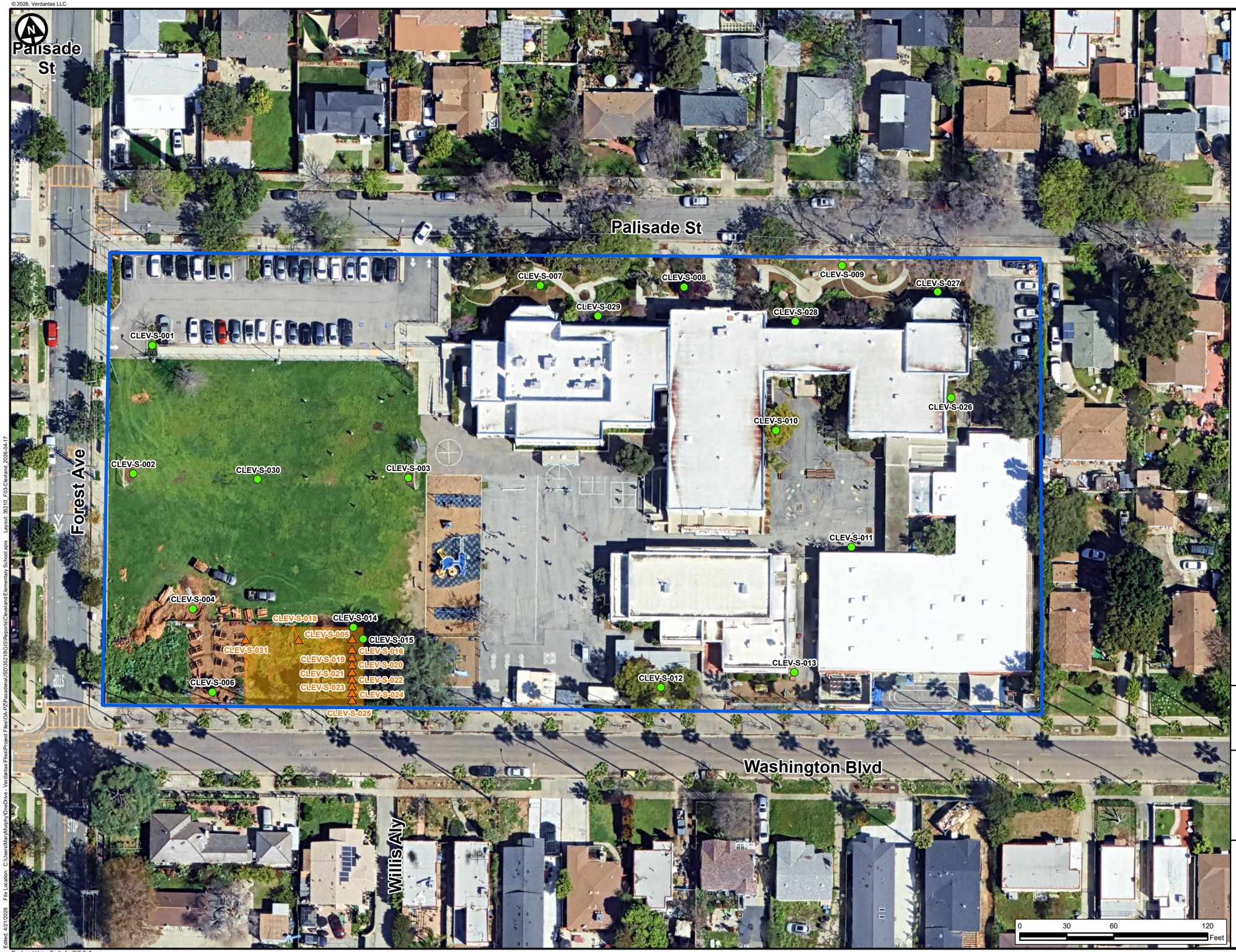
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 60 ft
Figure	2

Edited: 1/14/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\AFiles\Project Files\OA-PZ\Pasadena\JSD\35210\GIS\35210_F02_2026-01-13.aprx Layout: 35210_F02-SR-Cleveland_2025-01-14

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Location of Sample with Analytical Results Above Regulatory Screening Criteria

Location of Sample with Analytical Results at or below Regulatory Screening Criteria

Proposed Removal Area

Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Cleveland Elementary School
524 Palisade Street
Pasadena, California 91103

Soil Sample Analytical Results

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 60 ft
Figure	3

Edited: 4/21/2026 File Location: C:\Users\MarcMurphy\OneDrive - Verdantas\Files\Project Files\OA-P2\Pasadena\USD\35210\GIS\Reports\Cleveland Elementary School.aprx Layout: 35210_FIG3-Cleveland_2026-04-17

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CLEV-S-014
Arsenic: <5.0 mg/kg @ Surf

CLEV-S-031
Arsenic: 14.3 mg/kg @ Surf

CLEV-S-018
Arsenic: 22.2 mg/kg @ Surf
Arsenic: 9.0 mg/kg @ 1 foot bgs

CLEV-S-005
Arsenic: 19.3 mg/kg @ Surf
Arsenic: 13.5 mg/kg @ 2 feet bgs
Arsenic: <0.5 mg/kg @ 3 feet bgs

CLEV-S-015
Arsenic: 11.3 mg/kg @ Surf

CLEV-S-016
Arsenic: 30.1 mg/kg @ Surf

CLEV-S-019
Arsenic: 82.6 mg/kg @ Surf

CLEV-S-020
Arsenic: 39.5 mg/kg @ Surf
Arsenic: 72.5 mg/kg @ 1 foot bgs

CLEV-S-021
Arsenic: 25.5 mg/kg @ Surf

CLEV-S-022
Arsenic: 16.2 mg/kg @ Surf
Arsenic: 9.6 mg/kg @ 1 foot bgs
Arsenic: 11.3 mg/kg @ 2 feet bgs

CLEV-S-023
Arsenic: 14.1 mg/kg @ Surf

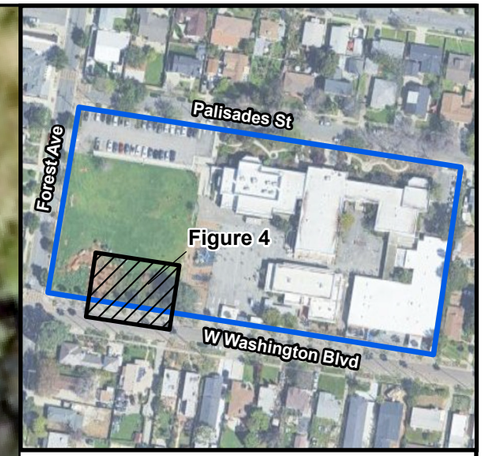
CLEV-S-024
Arsenic: 12.6 mg/kg @ Surf
Arsenic: 10.7 mg/kg @ 1 foot bgs
Arsenic: 9.5 mg/kg @ 2 feet bgs

CLEV-S-025
Arsenic: 17.0 mg/kg @ Surf

CLEV-S-006
Arsenic: 7.6 mg/kg @ Surf

Washington Blvd

FINAL



- Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria
- Step-out Sample Location
- Proposed Removal Area
- Approximate Site Boundary
- mg/kg — milligrams per kilogram
- Surf — Surface
- bgs — Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Cleveland Elementary School
524 Palisade Street
Pasadena, California 91103

Soil Sample Analytical Results

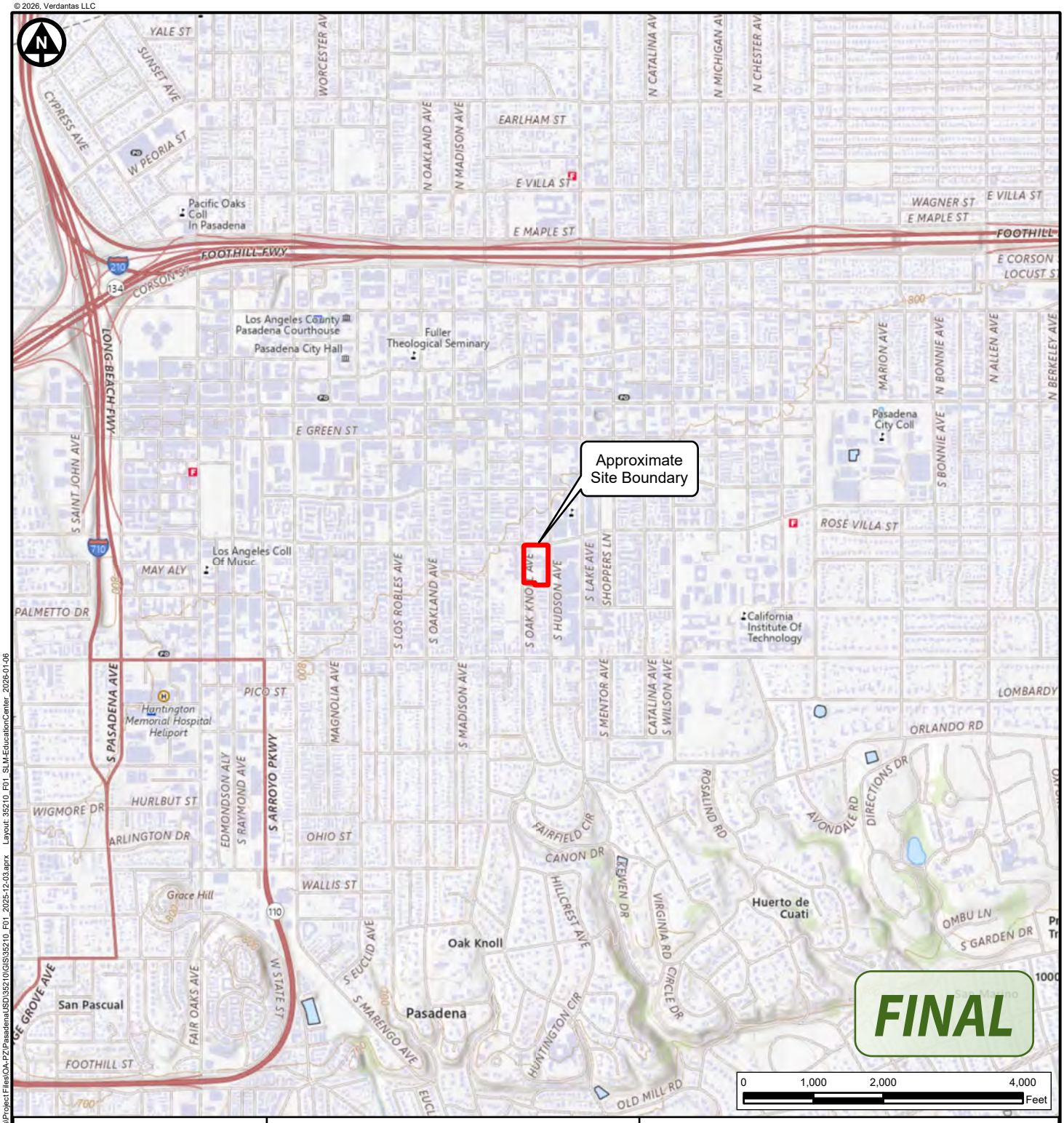
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	05/2026
Author	mmurphy
Scale	1 in = 10 ft
Figure	4

Edited: 5/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\Cleveland Elementary School.aprx Layout: 35210_F04-Cleveland_2026-04-17

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Approximate Site Boundary



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Sources:
Aerial Imagery: Esri Imagery Web Service dated 2021.

Topographic Map: National Geographic Society Web Service.

Quadrangle: Pasadena, California

Education Center
351 S. Hudson Avenue
Pasadena, California 91109

Site Location Map

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 2,000 ft
Figure	1

Edited: 1/6/2026 File Location: C:\Users\MarMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\35210_FD1_2025-12-03.aprx Layout: 35210_FD1_SLMEducationCenter_2026-01-06

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Approximate Site Boundary

FINAL

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Education Center
351 S. Hudson Avenue
Pasadena, California 91109

Site Plan

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 80 ft
Figure	2

Edited: 1/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-P2\Pasadena\USD\35210\GIS\35210_F02.aprx Layout: 35210_F02-SP-EducationCenter_2026-01-06

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Location of Sample with Analytical Results Above Regulatory Screening Criteria

Location of Sample with Analytical Results at or below Regulatory Screening Criteria

Proposed Removal Area

Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Education Center
351 S. Hudson Avenue
Pasadena, California 91109

Soil Sample Analytical Results

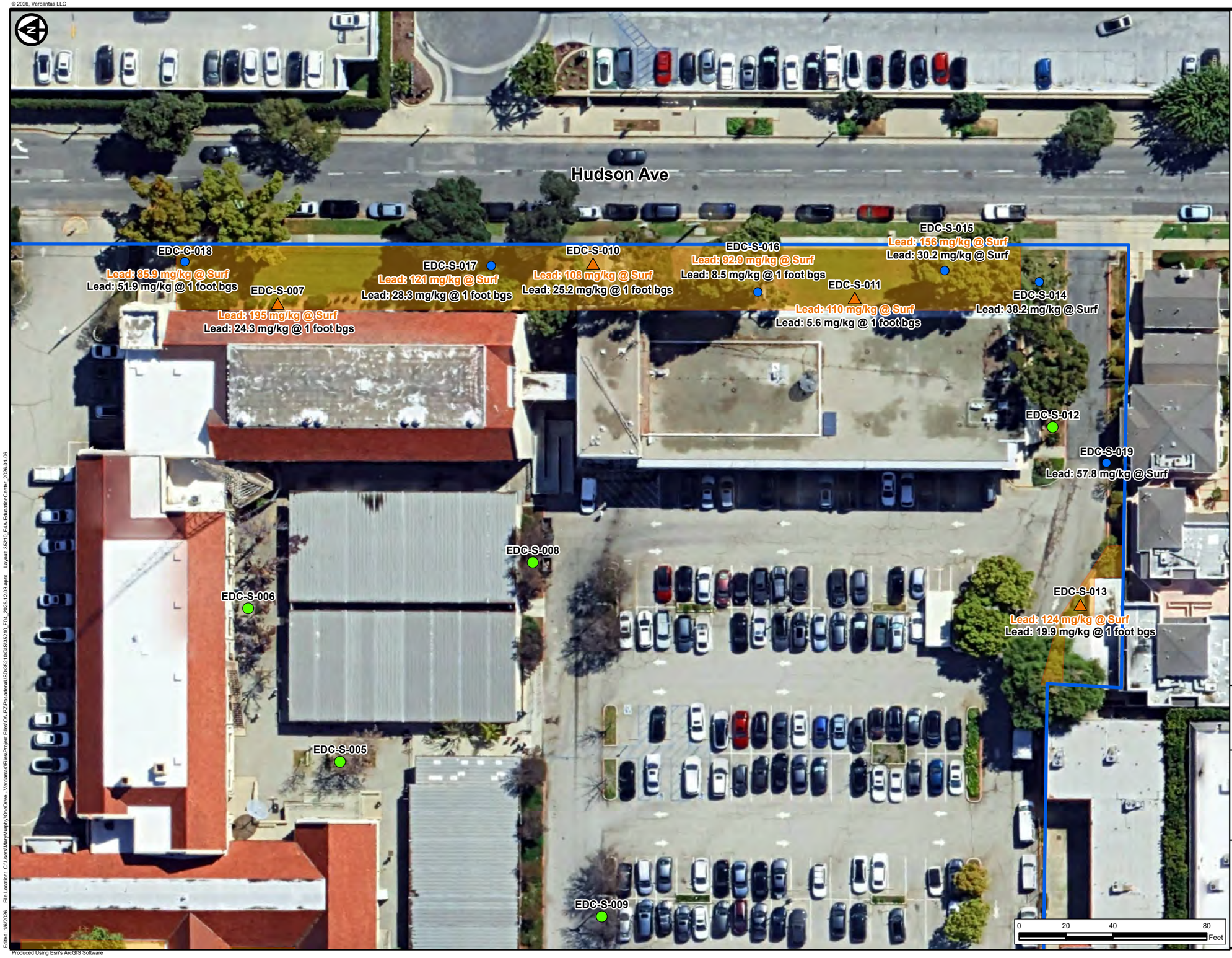
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 80 ft
Figure	3

Edited: 1/6/2026 File Location: C:\Users\MarkMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\35210_F03_2025-12-03.aprx Layout: 35210_F03-EducationCenter_2026-01-06

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Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria

Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria

Step-out Sample Location

Proposed Removal Area

Approximate Site Boundary

mg/kg Milligrams per kilogram

Surf Surface

bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Education Center
351 S. Hudson Avenue
Pasadena, California 91109

Soil Sample Analytical Results Locations -007, -010, -011, -013

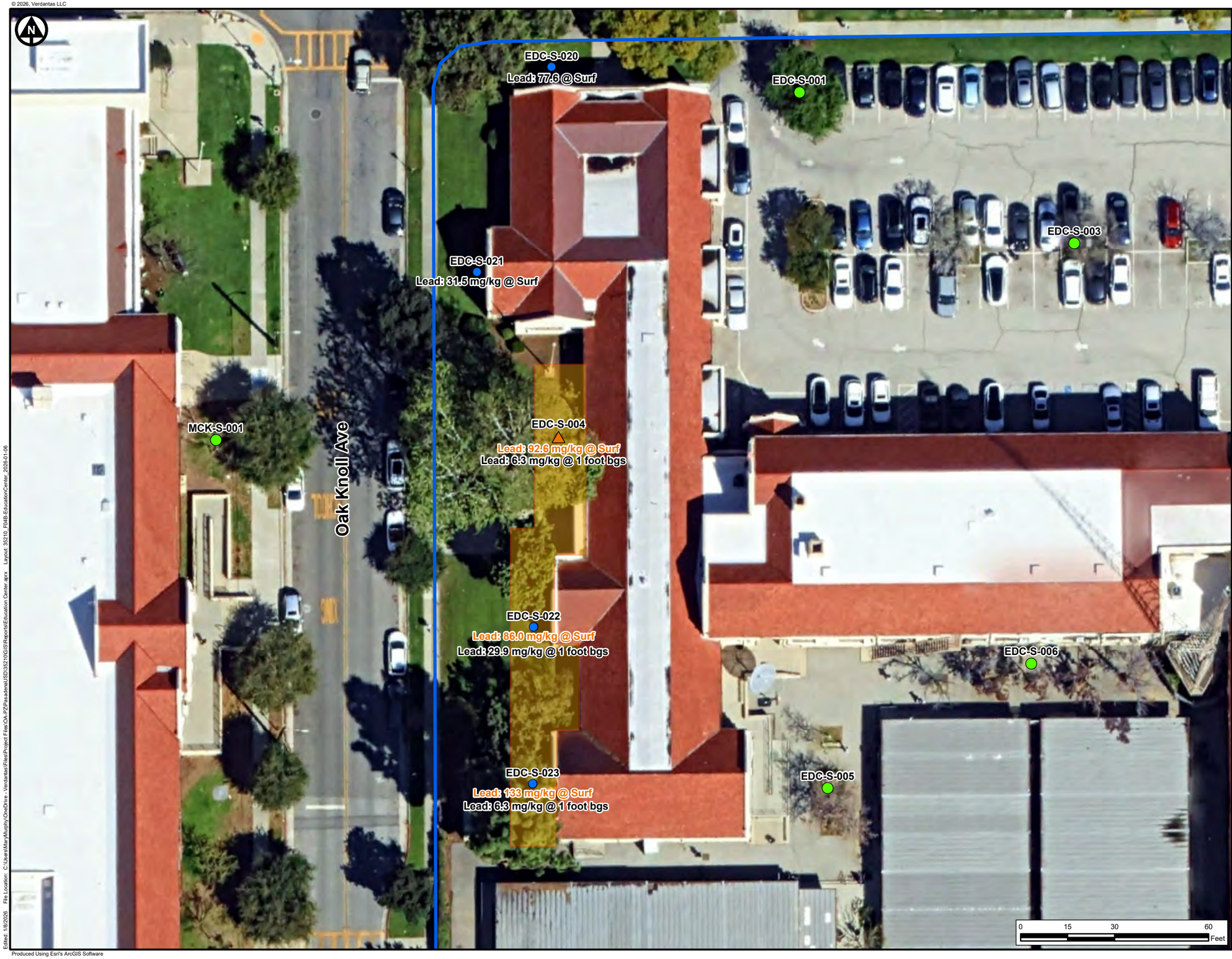
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 40 ft
Figure	4A

Edited: 1/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\ISD\35210\GIS\35210_F04_2025-12-03.aprx Layout: 35210_FAA-EducationCenter_2026-01-06

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Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria

Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria

Step-out Sample Location

Proposed Removal Area

Approximate Site Boundary

mg/kg Milligrams per kilogram

Surf Surface

bgs Below Ground Surface

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Education Center
351 S. Hudson Avenue
Pasadena, California 91109

