

# **Appendix C**

Extended Phase 1 Archaeological Excavation Report

# EXTENDED PHASE 1 ARCHAEOLOGICAL EXCAVATION REPORT ORANGE MEMORIAL PARK WATER CAPTURE PROJECT CITY OF SOUTH SAN FRANCISCO, CALIFORNIA

# Prepared for:

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#### **SUMMARY OF FINDINGS**

The proposed Orange Memorial Park (Park) Water Capture Project (Project) will provide water quality improvements to meet the National Pollutant Discharge and Elimination System (NPDES) requirements of the San Francisco Bay Municipal Regional Stormwater Permit (MRP), which governs stormwater discharges to San Francisco Bay from the City of South San Francisco and 21 other co-permittees in San Mateo County. The Project is designed to address multiple water quality targets outlined in the MRP as well as solid waste (trash) discharge reductions under the MRP requirements.

The proposed Project involves the installation of a drop inlet, diversion channel, and inlet junction structure (trash screen) in the upper and western end of the Colma Creek channel and Park boundary and a series of storm pipes and pretreatment chambers that lead to an underground stormwater storage reservoir in the southeastern corner of the Park underneath a portion of two baseball fields. A portion of the underground stormwater storage reservoir would function as a cistern holding water for future non-potable irrigation and the remainder would function as an infiltration chamber. The proposed Project Area of Potential Effects (APE) includes the horizontal and vertical extent of all temporary and permanent topographic modifications. Ground disturbances associated with the proposed Project will extend at least 10 to 12 feet below the existing ground surface.

An archaeological literature and records search was conducted at the California Historical Resources Information System (CHRIS) Northwest Information Center (NWIC), Sonoma State University for the proposed Project APE, in November 2018. Over 30 investigations have been undertaken within an area extending 0.5-mile from the proposed Project APE; two of these evaluated a portion of the proposed Project APE. Three archaeological resources are located within 0.5-mile from the proposed Project APE, but no resources are recorded within the Project APE.

A Phase 1 archaeological survey (i.e., an intensive, pedestrian ground surface survey) of the proposed Project APE to assess the presence/absence of cultural resources on the ground surface was conducted on January 4, 2019. No prehistoric or historic-period cultural resources were identified, but the potential for unknown subsurface resources that could have been buried by Colma Creek alluviation over the past 10,000 years was determined. Therefore, an Extended Phase 1 Archaeological Excavation including fourteen (14) 2-inch diameter geoprobes was completed to depths between 3.05 and 4.00 meters (10 and 13 feet) below surface throughout the proposed Project APE between March 12 to March 14, 2019. The geoprobes were excavated between 30- and 60-meters (98.5 and 197 feet) apart and were continued until the maximum depth of disturbance was reached. All excavations were supervised by Wood Senior Archaeologist Ken Victorino, RPA.

The current Extended Phase 1 Archaeological Excavation did not identify any prehistoric and historic-period archaeological materials. Intact top soils within the proposed Project APE represent episodes of repeated flooding along Colma Creek or a related creek channel that regularly meandered over time. These intact alluvial soils indicate that ground surfaces within the proposed Project APE were not occupied throughout prehistory or since Euro-American settlement. Therefore, the proposed Project will not have significant impacts on cultural resources and no further archaeological measures including construction monitoring are necessary.

In the unlikely event that unanticipated cultural resources are encountered during proposed Project activities, all work shall stop until a qualified archaeologist can evaluate the nature and significance of the find. In the highly unlikely event that human remains are discovered during proposed Project activities, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made the necessary findings as to the origin and disposition of the remains pursuant to Public Resources Code Section 5097.98.

#### 1.0 INTRODUCTION

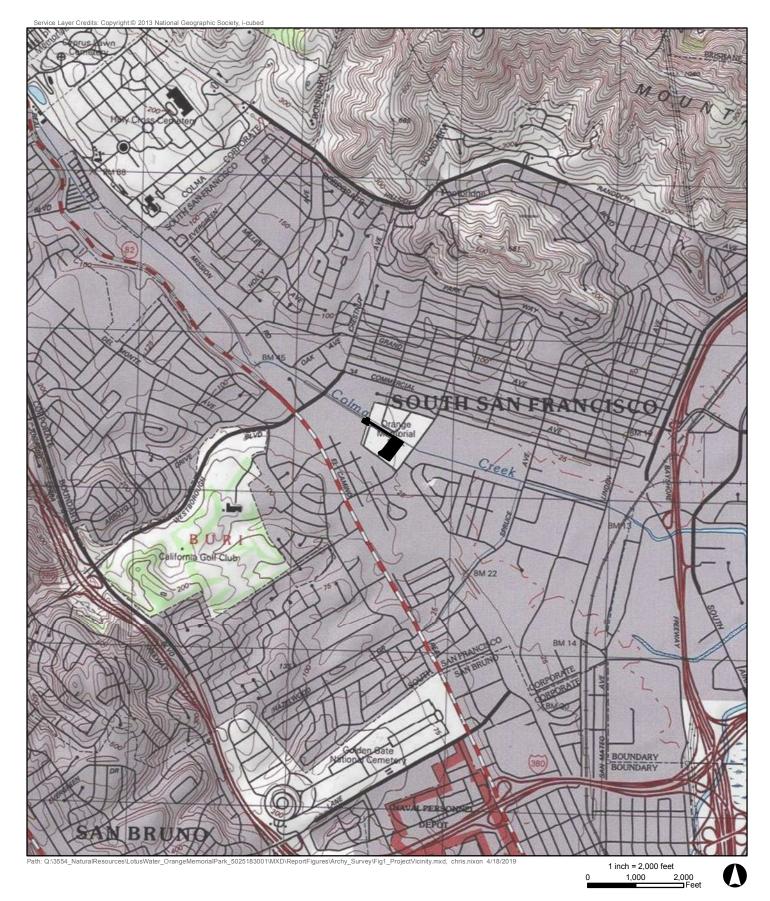
The proposed Water Capture Project (Project) is a water quality improvement project within Orange Memorial Park (Park) in the City of South San Francisco, California (Figures 1 and 2). Ground disturbances associated with the proposed Project will extend at least 10 to 12 feet below the existing ground surface. This report documents the background research, Phase 1 Archaeological (ground surface) Survey, Extended Phase 1 Archaeological Excavation, and Native American consultation conducted for the proposed Project by Wood Environment and Infrastructure Solutions (Wood E&IS) Cultural Resources Manager David Stone, RPA, and Wood E&IS Senior Archaeologist Ken Victorino, RPA. Mr. Stone has more than 35 years of experience managing all phases of cultural resource investigations throughout California. Mr. Victorino has more than 22 years of experience conducting all phases of cultural resource investigations throughout California.

#### 2.0 PROJECT LOCATION AND DESCRIPTION

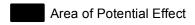
The proposed Project Area of Potential Effect (APE) is located within the Park, between West Orange Avenue and Chestnut Avenue, just east of El Camino Real, in the City of South San Francisco, on the San Francisco South, California U.S. Geological Survey (USGS) 7.5' topographic quadrangle (see Figure 1). The proposed Project APE is located within approximately 1.5 acres of the 28-acre Park, along the Colma Creek channel, within the southern half of the Park (Figure 3).

The City of South San Francisco is proposing water quality improvements within the Park that would capture and divert water flows from Colma Creek to the two existing ballfields for treatment and reuse to satisfy local irrigation demands. The proposed Project includes the following improvements (see Figure 2):

- Drop inlet, diversion channel, and inlet junction structure (trash screen) in the upper and western end of the Colma Creek channel and just outside of the western Park boundary, within the Cal Water Property (Southern Greenhouse Parcel) south of Colma Creek;
- 24-inch, underground storm drain pipe that extends from the Cal Water Property (Southern Greenhouse Parcel) south of Colma Creek, parallel to the creek channel, through the picnic area to the southeastern end of the Park;
- A series of pretreatment chambers leading to an underground stormwater storage reservoir within the baseball fields in the southeastern portion of the Park;
- Irrigation pump, water quality equipment shed, and irrigation within the picnic area; and
- Regrading of the southernmost portion of the Park, within the baseball fields.

