

National Aeronautics and Space Administration



**Ames Research Center**  
Moffett Field, California 94035

February 19, 2020

Moffett Field Historical Society  
P.O. Box 16  
Moffett Field, CA 94035-0016

**Subject:** Section 106 Consultation for the MFA Hangar 1 Rehabilitation Project at NASA Ames Research Center, Moffett Field, Santa Clara County, CA (NASA\_2019\_1210\_001)

Dear Moffett Field Historical Society,

In support of its responsibilities under Section 106 of the National Historic Preservation Act of 1966 (NHPA), the National Aeronautics and Space Administration Ames Research Center (NASA ARC) has initiated Section 106 consultation with the California State Historic Preservation Officer (SHPO) regarding the Hangar 1 Rehabilitation Project (project or undertaking) located at Moffett Field, Santa Clara County, California (see attached Figure 1 for project location map). Built in 1933, Hangar 1 is listed in the National Register of Historic Places (NRHP) as a contributor to the U.S. Naval Air Station (NAS) Sunnyvale Historic District and is also individually eligible for listing; therefore, it qualifies as a historic property for the purposes of Section 106 consultation.

In 2002, an investigation was undertaken to test the building materials in Hangar 1 for PCBs and other potential contaminants, specifically lead and asbestos. The results of this sample and analysis program confirmed that the Hangar 1 siding contained PCBs and asbestos and that the lead-based paint (LBP) used to cover both the siding and the steel frame also contained PCBs at elevated concentrations. Due to the presence of PCBs and lead in Hangar 1 building materials, in 2002, NASA ARC closed the hangar to all personnel except those involved in essential maintenance, abatement, or environmental cleanup activities. From 2010 to 2013 abatement of hazardous materials at Hangar 1 was undertaken, including the removal of the siding and roofing, deconstruction of interior structures, cleaning by high-pressure washing and preparation of steel and/or concrete surfaces, and application of an epoxy coating system to encapsulate residual PCBs.

In 2014, Planetary Ventures, LLC (PV) entered into a lease agreement with NASA ARC for the MFA premises, including use of Hangar 1 for research and development, such as testing and light assembly uses related to space, aviation, rover/robotics and other emerging technologies. NASA ARC is currently reviewing PV's proposed rehabilitation plans for Hangar 1, which would qualify as a federal undertaking under Section 106 of the NHPA. The rehabilitation will be completed in two phases. Phase I will address the abatement of the steel frame and concrete walls to control the release of PCB- and lead-impacted paint, and asbestos-containing materials. To reduce the potential risks to human health and the environment, the coatings need to be abated as soon as possible. Phase II comprises the exterior re-cladding, seismic strengthening, and core interior improvements for occupancy of Hangar 1. The proposed rehabilitation includes a metal skin, glazing systems, and roofing system to ensure that the hangar is enclosed and that past performance issues are addressed. These features have been designed to recreate the appearance of the original features and materials of Hangar 1.

NASA ARC is contacting you to assess your organization's interest in participating as a consulting party as defined in 36 CFR Section 800.2(c) in the Section 106 of the NHPA review process for the Hangar 1 Rehabilitation Project. If you would like to participate, you may elect to do so by sending written notification by email with the subject heading "Hangar 1 Section 106 Consultation Interested Party" to [Jonathan.d.ikan@nasa.gov](mailto:Jonathan.d.ikan@nasa.gov) within the next 30 days. Please include the following information:

1. Name
2. Title
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4. Address
5. Email address
6. Phone number
7. Statement of election to participate as a consulting party

Please contact me if you have any questions pertaining to this process. I appreciate your attention and look forward to hearing from you regarding this Undertaking.

Sincerely,



Jonathan Ikan  
Cultural Resource Manager, Facilities Engineering Branch  
NASA Ames Research Center, Mail Stop 213-8  
Moffett Field, CA 94035  
(605) 604-6859  
[Jonathan.d.ikan@nasa.gov](mailto:Jonathan.d.ikan@nasa.gov)

Cc:

Ms. Rebecca Klein, NASA FPO  
Environmental Management Division  
NASA Headquarters  
300 E Street, SW  
Washington, DC 20546-0001