Soil Sample Analytical Results Location -004

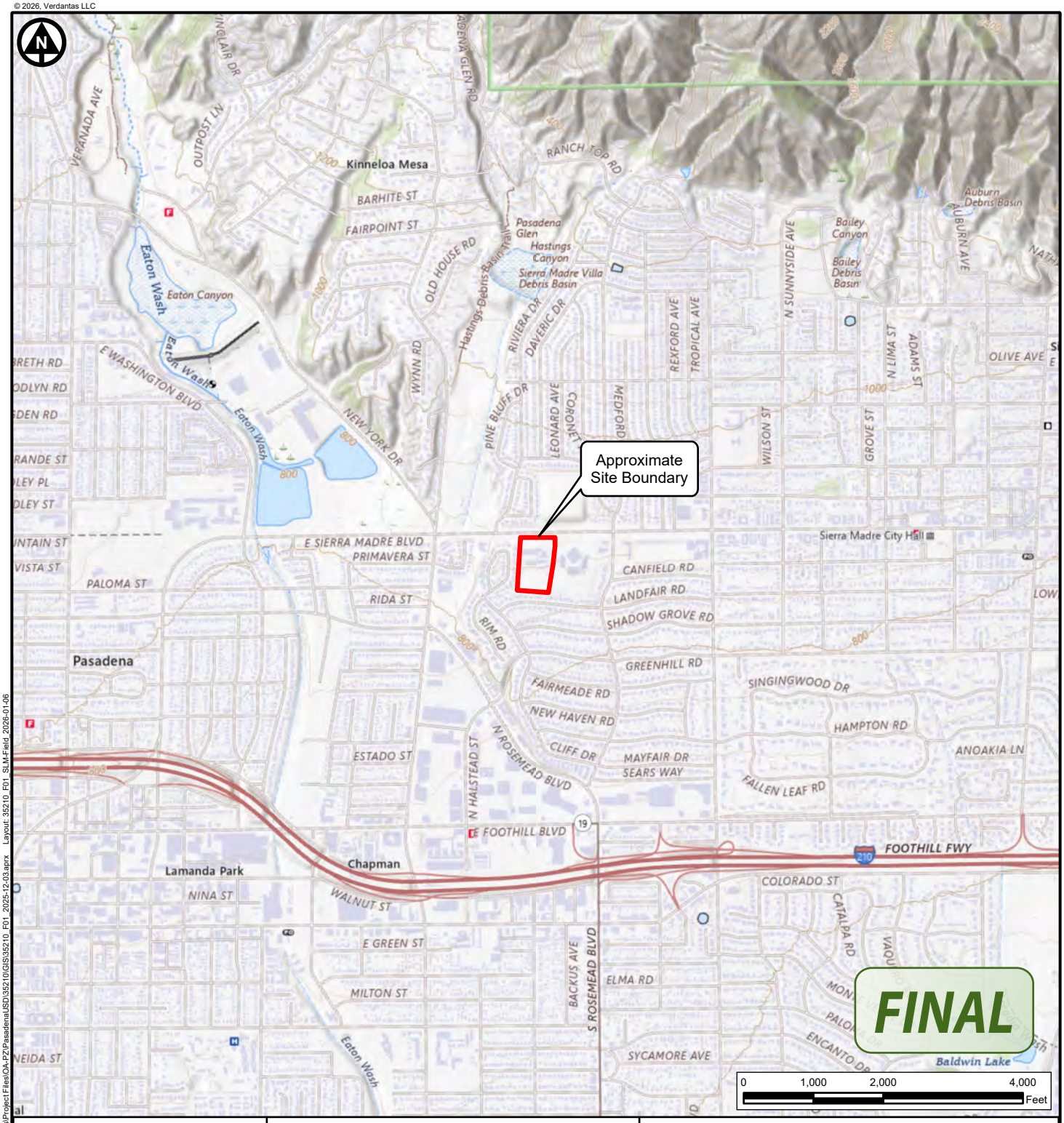
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 30 ft
Figure	4B

Edited: 1/8/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\Education Center.aprx Layout: 35210_FI4B-EducationCenter_2026-01-06

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Approximate Site Boundary



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Sources:
Aerial Imagery: Esri Imagery Web Service dated 2021.

Topographic Map: National Geographic Society Web Service.

Quadrangle: Mount Wilson, California

Field Elementary School
3600 Sierra Madre Boulevard
Pasadena, California 91107

Site Location Map

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 2,000 ft
Figure	1

Edited: 1/6/2026 File Location: C:\Users\MarMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\35210_FD1_2025-12-03.aprx Layout: 35210_FD1_SLM-Field_2026-01-06

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Approximate Site Boundary

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Field Elementary School
3600 Sierra Madre Boulevard
Pasadena, California 91107

Site Plan

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 100 ft
Figure	2

Edited: 1/6/2026 File Location: C:\Users\Mam\Murphy\OneDrive - Verdantas\Files\Project Files\OA-P2\Pasadena\USD\35210\GIS\35210_F02.aprx Layout: 35210_F02-SP-Field_2026-01-06

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Location of Sample with Analytical Results Above Regulatory Screening Criteria

Location of Sample with Analytical Results at or below Regulatory Screening Criteria

Proposed Removal Area

Approximate Site Boundary

FINAL

Notes:

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Field Elementary School
3600 Sierra Madre Boulevard
Pasadena, California 91107

Soil Sample Analytical Results

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 100 ft
Figure	3

Edited: 1/6/2026 File Location: C:\Users\Mam\Murphy\OneDrive - Verdantas\Files\Project Files\OA-P2\Pasadena\USD\35210\GIS\35210_F03_2025-12-03.aprx Layout: 35210_F03-Field_2026-01-06

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Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria

Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria

Step-out Sample Location

Approximate Site Boundary

Proposed Removal Area

mg/kg milligrams per kilogram

Surf Surface

bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Field Elementary School
3600 Sierra Madre Boulevard
Pasadena, California 91107

Soil Sample Analytical Results Location -004

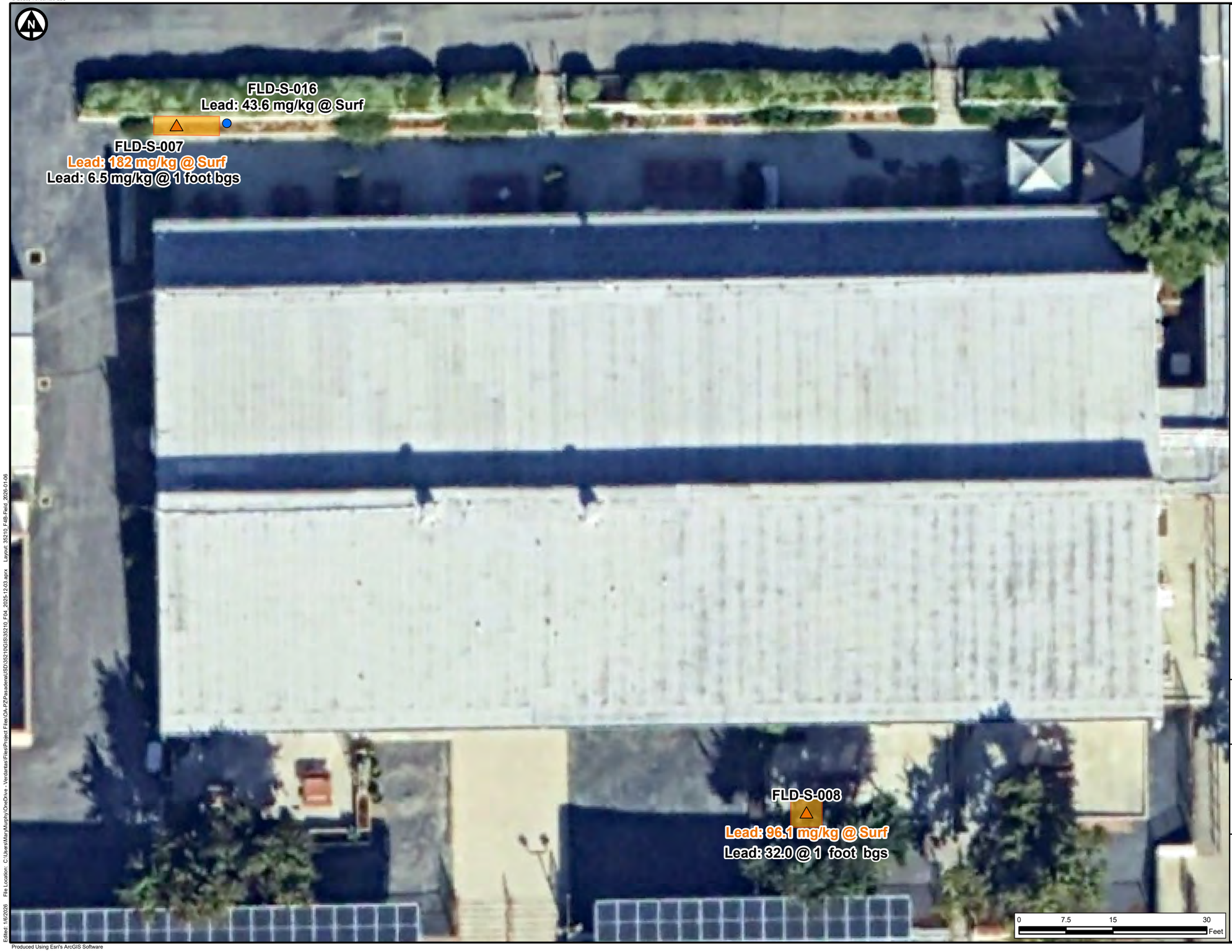
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 8 ft
Figure	4A

Edited: 1/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-P2\Pasadena\USD\35210\GIS\35210_F04_2025-12-03.aprx Layout: 35210_F4A_Field_2026-01-06

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- Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria
- Step-out Sample Location
- Approximate Site Boundary
- Proposed Removal Area
- mg/kg — milligrams per kilogram
- Surf — Surface
- bgs — Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

The aerial photo was acquired through Google Earth, 2025.

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Field Elementary School
3600 Sierra Madre Boulevard
Pasadena, California 91107

Soil Sample Analytical Results Locations -007, -008

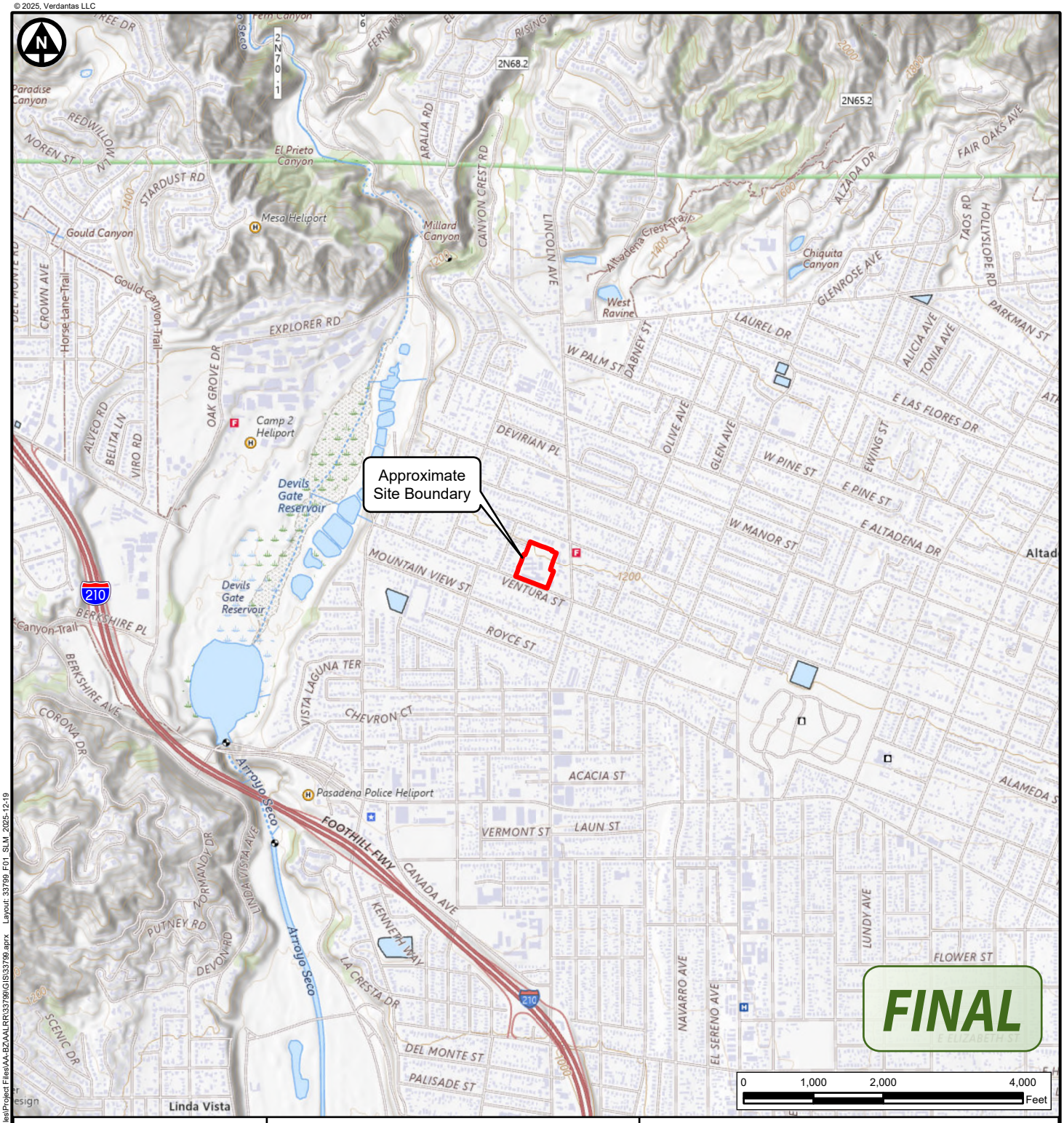
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 15 ft
Figure	4B

Edited: 1/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\35210_Fig4_2025-12-03.aprx Layout: 35210_F4B-Field_2026-01-06

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Approximate Site Boundary



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Sources:
Aerial Imagery: Esri Imagery Web Service dated 2021.

Topographic Map: National Geographic Society Web Service.

Quadrangle: Pasadena, California

527 Ventura Street
Altadena, California 91001

SITE LOCATION MAP

Pasadena Unified School District
Fire Relief Assessment
Franklin Elementary School

Project Number	33799
Date	12/2025
Author	mmurphy
Scale	1 in = 2,000 ft
Figure	1

Edited: 12/19/2025 File Location: C:\Users\MarMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZ\AALRR\33799\GIS\33799.aprx Layout: 33799_F01_SLM_2025-12-19

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Approximate Site Boundary

FINAL

Note: The aerial photo was acquired through the Esri Imagery Web Service. Aerial photography dated 2021.

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Franklin Elementary School
527 Ventura Street
Altadena, California 91001

SITE PLAN

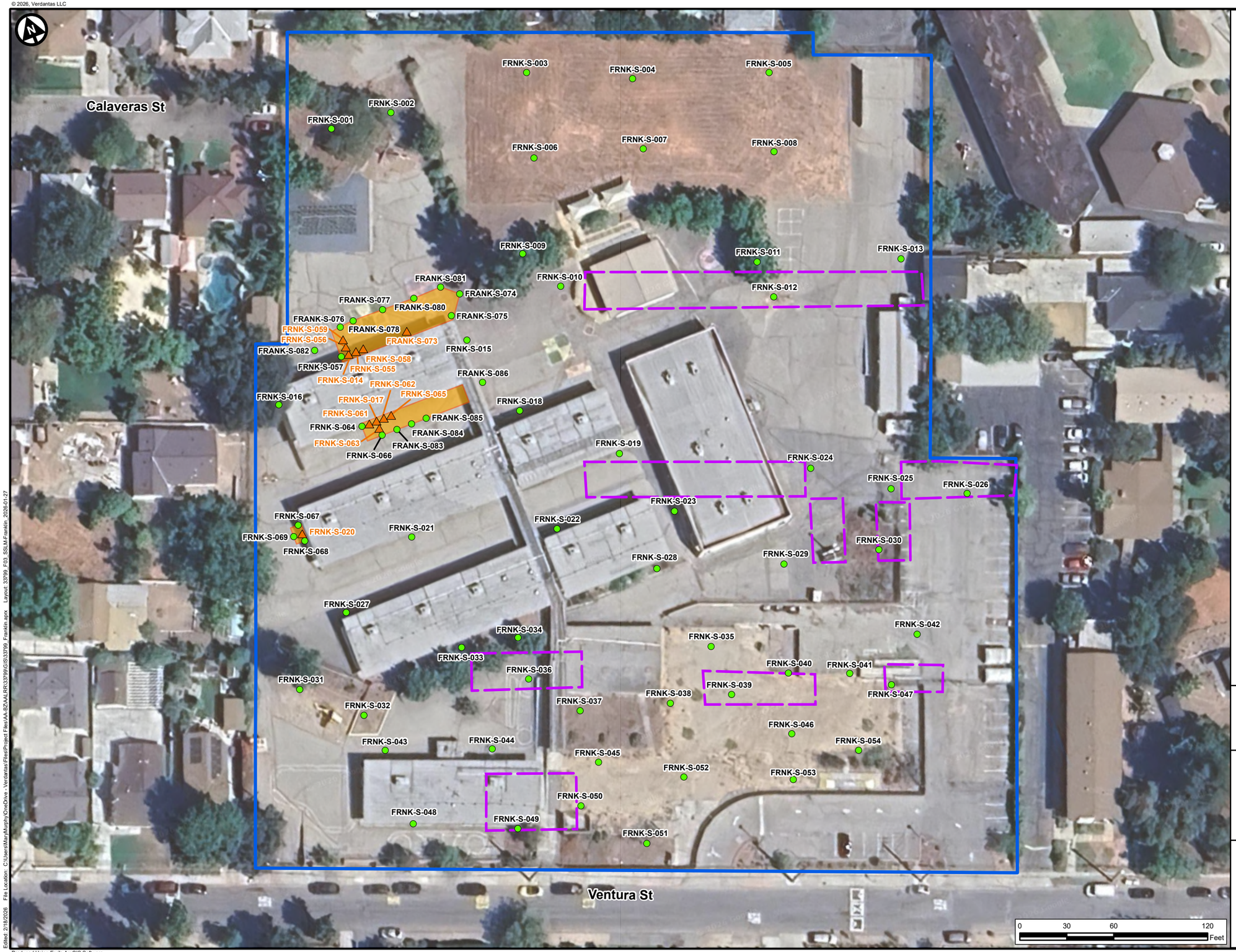
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	33799
Date	01/2026
Author	mmurphy
Scale	1 in = 60 ft
Figure	2

Edited: 1/28/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\FiresProject Files\AA-BZA\ALR\33799\GIS\33799_Franklin.aprx Layout: 33799_F02_SP-Franklin_2026-01-27

Produced Using Esri's ArcGIS Software

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- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Footprint of Historical Structure (Estimated from 1930 Aerial)
- Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

The aerial photo was acquired through Google Earth, 2025.

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Franklin Elementary School
527 Ventura Street
Altadena, California 91001

SOIL SAMPLE ANALYTICAL RESULTS

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	33799
Date	02/2026
Author	mmurphy
Scale	1 in = 60 ft
Figure	3

Edited: 2/18/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZ\AAL\RR\33799\GIS\33799_Franklin.aprx Layout: 33799_F03_SSLM-Franklin_2026-01-27

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- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or below Regulatory Screening Criteria
- Proposed Confirmation Sample Locations
- Proposed Removal Area
- Approximate Site Boundary
- mg/kg — Milligrams per kilogram
- bgs — Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

The aerial photo was acquired through Google Earth, 2025.