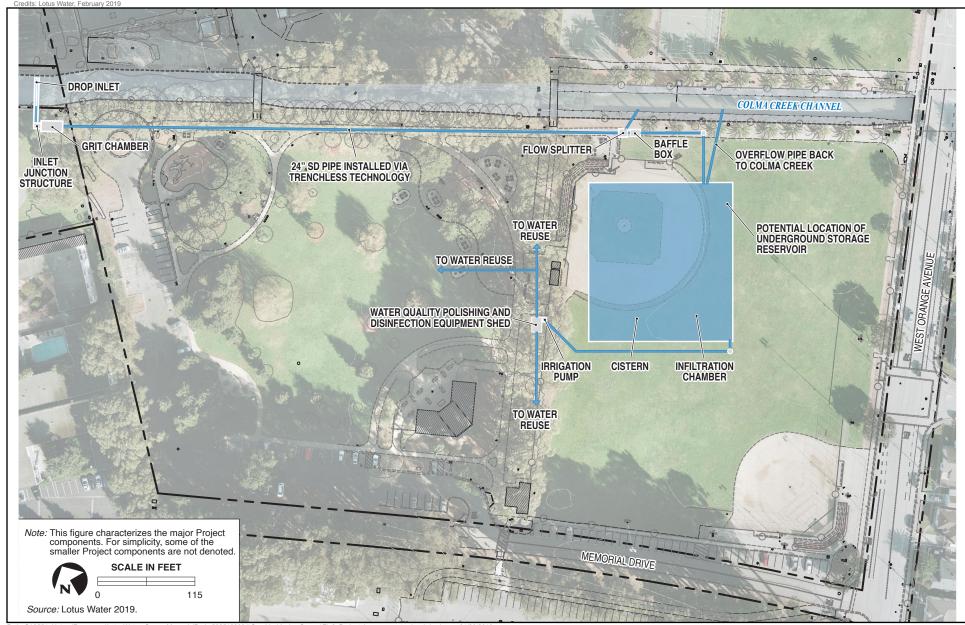


wood.



# FIGURE 1

Project Vicinity Orange Memorial Park South San Francisco, CA

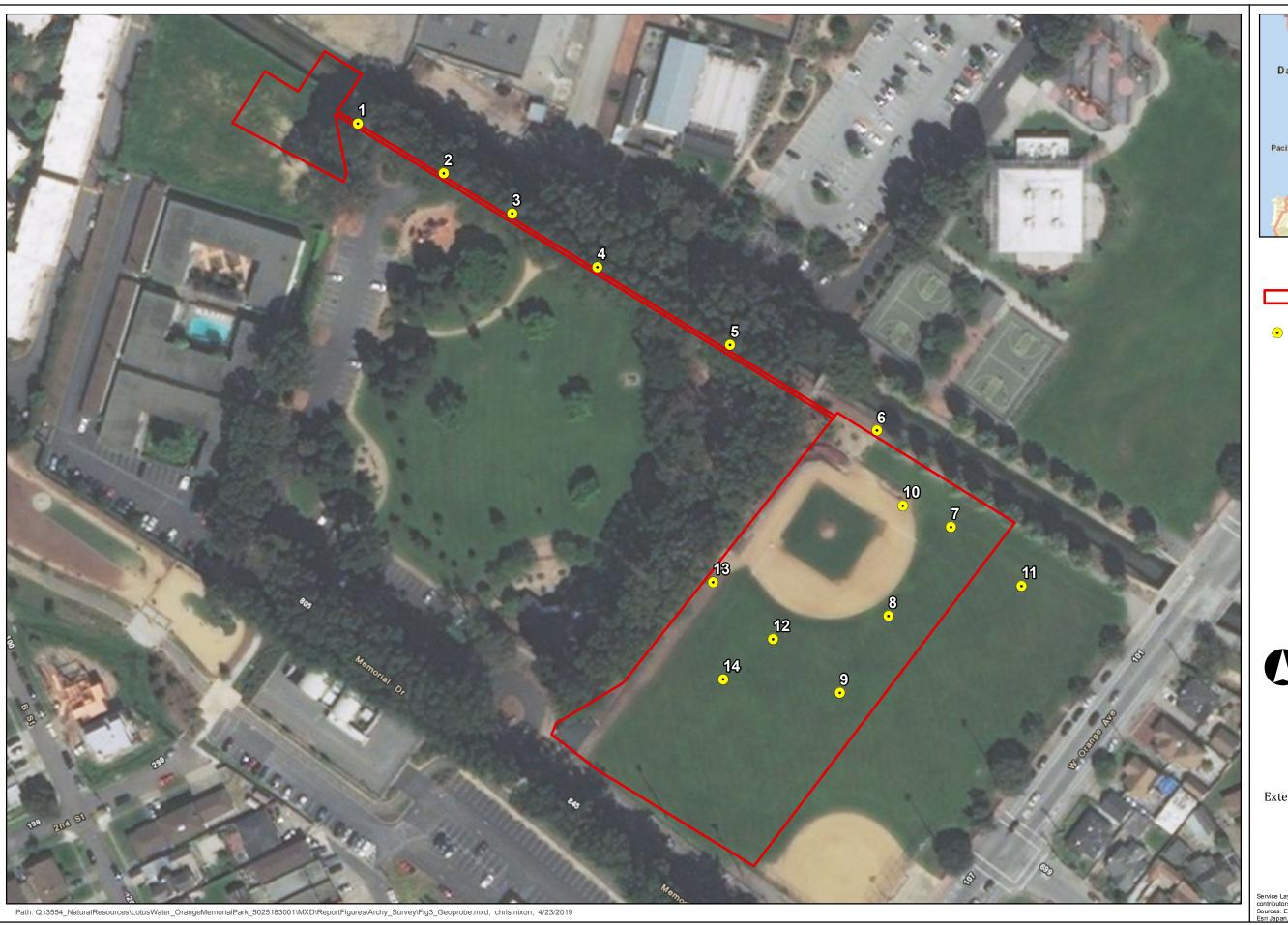


Path: Q:\3554\_NaturalResources\LotusWater\_OrangeMemorialPark\_5025183001\Graphics\Archy\_Survey\Fig2\_Project\_Improvements.ai, chris.nixon 04/23/2019



# FIGURE 2

Project Improvements Orange Memorial Park South San Francisco, CA





Area of Potential Effect

Extended Phase 1 Geoprobe Location



1 inch = 100 feet

# FIGURE 3

Area of Potential Effect and Extended Phase 1 Geoprobe Locations Orange Memorial Park South San Francisco, CA



Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand),

The proposed improvements comprise the APE that includes the horizontal and vertical extent of all temporary and permanent topographic modifications. Ground disturbances associated with the proposed Project will extend 10 to 12 feet below the existing ground surface.

#### 3.0 BACKGROUND

#### 3.1 Environment

Existing development within the proposed Project APE consists of park facilities including baseball fields and open picnic areas. A small portion of the proposed Project APE is located just outside of the western Park boundary, within the Cal Water Property (Southern Greenhouse Parcel). The proposed Project is surrounded by residential development in all directions.

Several geological soil testing investigations within portions of the proposed Project APE indicated that Colma Creek or related meandering water courses deposited substantial layers of alluvial sediment including sands, gravel and silts during periods of excessive rainfall and subsequent runoff. These are summarized below.

A Site Assessment was conducted in the Cal Water Property (Southern Greenhouse Parcel) just west of the Park boundary (CSS 2012). The assessment determined that up to 2 feet of fill had been placed on top of intact, native soils. The imported fill was generally described as dark brown, brown, or strong brown sand with varying amounts of silt, clay, and gravel. The intact, native soil underlying the fill consisted of yellowish brown to dark yellowish-brown fine sand with a trace of silt, identified as alluvial sediments deposited by Colma Creek or a related water course. This intact, native soil extended to 20 feet below surface, "interrupted only by a 3- to 6-inch lens of reddish brown medium sand below 10 feet and occasional deeper, thin (2- to 6-inch) clay lenses interbedded with the yellowish brown sand."

A Preliminary Geotechnical Feasibility Study was conducted in the Cal Water Property (Southern Greenhouse Parcel) for the proposed Project (Fugro 2016). Three borings generally encountered fill overlying native poorly-graded sands with alluvial clay and silty sand with clay over clay with sand. Boring B-1 encountered approximately 2 feet of fill (poorly-graded sand with gravel and clay) overlying approximately 18 feet of poorly-graded sands and silt sands. Boring B-2 encountered approximately 1 foot of fill (poorly-graded sand with gravel and silt) overlying approximately 17.5 feet of poorly-graded sands with silt. Boring B-3 encountered approximately 2.5 feet of fill

(poorly-graded sand with gravel and silt) overlying approximately 17.5 feet of poorly-graded sand with silt. The soils again are a result of creek or related drainage deposition.