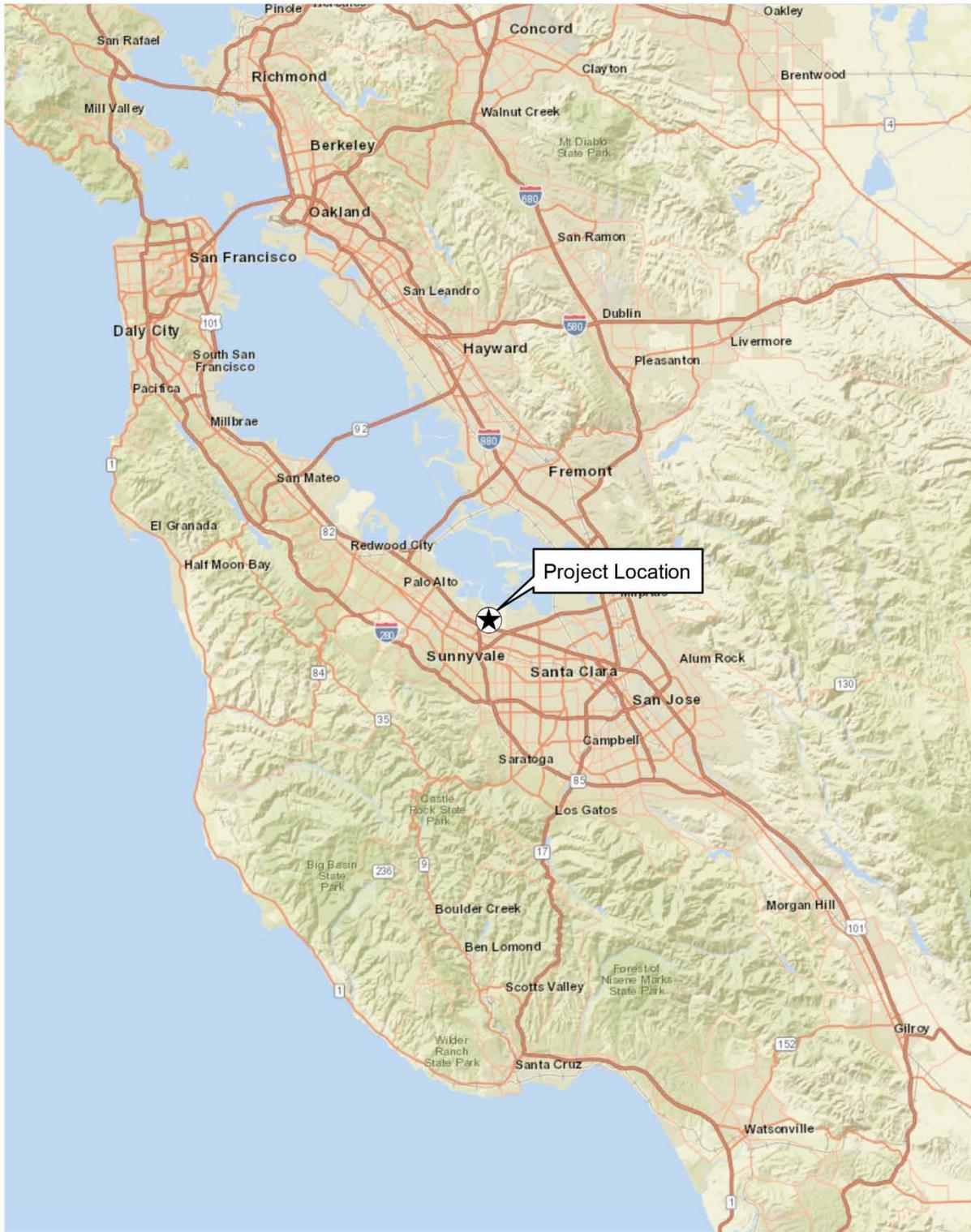
Lease Administration Team  
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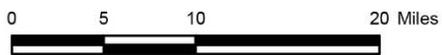
Attachments:

Figure 1. Regional Project Location Map

FIGURE 1: Regional Project Location Map



Source: ESRI, AECOM, NASA



Scale: 1 = 633,600; 1 inch = 10 mile(s)

National Aeronautics and Space Administration



**Ames Research Center**  
Moffett Field, California 94035

February 18, 2020

Trudi Ryan  
Community Development Director  
City of Sunnyvale  
456 W. Olive Avenue  
Sunnyvale, CA 94086

Subject: Section 106 Consultation for the MFA Hangar 1 Rehabilitation Project at NASA Ames Research Center, Moffett Field, Santa Clara County, CA (NASA\_2019\_1210\_001)

Dear Ms. Ryan,

In support of its responsibilities under Section 106 of the National Historic Preservation Act of 1966 (NHPA), the National Aeronautics and Space Administration Ames Research Center (NASA ARC) has initiated Section 106 consultation with the California State Historic Preservation Officer (SHPO) regarding the Hangar 1 Rehabilitation Project (project or undertaking) located at Moffett Field, Santa Clara County, California (see attached Figure 1 for project location map). Built in 1933, Hangar 1 is listed in the National Register of Historic Places (NRHP) as a contributor to the U.S. Naval Air Station (NAS) Sunnyvale Historic District and is also individually eligible for listing; therefore, it qualifies as a historic property for the purposes of Section 106 consultation.