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Franklin Elementary School
527 Ventura Street
Altadena, California 91001

SOIL SAMPLE ANALYTICAL RESULTS LOCATIONS -014

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	33799
Date	03/2026
Author	mmurphy
Scale	1 in = 10 ft
Figure	4A

Edited: 3/17/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZ\AALRR\33799\GIS\33799_Franklin.aprx Layout: 33799_F04A_SSLM-Franklin_2026-01-27

Produced Using Esri's ArcGIS Software

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FRNK-S-015

FRNK-S-061
Arsenic: 32.7 mg/kg @ 0.5 feet bgs
Arsenic: 7.8 mg/kg @ 2.0 feet bgs

FRNK-S-062
Arsenic: 12.5 mg/kg @ 0.5 feet bgs
Arsenic: 7.4 mg/kg @ 2.0 feet bgs

FRNK-S-064
Arsenic: 9.96 mg/kg @ 0.5 feet bgs

FRNK-S-017
Arsenic: 38.2 mg/kg @ 0.5 feet bgs
Arsenic: <5.0 mg/kg @ 2.0 feet bgs

FRNK-S-065
Arsenic: 31.2 mg/kg @ 0.5 feet bgs

FRNK-S-086

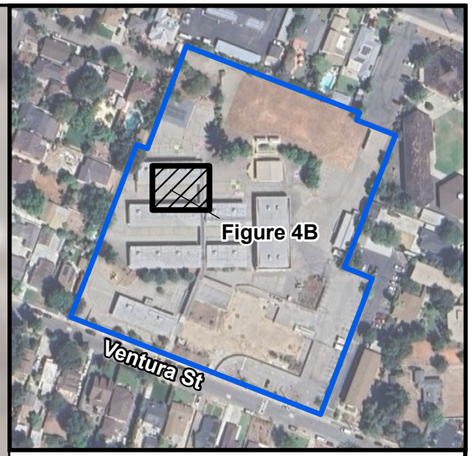
FRNK-S-063
Arsenic: 56.3 mg/kg @ 0.5 feet bgs
Arsenic: 10.4 mg/kg @ 2.0 feet bgs

FRNK-S-083
Arsenic: <5.0 mg/kg @ 0.5 feet bgs
Arsenic: <5.0 mg/kg @ 2.0 feet bgs

FRNK-S-085
Arsenic: <5.0 mg/kg @ 0.5 feet bgs
Arsenic: <5.0 mg/kg @ 2.0 feet bgs

FRNK-S-066
Arsenic: <5.0 mg/kg @ 0.5 feet bgs

FRNK-S-084
Arsenic: <5.0 mg/kg @ 0.5 feet bgs
Arsenic: <5.0 mg/kg @ 2.0 feet bgs



- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or below Regulatory Screening Criteria
- Proposed Confirmation Sample Locations
- Proposed Removal Area
- Approximate Site Boundary

mg/kg Milligrams per kilogram

bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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FINAL

0 4 8 16 Feet

Franklin Elementary School
527 Ventura Street
Altadena, California 91001

SOIL SAMPLE ANALYTICAL RESULTS LOCATION -017

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	33799
Date	03/2026
Author	mmurphy
Scale	1 in = 8 ft
Figure	4B

Edited: 3/17/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZA\ALR\33799\GIS\33799_Franklin.aprx Layout: 33799_F04B_SSLM-Franklin_2026-01-27
Produced Using Esri's ArcGIS Software

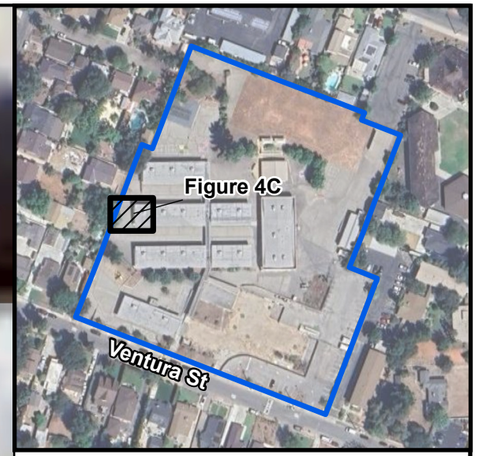
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FRNK-S-067
Lead: 5.6 mg/kg @ 0.5 feet bgs
Lead: 6.0 mg/kg @ 2.0 feet bgs

FRNK-S-069
Lead: 6.5 mg/kg @ 0.5 feet bgs
Lead: 6.7 mg/kg @ 2.0 feet bgs

FRNK-S-020
Lead: 142 mg/kg @ 0.5 feet bgs
Lead: 4.7 mg/kg @ 2.0 feet bgs

FRNK-S-068
Lead: 6.6 mg/kg @ 0.5 feet bgs
Lead: 7.1 mg/kg @ 2.0 feet bgs



- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or below Regulatory Screening Criteria
- Proposed Confirmation Sample Locations
- Proposed Removal Area
- Approximate Site Boundary

mg/kg Milligrams per kilogram

bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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FINAL

0 3 6 12 Feet

Franklin Elementary School
527 Ventura Street
Altadena, California 91001

SOIL SAMPLE ANALYTICAL RESULTS
LOCATION -020

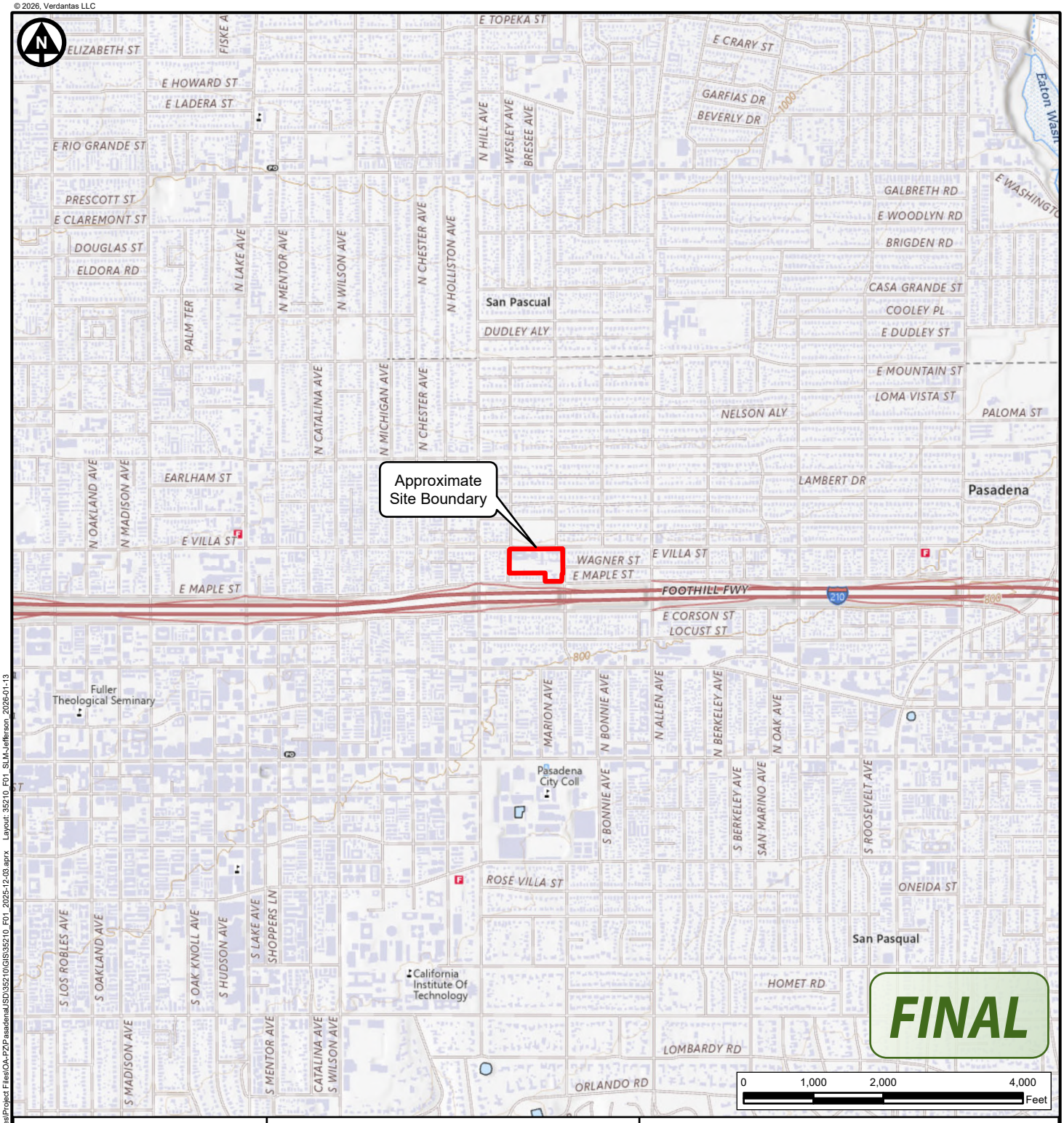
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	33799
Date	03/2026
Author	mmurphy
Scale	1 in = 6 ft
Figure	4C

Edited: 3/17/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZ\AAL\RR\33799\GIS\33799_Franklin.aprx Layout: 33799_Fig4C_SSLM-Franklin_2026-01-27

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Approximate Site Boundary



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Sources:
Aerial Imagery: Esri Imagery Web Service dated 2021.

Topographic Map: National Geographic Society Web Service.

Quadrangle: Mount Wilson, California

Jefferson Children's and Teen's Center
1500 E Villa Street
Pasadena, California 91106

Site Location Map

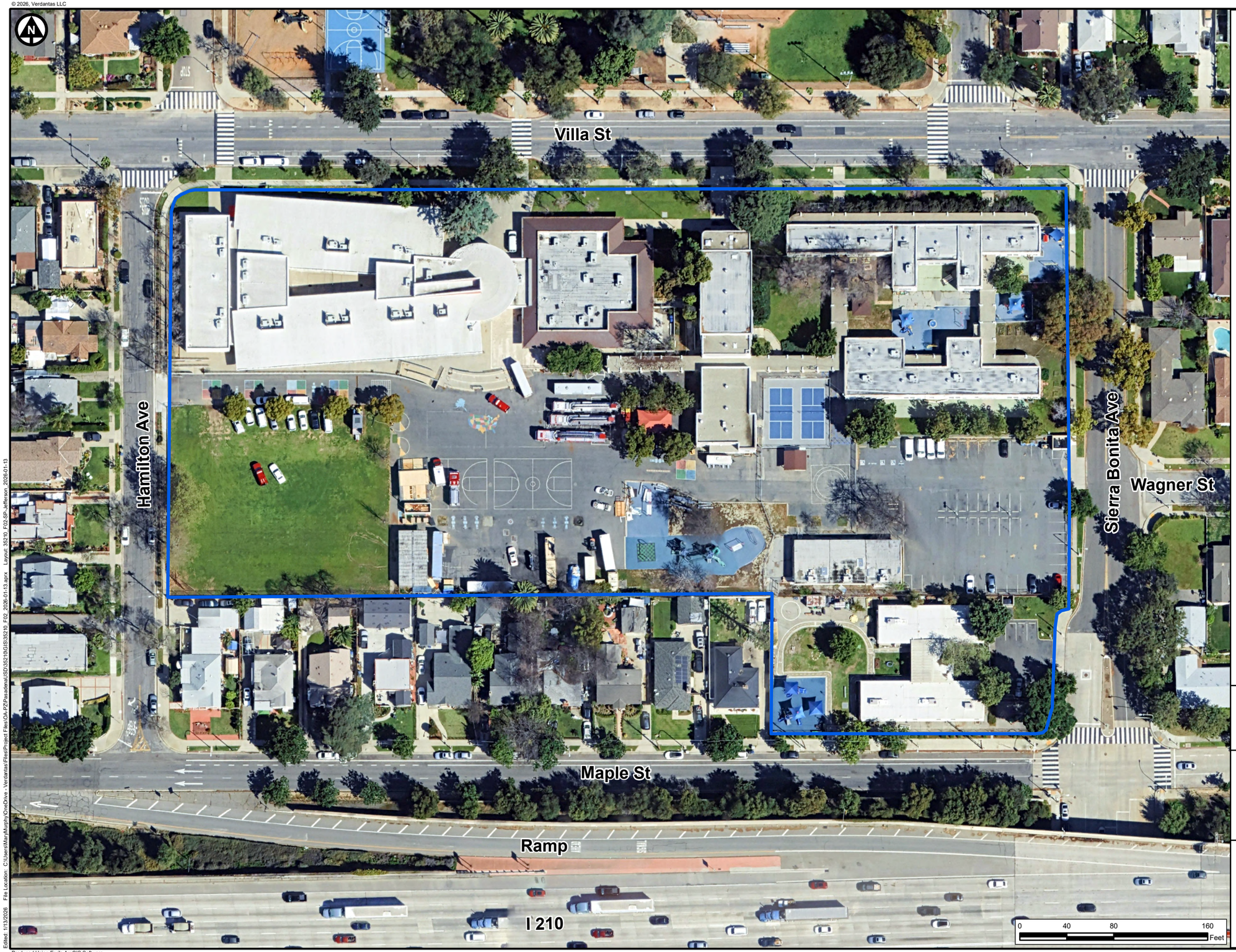
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 2,000 ft
Figure	1

Edited: 1/13/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\JSD\35210\GIS\35210_F01_2025-12-03.aprx Layout: 35210_F01_SLM-Jefferson_2026-01-13

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Approximate Site Boundary

FINAL

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Jefferson Children's and Teen's Center
1500 E Villa Street
Pasadena, California 91106

Site Plan

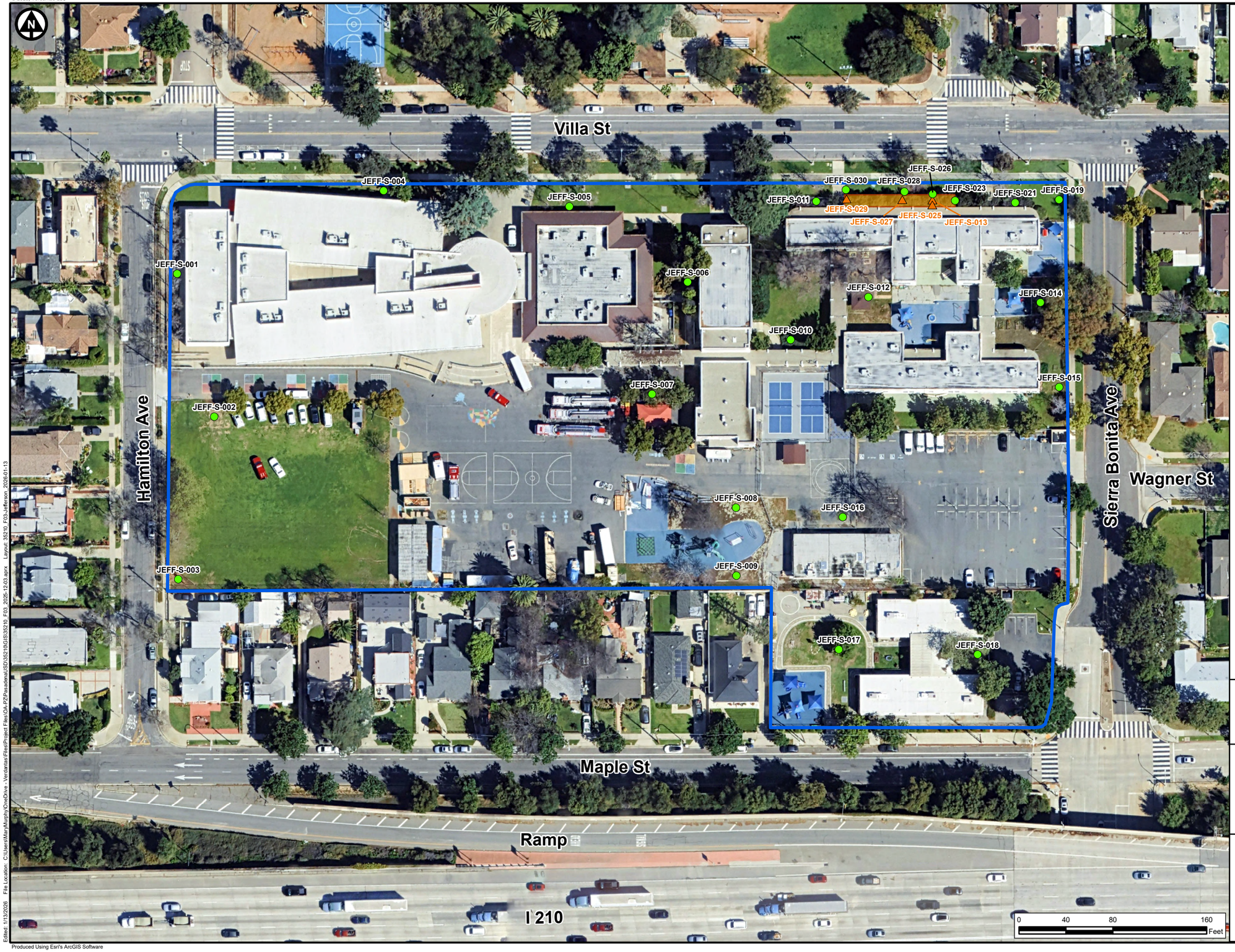
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 80 ft
Figure	2

Edited: 1/13/2026 File Location: C:\Users\Marv.Murphy\OneDrive - Verdantas\Files\Project Files\OA-P2\Pasadena\USD\35210\GIS\35210_F02_2026-01-13.aprx Layout: 35210_F02-SP_Jefferson_2026-01-13

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Location of Sample with Analytical Results Above Regulatory Screening Criteria

Location of Sample with Analytical Results at or below Regulatory Screening Criteria

Proposed Removal Area

Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Jefferson Children's and Teen's Center
1500 E Villa Street
Pasadena, California 91106

Soil Sample Analytical Results

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 80 ft
Figure	3

Edited: 1/13/2026 File Location: C:\Users\Marc\Murphy\OneDrive - Verdantas\Files\Project Files\OA-P2\Pasadena\USD\35210\GIS\35210_F03_2026-12-03.aprx Layout: 35210_F03-Jefferson_2026-01-13

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Villa St

JEFF-S-030
Lead: 47.5 mg/kg @ Surf

JEFF-S-028
Lead: 25.2 mg/kg @ Surf

JEFF-S-026
Lead: 29.7 mg/kg @ Surf

JEFF-S-011

JEFF-029
Lead: 122 mg/kg @ Surf
Lead: 58.5 mg/kg @ 1 foot bgs

JEFF-S-027
Lead: 473 mg/kg @ Surf
Lead: 42.1 mg/kg @ 1 foot bgs

JEFF-S-023
Lead: 59.4 mg/kg @ Surf

JEFF-S-025
Lead: 121 mg/kg @ Surf

JEFF-S-013
Lead: 97.0 mg/kg @ Surf
Lead: 8.1 mg/kg @ 1 foot bgs

JEFF-S-021
Lead: 55.7 mg/kg @ Surf

JEFF-S-019
Lead: 34.0 mg/kg @ Surf

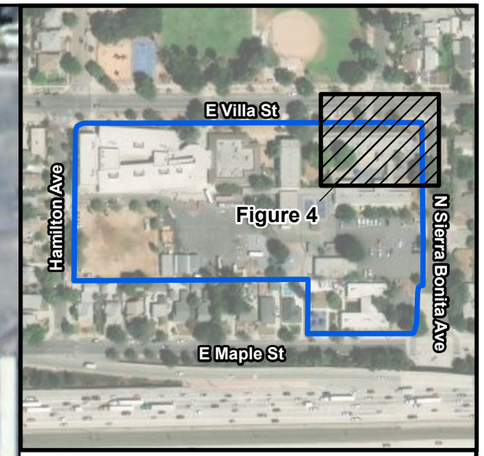
JEFF-S-012

JEFF-S-014

Sierra Bonita Ave

FINAL

0 10 20 40 Feet



- Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria
- Step-out Sample Location
- Proposed Removal Area
- Approximate Site Boundary
- mg/kg Milligrams per killogram
- Surf Surface
- bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

The aerial photo was acquired through Google Earth, 2025.