A Geotechnical Investigation conducted for the proposed Project (Cotton, Shires, and Associates, Inc. 2018) included borings within the baseball fields in the southern portion of the Park. Four soil borings, B-4, B-5, B-6, and B-7, were completed in the proposed Project APE within the baseball fields. The borings indicated, generally, a 4.5- to 5-foot thick layer of clayey fill overlying alluvial sands, and silty or clayey sands within the baseball fields. Soil boring B-4 was located in the northern corner of the baseball fields and encountered dark brown sandy clay fill soil from the ground surface to 4.5 feet below surface and alluvium composed of silty sand, clay, sandy clay, and clayey sand from 4.5 to 46.5 feet below surface. Soil boring B-5 was located in the eastern corner of the ballfields and encountered dark brown silty clay fill soil from the ground surface to 4.5 feet below surface and alluvium composed of layers of sand, silty sand, sandy silty clay, and clayey sand from 4.5 to 31.5 feet below surface. Soil boring B-6 was located in the western corner of the ballfields and encountered dark brown sandy clay fill soil from the ground surface to 4.5 feet below surface and alluvium composed of layers of sand, silty sand, and clayey sand from 4.5 to 33.5 feet below surface. Soil boring B-7 was located in the southern corner of the ballfields and encountered brown sandy silt clay fill soil from the ground surface to 5.0 feet below surface and alluvium composed of sand, silty sand, clay, and clayey sand from 5.0 to 38.5 feet below surface.

These investigations are internally consistent in describing a broad area of active alluvial deposition throughout the proposed Project APE over the past several millennia. They illustrate the presence of repeated flooding resulting in dynamic silts, sands, and cobble layered stratigraphy. Vegetation in this type of floodway would be ephemeral and not generally support long-lasting riparian species such as oaks, sycamores and understory shrubs. The environmental context of the proposed Project APE would have encouraged specific resource procurement such as hunting, fishing, or vegetation collection.

#### 3.2 Ethnography

At the time of the initial European contact with the Native Americans of the San Francisco Bay area, the Costanoans (from the Spanish *costaños*, or "coast people"), members of the Penutian linguistic family, inhabited the area from the Carquinez Strait and the northern tip of the San Francisco Peninsula to the region south of Monterey Bay and east to the Diablo Range (Levy 1978). The Costanoans, who called themselves Ohlone, entered the Bay Area from the Delta region approximately 1,500 years ago and displaced earlier Hokan speakers.

Ohlone social organization was based on the tribelet, which consisted of one to five villages and numerous smaller, temporary settlements within a recognized territory (Levy 1978, Milliken 1995, Moratto 1984). Larger tribelets usually had several permanent villages, frequently within close proximity to one another. Tribelet leadership was focused on a chief who attained the position through patrilineal inheritance and a council of elders who served as advisors (Harrington 1933). Territorial boundaries of tribelets were defined by physiographic features.

The Ohlone exploited the San Francisco Bay area's diverse ecology throughout the seasons. At various seasons, parties were sent out from the villages to temporary camps at scattered locations in the tribelet territory to hunt, fish, and gather plant foods (Levy 1978). A large variety of terrestrial animals such as deer, antelope, and elk were hunted using a sinew-backed bow and arrows tipped with stone or bone points. Waterfowl were the most important birds in their diet. Nets were used to capture ducks, quail, rabbits, and small schooling fish (Levy 1978). Tule balsas, used to cross San Francisco Bay and travel through the marshes and streams surrounding the Bay, were also utilized in hunting waterfowl. Acorns were mostly likely an important plant resource along with other nut and seed crops.

The most common type of dwelling was a domed structure with a bent-pole frame that was thatched with tule, grass, wild alfalfa, or ferns (Levy 1978). Sweathouses were substantial semi-subterranean structures with timbered sides located within the permanent villages. The Portolá expedition was impressed by a large assembly house on Gazos Creek that was a domed structure large enough to accommodate all 200 inhabitants of the Ohlone village (Crespí 1927). Assembly houses were located in the center of the village with dwellings around them.

#### 3.3 Prehistory

Archaeological remains related to the prehistoric occupation of the San Francisco Bay area are evidenced by shellmounds that lined the shores of the Bay. Prehistoric adaptations of the Bay area (Fredrickson 1974, Moratto 1984) are summarized below.

#### Paleo-Indian Period (10,000 to 6,000 B.C.)

The earliest well-documented entry and spread of humans in California occurred at the beginning of the Paleo-Indian Period. Social units were small and highly mobile. Known sites have been identified in the contexts of

ancient lake shores and coastlines evidenced by fluted projectile points and chipped stone crescent hunting implements.

#### Lower Archaic Period (6,000 to 3,000 B.C.)

Few archaeological sites have been found in the Bay Area that date to the Lower Archaic Period. The lack of sites may be because of high sedimentation rates of adjacent water courses, leaving sites deeply buried and inaccessible (Fredrickson 1974, Moratto 1984).

#### Middle Archaic Period (3,000 to 500 B.C.)

Archaeologists have recovered a great deal of data from sites occupied by the Middle Archaic Period. During the Middle Archaic Period, the broad regional patterns of foraging subsistence strategies were followed by more intensive procurement practices. Subsistence economies were more diversified, possibly including the introduction of acorn processing technology, as well as use of the dart and atlatl for hunting. Populations were growing and occupying more diverse settings. Permanent villages that were occupied throughout the year were established, primarily along major waterways.

#### Upper Archaic Period (500 B.C. to A.D. 700)

The onset of status distinctions and other indicators of growing sociopolitical complexity mark the Upper Archaic Period. Exchange systems become more complex and formalized and evidence of regular, sustained trade between groups was seen for the first time.

#### Emergent Period (A.D. 700 to 1800)

Several technological and social changes characterized the Emergent Period. The bow and arrow were introduced, replacing the dart and atlatl over time. Territorial boundaries between groups became well-established. Increasing distinctions in an individual's social status were linked to acquired wealth. Exchange of goods between groups became more regularized with more goods, including raw materials, entering into the exchange networks. Exchange relations became highly regularized and sophisticated in the latter part of this period. The clamshell disk bead became a monetary unit for exchange, and increasing quantities of goods moved greater distances and specialists developed that influenced various aspects of production and exchange.

#### 3.4 History

An estimated 7,000 to 10,000 Native Americans lived near San Francisco Bay by the time of European contact in the 18th century (Levy 1978). Spanish explorers were the first Europeans to traverse the San Francisco Peninsula. In 1769 Gaspar de Portola led an expedition that began the Spanish exploration of northern California; however, it was Juan Bautista De Anza who received orders from the Viceroy of Mexico in 1775 to establish a mission in San Francisco. The arrival of the Spanish in northern California led to the rapid demise of the local Native American population. The native way of life was destroyed by disease, declining birth rates, and the establishment of the Mission San Francisco de Asís in 1776. By 1832, the Native American population had been reduced by approximately 80 percent. The surviving Costanoan's along with neighboring groups, were forced into the missions and turned into agricultural laborers. With the abandonment of the mission system by the Mexicans, ranchos were established and the few remaining Native Americans worked on the ranchos.

During the 1830s and 1840s, settlers in search of large expanses of land or trappers in search of fur-bearing animals began to occupy California in large numbers. Tension between the settlers and Native Americans escalated during the Mexican War in 1846, ending with the signing of the Treaty of Guadalupe Hidalgo in 1848.

The Gold Rush had a large impact on San Francisco, as the city became the main port, transportation hub, and commercial center for new settlers looking for their fortune. Prior to 1860, the main form of transportation throughout the San Francisco Bay area was by boat or stagecoach. The first roads were constructed in the mid-19<sup>th</sup> century and these roads were primarily used to transport agricultural products to market. A maritime transportation network grew up around the economy of the Bay area to facilitate the movement of agricultural products.

In 1864, the construction of the San Francisco-San Jose Railroad and the organization of the Southern Pacific Railroad Company created a link between communities. The railroad also spurred the development of new towns.

#### 4.0 SOURCES CONSULTED

This section describes the results of the records search conducted at the regional Information Center for the California Historical Resources Information System (CHRIS). It also summarizes correspondence with the Native American Heritage Commission (NAHC) regarding the proposed Project.

#### 4.1 Cultural Resources Records Search

An archaeological site record and literature search was conducted at the CHRIS Northwest Information Center (NWIC) at Sonoma State University for the proposed Project APE on November 2, 2018 (Appendix A). Other sources consulted for resources within the APE include the National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), California Historical Landmarks, California Points of Historical Interest, and California Inventory of Historic Resources.

Over 30 investigations have been undertaken within an area extending 0.5-mile from the proposed Project APE. Two of these covered small portions of the proposed Project APE. A cultural resources evaluation, consisting of background research and a surface reconnaissance, was conducted for a sewer replacement project that passed through the Park, along Colma Creek (Chavez 1977). No prehistoric or historic-period resources were observed, and the assessment concluded that the project would have no adverse effects on known cultural resources.