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Sincerely,

Jonathan Ikan  
Cultural Resource Manager, Facilities Engineering Branch  
NASA Ames Research Center, Mail Stop 213-8  
Moffett Field, CA 94035  
(605) 604-6859  
[Jonathan.d.ikan@nasa.gov](mailto:Jonathan.d.ikan@nasa.gov)

Cc:

Ms. Rebecca Klein, NASA FPO  
Environmental Management Division  
NASA Headquarters  
300 E Street, SW  
Washington, DC 20546-0001

Lease Administration Team  
Planetary Ventures  
1600 Amphitheater Pkwy  
Mountain View, CA 94043

Legal Department/Legal Matters  
Planetary Ventures  
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Mountain View, CA 94043

Attachments: Figure 1. Regional Project Location Map



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**Ames Research Center**  
Moffett Field, California 94035

February 18, 2020

Aarti Shrivastava  
Assistant City Manager/Community Development Director  
City of Mountain View  
500 Castro Street, 1<sup>st</sup> Floor  
Mountain View, CA 94035-0016

Subject: Section 106 Consultation for the MFA Hangar 1 Rehabilitation Project at NASA Ames Research Center, Moffett Field, Santa Clara County, CA (NASA\_2019\_1210\_001)

Dear Ms. Shrivastava,

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NASA Ames Research Center, Mail Stop 213-8  
Moffett Field, CA 94035  
(605) 604-6859  
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Cc:

Ms. Rebecca Klein, NASA FPO  
Environmental Management Division  
NASA Headquarters  
300 E Street, SW  
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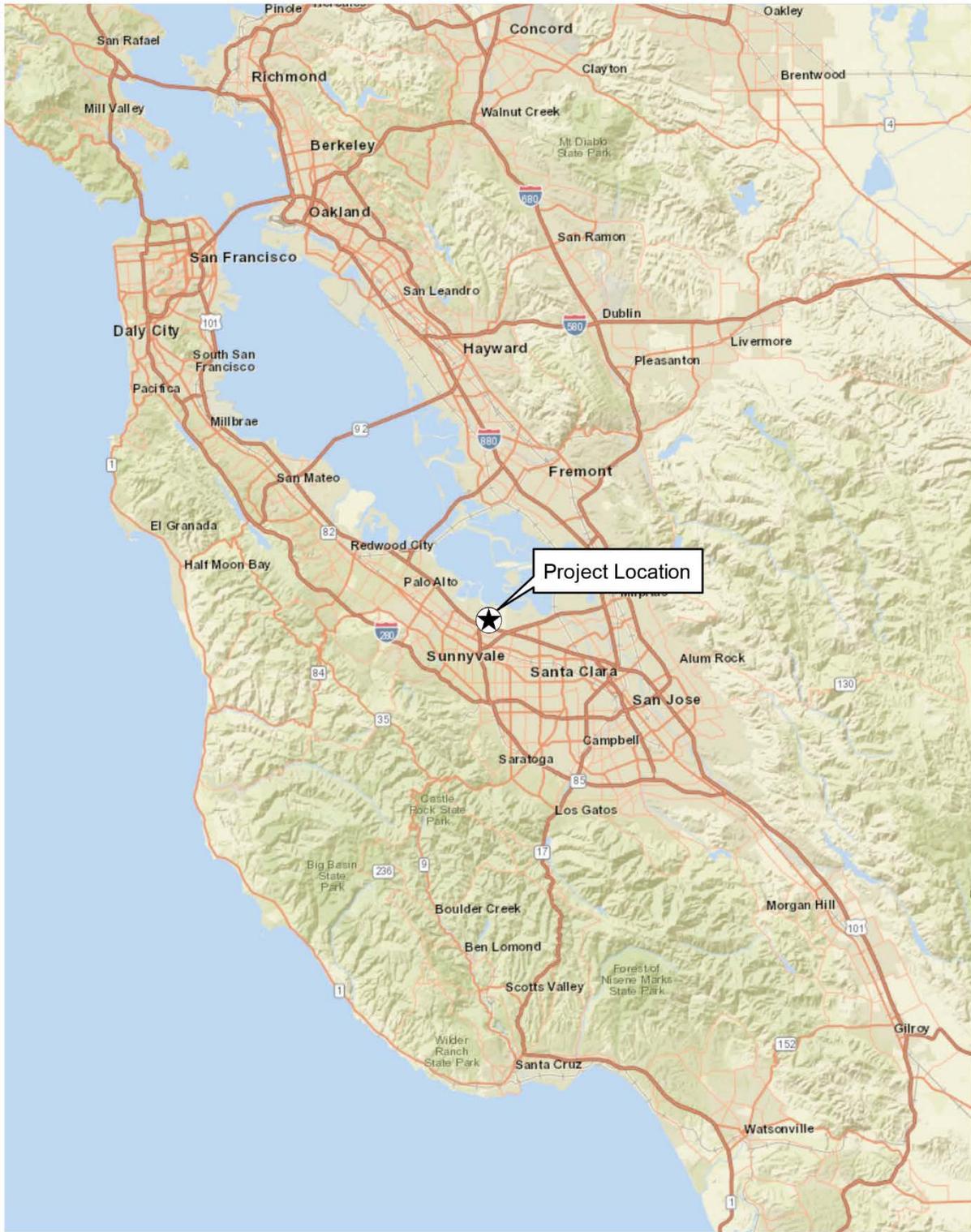
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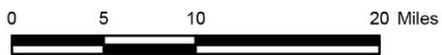
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National Aeronautics and Space Administration