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Jefferson Children's and Teen's Center
1500 E Villa Street
Pasadena, California 91106

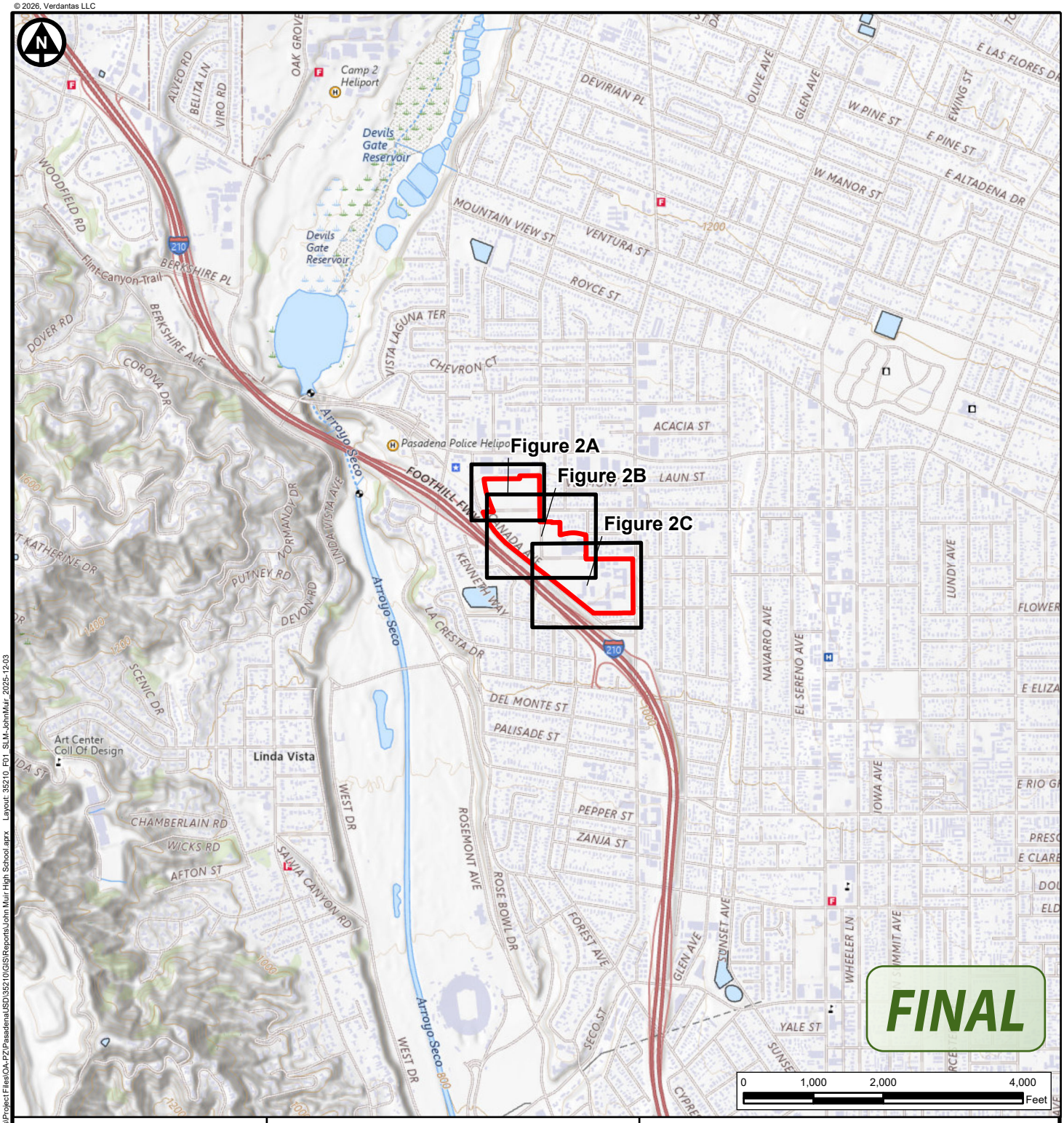
Soil Sample Analytical Results Location -013

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	02/2026
Author	mmurphy
Scale	1 in = 20 ft
Figure	4

Edited: 2/10/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Fire\Project Files\OA-P2\Pasadena\USD\35210\GIS\Reports\Jefferson Childrens Center.aprx Layout: 35210_F04-Jefferson_2026-01-13
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Approximate Site Boundary



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Sources:
Aerial Imagery: Esri Imagery Web Service dated 2021.

Topographic Map: National Geographic Society Web Service.

Quadrangle: Pasadena, California

John Muir High School
1905 Lincoln Avenue
Pasadena, California 91103

Site Location Map

Pasadena Unified School District
Fire-Related Campus Assessment

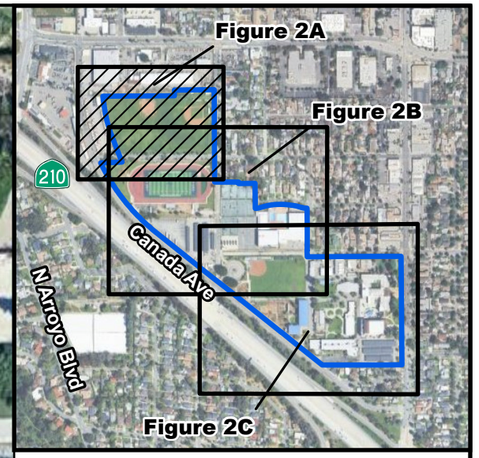
Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 2,000 ft
Figure	1

Edited: 3/4/2026 File Location: C:\Users\MarMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\John Muir High School.aprx Layout: 35210_F01_SLM-JohnMuir_2025-12-03

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Approximate Site Boundary

FINAL

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John Muir High School - Baseball Fields
1905 Lincoln Avenue
Pasadena, California 91103

Site Plan

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 80 ft
Figure	**2A**

Produced Using Esri's ArcGIS Software

Edited: 3/4/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\John Muir High School.aprx Layout: 35210_F02A-SP-JohnMuir-Baseball_2025-12-03

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Approximate Site Boundary

FINAL

The aerial photo was acquired through Google Earth, 2025.

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John Muir High School - Ballfields
1905 Lincoln Avenue
Pasadena, California 91103

Site Plan

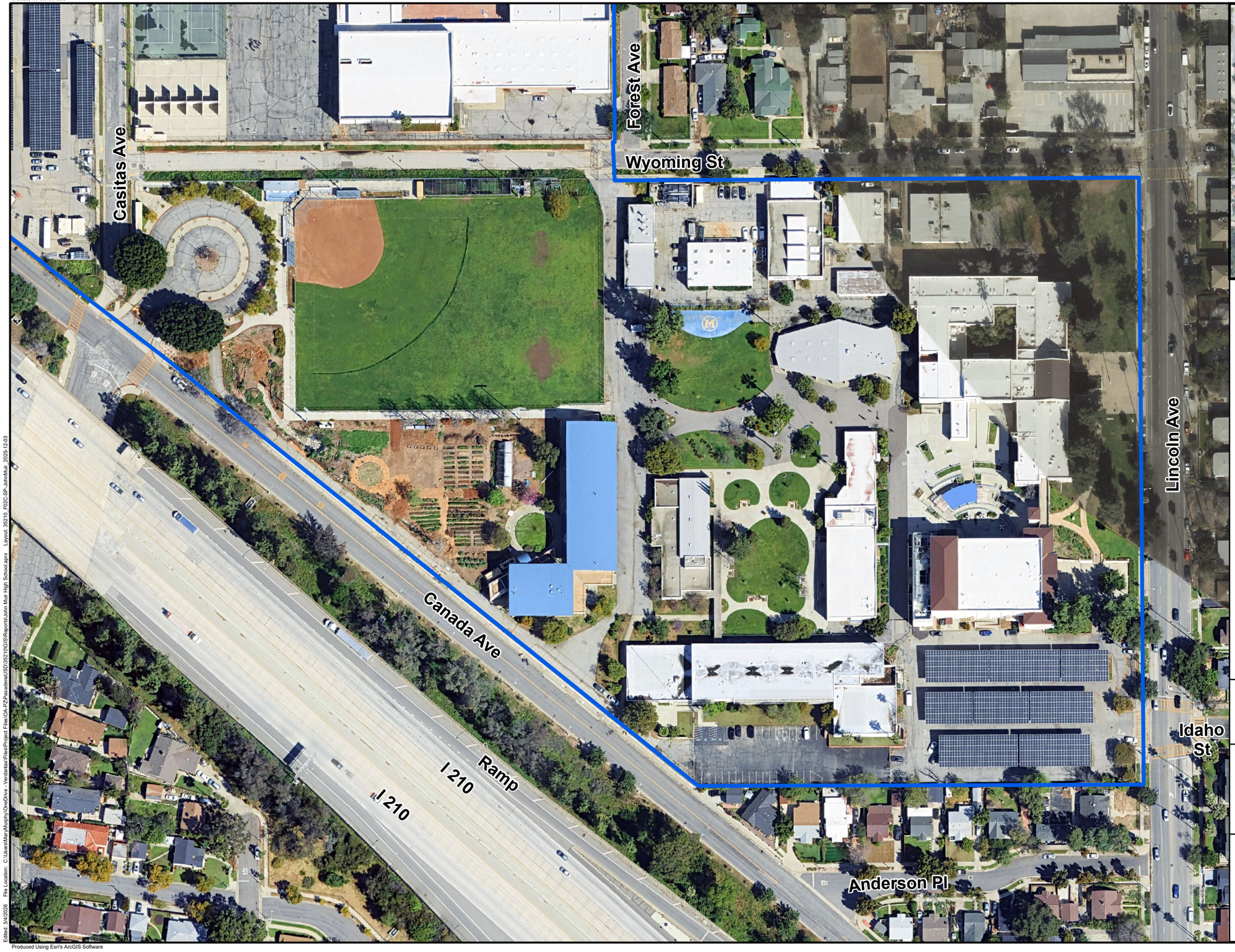
Pasadena Unified School District
Fire-Related Campus Assessment

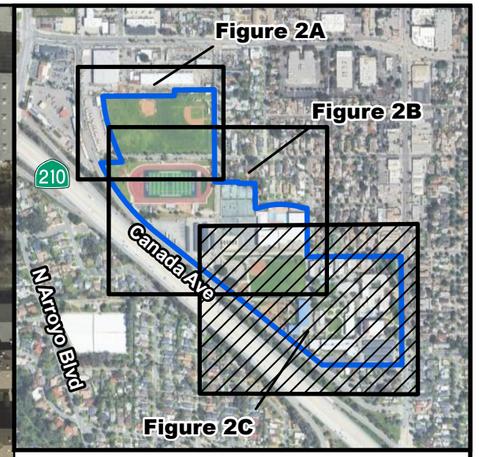
Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 120 ft
Figure	**2B**

Edited: 3/4/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\JSD\35210\GIS\Reports\John Muir High School.aprx Layout: 35210_FIG2B-SP-JohnMuir-BF_2025-12-03

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Approximate Site Boundary

FINAL

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John Muir High School - Main Campus
1905 Lincoln Avenue
Pasadena, California 91103

Site Plan

Pasadena Unified School District
Fire-Related Campus Assessment

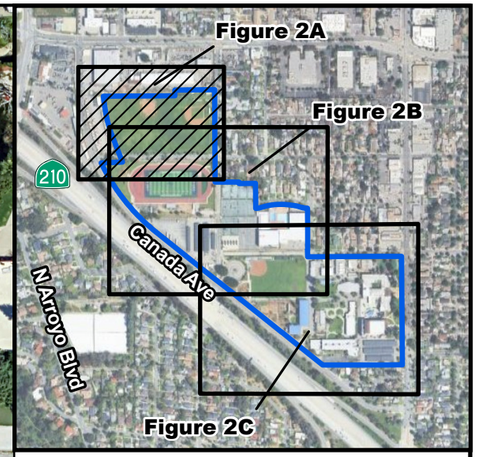
Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 120 ft
Figure	**2C**

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- Location of Soil Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Soil Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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John Muir High School - Baseball Fields
1905 Lincoln Avenue
Pasadena, California 91103

Soil Sample Analytical Results

Pasadena Unified School District
Fire-Related Campus Assessment

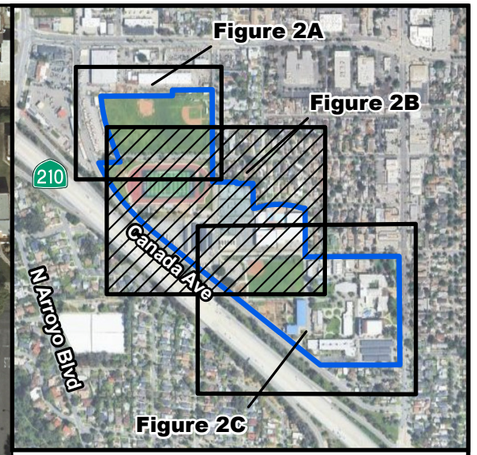
Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 80 ft
Figure	3A

Edited: 3/4/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\John Muir High School.aprx Layout: 35210_F03A_JohnMuir-Baseball_2025-12-08

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- Location of Soil Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Soil Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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John Muir High School - Ballfields
1905 Lincoln Avenue
Pasadena, California 91103

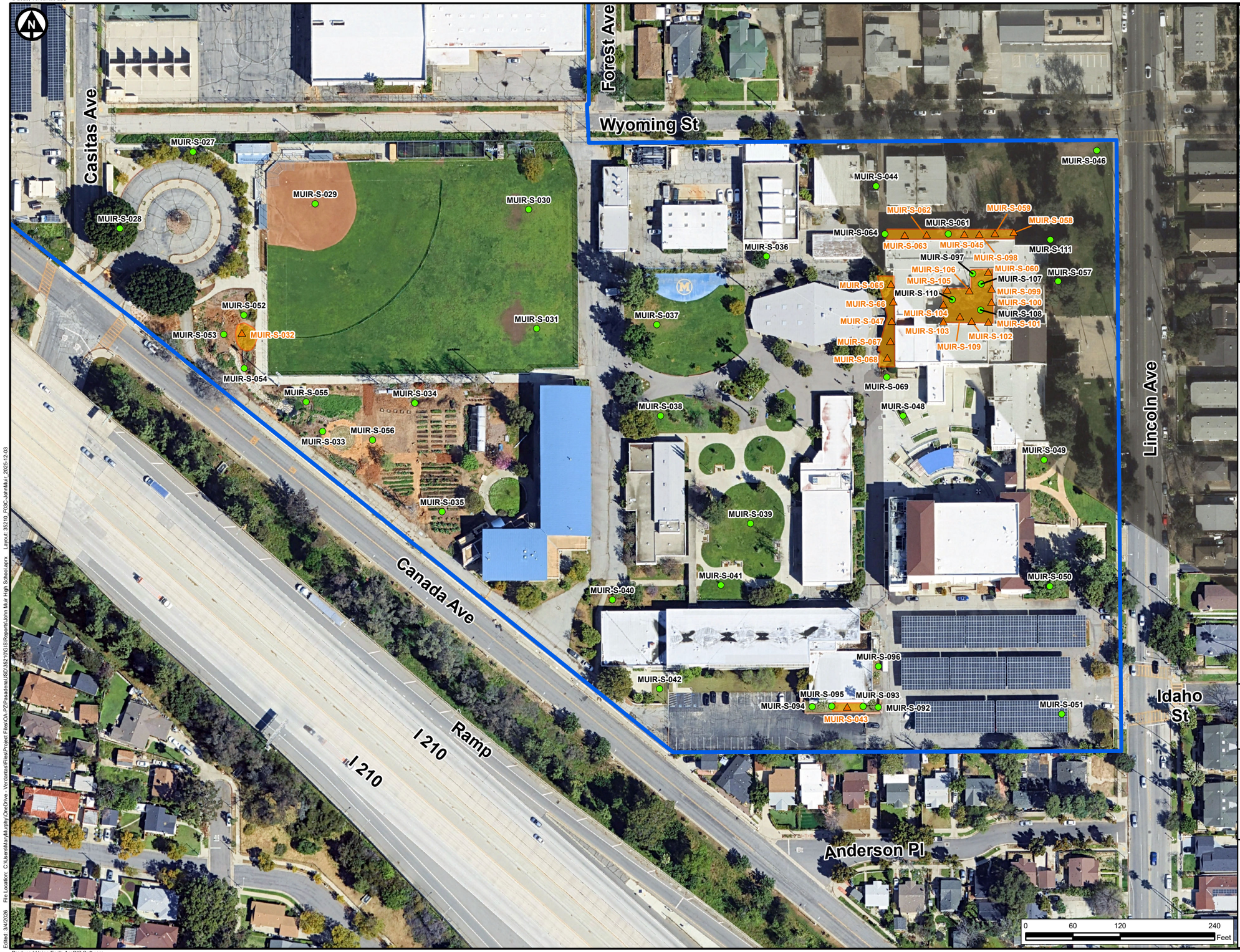
Soil Sample Analytical Results

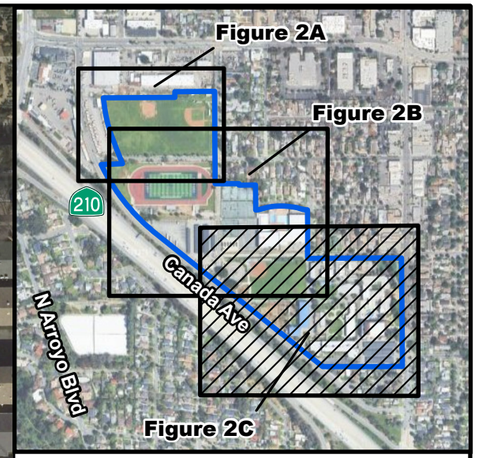
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 120 ft
Figure	3B

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▲ Location of Soil Sample with Analytical Results Above Regulatory Screening Criteria

● Location of Soil Sample with Analytical Results at or Below Regulatory Screening Criteria

Proposed Removal Area

Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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John Muir High School - Main Campus
1905 Lincoln Avenue
Pasadena, California 91103

Soil Sample Analytical Results

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 120 ft
Figure	3C

Edited: 3/4/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\ISD\35210\GIS\Reports\John Muir High School.aprx Layout: 35210_R3\C-JohnMuir_2025-12-03

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- Location of Soil Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Soil Sample with Analytical Results at or Below Regulatory Screening Criteria
- Approximate Site Boundary
- Proposed Removal Area

mg/kg milligrams per kilogram

Surf Surface

bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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John Muir High School - Ballfields
1905 Lincoln Avenue
Pasadena, California 91103

Soil Sample Analytical Results Location -018

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 4 ft
Figure	4A

Edited: 3/4/2026 File Location: C:\Users\MarkMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\PasadenaUSD\35210\GIS\Reports\M.aprx Layout: 35210_F04A_JohnMuir-BF_2025-12-03
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- Location of Soil Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Soil Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

mg/kg milligrams per kilogram

Surf Surface

bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Soil Sample Analytical Results Location -021

Pasadena Unified School District
Fire-Related Campus Assessment

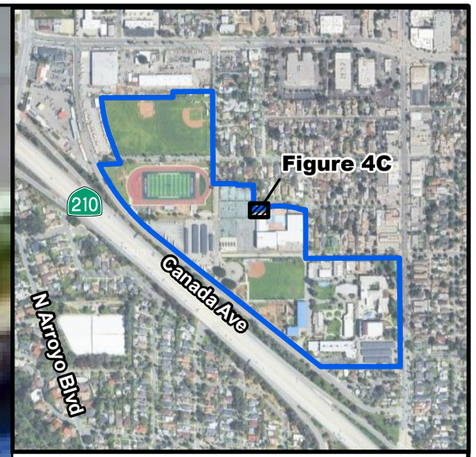
Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 5 ft
Figure	4B

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- Location of Soil Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Soil Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

mg/kg milligrams per kilogram

Surf Surface

bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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John Muir High School - Ballfields
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Soil Sample Analytical Results Location -024

Pasadena Unified School District
Fire-Related Campus Assessment

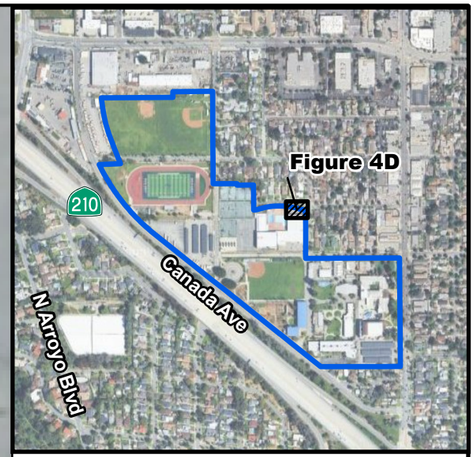
Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 10 ft
Figure	4C

Edited: 3/4/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\M.aprx Layout: 35210_F04C-JohnMuir-BF_2025-12-03

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- Location of Soil Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Soil Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

mg/kg milligrams per kilogram

Surf Surface

bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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John Muir High School - Ballfields
1905 Lincoln Avenue
Pasadena, California 91103

Soil Sample Analytical Results Location -025

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 12 ft
Figure	4D

Edited: 3/4/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\JM.aprx Layout: 35210_Fig4D_JohnMuir-BF 2025-12-03

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MUIR-S-052
Dioxins/Furans TEQ Risk: 1.19 pg/g @ Surf

MUIR-S-053
Dioxins/Furans TEQ Risk: 4.17 pg/g @ Surf

MUIR-S-032
Dioxins/Furans TEQrisk: 209 pg/g @ Surf
Dioxins/Furans TEQRisk: 11.0 pg/g @ 1 foot bgs

MUIR-S-031

MUIR-S-054
Dioxins/Furans TEQ Risk: 2.87 pg/g @ Surf

MUIR-S-055
Dioxins/Furans TEQ Risk: 3.04 pg/g @ Surf

MUIR-S-034

MUIR-S-033

MUIR-S-056
Dioxins/Furans TEQ Risk: 0.379 pg/g @ Surf

MUIR-S-035
Dioxins/Furans TEQ Risk: 6.63 pg/g @ Surf

MUIR-S-040

Canada Ave

I 210

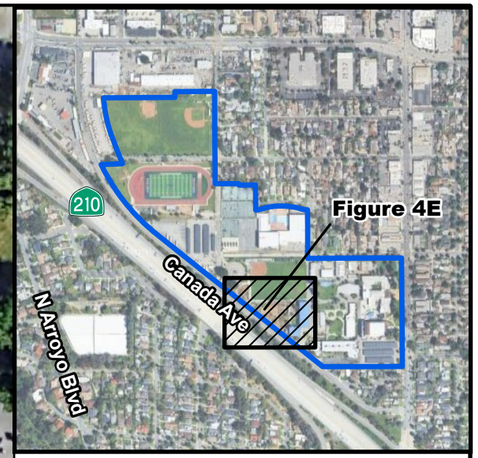
I 210

Ramp

Ramp

FINAL

0 25 50 100 Feet



- Location of Soil Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Soil Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary
- **TEQ** Toxicity Equivalence
- **TEQrisk** TEQ calculation that uses 1/2 the detection limit as the concentration for non-detects
- **pg/g** picograms per gram
- **mg/kg** Milligrams per kilogram
- **Surf** Surface
- **bgs** Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:
Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety
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John Muir High School - Main Campus
1905 Lincoln Avenue
Pasadena, California 91103