Background research and an intensive archaeological reconnaissance were conducted as part of the Orange Memorial Park Master Plan Environmental Impact Report (EIR) (Clark 1992). The Master Plan EIR included areas north of Colma Creek, outside the proposed Project APE, but also the creek channel and the Cal Water Property (Southern Greenhouse Parcel) within the proposed Project APE. The ground surface within Master Plan EIR areas was covered by imported fill soil, asphalt, and/or concrete. No evidence of cultural materials was observed within the proposed Project APE.

No cultural resources are recorded within the proposed Project APE. Three resources are documented within 0.5-mile of the proposed Project APE (Table 1).

Table 1. Archaeological Resources within 0.5 Mile of Proposed Project APE

	Primary No.	Trinomial	Distance / Direction	Period of	Site Type
			from APE	Occupation	
ĺ	P-41-000048	CA-SMA-44	1,750 ft., southeast	prehistoric	unknown
ĺ	P-41-000409	CA-SMA-299	2,550 ft., northwest	prehistoric	habitation debris
ĺ	P-41-000495	CA-SMA-355	650 ft., northwest	prehistoric	habitation debris
					including hearths/pits

#### P-41-000048 (CA-SMA-44)

The site is located approximately 535 meters (1,755 feet) southeast of the proposed Project APE. The Archaeological Site Survey Record for the site does not provide any information (no size measurements, no description of archaeological materials, no sketch map). The site was most likely recorded by Nelson in 1909 along with other shell mounds in the San Francisco Bay area (personal communication, Blake Brown, Northwest Information Center). Because the site was recorded over 100 years ago, very little information about the site remains; the site location depicted by the NWIC is considered approximate (personal communication, Blake Brown, Northwest Information Center).

#### P-41-000409 (CA-SMA-299)

The site is located approximately 775 meters (2,542 feet) northwest of the proposed Project APE, near the intersection of Colma Creek and the Southern Pacific Railroad tracks. The site was originally documented in 1989 as an approximately 2-kilometer (1.2-mile) long shell midden with traces of shell fragments, fire-altered rock, and chipped stone flakes on the surface. The Archeological Site Record indicates the site was "completely destroyed" with no traces of the site in many areas. An investigation for the BART – San Francisco Airport Extension Project (Rice 1994) identified no evidence of the site on the recorded site ground surface. Additionally, 20 shovel auger tests encountered no subsurface materials. The Archaeological Site Record indicates the site was "completely disturbed."

#### P-41-000495 (CA-SMA-355)

The site is located approximately 200 meters (656 feet) northwest of the proposed Project APE, along the north bank of Colma Creek. It consists of prehistoric habitation debris, including midden soil, burned and fire-cracked rock, charcoal, chert flakes, ground stone fragments, and burned and unburned bone in a roughly 185 X 80-meter (607 X 262-foot) area, and is between 10 and 130 centimeters (4 and 51 inches) thick. The archaeological resource was buried below 1.5 to 7.3 meters (4.9 to 24.0 feet) of natural and artificial overburden and was discovered during auger testing for a proposed building project.

The archaeological site record and literature search indicates prehistoric occupation occurred along Colma Creek within 0.5 mile of the proposed Project APE. Understanding of CA-SMA-44 is extremely limited, but CA-SMA-299 and -355 represent temporary or seasonal campsites within the vicinity of Colma Creek. Both have been buried by alluvial sediments carried by the creek. Although previous soil testing within the proposed Project APE has suggested dynamic

alluvial sedimentation over time, the potential for *in situ* (i.e., in the original depositional location) cultural resources within proposed improvement areas exist.

#### 4.2 Native American Consultation

A search of the Native American Heritage Commission's (NAHC's) Sacred Lands File was requested on October 10, 2018, and conducted on November 5, 2018 (Gayle Totton, NAHC Associate Governmental Program Analyst) to determine the presence of any Native American tribal heritage resources within the APE and general vicinity (Appendix B). The NAHC indicated that Native American tribal heritage sites are not recorded within the proposed Project APE or vicinity. The NAHC identified seven Native American contacts, both tribes and bands, that would potentially have specific knowledge as to whether cultural resources are identified in the APE. The list of contacts is provided below:

- Amah Mutsun Tribal Band, Valentin Lopez, Chairperson
- Amah Mutsun Tribal Band, Edward Ketchum
- Amah Mutsun Tribal Band of Mission San Juan Bautista, Irenne Zwierlein, Chairperson
- Costanoan Rumsen Carmel Tribe, Tony Cerda, Chairperson
- Indian Canyon Mutsun Band of Costanoan, Ann Marie Sayers, Chairperson
- Muwekma Ohlone Indian Tribe of the SF Bay Area, Charlene Nijmeh, Chairperson
- The Ohlone Indian Tribe, Andrew Galvan

#### 5.0 FIELD METHODS

#### 5.1 Phase 1 Archaeological Survey

A Phase 1 archaeological survey (i.e., an intensive, pedestrian ground surface survey) of the proposed Project APE to assess the presence/absence of cultural resources to identify potential impacts associated with the proposed project was conducted on January 4, 2019. Results are summarized for each of the proposed Project APE components.

#### **Cal Water Property (Southern Greenhouse Parcel)**

Proposed ground disturbing activities for the installation of the drop inlet would be located within the existing Colma Creek channel (see Figure 2). Installation of the proposed diversion channel and inlet junction structure (trash screen) are located within an undeveloped field. Background research indicated that fill soil up to 2 feet thick was placed within this area (CSS 2012). Ground surfaces within this area were partially covered by annual grasses and eucalyptus leaf litter, providing

good to very good (60 to 80 percent) ground surface visibility. A storm drain and construction debris (concrete) were observed within this area, indicating past ground disturbing activities. Exposed soils within this area were comprised of yellowish-brown sandy loam in the northeast corner of the parcel and brown sandy loam in the center of the parcel, consistent with the results of the previous geological Site Assessment (CSS 2012).

#### Picnic Area

Proposed ground disturbing activities within the picnic area include the installation of a 24-inch, underground storm drain pipe that will extend east from the inlet junction structure on the Cal Water Property (Southern Greenhouse Parcel) through the existing picnic area, to the baseball fields (see Figure 2). The proposed storm drain pipe will be oriented parallel with Colma Creek. Ground surfaces within this area were partially covered by a playground and grass turf. Evidence of past grading for water drainage is visible in elevation changes around the playground and planted trees. Substantial areas of barren ground surface approximately 1-square meter in size were observed within the grass turf, resulting in very good to complete (70 to 100 percent) ground surface visibility. Evidence of past ground disturbing activities including a storm drain manhole and irrigation control boxes were observed within the proposed Project APE. Soils observed were yellowish brown and brown sandy loam.

Additional existing disturbances included the installation of irrigation within the northern half of the picnic area. Ground surfaces within the area are partially covered by grass turf and eucalyptus leaf litter within landscaped areas. Within the areas of grass turf, approximately 1-square meter of ground surface was visible every 2 square meters. In areas of heavy leaf litter, shovel scrapes were performed at 3-meter (9.8-foot) intervals in order to increase ground surface visibility, providing excellent (90 percent) ground surface visibility. Soils observed were comprised of yellowish brown and brown sandy loam.

#### **Baseball Fields**

Proposed ground disturbing activities within the existing baseball fields include the installation of a series of filtration chambers connected to the 24-inch, underground storm drain pipe that flows into underground stormwater storage chambers, a water quality equipment shed with an irrigation pump, new irrigation, and regrading of the baseball fields (see Figure 2). There was no ground surface visibility within the majority of the proposed Project APE; ground surface visibility was precluded by healthy grass turf that was in good condition due to recent rainfall and imported dirt used for the baseball infields. Ground surfaces outside of the periphery of the proposed Project APE were also inspected. The ground surface within these areas was covered by wood chips. In order to improve ground surface visibility in areas covered by wood chips, 0.5 X 0.5-meter exposures were

completed approximately every 3 meters (9.8 feet), providing excellent (90 percent) ground surface visibility. The ground surface along the western edge of the proposed Project APE within the area of the proposed water quality equipment shed and irrigation pump was partially covered by spotty grass turf, resulting in excellent (80 to 90 percent) ground surface visibility.

Soils observed included redeposited fill soil consisting of brown, light brown, and yellowish-brown clayey sand and sandy loam. Small yellowish-brown clay nodules were observed within the fill soil. These results are consistent with the previous Geotechnical Investigation (Cotton, Shires, and Associates, Inc. 2018).