**Ames Research Center**  
Moffett Field, California 94035

February 18, 2020

Laura Babcock  
Director  
Sunnyvale Historical Society  
P.O. Box 2187  
Sunnyvale, CA 94087-0187

Subject: Section 106 Consultation for the MFA Hangar 1 Rehabilitation Project at NASA Ames Research Center, Moffett Field, Santa Clara County, CA (NASA\_2019\_1210\_001)

Dear Ms. Babcock,

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(605) 604-6859  
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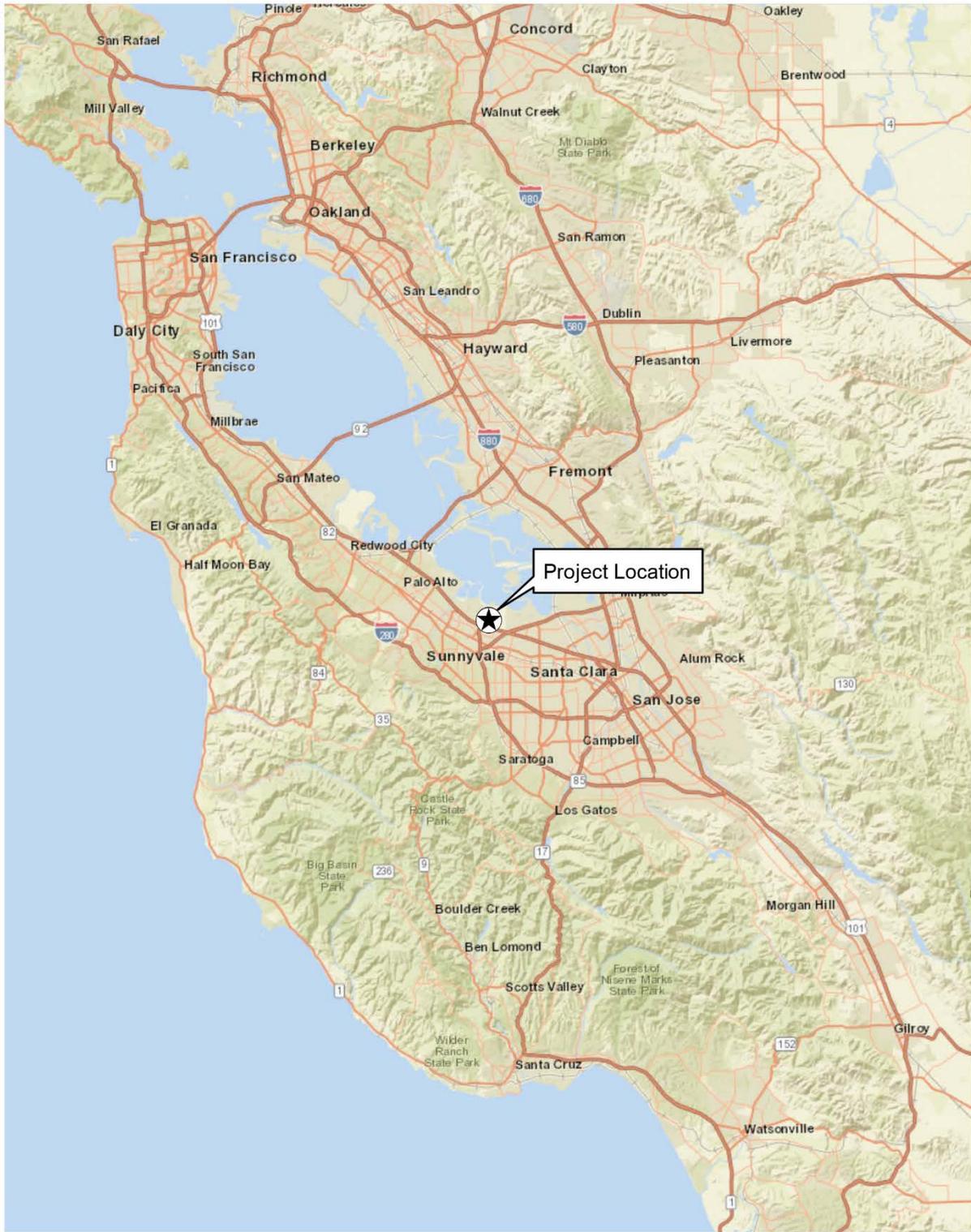
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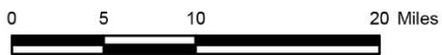
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**Ames Research Center**  
Moffett Field, California 94035