Soil Sample Analytical Results
Location -032

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 50 ft
Figure	4E

Edited: 3/4/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\ISD\35210\GIS\Reports\JM.aprx Layout: 35210_F04E-JohnMuir_2025-12-03

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MUIR-S-063
Lead: 85.7 mg/kg k@ Surf
Lead: 55.1 mg/kg @ 1 foot bgs

MUIR-S-064
Lead: 59.3 mg/kg @ Surf

MUIR-S-062
Lead: 96.2 mg/kg @ Surf
Lead: 65.2 mg/kg @ 1 foot bgs

MUIR-S-061
Lead: 71.5 mg/kg @ Surf

MUIR-S-045
Lead: 145 mg/kg @ Surf
Lead: 6.3 mg/kg @ 1 foot bgs

MUIR-S-059
Lead: 98.6 mg/kg @ Surf
Lead: 24.0 mg/kg @ 1 foot bgs

MUIR-S-060
Lead: 94.7 mg/kg @ Surf
Lead: 10.7 mg/kg @ 1 foot bgs

MUIR-S-058
Lead: 164 mg/kg @ Surf
Lead: 66.5 mg/kg @ 1 foot bgs

MUIR-S-111
Lead: 53.4 mg/kg @ Surf

MUIR-S-057
Lead: 48.7 mg/kg @ Surf

MUIR-S-065
Lead: 1,320 mg/kg @ Surf
Lead: 222 mg/kg @ 2 feet bgs

MUIR-S-066
Lead: 118 mg/kg @ Surf
Lead: 9.0 mg/kg @ 1 foot bgs

MUIR-S-047
Lead: 179 mg/kg @ Surf
Lead: 7.5 mg/kg @ 1 foot bgs

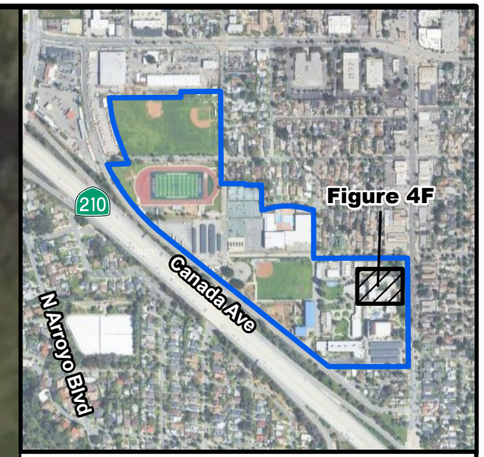
MUIR-S-067
Lead: 172 mg/kg @ Surf
Lead: 54.1 mg/kg @ 1 foot bgs

MUIR-S-068
Lead: 172 mg/kg @ Surf
Lead: 16.6 mg/kg @ 1 foot bgs

MUIR-S-069
Lead: 31.8 mg/kg @ Surf

MUIR-S-097
MUIR-S-098
MUIR-S-107
MUIR-S-105
MUIR-S-106
MUIR-S-099
MUIR-S-110
MUIR-S-104
MUIR-S-100
MUIR-S-108
MUIR-S-109
MUIR-S-103
MUIR-S-102
MUIR-S-101

See Figure 4H



- Location of Soil Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Soil Sample with Analytical Results at or below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

TEQ	Toxicity Equivalence
TEQrisk	TEQ calculation that uses 1/2 the detection limit as the concentration for non-detects
pg/g	picograms per gram
mg/kg	Milligrams per kilogram
Surf	Surface
bgs	Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:
Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety
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FINAL

0 12.5 25 50 Feet

John Muir High School - Main Campus
1905 Lincoln Avenue
Pasadena, California 91103

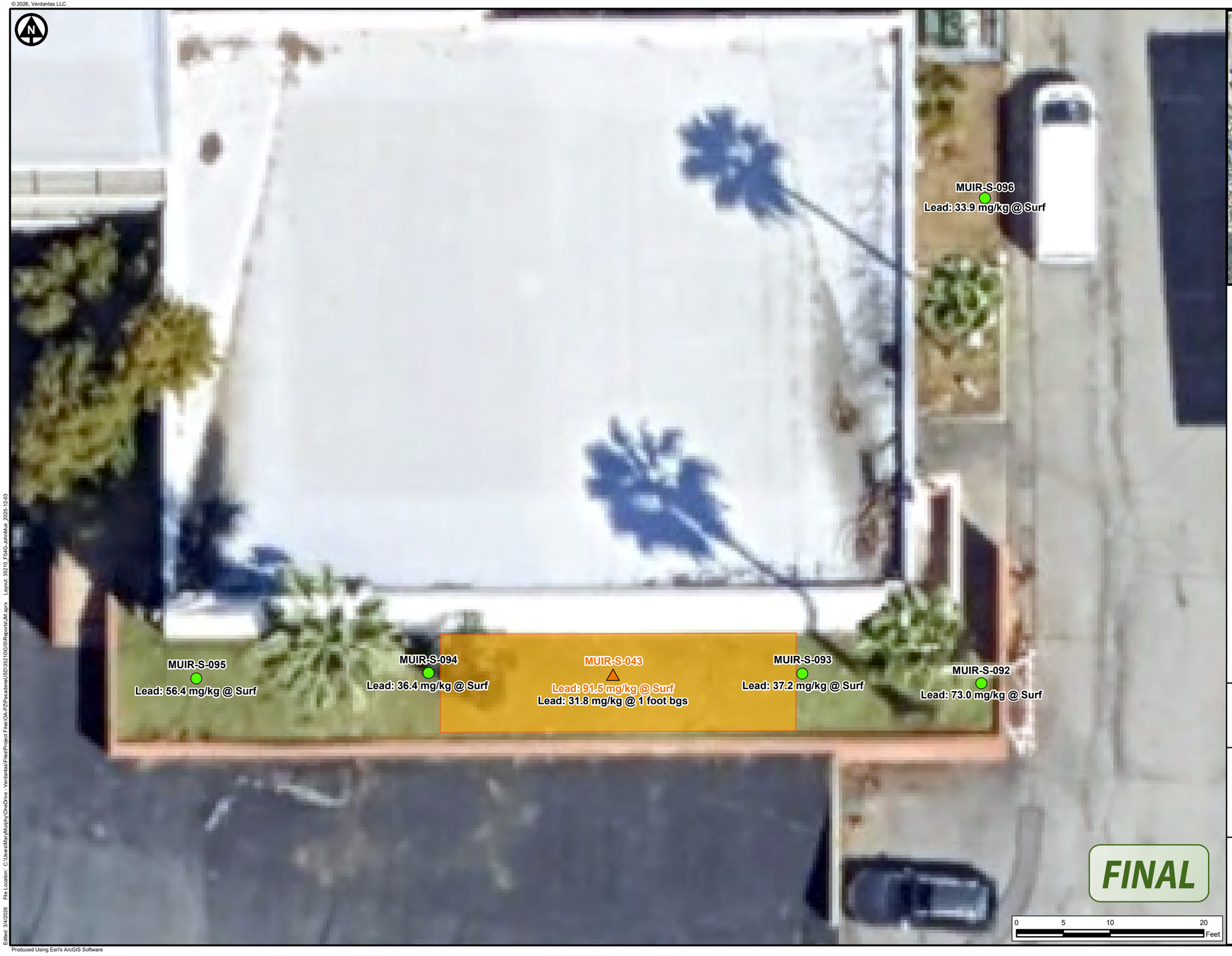
Soil Sample Analytical Results Locations -045 and -047

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 25 ft
Figure	4F

Edited: 3/20/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\John Muir High School.aprx Layout: 35210_F04F-JohnMuir_2026-03-20
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- Location of Soil Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Soil Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

mg/kg Milligrams per kilogram

Surf Surface

bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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John Muir High School - Main Campus
1905 Lincoln Avenue
Pasadena, California 91103

Soil Sample Analytical Results Location -043

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 10 ft
Figure	4G

Edited: 3/4/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\M.aprx Layout: 35210_F04G_JohnMuir_2025-12-03

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MUIR-S-097
Lead: 34.0 mg/kg @ Surf
Lead: 53.0 mg/kg @ 1 foot bgs
Lead: 21.3 mg/kg @ 2 feet bgs

MUIR-S-098
Lead: 167 mg/kg @ Surf
Lead: 52.4 mg/kg @1 foot bgs
Lead: 7.1 mg/kg @ 2 feet bgs

MUIR-S-107
Lead: 73.1 mg/kg @ Surf
Lead: 20.1 mg/kg @ 1 foot bgs

MUIR-S-105
Lead: 156 mg/kg @ Surf
Lead: 255 mg/kg @ 1 foot bgs

MUIR-S-106
Lead: 104 mg/kg @ Surf
Lead: 120 mg/kg @ 1 feet bgs
Lead: 9.92 mg/kg @ 2 feet bgs

MUIR-S-099
Lead: 489 mg/kg @ Surf
Lead: 29.7 mg/kg @1 foot bgs
Lead: 75.4 mg/kg @ 2 feet bgs

MUIR-S-110
Lead: 65.9 mg/kg @ Surf
Lead: 21.3 mg/kg @ 1 foot bgs

MUIR-S-100
Lead: 2,490 mg/kg @ Surf
Lead: 103 mg/kg @ 1 foot bgs

MUIR-S-104
Lead: 227 mg/kg @ Surf
Lead: 79.9 mg/kg @ 1 foot bgs
Lead: 56.8 mg/kg @ 2 feet bgs
Lead: 10.5 mg/kg @ 3 feet bgs

MUIR-S-108
Lead: 75.0 mg/kg @ Surf
Lead: 7.0 mg/kg @ 1 foot bgs

MUIR-S-109
Lead: 117 mg/kg @ Surf
Lead: 4.7 mg/kg @ 1 foot bgs

MUIR-S-103
Lead: 139 mg/kg @ Surf
Lead: 28.7 mg/kg @ 1 foot bgs

MUIR-S-102
Lead: 143 mg/kg @ Surf
Lead: 9.5 mg/kg @ 1 foot bgs

MUIR-S-101
Lead: 61.2 mg/kg @ Surf
Lead: 137 mg/kg @ 1 foot bgs
Lead: 453 mg/kg @ 2 feet bgs

FINAL

0 5 10 20 Feet



- Location of Soil Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Soil Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

mg/kg milligrams per kilogram

Surf Surface

bgs Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

The aerial photo was acquired through Google Earth, 2025.

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John Muir High School - Courtyard
1905 Lincoln Avenue
Pasadena, California 91103

Soil Sample Analytical Results

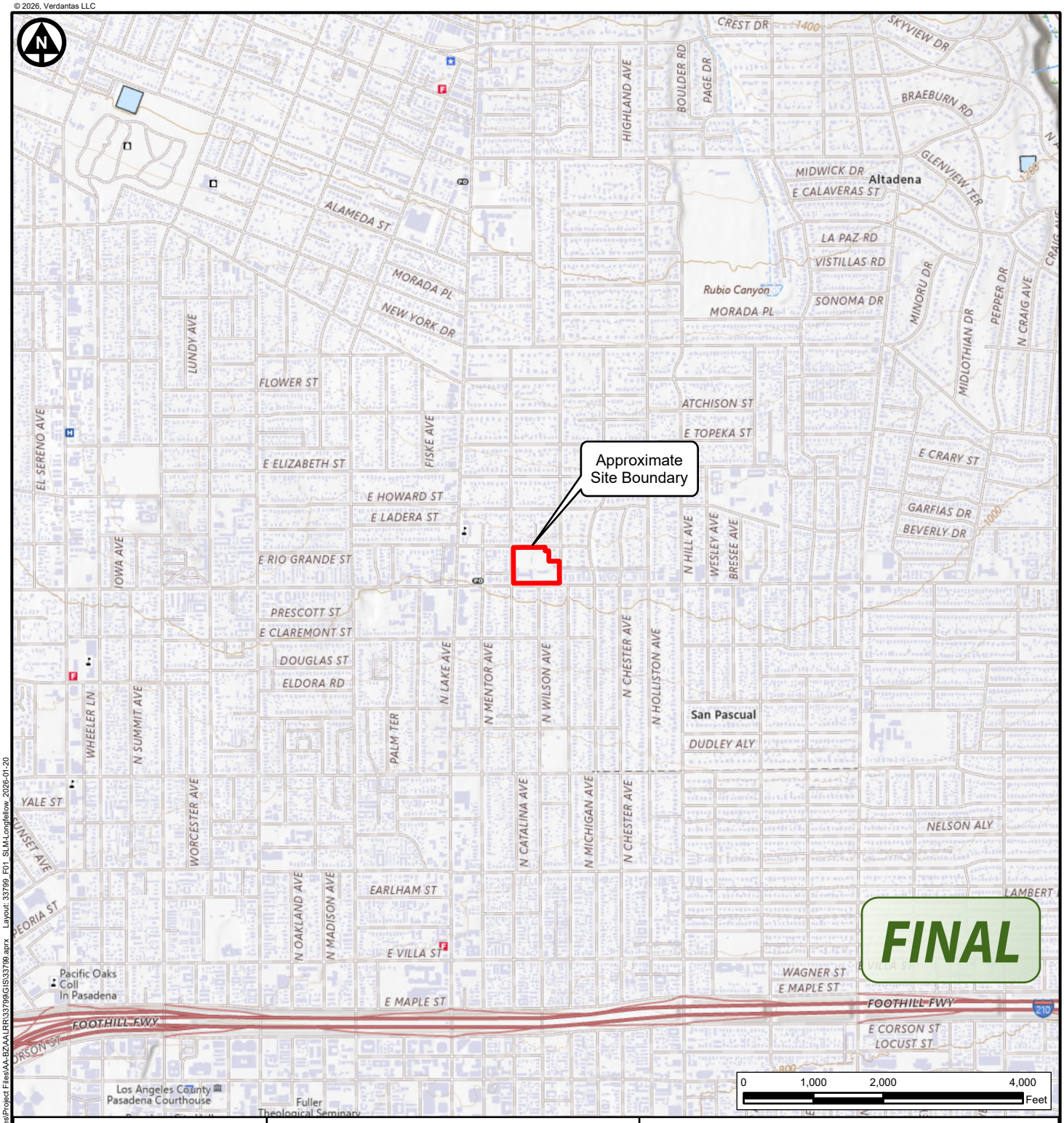
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 10 ft
Figure	4H

Edited: 3/20/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\John Muir High School.aprx Layout: 35210_F04H-JohnMuir-Courtyard_2026-03-20

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FINAL

Approximate Site Boundary



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Sources:
Aerial Imagery: Esri Imagery Web Service dated 2021.

Topographic Map: National Geographic Society Web Service.

Quadrangle: Pasadena, California

Longfellow Elementary School
1065 E. Washington Blvd
Pasadena, California 91103

SITE LOCATION MAP

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 2,000 ft
Figure	1

Edited: 1/20/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZA\ALR\33799\GIS\33798.aprx Layout: 33799_F01_SLM-Longfellow_2026-01-20

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Approximate School Property Boundary

FINAL

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Longfellow Elementary School
1065 E. Washington Blvd
Pasadena, California 91103

SITE PLAN

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 60 ft
Figure	2

Edited: 1/26/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZ\AAL\RR\33799\GIS\33799_Longfellow.aprx Layout: 35210_F02_SP-Longfellow_2026-01-26

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- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or below Regulatory Screening Criteria
- Approximate Footprint of Historical Structure (estimated from historical documents)
- Proposed Removal Area
- Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Longfellow Elementary School
1065 E. Washington Blvd
Pasadena, California 91103

SOIL SAMPLE ANALYTICAL RESULTS

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	33799
Date	02/2026
Author	mmurphy
Scale	1 in = 60 ft
Figure	3

Edited: 2/5/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZA\AL RR\33799\GIS\33799_Longfellow.aprx Layout: 33799_F03_SSAR-Longfellow_2026-02-05
Produced Using Esri's ArcGIS Software

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LFES-S-063
Lead: 21.1 mg/kg @ Surf
Lead: 8.3 mg/kg @ 2.0 feet bgs

LFES-S-017
Lead: 38.5 mg/kg @ Surf

LFES-S-058
Lead: 14.4 mg/kg @ 0.5 feet bgs
Lead: 5.4 mg/kg @ 2.0 feet bgs

LFES-S-057
Lead: 17.2 mg/kg @ 0.5 feet bgs
Lead: 104 mg/kg @ 2 feet bgs
Lead: 8.1 mg/kg @ 4.5 feet bgs

LFES-S-059
Lead: 9.94 mg/kg @ 2.0 feet bgs

LFES-S-055
7.8 mg/kg @ 0.5 feet bgs
7.8 mg/kg @ 2.0 feet bgs

LFES-S-060
Lead: 11.5 mg/kg @ 0.5 feet bgs
Lead: 6.4 mg/kg @ 2.0 feet bgs

LFES-S-056
Lead: 2.4 mg/kg @ 0.5 feet bgs
Lead: 9.4 mg/kg @ 2.0 feet bgs



- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or below Regulatory Screening Criteria
- Proposed Confirmation Sample Locations
- Proposed Removal Area
- Approximate Footprint of Historical Structure (estimated from historical documents)
- Approximate Site Boundary
- **mg/kg** Milligrams per kilogram
- **Surf** Surface
- **bgs** Below Ground Surface

Orange values are above Regulatory Screening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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FINAL

0 5 10 20 Feet

Longfellow Elementary School
1065 E. Washington Blvd
Pasadena, California 91103

SOIL SAMPLE ANALYTICAL RESULTS LOCATION -057

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	33799
Date	03/2026
Author	mmurphy
Scale	1 in = 10 ft
Figure	4A

Edited: 3/18/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZ\AALRR\33799\GIS\33799_Longfellow.aprx Layout: 33799_F4AA_SSAR-Longfellow_2026-02-05

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LFES-S-043
Lead: 75.6 mg/kg @ 0.5 feet bgs
Lead: 16.8 mg/kg @ 2.0 feet bgs

LFES-S-045
Lead: 75.8 mg/kg @ 2.0 feet bgs

LFES-S-032
Lead: 36.3 mg/kg @ Surf

LEFS-S-026
Lead: 101 mg/kg @ Surf
Lead: 20.6 mg/kg @ 1.0 foot bgs

LFES-S-046
Lead: 38.2 mg/kg @ 1.0 foot bgs

LEFS-S-024
Lead: 160 mg/kg @ Surf
Lead: 12.3 mg/kg @ 1.0 foot bgs

LEFS-S-010
Lead: 175 mg/kg @ Surf
Lead: 10.5 mg/kg @ 2 feet bgs

LFES-S-048
Lead: 11.2 mg/kg @ 0.5 feet bgs
Lead: 51.8 mg/kg @ 2.0 feet bgs

LEFS-S-027
Lead: 226 mg/kg @ Surf
Lead: 5.7 mg/kg @ 1.0 foot bgs

LFES-S-018
Lead: 77.2 mg/kg @ Surf

LFES-S-031
Lead: 66.1 mg/kg @ Surf

LEFS-S-021/LEFS-S-050
Lead: 281 mg/kg @ Surf
Lead: 50.9 mg/kg @ 1 foot bgs
Lead: 30.6 mg/kg @ 2 feet bgs

LFES-S-009
Lead: 197 mg/kg @ Surf

LEFS-S-025
Lead: 150 mg/kg @ Surf
Lead: 38.2 mg/kg @ 1.0 foot bgs

LEFS-S-047
Lead: 84.4 mg/kg @ 2.0 feet bgs

LEFS-S-019
Lead: 120 mg/kg @ Surf
Lead: 7.4 mg/kg @ 1 foot bgs

LFES-S-049
Lead: 15.0 mg/kg @ 2.0 feet bgs

LFES-S-023
Lead: 24.7 mg/kg @ Surf

LFES-S-028
Lead:118 mg/kg @ Surf
Lead: 18.9 mg/kg @ 1.0 foot bgs

LFES-S-029
Lead: 99.2 mg/kg @ Surf
Lead: 6.1 mg/kg @ 1.0 foot bgs

LEFS-S-020
Lead: 158 mg/kg @ Surf
Lead: 14.5 mg/kg @ 1 foot bgs

LFES-S-030
Lead: 333 mg/kg @ Surf
Lead: 118 mg/kg @ 1.0 foot bgs

LEFS-S-022
Lead: 304 mg/kg @ Surf
Lead: 9.0 mg/kg @ 1 foot bgs

Washington Blvd

FINAL

0 12.5 25 50 Feet



- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or below Regulatory Screening Criteria
- Proposed Confirmation Sample Locations
- Proposed Removal Area
- Approximate Footprint of Historical Structure (estimated from historical documents)
- Approximate Site Boundary
- **mg/kg** Milligrams per kilogram
- **Surf** Surface
- **bgs** Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Longfellow Elementary School
1065 E. Washington Blvd
Pasadena, California 91103