#### 5.2 Extended Phase 1 Archaeological Excavation

An Extended Phase 1 Archaeological Excavation was conducted to evaluate the potential for buried prehistoric archaeological materials for the following reasons: the presence of fill soil that has been placed in proposed Project improvement areas within the Park; potential alluvial deposition as identified in previous soil investigations, and; the presence of at least two prehistoric campsites sites within 0.5-mile of the proposed Project area.

#### Methods

Fourteen (14) solid core geoprobes, 2-inches in diameter, were excavated throughout the proposed Project APE to recover continuous soil cores up to 12-feet deep, the maximum depth of proposed Project disturbance. The geoprobes were spaced between approximately 30 and 60 meters (98.5 and 197 feet) apart (see Figure 3). Excavated soils were inspected by Ken Victorino, RPA, Wood E&IS Senior Archaeologist, and Lucas Nichols, Wood E&IS Staff Archaeologist, for the presence of prehistoric archaeological material. Screening of soils was anticipated in the event that any cultural resources were observed. Results of geoprobe excavations were documented on forms; provenience information, sediment description, and termination depth were noted (Appendix C). After excavation of a geoprobe was completed, the geoprobe hole was backfilled.

#### **Results**

The Extended Phase 1 Archaeological Excavation results are summarized in Table 2 below. Fill soil overlies intact, native soils. This soil profile/stratigraphy is consistent with previous geotechnical investigations conducted for the proposed Project. The intact, native soils represent multiple "fining upward" sequences associated with repeated flooding along Colma Creek, or suggest that the Colma Creek channel meandered and changed locations. A single "fining upward" sequence consists of large course sand at the bottom, then medium and fine sand, and fine clay sediment at the top. The heavier, large course sand is deposited first, at the beginning, when the water is flowing quickly, and the lighter, fine clay

Table 2. Extended Phase 1 Archaeological Excavation Results

Geoprobe	Depth of Excavation (m/ft)	Soil Description	Cultural Materials
1	0 – 0.47 / 0 – 1.5	disturbed, "mixed in place" native sediment	-
	0.94 – 4.00 / 1.5 – 13.1	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-
2	0 – 0.54 / 0 – 1.8	fill	-
	0.54 – 1.85 / 1.8 – 6.1	potential fill: abrupt transition and distinct color change at 1.85 m (6.1 ft) suggest sediment is potentially fill	-
	1.85 – 4.00 / 6.1 – 13.1	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-
3	0 – 0.85 / 0 – 2.8	fill	-
	0.85 – 2.36 / 2.8 – 7.7	potential fill: mixed/mottled transition at 2.36 m (7.7 ft) suggests sediment is potentially fill that may have been pushed into underlying intact sediment when placed	-
	2.36 – 3.97 / 7.7 – 13.0	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-
4	0 – 0.68 /0 – 2.1	fill	-
	0.68 – 2.30 / 2.1 – 7.6	potential fill: mixed/mottled transition at 2.30 m (7.6 ft) suggests sediment is potentially fill that may have been pushed into underlying intact sediment when placed	-
	2.30 – 3.98 / 7.6 – 13.1	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-
5	0 – 1.79 / 0 – 5.9	fill	-
	1.79 – 2.11 / 5.9 – 6.9	potential fill: mixing/mottling suggests sediment is potentially fill	-
	2.11 – 3.97 / 6.9 – 13.0	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-
6	0 – 0.94 / 0 – 3.1	fill	-
	0.94 – 3.15 / 3.1 – 10.3	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-

Table 2. Extended Phase 1 Archaeological Excavation Results (continued)

Geoprobe	Depth of Excavation (m/ft)	Soil Description	Cultural Materials
7	0 – 1.14 / 0 – 3.7	fill	-
	1.14 – 1.21 / 3.7 – 4.0	potential fill	-
	1.21 – 3.25 / 4.0 – 10.7	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-
8	0 – 0.91 / 0 – 3.0	fill	-
	0.91 – 3.05 / 3.0 – 10.0	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-
9	0 – 0.96 / 0 – 3.2	fill	-
	0.96 – 3.40 / 3.2 – 11.2	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-
10	0 – 1.51 / 0 – 5,0	fill	-
	1.51 – 3.70 / 5.0 – 12.1	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-
11	0 - 1.02 / 0 - 3.4	fill	-
	1.02 – 3.63 / 3.4 – 11.9	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-
	3.63 – 3.75 / 11.9 – 12.3	intact, native gley sediments; possibly "slough" covered by stagnant or slow- moving water	-
12	0 - 0.83 / 0 - 2.7	fill	-
	0.83 – 3.52 / 2.7 – 11.6	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-
	3.52 – 3.61 / 11.6 – 11.8	intact, native gley sediment; possibly "slough" covered by stagnant or slow- moving water	-
13	0 - 0.90 / 0 - 3.0	fill	-
	0.90 – 3.32 / 3.0 – 10.9	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-
14	0 – 0.53 / 0 – 1.7	fill	-
	0.53 – 3.70 / 1.7 – 12.1	intact, native sediment; multiple "fining upward" sequences of finer-grained clay sediments overlying coarse-grained sand sediments	-

sediments are deposited last, at the end, when the water flow has decreased, and the water is calm and flowing slowly.

These multiple "fining upward" sequences suggest that a stable ground surface, that was exposed for a long period of time and was suitable for prehistoric occupation, was not present within the proposed Project APE. No cultural materials were observed in any of the geoprobe cores such that soil screening was not necessary.

#### 6.0 STUDY FINDINGS AND CONCLUSIONS

As described above, proposed Project improvements will extend into intact, top soils underlying fill soil. The excavation of 14 geoprobes encountered intact, undisturbed alluvial soil consisting of multiple "fining upward" sequences. This soil profile/stratigraphy is consistent with previous geotechnical investigations conducted for the proposed Project. These intact subsoils associated with repeated flooding along Colma Creek or a meandering channel that changed location have a very low potential for the presence of prehistoric archaeological sites, as a ground surface would not have been exposed long enough to develop into a stable surface suitable for prehistoric occupation. Evidence of ephemeral prehistoric occupation associated with special use activities such as hunting, fishing, or vegetation gathering would have been eroded and carried downstream.

The Extended Phase 1 Archaeological Excavation did not recovery prehistoric or historic-period archaeological materials from any of the soil recovered during the excavation of 14 geoprobes, confirming the proposed Project APE has a low potential for the presence of prehistoric archaeological sites.

No further archaeological measures, including monitoring during proposed Project construction, are recommended.

#### 7.0 OTHER RESOURCES

#### **Unidentified Cultural Resources**

In the unlikely event that unanticipated cultural resources are discovered during proposed Project activities, all work shall stop until a qualified archaeologist can assess the significance of the find.

In the unlikely event that human remains are discovered during proposed Project activities, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the Coroner has made findings as to the origin and disposition of the remains pursuant to Public Resources Code Section 5097.98.

#### 8.0 REFERENCES

#### Chavez, David

1977 Cultural Resources Evaluation of the Colma Wastewater Collection System, Town of Colma, San Mateo County, California. Prepared for Spectrum Northwest and Resources Engineering and Management.

#### Clark, Matthew A.

1992 Initial Archaeological Evaluation of Proposed Park Additions and a Portion of the Colma Creek Channel for the Orange Memorial Park Master Plan EIR, South San Francisco, California. Prepared for Martin Carpenter Associates.

#### Cotton, Shires and Associates, Inc.

2018 Geotechnical Investigation Stormwater Capture Project, Orange Memorial Park, South San Francisco, California. Prepared for Lotus Water.

#### Crespí, Juan

1927 Fray Juan Crespí: Missionary Explorer on the Pacific Coast 1769-1774. Herbert E. Bolton, ed. And trans. Berkeley: University of California Press. Reprinted AMS Press, New York, 1971).

#### CSS Environmental Services, Inc. (CSS)

Final Site Assessment Report For Parcels Northwest of Orange Park, APNs 014-041-170 and - 180, South San Francisco, California, SMCo Site #559204, Global ID #T10000002366. Prepared for County of San Mateo Health Department.

#### Fredrickson, David A.

1974 Cultural Diversity in Early Central California: A View from the North Coast Ranges. *Journal of California Anthropology* 1:41-53.

#### Fugro Consultants, Inc. (Fugro)

2016 Preliminary Geotechnical Feasibility Study, Proposed Orange Park Storm Water Capture Project, South San Francisco, California. Prepared for City of South San Francisco.

#### Harrington, J. P.

1933 Report of fieldwork on Indians of Monterey and San Benito Counties. Washington D.C., Smithsonian Institute, Bureau of American Ethnology Annual Report for 1931-1932: 2-3

#### Levy, Richard

1978 Costanoan. In *California*. Handbook of North American Indians, Volume 8, edited by Robert F. Heizer, pp. 398-413. Smithsonian Institution, Washington, D.C.