February 18, 2020

Nick Perry  
President  
Mountain View Historical Association  
P.O. Box 252  
Mountain View, CA 94042

Subject: Section 106 Consultation for the MFA Hangar 1 Rehabilitation Project at NASA Ames Research Center, Moffett Field, Santa Clara County, CA (NASA\_2019\_1210\_001)

Dear Mr. Perry,

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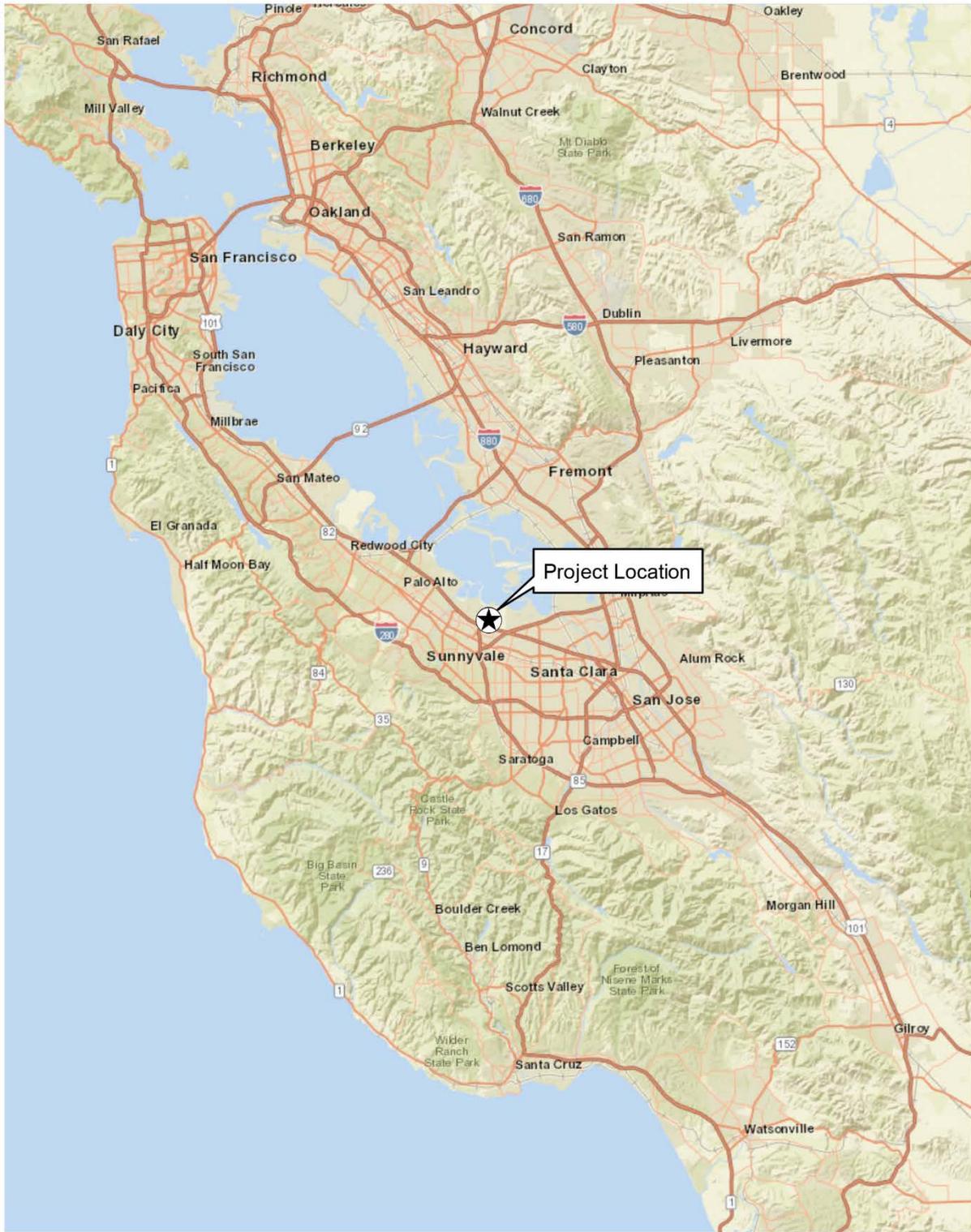
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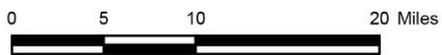
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National Aeronautics and Space Administration