SOIL SAMPLE ANALYTICAL RESULTS LOCATIONS -009 & -10

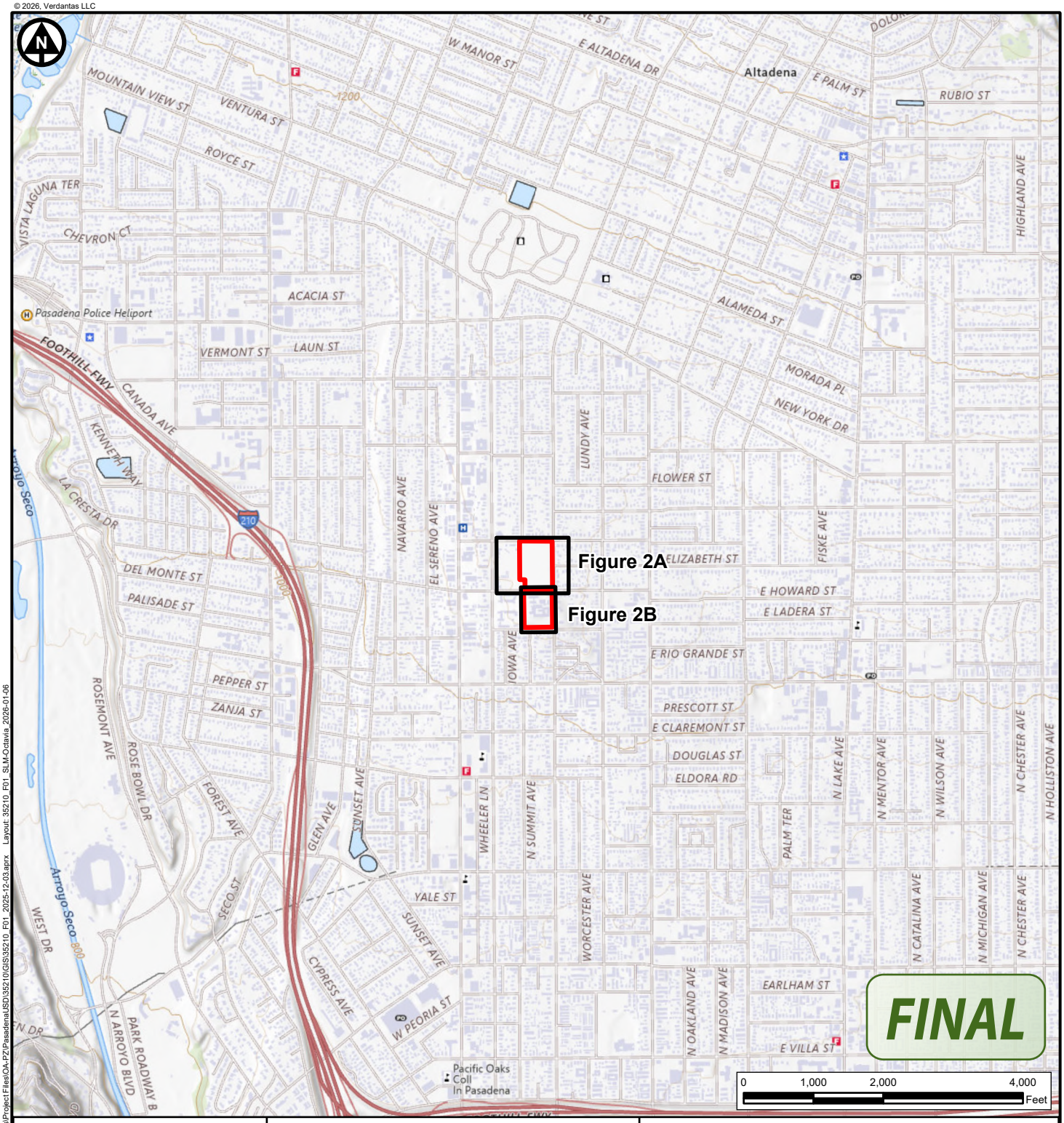
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	33799
Date	03/2026
Author	mmurphy
Scale	1 in = 25 ft
Figure	4B

Edited: 3/18/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZ\AALRR\33799\GIS\33799_Longfellow.aprx Layout: 33799_F04B_SSAR-Longfellow_2026-01-26

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Approximate Site Boundary



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Sources:
Aerial Imagery: Esri Imagery Web Service dated 2021.

Topographic Map: National Geographic Society Web Service.

Quadrangle: Pasadena, California

Octavia E. Butler Magnet School
1520 N. Raymond Avenue
Pasadena, California 91103

Site Location Map

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 2,000 ft
Figure	1

Edited: 1/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\35210_FD1_2025-12-03.aprx Layout: 35210_FD1_SLM-Octavia_2026-01-06

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Approximate Site Boundary

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Octavia E. Butler Magnet - Fields
North of 1520 N. Raymond Avenue
Pasadena, California 91103

Site Plan

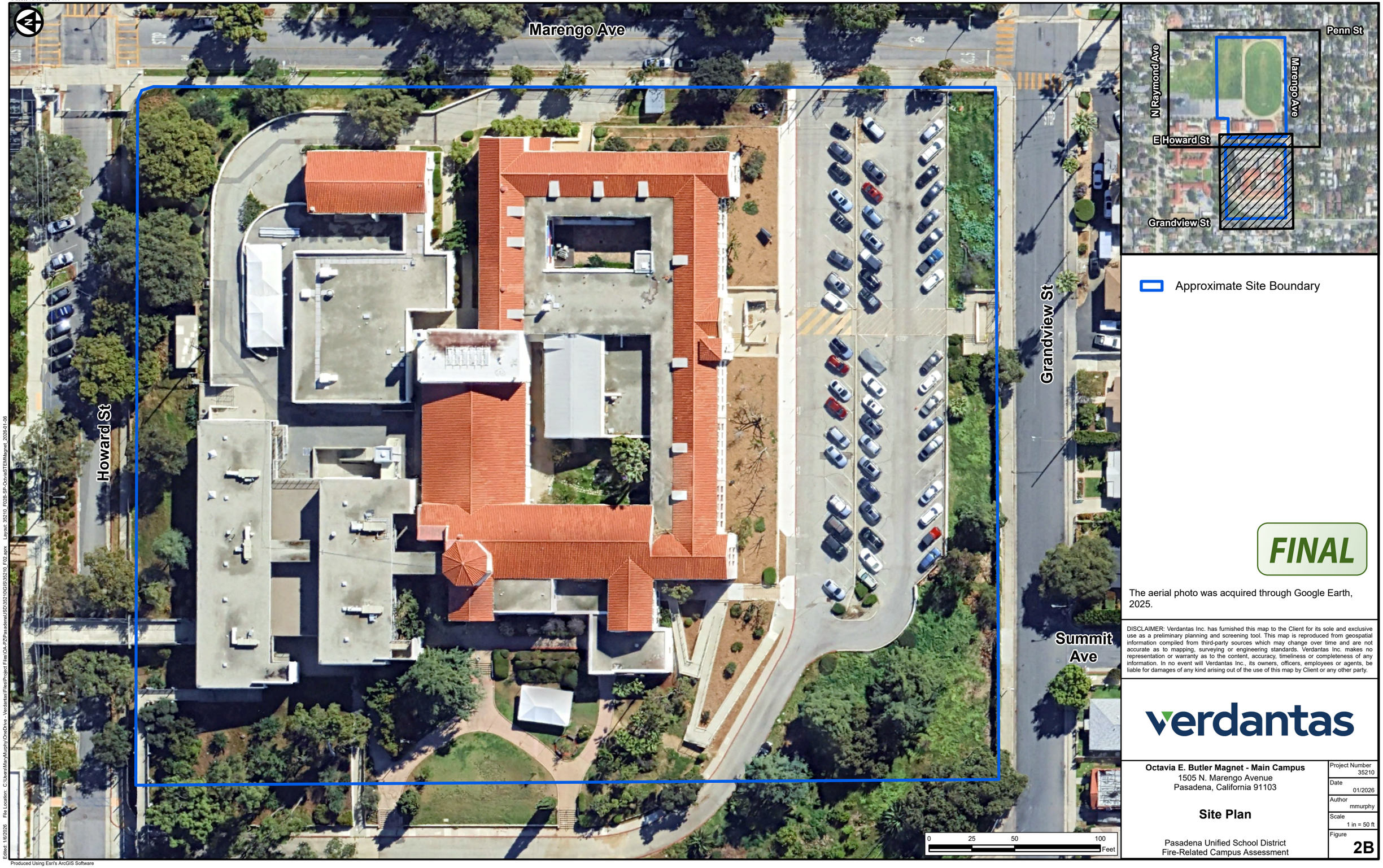
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 80 ft
Figure	2A

Edited: 1/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\SD\35210\GIS\35210_F02.aprx Layout: 35210_F02A-SP-Octavia_2026-01-06

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Approximate Site Boundary

FINAL

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Octavia E. Butler Magnet - Main Campus
1505 N. Marengo Avenue
Pasadena, California 91103

Site Plan

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 50 ft
Figure	**2B**

Edited: 1/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\35210_Fl2.aprx Layout: 35210_Fl2B_SP_OctviaSTEMMagnet_2026-01-06

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- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Octavia E. Butler Magnet - Fields
North of 1520 N. Raymond Avenue
Pasadena, California 91103

Soil Sample Analytical Results

Pasadena Unified School District
Fire-Related Campus Assessment

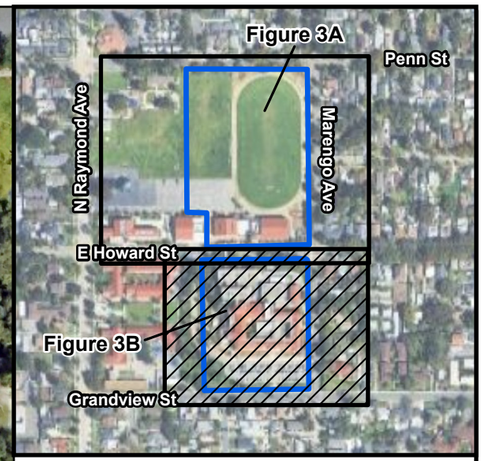
Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 80 ft
Figure	3A

Edited: 1/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\SD\35210\GIS\35210_F03_2025-12-03.aprx Layout: 35210_F03A-OctaviaButler_2026-01-06

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- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Octavia E. Butler Magnet - Main Campus
1505 N. Marengo Avenue
Pasadena, California 91103

Soil Sample Analytical Results

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 50 ft
Figure	3B

Edited: 3/25/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-P2\Pasadena\USD\35210\GIS\Reports\Octavia Butler.aprx Layout: 3B2(10_F)3B-OctaE TEMMagnet_2026-03-19

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- Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria
- Step-out Sample Location
- Proposed Removal Area
- Approximate Site Boundary
- mg/kg — milligrams per kilogram
- Surf — Surface
- bgs — Below Ground Surface

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Octavia E. Butler Magnet - Main Campus
1505 N. Marengo Avenue
Pasadena, California 91103

Soil Sample Analytical Results Location -001

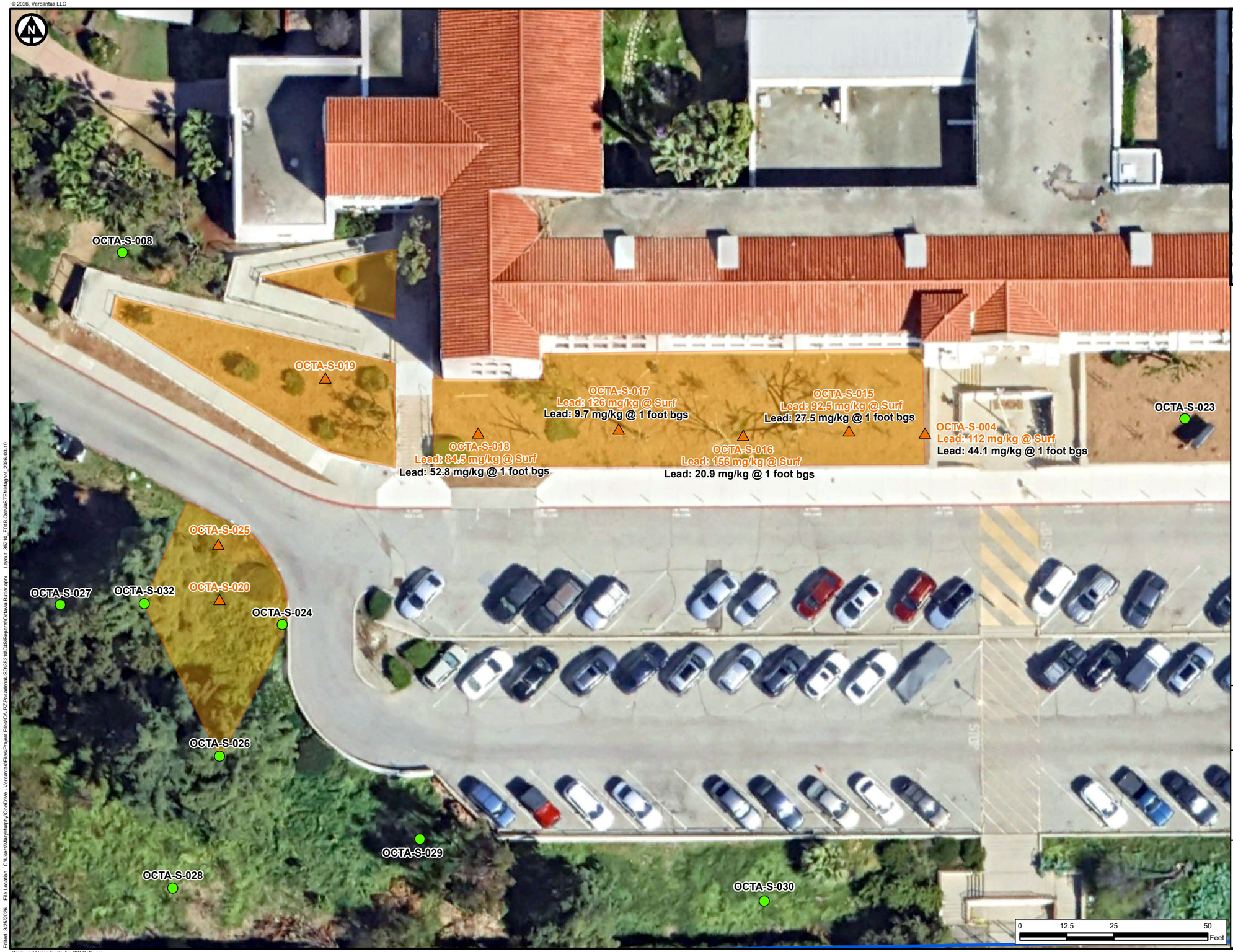
Pasadena Unified School District
Fire-Related Campus Assessment

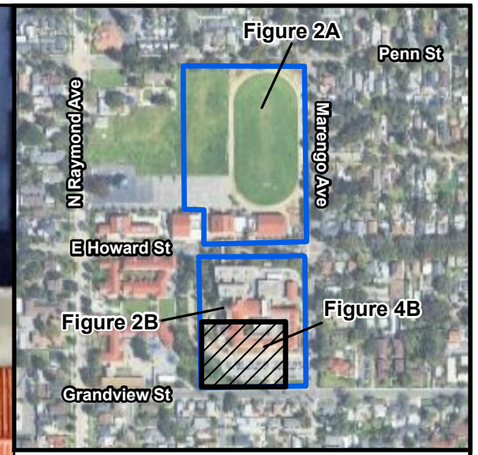
Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 6 ft
Figure	4A

Edited: 1/6/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\35210_F04_2025-12-03.aprx Layout: 35210_F04A-OctaviaSTEMMagnet_2026-01-06

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- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary
- **mg/kg** milligrams per kilogram
- **Surf** Surface
- **bgs** Below Ground Surface

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Octavia E. Butler Magnet - Main Campus
1505 N. Marengo Avenue
Pasadena, California 91103

Soil Sample Analytical Results Location -004

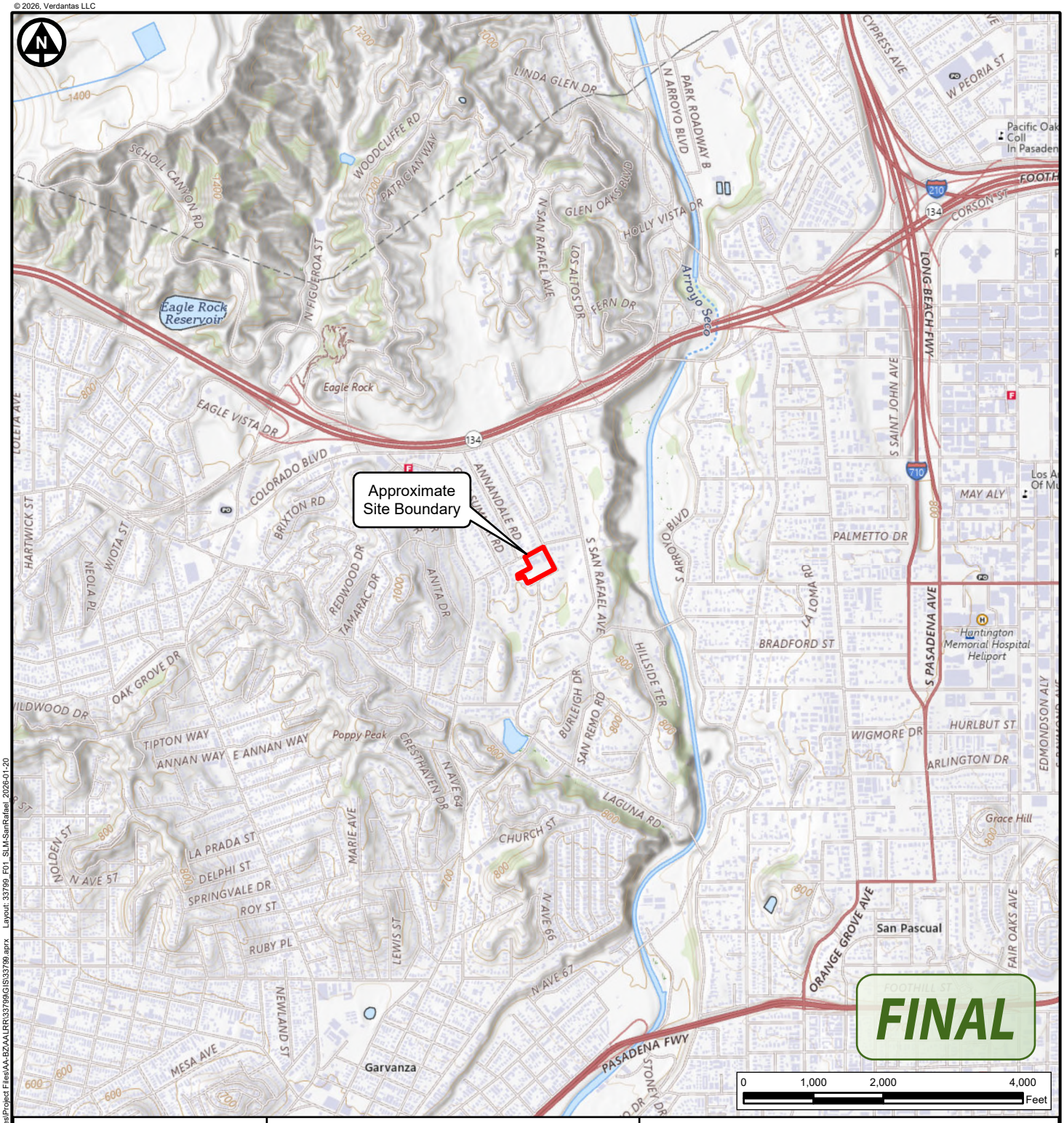
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	03/2026
Author	mmurphy
Scale	1 in = 20 ft
Figure	**4B**

Edited: 3/25/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\Reports\Octavia Butler.aprx Layout: 3|2|10_F|4B-OctviaS TEMMagnet_2026-03-19

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Sources:
Aerial Imagery: Esri Imagery Web Service dated 2021.

Topographic Map: National Geographic Society Web Service.