#### Milliken, Randall T.

1995 A Time of Little Choice: The Disintegration of Tribal Culture in the San Francisco Bay Region, 1769-1810. Ballena Press, Menlo Park, California.

#### Moratto, Michael, J.

1984 California Archaeology. Academic Press.

#### Rice, Carolyn

1994 Archaeological Site Record Supplement, CA-SMA-299. On file, CHRIS/NWIC, Sonoma State University, Rohnert Park.

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# **APPENDIX A**

# Northwest Information Center Archaeological Site Record and Literature Search

**CONFIDENTIAL - NOT FOR PUBLIC DISTRIBUTION** 

#### California Historical Resources Information System

# **CHRIS Data Request Form**

ACCESS AND USE AGREEMENT NO.: 514	IC FILE	NO.:
To: Northwest		Information Center
Print Name: Ken Victorino		<sub>Date:</sub> 10/30/18
Affiliation: Wood Environment & Infrastructure		
Address: 104 W. Anapamu Street, Suite 204A		
City: Santa Barbara	State: CA	Zip: 93101
Phone: (805) 962-0992 Fax: (805) 966-1706	_ Email: ken.victo	prino@woodplc.com
Billing Address (if different than above):		
Project Name / Reference: Orange Memorial Park (5025	183001.01.****)	
Project Street Address:		
County: San Mateo		
Township/Range/UTMs:		
USGS 7.5' Quad(s): South Francisco South		
PRIORITY RESPONSE (Additional Fee): yes ①/ no ①		
TOTAL FEE NOT TO EXCEED: \$		
Special Instructions:		
Information Center Use Only		
Date of CHRIS Data Provided for this Request:		
Confidential Data Included in Response: yes O/ noO		
Notes:		

#### California Historical Resources Information System

#### **CHRIS Data Request Form**

Include the following information (mark as necessary) for the records search area(s) shown on the attached map(s) or included in the associated shapefiles. Shapefiles are the current CHRIS standard format for digital spatial data products.

#### NOTE: All digital data products are subject to availability - check with the appropriate Information Center.

1. **Map Type Desired**: Digital map products will be provided only if they are available at the time of this request. Regardless of what is requested, only hard copy hand-drawn maps will be provided for any part of the requested search area for which digital map products are not available at the time of this request. There is an additional charge for shapefiles, whether they are provided with or without Custom GIS Maps.

#### Mark one map choice only

Hard Copy Hand-Drawn Maps only

Custom GIS Maps Shapefiles Custom GIS Maps and Shapefiles C

Any selection below left unmarked will be considered a "no."					
2a.	Within project area	Within 1/2 mi_radius			
ARCHAEOLOGICAL Resource Locations  NON-ARCHAEOLOGICAL Resource Locations Report Locations Resource Database Printout* (list) Resource Database Printout* (detail) Resource Digital Database Records (spreadsheet) Report Database Printout* (list) Report Database Printout* (detail) Report Database Printout* (detail) Report Digital Database Records (spreadsheet) ARCHAEOLOGICAL Resource Record copies  PDFO/ Hard CopyO  NON-ARCHAEOLOGICAL Resource Record copies	yes O/ no O yes O/ no O yes O/ no O yes O/ no O	yes O/ no O			
PDFO/ Hard Copy O Report copies**:	yes <b>⊙</b> / no <b>O</b>	yes <b>O</b> / no <b>⊙</b>			
PDF  Hard Copy  O	Only directory listing	Associated documentation			
within project area within 1/2 mi radius	yes <b>⊙</b> / no <b>○</b> yes <b>⊙</b> / no <b>○</b>	yes <b>O</b> / no <b>O</b> yes <b>O</b> / no <b>O</b>			
OHP Archaeological Determinations of Eligibility <sup>*</sup> within project area within 1/2 mi radius California Inventory of Historical Resources (1976):	yes <b>⊙</b> / no <b>○</b> yes <b>⊙</b> / no <b>○</b>	yes O/ no O yes O/ no O			
within project area within 1/2 mi radius	yes O/ no O	yesO/ noO			

<sup>+</sup> In order to receive archaeological information, requestor must meet qualifications as specified in Section III of the current version of the California Historical Resources Information System Information Center Rules of Operation Manual and be identified as an Authorized User under an active CHRIS Access and Use Agreement.

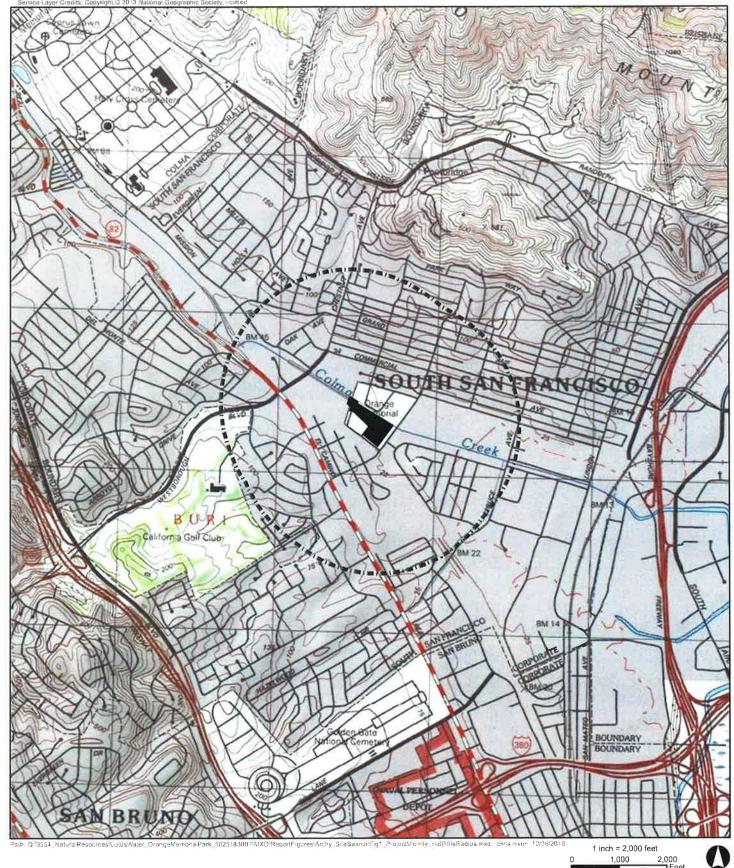
<sup>\*</sup> These documents may be supplied as PDF files, if available

<sup>\*\*</sup> Includes, but is not limited to, information regarding National Register of Historic Places, California Register of Historical Resources, California State Historical Landmarks, California State Points of Historical Interest, and historic building surveys.

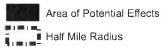
#### California Historical Resources Information System

#### **CHRIS Data Request Form**

**2b.** Listed below are sources of additional information that may be available at the Information Center. Indicate if a review and documentation of any of the following types of information is requested.







# FIGURE 1

Project Vicintiy Orange Memorial Park South San Francisco, CA



HUMBOLDT LAKE MARIN MENDOCINO MONTEREY NAPA SAN BENITO SAN FRANCISCO SAN MATEO SANTA CLATA SANTA CRUZ SOLANO SONOMA YOLO Northwest Information Center Sonoma State University 150 Professional Center Drive, Suite E Rohnert Park, California 94928-3609 Tel: 707.588.8455

Tel: 707.588.8455 nwic@sonoma.edu http://www.sonoma.edu/nwic

11/2/2018 NWIC File No.: 18-0862

Ken Victorino Wood Environment & Infrastructure Solutions 104 W. Anapamu Street, Suite 204A Santa Barbara, CA 93101

#### re: Orange Memorial Park (5025183001)

Archaeological resources within

**Ethnographic Information:** 

**Historical Literature:** 

Archaeological resources within 0.5

project area:

The Northwest Information Center received your record search request for the project area referenced above, located on the San Francisco South USGS 7.5' quad. The following reflects the results of the records search for the project area and a 0.5 mile radius:

P-41-000048, 000409, & 000495.