**Ames Research Center**  
Moffett Field, California 94035

February 18, 2020

William P. Schroh, Jr.  
President & CEO  
History San Jose  
1650 Senter Road  
San Jose, CA 95112

**Subject:** Section 106 Consultation for the MFA Hangar 1 Rehabilitation Project at NASA Ames Research Center, Moffett Field, Santa Clara County, CA (NASA\_2019\_1210\_001)

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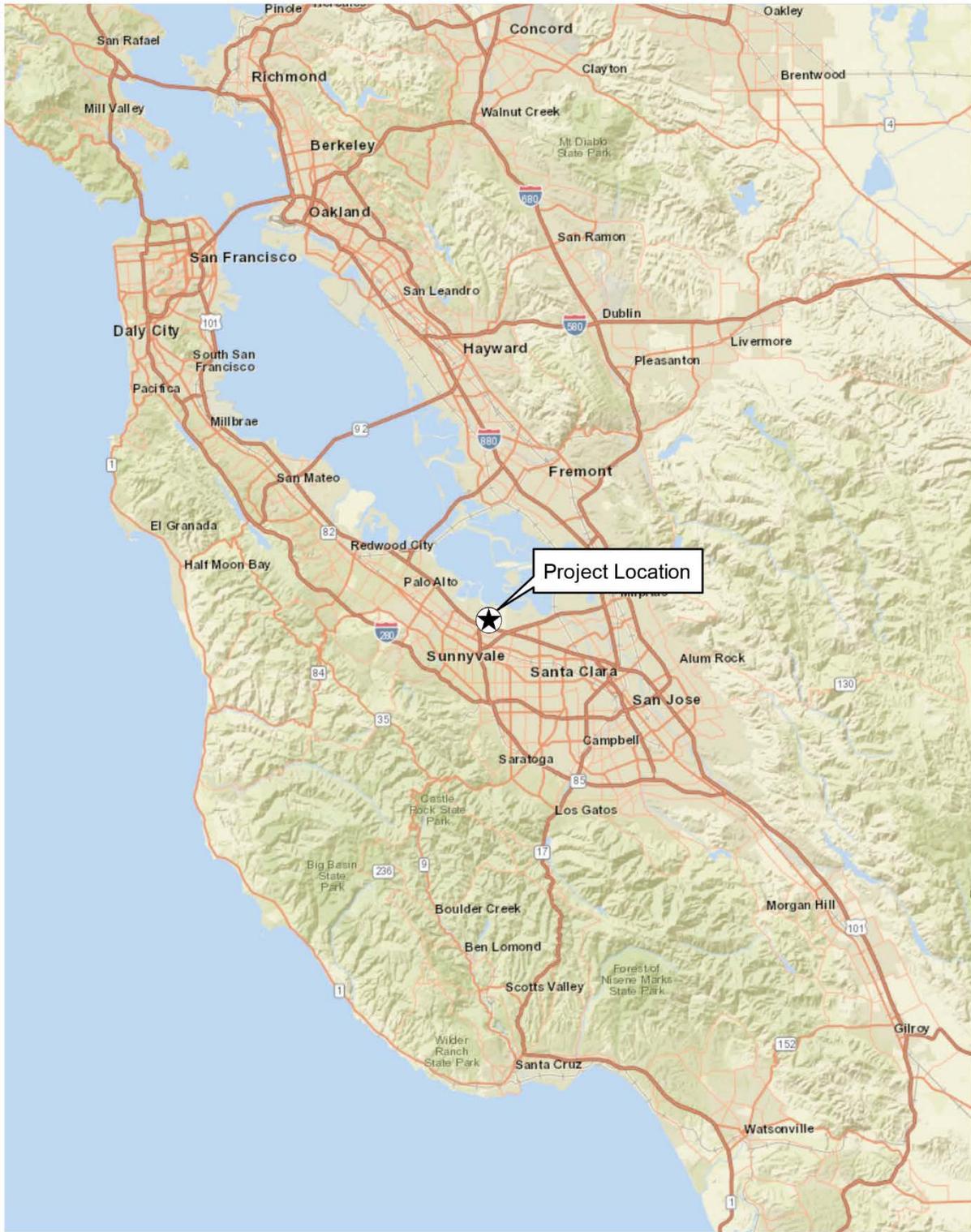
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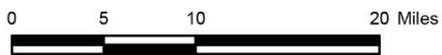
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Moffett Field, California 94035

February 18, 2020

Cindy Heitzman  
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101 The Embarcadero, Suite 120  
San Francisco, CA 94105-1215