Quadrangle: Pasadena, California

San Rafael Elementary School
1090 Nithsdale Road
Pasadena, California 91105

SITE LOCTION MAP

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 2,000 ft
Figure	1

Edited: 1/20/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZAALRR\33799\GIS\33798.aprx Layout: 33799_F01_SLM-SanRafael_2026-01-20

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Approximate Site Boundary

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San Rafael Elementary School
1090 Nithsdale Road
Pasadena, California 91105

SITE PLAN

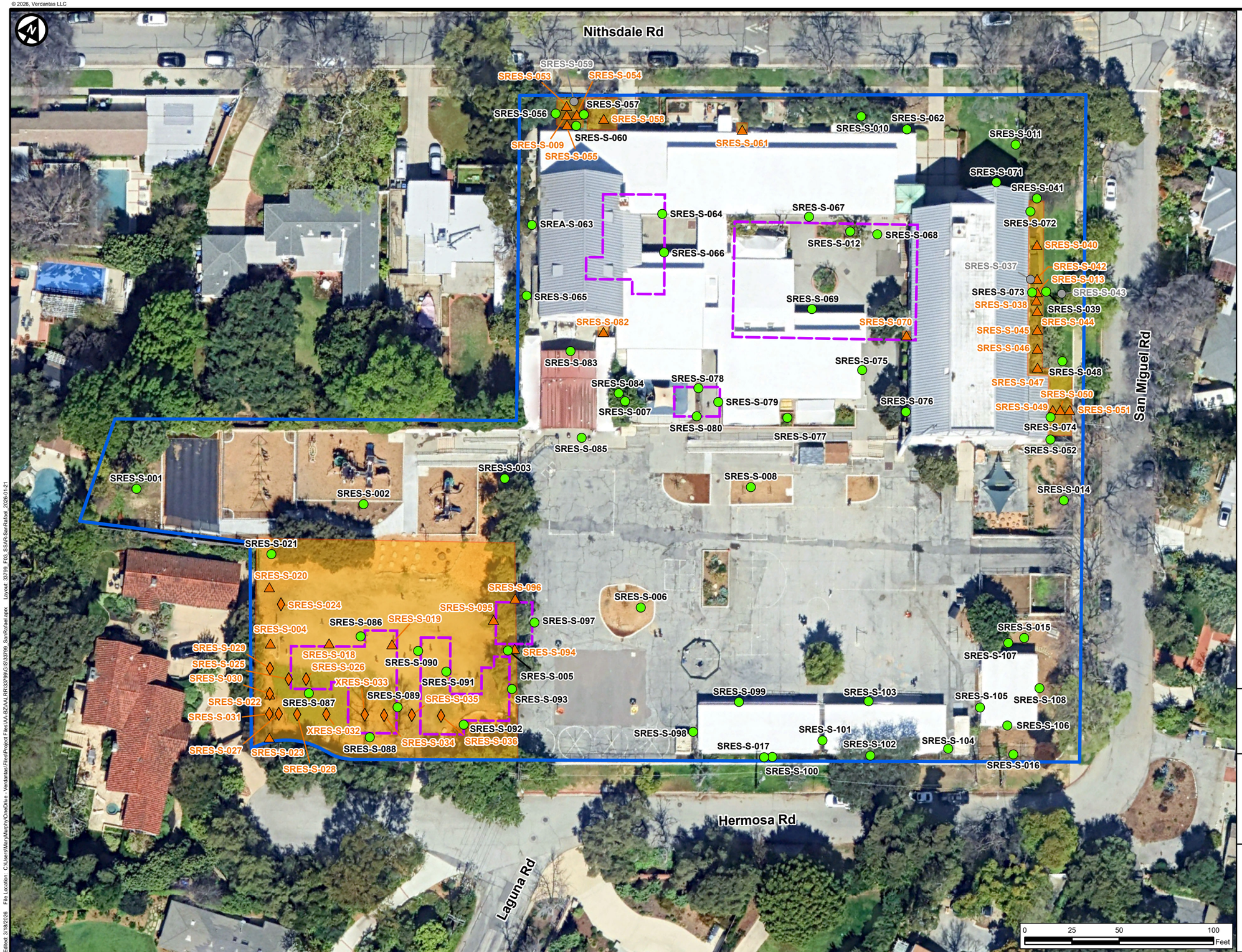
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 50 ft
Figure	2

Edited: 1/21/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZAALRR\33799\GIS\33799.aprx Layout: 35210_F02-SP-SanRafael_2026-01-21

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Location of Sample with Analytical Results Above Regulatory Screening Criteria

X-Ray Flurescense (XRF) Screening Location

Location of Sample with Analytical Results at or Below Regulatory Screening Criteria

Samples Collected but Not Analyzed

Approximate Footprint of Historical Structure (estimated from historical documents)

Proposed Removal Area

Approximate Site Boundary

Only deeper soil samples collected from sample locations SRES-S-060, SRES-S-072, SRS-S-073, SRES-S-074, SRES-S-086, SRES-S-087, SRES-S-088, SRES-S-089, SRES-S-090, SRES-S-091, SRES-S-092, and SRES-S-093

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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San Rafael Elementary School
1090 Nithsdale Road
Pasadena, California 91105

SOIL SAMPLE ANALYTICAL RESULTS

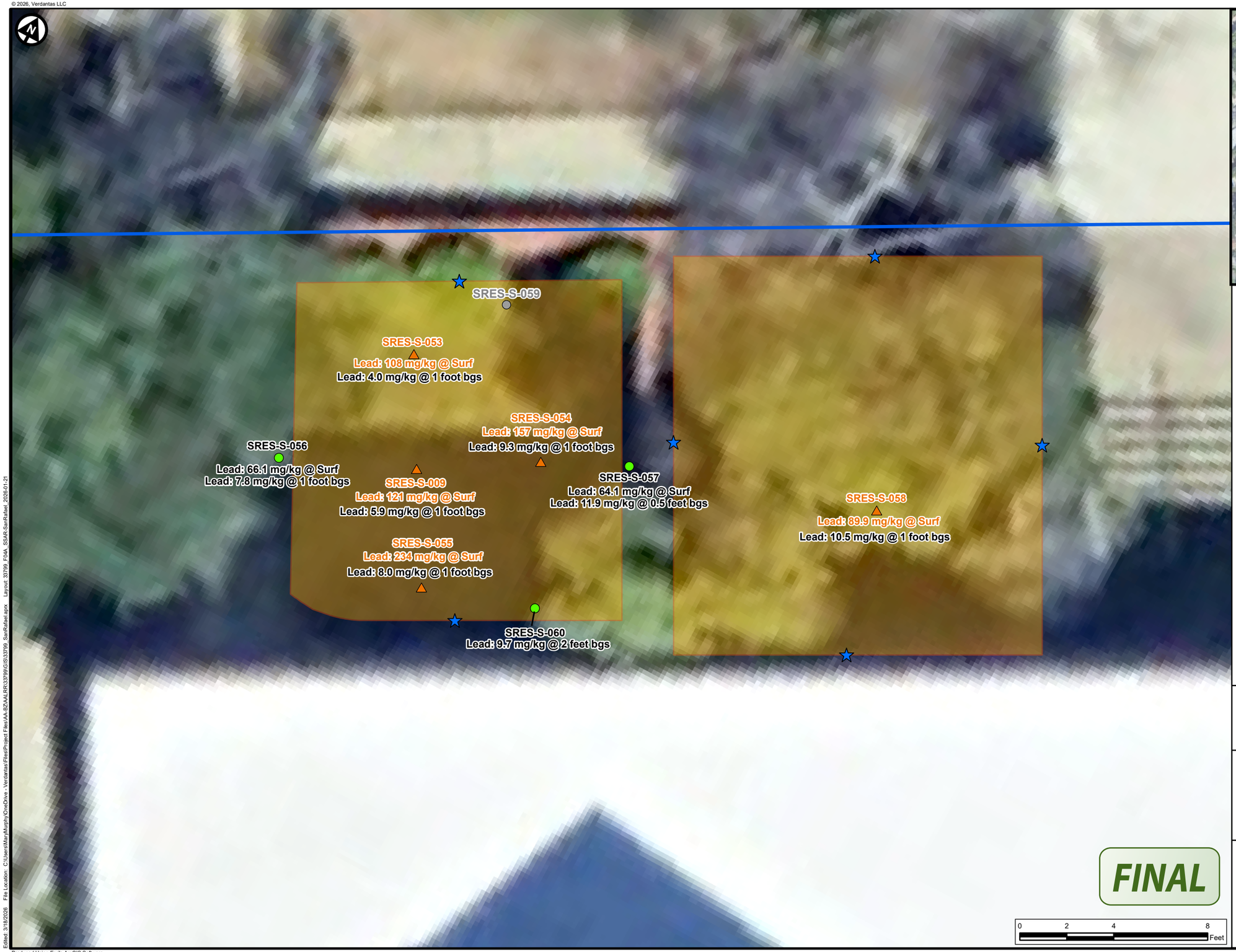
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	33799
Date	03/2026
Author	mmurphy
Scale	1 in = 50 ft
Figure	3

Edited: 3/18/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZA\ALR\33799\GIS\33799_SanRafael.aprx Layout: 33799_F03_SSAR-SanRafael_2026-01-21

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- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- X-Ray Flurescense (XRF) Screening Location
- Location of Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Confirmation Sample
- Samples Collected but Not Analyzed
- Proposed Removal Area
- Approximate Site Boundary
- **mg/kg** milligrams per kilogram
- **Surf** Surface
- **bgs** Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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0 2 4 8 Feet

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SOIL SAMPLE ANALYTICAL RESULTS LOCATION -009

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	33799
Date	03/2026
Author	mmurphy
Scale	1 in = 4 ft
Figure	**4A**

Edited: 3/18/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZAA\LRR\33799\GIS\33799_SanRafael.aprx Layout: 33799_F04A_SSAR-SanRafael_2026-01-21

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SRES-S-002
Arsenic: 7.3 mg/kg @ Surf

SRES-S-021
Arsenic: <5.0 mg/kg @ Surf

SRES-S-020
Arsenic: 8.4 mg/kg @ Surf
58.4 mg/kg @ 1 foot bgs
12.0 mg/kg @ 2 feet bgs
14.4 mg/kg @ 3 feet bgs
<5.0 mg/kg @ 4 feet bgs

SRES-S-024

SRES-S-018
Arsenic: 9.4 mg/kg @ Surf
53.6 mg/kg @ 1 foot bgs
17.5 mg/kg @ 1.5 feet bgs
<5.0 mg/kg @ 2 feet bgs

SRES-S-096
Arsenic: 51.3 mg/kg @ 0.5 feet bgs
<5.0 mg/kg @ 2.0 feet bgs
<5.0 mg/kg @ 4.5 feet bgs

SRES-S-095
Arsenic: 6.5 mg/kg @ 0.5 feet bgs
28.5 mg/kg @ 2.0 feet bgs
7.5 mg/kg @ 4.5 feet bgs

SRES-S-097
Arsenic: <5.0 mg/kg @ 4.5 feet bgs

SRES-S-086
Arsenic: <5.0 mg/kg @ 4.5 feet bgs

SRES-S-004
Arsenic: 92.3 mg/kg @ Surf
Arsenic: 17.0 mg/kg @ 1 foot bgs

SRES-S-005
Arsenic: <5.0 mg/kg @ Surf

SRES-S-090
Arsenic: <5.0 mg/kg @ 4.5 feet bgs

SRES-S-029

SRES-S-025 SRES-S-026

SRES-S-019
Arsenic: 19.6 mg/kg @ Surf
94.8 mg/kg @ 1 foot bgs
<5.0 mg/kg @ 2 feet bgs

SRES-S-091
Arsenic: 6.1 mg/kg @ 4.5 feet bgs

SRES-S-094
Arsenic: 110 mg/kg @ 0.5 feet bgs
28.9 mg/kg @ 2.0 feet bgs
7.5 mg/kg @ 4.5 feet bgs

SRES-S-022
Arsenic: 95.8 mg/kg @ Surf
145 mg/kg @ 1 foot bgs
15.6 mg/kg @ 2 feet bgs
<5.0 mg/kg @ 3 feet bgs

SRES-S-030

SRES-S-087
Arsenic: <5.0 mg/kg @ 4.5 feet bgs

SRES-S-089
Arsenic: <5.0 mg/kg @ 4.5 feet bgs

SRES-S-093
Arsenic: <5.0 mg/kg @ 4.5 feet bgs

SRES-S-031

SRES-S-032

SRES-S-027

SRES-S-028

SRES-S-033

SRES-S-034

SRES-S-035

SRES-S-036

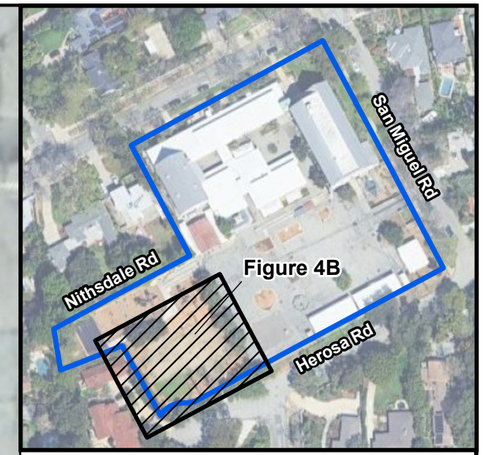
SRES-S-088
Arsenic: <5.0 mg/kg @ 4.5 feet bgs

SRES-S-092
Arsenic: <5.0 mg/kg @ 4.5 feet bgs

SRES-S-023
Arsenic: 114 mg/kg @ 2 feet bgs
56.4 mg/kg @ 3 feet bgs
9.0 mg/kg @ 4 feet bgs
<5.0 mg/kg @ 4.5 feet bgs

FINAL

0 7.5 15 30 Feet



- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- X-Ray Flurescence (XRF) Screening Location
- Location of Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Confirmation Sample
- Proposed Removal Area
- Approximate Site Boundary
- **mg/kg** milligrams per kilogram
- **Surf** Surface
- **bgs** Below Ground Surface

Orange values are above Regulatory Screening Criteria and black values are at or below Regulatory Screening Criteria

Only deeper soil samples (4.5 feet bgs) collected from sample locations SRES-S-086, SRES-S-087, SRES-S-088, SRES-S-089, SRES-S-090, SRES-S-091, SRES-S-092, and SRES-S-093 and only surface soil samples collected from locations SRS-S-005 and SRES-S-021

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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SOIL SAMPLE ANALYTICAL RESULTS LOCATION -004

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	33799
Date	03/2026
Author	mmurphy
Scale	1 in = 15 ft
Figure	4B

Edited: 3/18/2026 File Location: C:\Users\MarkMurphy\OneDrive - Verdantas\Files\Project Files\AA-BZ\AALR\33799\GIS\33799_SanRafael.aprx Layout: 33799_F04B_SSAR-SanRafael_2026-01-21

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SRES-S-071
Lead: 31.4 mg/kg @ 0.5 feet bgs
Lead: 47.3 mg/kg @ 2.0 feet bgs

SRES-S-041
Lead: 38.2 mg/kg @ Surf

SRES-S-072
Lead: 6.8 mg/kg @ 2.0 feet bgs

SRES-S-068
Lead: 15.2 mg/kg @ 0.5 feet bgs
Lead: 8.4 mg/kg @ 2.0 feet bgs

SRES-S-040
Lead: 116 mg/kg @ Surf
Lead: 6.4 mg/kg @ 1 foot bgs

SRES-S-037

SRES-S-042
Lead: 134 mg/kg @ Surf

SRES-S-013
Lead: 123 mg/kg @ Surf
Lead: 4.7 mg/kg @ 1 foot bgs

SRES-S-039
Lead: 73.0 mg/kg @ Surf
Lead: 5.0 mg/kg @ 1 foot bgs

SRES-S-073
Lead: 5.1 mg/kg @ 2.0 feet bgs
Lead: 5.4 mg/kg @ 2.0 feet bgs

SRES-S-043

SRES-S-038
Lead: 102 mg/kg @ Surf
Lead: 5.9 mg/kg @ 1 foot bgs

SRES-S-044
Lead: 169 mg/kg @ Surf

SRES-S-070
Lead: 91.2 mg/kg @ 0.5 feet bgs
Lead 5.9 mg/kg @ 2 feet bgs

SRES-S-045
Lead: 180 mg/kg @ Surf

SRES-S-046
Lead: 174 mg/kg @ Surf

SRES-S-048
Lead: 62.2 mg/kg @ Surf

SRES-S-047
Lead: 203 mg/kg @ Surf

SRES-S-050
Lead: 127 mg/kg @ Surf

SRES-S-049
Lead: 215 mg/kg @ Surf

SRES-S-051
Lead: 115 mg/kg @ Surf

SRES-S-076
Lead: 73.0 mg/kg @ Surf
Lead: 5.0 mg/kg @ 1 foot bgs

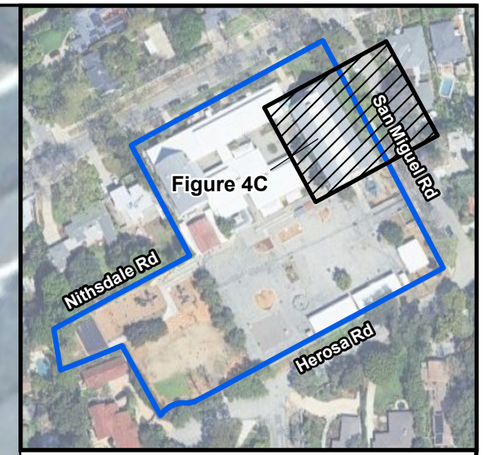
SRES-S-074
Lead: 5.2 mg/kg @ 2 feet bgs

SRES-S-052
Lead: 74.3 mg/kg @ Surf

San Miguel Rd

FINAL

0 7.5 15 30 Feet



- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- X-Ray Flurescense (XRF) Screening Location
- Location of Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Confirmation Sample
- Samples Collected but Not Analyzed
- Proposed Removal Area
- Approximate Site Boundary

mg/kg milligrams per kilogram
Surf Surface
bgs Below Ground Surface

Orange values are above Regulatory Screening Criteria and black values are at or below Regulatory Screening Criteria

Only deeper soil samples (2.0 and 4.5 feet bgs) collected from sample locations SRES-S-072, SRES-S-073, and SRES-S-074

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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SOIL SAMPLE ANALYTICAL RESULTS LOCATION -013

Pasadena Unified School District
Fire-Related Campus Assessment

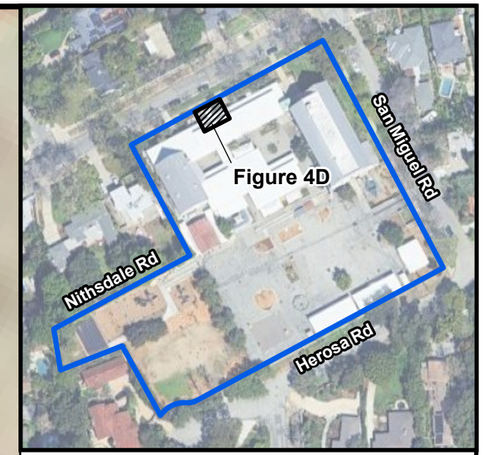
Project Number	33799
Date	03/2026
Author	mmurphy
Scale	1 in = 15 ft
Figure	4C

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SRES-S-061
Arsenic: 256 mg/kg @ 0.5 feet bgs
Arsenic: <5.0 mg/kg @ 2.0 feet bgs



- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Confirmation Sample
- Approximate Footprint of Historical Structure (estimated from historical documents)
- Approximate Site Boundary
- Proposed Removal Area

mg/kg	milligrams per kilogram
Surf	Below Ground Surface
bgs	Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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FINAL

0 1.5 3 6 Feet

San Rafael Elementary School
1090 Nithsdale Road
Pasadena, California 91105

SOIL SAMPLE ANALYTICAL RESULTS
LOCATION -061

Pasadena Unified School District
Fire-Related Campus Assessment

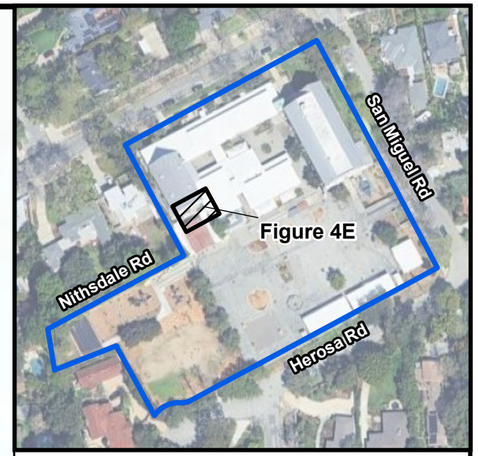
Project Number	33799
Date	03/2026
Author	mmurphy
Scale	1 in = 3 ft
Figure	4D

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SRES-S-082
Lead: 315 mg/kg @ 0.5 feet bgs
Lead 9.1 mg/kg @ 2 feet bgs