None

mile radius:				
Reports within project area:	S-3043 & 13543.			
Reports within 0.5 mile radius:	See enclosed databa	se printouts.		
Resource Database Printout (list):	⊠ enclosed	□ not requested	□ nothing listed	
Resource Database Printout (details):	$\square$ enclosed	□ not requested	$\square$ nothing listed	
Resource Digital Database Records:	⊠ enclosed	$\square$ not requested	$\square$ nothing listed	
Report Database Printout (list):	⊠ enclosed	$\square$ not requested	$\square$ nothing listed	
Report Database Printout (details):	$\square$ enclosed	□ not requested	$\square$ nothing listed	
Report Digital Database Records:	⊠ enclosed	$\square$ not requested	$\square$ nothing listed	
<b>Resource Record Copies:</b>	$\square$ enclosed	$\square$ not requested	☑ nothing listed	
Report Copies:	⊠ enclosed	$\square$ not requested	$\square$ nothing listed	
<b>OHP Historic Properties Directory:</b>	□ enclosed	$\square$ not requested	$\square$ nothing listed	
<b>Archaeological Determinations of Elig</b>	ibility: $\boxtimes$ enclosed	$\square$ not requested	$\square$ nothing listed	
<b>CA Inventory of Historic Resources (1</b>	<b>976):</b> ⊠ enclosed	$\square$ not requested	$\square$ nothing listed	
Caltrans Bridge Survey:	□ enclosed	□ not requested	□ nothing listed	

 $\square$  enclosed  $\boxtimes$  not requested  $\square$  nothing listed

 $\square$  enclosed  $\boxtimes$  not requested  $\square$  nothing listed

<u>Historical Maps:</u>	□ enclosed	⊠ not requested	$\square$ nothing listed
<b>Local Inventories:</b>	$\square$ enclosed	$\boxtimes$ not requested	$\square$ nothing listed
GLO and/or Rancho Plat Maps:	$\square$ enclosed	$\boxtimes$ not requested	$\square$ nothing listed
<b>Shipwreck Inventory:</b>	$\square$ enclosed	$\boxtimes$ not requested	$\square$ nothing listed
*Notes:			
** Current versions of these resources are	available on-line:		
Caltrans Bridge Survey: <a href="http://www.do">http://www.do</a>	t.ca.gov/hq/struc	tur/strmaint/histor	ric.htm
Soil Survey: http://www.nrcs.usda.gov/	wps/portal/nrcs/	surveylist/soils/su	rvey/state/?stateld=CA
Shipwreck Inventory: <a href="http://www.slc.c">http://www.slc.c</a>	a.gov/Info/Shipv	vrecks.html	

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

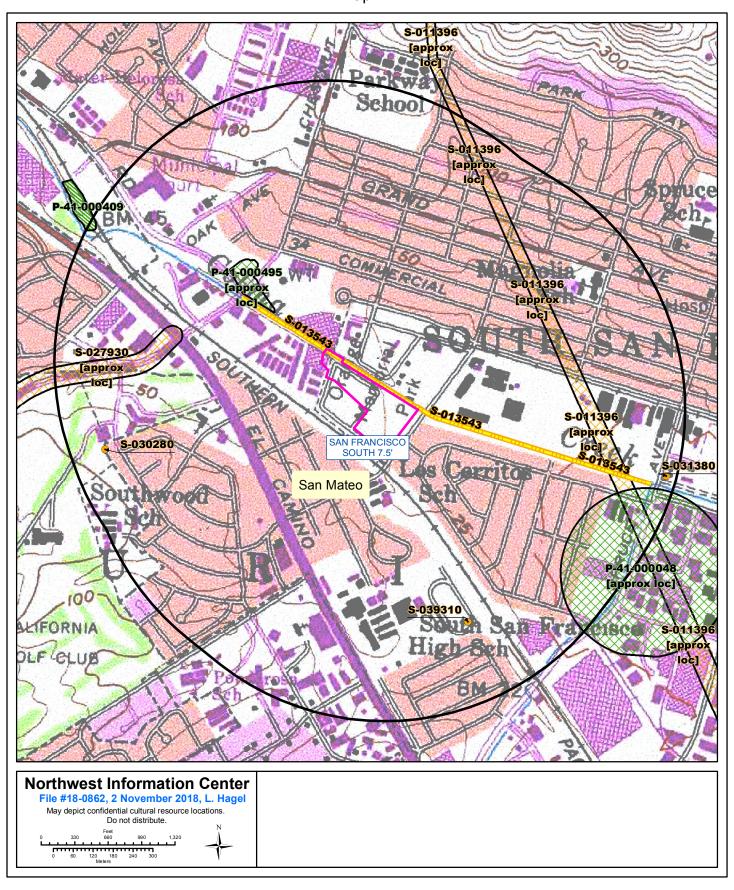
Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Requests made after initial invoicing will result in the preparation of a separate invoice.

Thank you for using the California Historical Resources Information System (CHRIS).

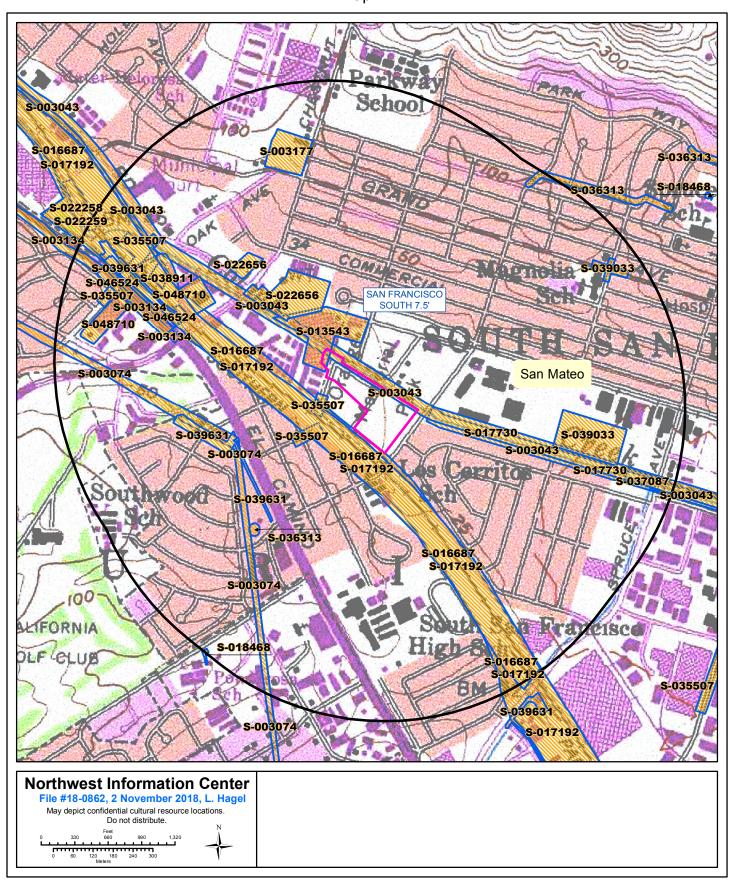
Sincerely,

Lisa C. Hagel Researcher

#### Orange Memorial Park (5025183001.01) Map #1



#### Orange Memorial Park (5025183001.01) Map #2



#### **Resource List**

Primary No.	Trinomial	Other IDs	Туре	Age	Attribute codes	Recorded by	Reports
P-41-000048	CA-SMA-000044	Resource Name - Nelson 383	Site	Prehistoric	AP01	([none], [none])	_
P-41-000409	CA-SMA-000299	Resource Name - Colma Creek	Site	Prehistoric	AP15; AP16	1989 (Barb Bocek, Stanford University); 1994 (Carolyn Rice, [none])	S-016687, S- 016688, S-022258, S-022259, S- 027930, S-039770
P-41-000495	CA-SMA-000355	Resource Name - Colma Creek/Chestnut; Other - SSF Redevelopment Project 2000 Project Areas	Site	Prehistoric	AP11; AP15	2000 (Matthew R. Clark, Holman & Associates)	S-022656, S- 022972, S-023271, S-027930, S-033611