Subject: Section 106 Consultation for the MFA Hangar 1 Rehabilitation Project at NASA Ames Research Center, Moffett Field, Santa Clara County, CA (NASA\_2019\_1210\_001)

Dear Ms. Heitzman,

In support of its responsibilities under Section 106 of the National Historic Preservation Act of 1966 (NHPA), the National Aeronautics and Space Administration Ames Research Center (NASA ARC) has initiated Section 106 consultation with the California State Historic Preservation Officer (SHPO) regarding the Hangar 1 Rehabilitation Project (project or undertaking) located at Moffett Field, Santa Clara County, California (see attached Figure 1 for project location map). Built in 1933, Hangar 1 is listed in the National Register of Historic Places (NRHP) as a contributor to the U.S. Naval Air Station (NAS) Sunnyvale Historic District and is also individually eligible for listing; therefore, it qualifies as a historic property for the purposes of Section 106 consultation.

In 2002, an investigation was undertaken to test the building materials in Hangar 1 for PCBs and other potential contaminants, specifically lead and asbestos. The results of this sample and analysis program confirmed that the Hangar 1 siding contained PCBs and asbestos and that the lead-based paint (LBP) used to cover both the siding and the steel frame also contained PCBs at elevated concentrations. Due to the presence of PCBs and lead in Hangar 1 building materials, in 2002, NASA ARC closed the hangar to all personnel except those involved in essential maintenance, abatement, or environmental cleanup activities. From 2010 to 2013 abatement of hazardous materials at Hangar 1 was undertaken, including the removal of the siding and roofing, deconstruction of interior structures, cleaning by high-pressure washing and preparation of steel and/or concrete surfaces, and application of an epoxy coating system to encapsulate residual PCBs.

In 2014, Planetary Ventures, LLC (PV) entered into a lease agreement with NASA ARC for the MFA premises, including use of Hangar 1 for research and development, such as testing and light assembly uses related to space, aviation, rover/robotics and other emerging technologies. NASA ARC is currently reviewing PV's proposed rehabilitation plans for Hangar 1, which would qualify as a federal undertaking under Section 106 of the NHPA. The rehabilitation will be completed in two phases. Phase I will address the abatement of the steel frame and concrete walls to control the release of PCB- and lead-impacted paint, and asbestos-containing materials. To reduce the potential risks to human health and the environment, the coatings need to be abated as soon as possible. Phase II comprises the exterior re-cladding, seismic strengthening, and core interior improvements for occupancy of Hangar 1. The proposed rehabilitation includes a metal skin, glazing systems, and roofing system to ensure that the

hangar is enclosed and that past performance issues are addressed. These features have been designed to recreate the appearance of the original features and materials of Hangar 1.

NASA ARC is contacting you to assess your organization's interest in participating as a consulting party as defined in 36 CFR Section 800.2(c) in the Section 106 of the NHPA review process for the Hangar 1 Rehabilitation Project. If you would like to participate, you may elect to do so by sending written notification by email with the subject heading "Hangar 1 Section 106 Consultation Interested Party" to [Jonathan.d.ikan@nasa.gov](mailto:Jonathan.d.ikan@nasa.gov) within the next 30 days. Please include the following information:

1. Name
2. Title
3. Organization/Affiliation
4. Address
5. Email address
6. Phone number
7. Statement of election to participate as a consulting party

Please contact me if you have any questions pertaining to this process. I appreciate your attention and look forward to hearing from you regarding this Undertaking.

Sincerely,

Jonathan Ikan  
Cultural Resource Manager, Facilities Engineering Branch  
NASA Ames Research Center, Mail Stop 213-8  
Moffett Field, CA 94035  
(605) 604-6859  
[Jonathan.d.ikan@nasa.gov](mailto:Jonathan.d.ikan@nasa.gov)

Cc:

Ms. Rebecca Klein, NASA FPO  
Environmental Management Division  
NASA Headquarters  
300 E Street, SW  
Washington, DC 20546-0001

Lease Administration Team  
Planetary Ventures  
1600 Amphitheater Pkwy  
Mountain View, CA 94043

Legal Department/Legal Matters  
Planetary Ventures  
1600 Amphitheater Pkwy  
Mountain View, CA 94043

Attachments:

Figure 1. Regional Project Location Map



National Aeronautics and Space Administration



**Ames Research Center**  
Moffett Field, California 94035

February 18, 2020

Christina Morris  
Field Director  
National Trust for Historic Preservation, Los Angeles Office  
700 Flower Street, Suite 1100  
Los Angeles, CA 90017

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Cultural Resource Manager, Facilities Engineering Branch  
NASA Ames Research Center, Mail Stop 213-8  
Moffett Field, CA 94035  
(605) 604-6859  
[Jonathan.d.ikan@nasa.gov](mailto:Jonathan.d.ikan@nasa.gov)