SRES-S-083
Lead: 14.9 mg/kg @ 0.5 feet bgs
Lead: 5.4 mg/kg @ 2.0 feet bgs



- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or Below Regulatory Screening Criteria
- Proposed Confirmation Sample
- Approximate Footprint of Historical Structure (estimated from historical documents)
- Approximate Site Boundary
- Proposed Removal Area
- **mg/kg** milligrams per kilogram
- **Surf** Below Ground Surface
- **bgs** Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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0 2 4 8 Feet

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SOIL SAMPLE ANALYTICAL RESULTS LOCATION -082

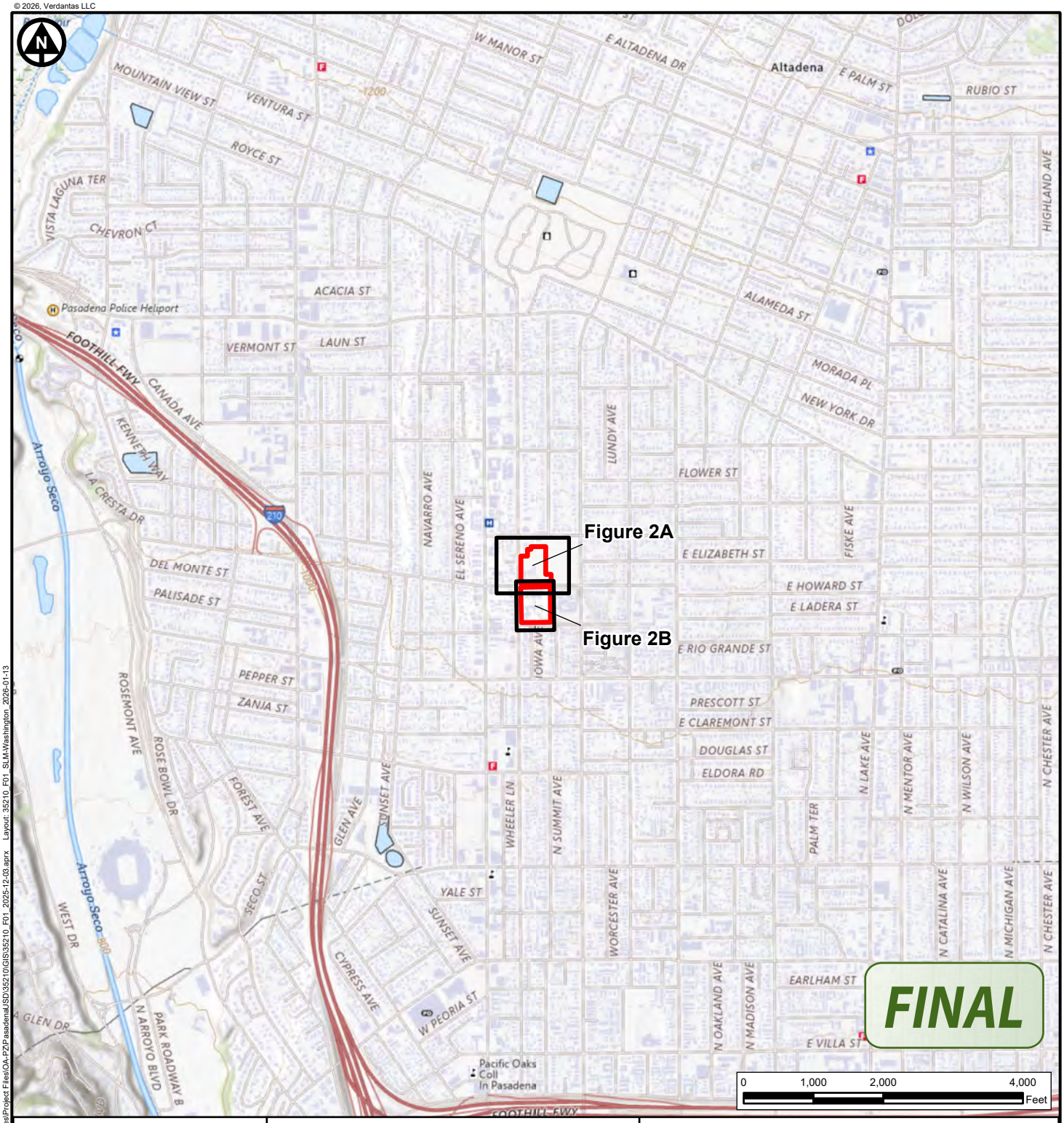
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	33799
Date	03/2026
Author	mmurphy
Scale	1 in = 4 ft
Figure	4E

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Approximate Site Boundary



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Sources:
Aerial Imagery: Esri Imagery Web Service dated 2021.

Topographic Map: National Geographic Society Web Service.

Quadrangle: Pasadena, California

Washington Elementary STEM Magnet
1520 N. Raymond Avenue
Pasadena, California 91103

Site Location Map

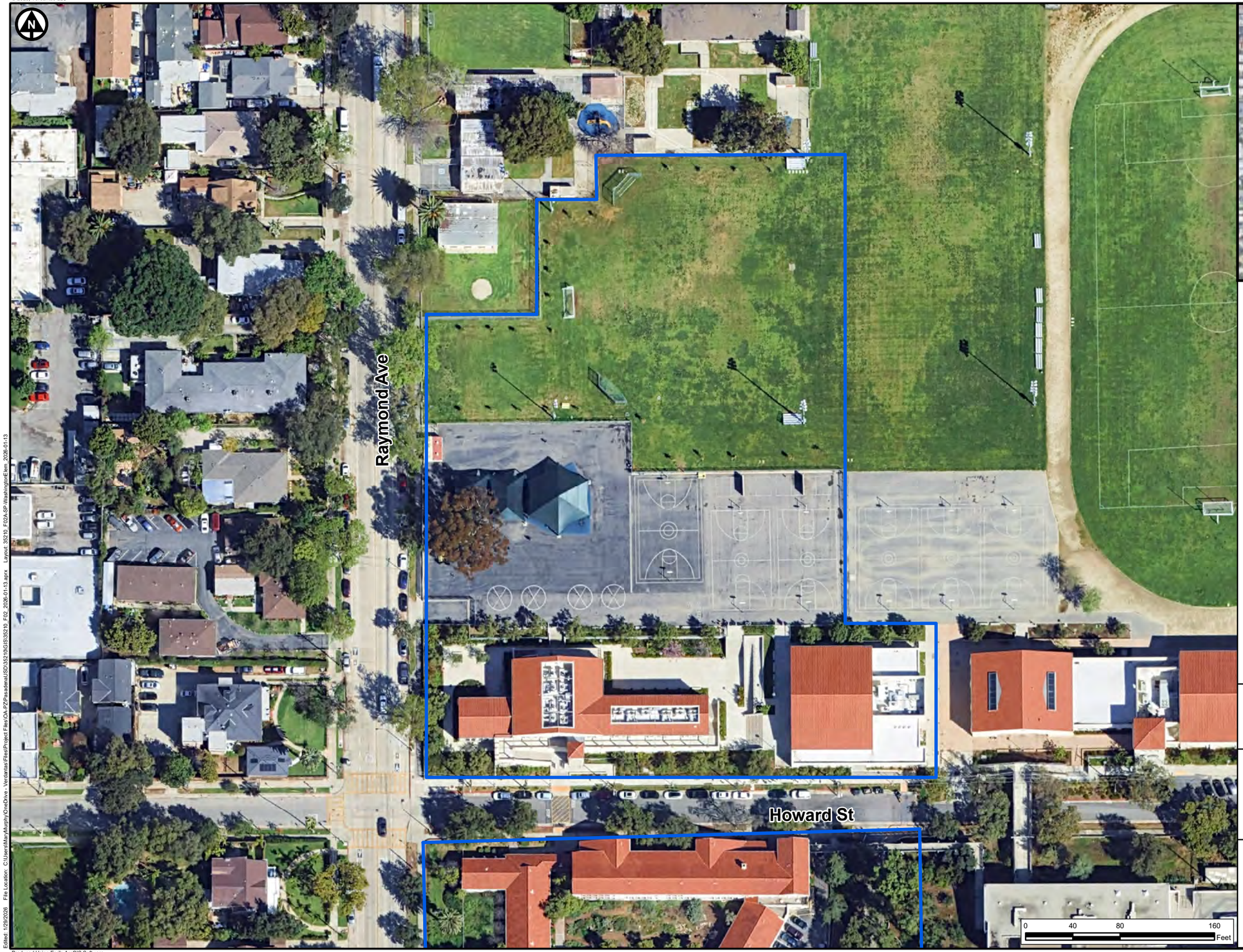
Pasadena Unified School District
Fire-Related Campus Assessment

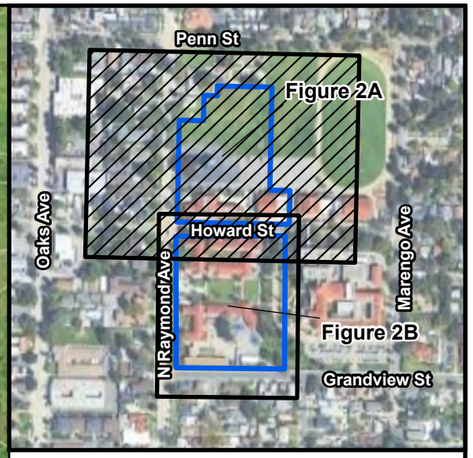
Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 2,000 ft
Figure	1

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Approximate Site Boundary

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Washington Elementary STEM Magnet - Fields
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Pasadena, California 91103

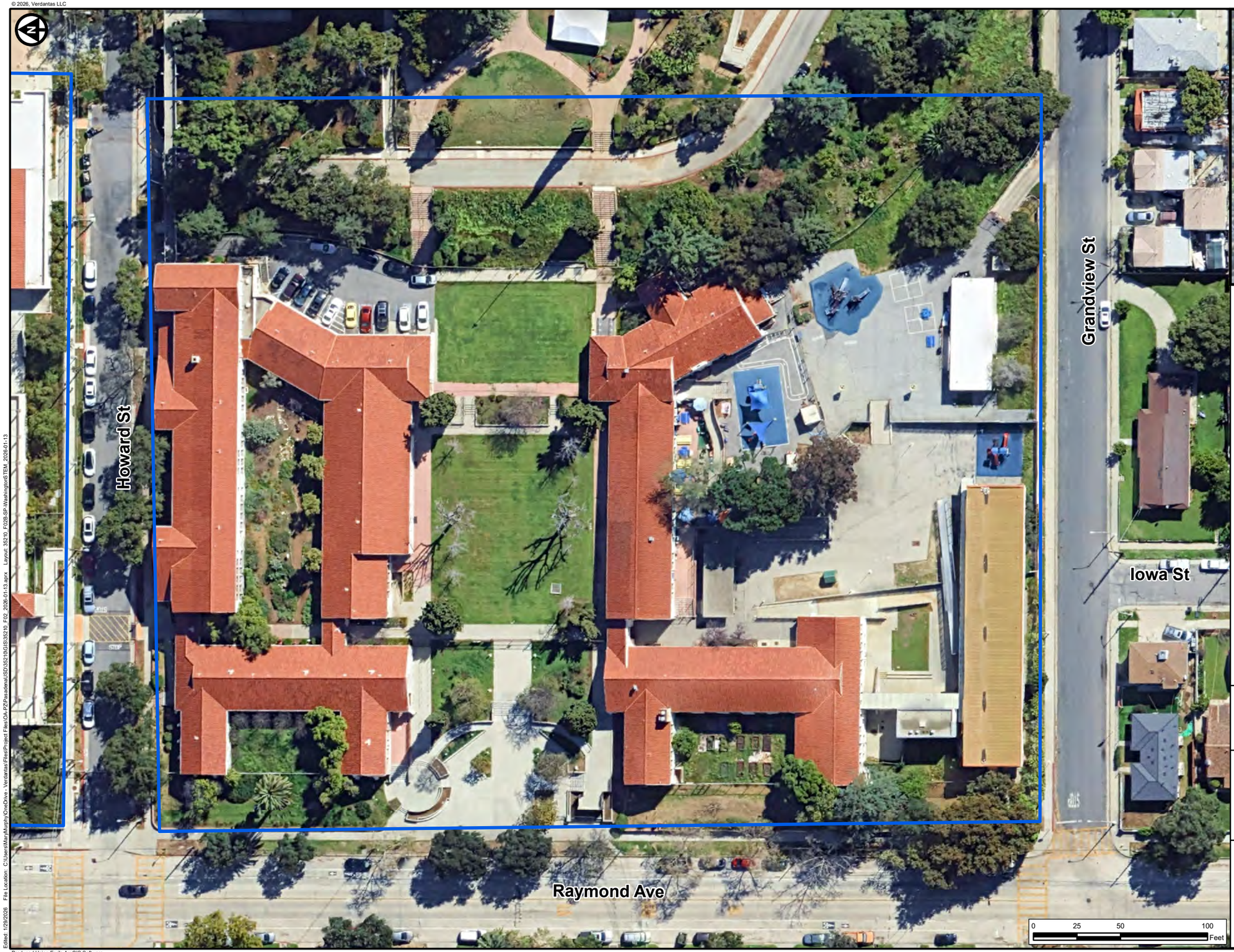
Site Plan

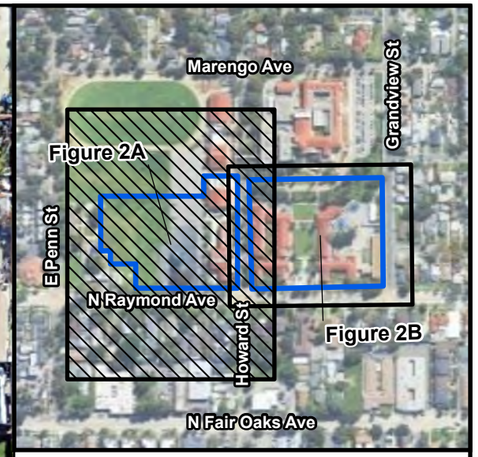
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 80 ft
Figure	**2A**

Edited: 1/29/2026 File Location: C:\Users\MarcMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\35210\GIS\35210_F02_2026-01-13.aprx Layout: 35210_F02A-SP-WashingtonElem_2026-01-13
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Approximate Site Boundary

FINAL

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Washington Elementary STEM Magnet - Main Campus
1520 N. Raymond Avenue,
Pasadena, California 91103

Site Plan

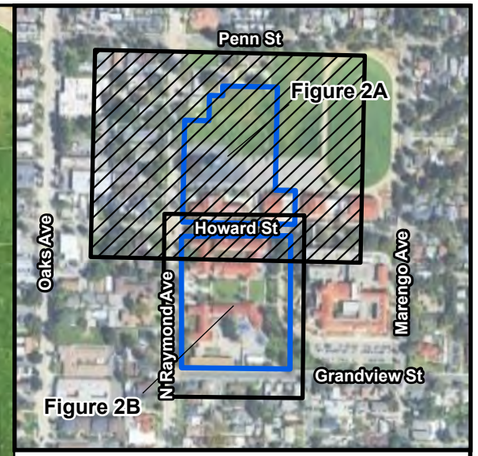
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 50 ft
Figure	**2B**

Edited: 1/29/2026 File Location: C:\Users\MaryMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\USD\3521\GIS\35210_F02_2026-01-13.aprx Layout: 35210_F02B-SP-WashingtonSTEM_2026-01-13
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- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

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Pasadena, California 91103

Soil Sample Analytical Results

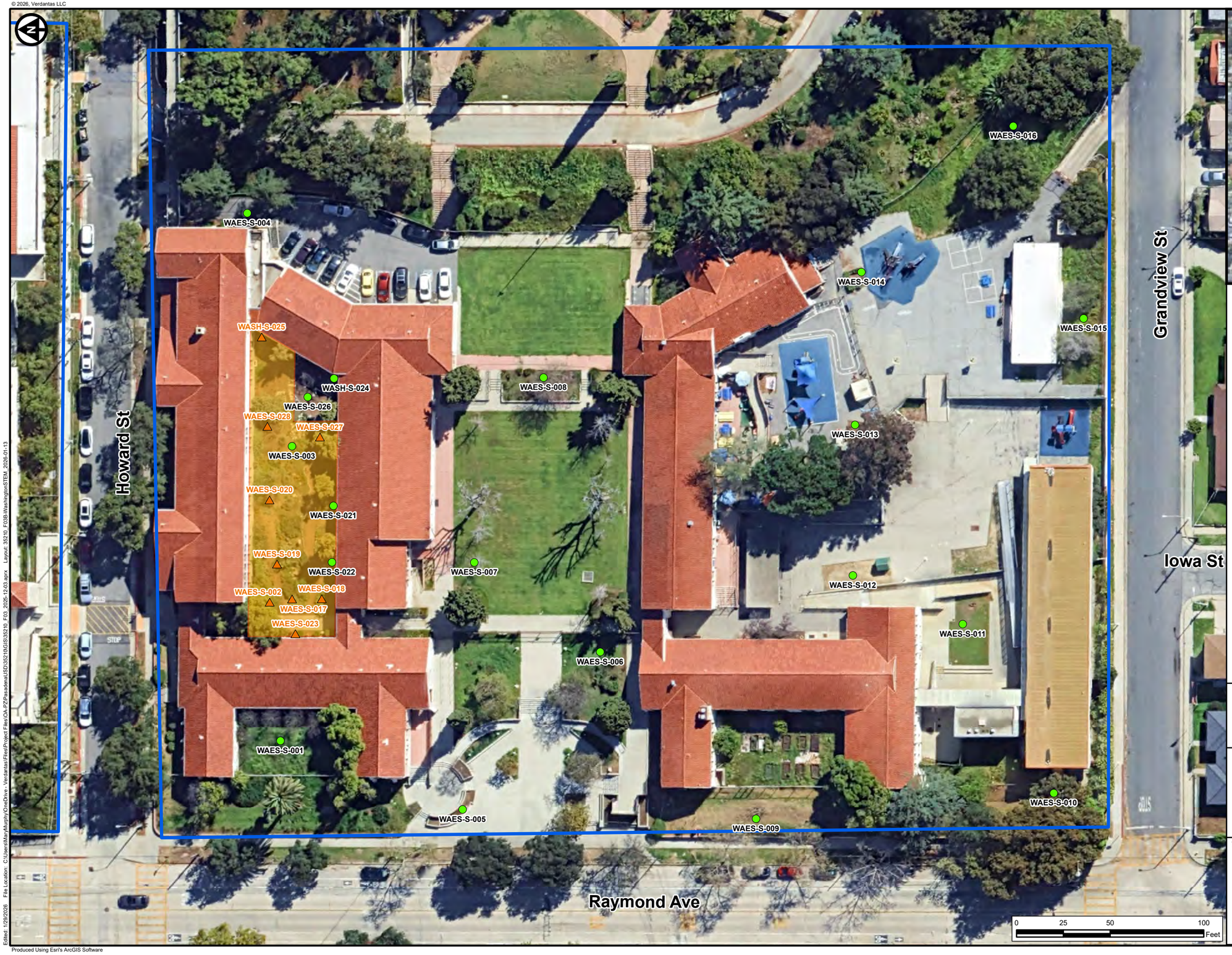
Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 80 ft
Figure	3A

Edited: 1/29/2026 File Location: C:\Users\MarkMurphy\OneDrive - Verdantas\Files\Project Files\OA-PZ\Pasadena\US\35210\GIS\35210_F03_2025-12-03.aprx Layout: 35210_F03A-WashingtonElem_2026-01-13

Produced Using Esri's ArcGIS Software

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- Location of Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Sample with Analytical Results at or below Regulatory Screening Criteria
- Proposed Removal Area
- Approximate Site Boundary

FINAL

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

The aerial photo was acquired through Google Earth, 2025.

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Washington Elementary STEM Magnet - Main Campus
1520 N. Raymond Avenue,
Pasadena, California 91103

Soil Sample Analytical Results

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 50 ft
Figure	**3B**

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- Location of Initial Surface Sample with Analytical Results Above Regulatory Screening Criteria
- Location of Initial Surface Sample with Analytical Results at or below Regulatory Screening Criteria
- Step-out Sample Location
- Proposed Removal Area
- Approximate Site Boundary

mg/kg	milligrams per kilogram
Surf	Surface
bgs	Below Ground Surface

Orange values are above Regulatory Sceening Criteria and black values are at or below Regulatory Screening Criteria

Notes:

Final Report and FAQ will be available at https://www.pusd.us/fire-relief/safety

The aerial photo was acquired through Google Earth, 2025.

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Washington Elementary STEM Magnet
1520 N. Raymond Avenue,
Pasadena, California 91103

Soil Sample Analytical Results Location -002

Pasadena Unified School District
Fire-Related Campus Assessment

Project Number	35210
Date	01/2026
Author	mmurphy
Scale	1 in = 15 ft
Figure	4

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