Cc:

Ms. Rebecca Klein, NASA FPO  
Environmental Management Division  
NASA Headquarters  
300 E Street, SW  
Washington, DC 20546-0001

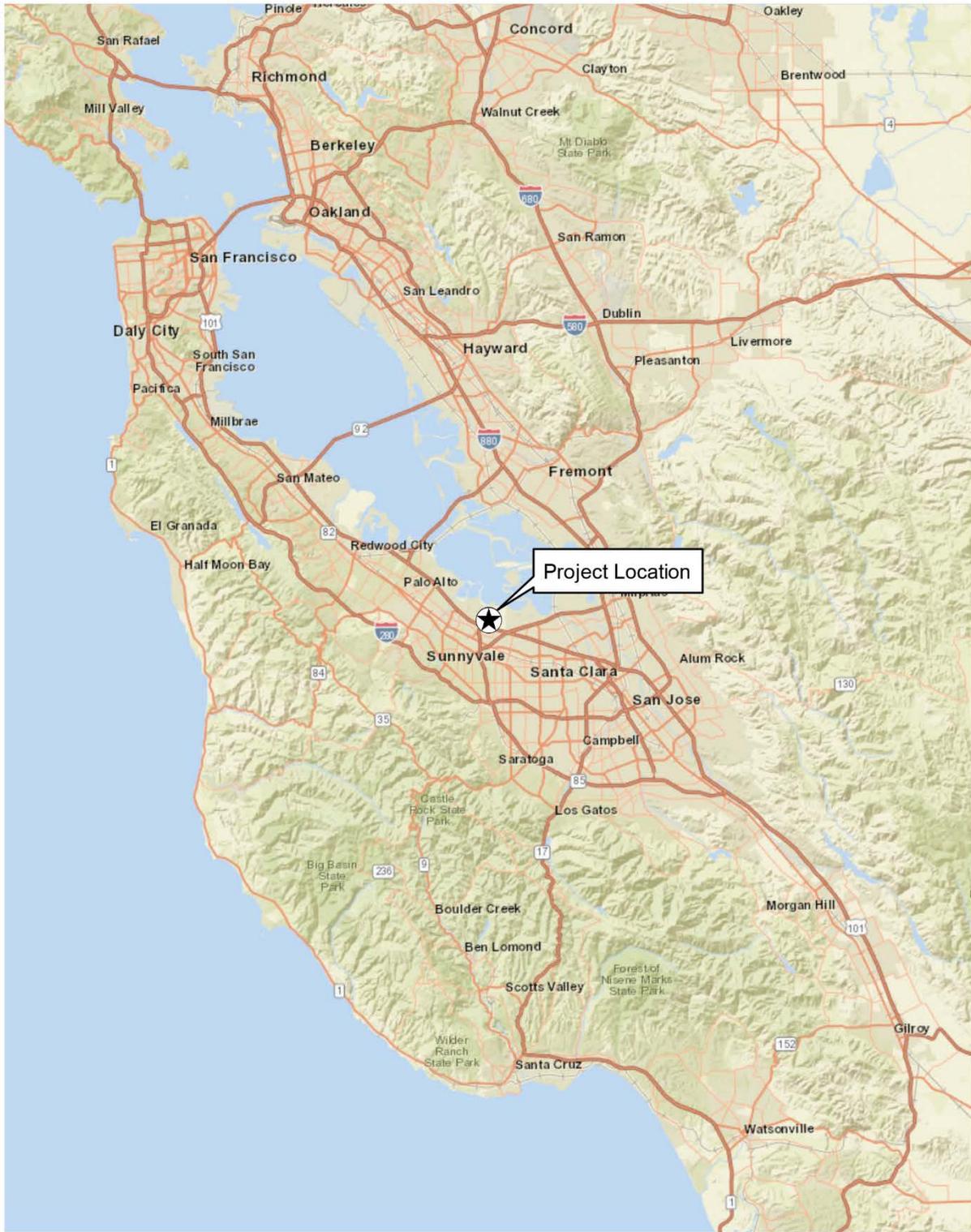
Lease Administration Team  
Planetary Ventures  
1600 Amphitheater Pkwy  
Mountain View, CA 94043

Legal Department/Legal Matters  
Planetary Ventures  
1600 Amphitheater Pkwy  
Mountain View, CA 94043

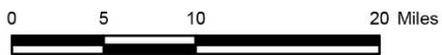
Attachments:

Figure 1. Regional Project Location Map

FIGURE 1: Regional Project Location Map



Source: ESRI, AECOM, NASA



Scale: 1 = 633,600; 1 inch = 10 mile(s)