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
S-003043	Voided - E-41 SMA	1977	David Chavez	Cultural Resources Evaluation of the Colma Wastewater Collection System, Town of Colma, San Mateo County, California		
S-003074	Voided - E-73 SMA	1979	Suzanne Baker	Archaeological Reconnaissance of the Proposed San Andreas Pipeline No. 3, San Mateo County	Archaeological Consultants	41-000103, 41-000104, 41-000123
S-003134	Voided - E-139 SMA	1976	Daniel L. Young	Archaeological Survey Report for Widening Project on 4-SM-82-20.8/22.1	California Department of Transportation	
S-003177	Voided - E-3 SMA	1976	William Roop	Archaeological Impact Evaluation of proposed Public Safety Facility (letter report)	Archaeological Resource Service	
S-011396		1989		Technical Report of Cultural Resources Studies for the Proposed WTG-WEST, Inc., Los Angeles to San Francisco and Sacramento, California: Fiber Optic Cable Project	BioSystems Analysis, Inc.	27-000819, 27-001444, 27-001445, 27-001446, 27-003235, 27-003236, 35-000036, 35-000053, 35-000151, 35-000152, 35-000153, 35-000154, 35-000167, 35-000168, 41-00009, 41-000105, 41-000169, 41-000172, 41-000230, 41-000231, 41-000410, 43-000024, 43-000024, 43-000178, 43-000179, 43-000180, 43-000181, 43-000182, 43-000183, 43-000184, 43-000189, 43-000388, 43-000247, 43-000248, 43-000388, 43-000449, 43-000161, 43-001010, 43-00101, 43-00101
S-013543	Submitter - MRC-2- 02-92	1992	Matthew R. Clark	Initial Archaeological Evaluation of Proposed Park Additions and a Portion of the Colma Creek Channel for the Orange Memorial Park Master Plan EIR, South San Francisco	MRC Consulting	
S-016687	Voided - S-016688	1994	Carolyn Rice	BART-San Francisco Airport Extension Project, Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement, Archaeological Survey Report		41-000409
S-016687a		1994	Carolyn Rice	BART-San Francisco Airport Extension Project, Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement, Archaeological Resources Technical Report		

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
S-017192	OHP PRN - UMTA900828A	1994	Laurence H. Shoup, Mark Brack, Nancy Fee, and Bruno Giberti	BART-San Francisco Airport Extension Project, Draft Environmental Impact Report/Supplemental Environmental Impact Statement, Historic Architectural Survey Technical Report	Archaeological/Historical Consultants	41-000323, 41-000324, 41-000325, 41-000326, 41-000327, 41-000328, 41-000329, 41-000330, 41-000331, 41-000335, 41-000335, 41-000335, 41-000336, 41-000340, 41-000341, 41-000341, 41-000341, 41-000341, 41-000341, 41-000342, 41-000343, 41-000344, 41-000344, 41-000347, 41-000347, 41-000347, 41-000355, 41-000355, 41-000355, 41-000356, 41-000356, 41-000356, 41-000366, 41-000361, 41-000365, 41-000366, 41-000367, 41-000365, 41-000366, 41-000367, 41-000368, 41-000369, 41-000367, 41-000369, 41-000370, 41-000371,

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
						41-001620, 41-001621, 41-001622, 41-001623, 41-001624, 41-001625, 41-001626, 41-001627, 41-001628, 41-001629, 41-001630, 41-001631, 41-001632, 41-001633, 41-001634, 41-001635, 41-001636, 41-001637, 41-001638, 41-001649, 41-001641, 41-001642, 41-001643, 41-001644, 41-001645, 41-001649, 41-001650, 41-001650, 41-001655, 41-001650, 41-001655, 41-001659, 41-001659, 41-001659, 41-001659, 41-001659, 41-001659, 41-001659, 41-001659, 41-001659, 41-001659, 41-001661, 41-001662, 41-001662, 41-001661, 41-002431,
S-017192a		1995	Laurence H. Shoup and Ward Hill	Bart-SFP Extension Project, Draft Environmental Impact Report/Supplemental Environmental Impact Statement, Historic Architectural Survey Technical Report, Volume II: Alternative VI, Highway 380 to Trousdale Drive in Burlingame	Archaeological/Historical Consultants	
S-017192b		1995	Cherilyn Widdell	UMTA900828A; Project: BART Extension from Colma to San Francisco International Airport	Office of Historic Preservation	
S-017730		1995	Carolyn Rice	Colma Creek Zone Drainage Improvements Project, Cultural Resources Technical Report		
S-018468		1996	Mark Hylkema	Historic Properties Survey Report (HPSR) and Negative Archaeological Survey Report for the Proposed Installation of Modular Classrooms at Spruce, Martin, Ponderosa, and Skyline Schools, South San Francisco Unified School District		41-000406, 41-000407, 41-000408
S-018468a		1996	Mark Hylkema	Negative Archaeological Survey Report for the Proposed Installation of Modular Classrooms at Spruce, Martin and Ponderosa Schools in the City of South San Francisco, San Mateo County		
S-022258		1999	Suzanne Baker	BART Construction Archaeological Monitoring, Prehistoric Site CA-SMA-299 (letter report)	Archaeological/Historical Consultants	41-000409

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
S-022259		1999	Suzanne Baker	BART Construction Archaeological Monitoring, Prehistoric Site CA-SMA-299 (letter report)	Archaeological/Historical Consultants	41-000409
S-022656	Voided - S-22972; Voided - S-23271	2000	Matthew R. Clark	Initial Subsurface Archaeological Reconnaissance of Two Redevelopment Parcels on Chestnut Avenue in the City of South San Francisco, California, with Preliminary Resource Evaluation and Management Recommendations	Holman & Associates	41-000495
S-022656a		2000	Matthew R. Clark	An Addendum To: Initial Subsurface Archaeological Reconnaissance of Two Redevelopment Parcels on Chestnut Avenue in the City of South San Francisco, California	Holman & Associates	
S-022656b		2000	Matthew R. Clark	Final Report: Subsurface Archaeological Reconnaissance, Assessment of Potential Project Impacts, and Resource Management Recommendations for the Chestnut Creek Senior Housing Project, South San Francisco	Holman & Associates	
S-027930		2003	Kyle Brown, Adam Marlow, James Allan, and William Self	Cultural Resource Assessment of Alternative Routes for PG&E's Jefferson-Martin Transmission Line, San Mateo County, California	William Self Associates, Inc.	41-000044, 41-000077, 41-000079, 41-000093, 41-000094, 41-000095, 41-000103, 41-000104, 41-000149, 41-000172, 41-000207, 41-000283, 41-000302, 41-000401, 41-000402, 41-000404, 41-000409, 41-000410, 41-000487, 41-000495, 41-000497, 41-001376, 41-002115, 41-002116, 41-002163
S-030280		2004		Cultural Resources Study of the El Camino, Westborough Project AT&T Wireless Services Site No. 960006094C, 840 West Orange Avenue, South San Francisco, San Mateo County, Calfiornia 94080.	Historic Resource Associates	
S-031380	Submitter - Project Number: SF-05160C	2006	Lorna Billat and Christeen Taniguchi	New Tower ("NT") Submission Packet, FCC Form 620, SSF Fire Station, SF-05160C	Earth Touch, Inc.	
S-035507	OHP PRN - EPA 020813A	2008	Matthew R. Clark	City of South San Francisco Wet Weather Program Project, Section 106 Compliance for the South San Francisco Wet Weather Program: Phase II Archaeological Monitoring Report	Holman & Associates	41-002207

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
S-035507a		2003	Matthew R. Clark and Kathryn Entricken	City of San Francisco Wet Weather Program Project, Section 106 Compliance for Phase 3: The Colma Creek Bank Protection Project Archaeological Monitoring Report	Holman & Associates	
S-035507b		2007	Matthew R. Clark	City of San Francisco Wet Weather Program, Historic Properties Inventory Research and Subsurface Reconnaissance for Proposed Phase 2 Facilities (EPA 020713 A)	Holman & Associates	
S-036313		2009		Crystal Springs Pipeline No. 2 Replacement Project, San Francisco and San Mateo Counties, California: Historic Context and Archaeological Survey Report	ESA+Orion	41-000012, 41-000081, 41-000302, 41-000313, 41-000314
S-036313a		2009	Rancy S. Wiberg	Technical Report, Extended Archaeological Survey, Crystal Springs Pipeline No. 2, Segments 2 and 3 Between Sites 8 and 9, City of San Mateo and Town of Hillsborough	Holman & Associates	
S-037087		2010	James Allan	Cultural Resources Assessment of the Colma Creek Flood Control Channel Wall Repair Project, South San Francisco, San Mateo County, California (letter report)	William Self Associates, Inc.	
S-038911		2011	Randy Wiberg	Cultural Resources Surveys for the Crystal Springs Pipeline No. 2 Replacement Project (Construction Deviations Supplement) (letter report)	Holman & Associates	
S-039033	Other - Federal Aid Project No. 5177 (028)	2012	Sunshine Psota	Historic Property Survey Report, Federal Aid Proj. No. 5177 (028), Grand Avenue/Magnolia Avenue Traffic Signal in South San Francisco	Holman & Associates	
S-039033a		2012	Sunshine Psota	ASR Short Form for Local Assistance Projects, Federal-Aid Proj. No. HSIP - 5177 (028), Grand Avenue/Magnolia Avenue Traffic Signal in South San Francisco	Holman & Associates	
S-039310		2012	Lorna Billat	Collocation ("CO") Submission Packet, FCC Form 621, South San Francisco High School, Project Number: SF-19410A	EarthTouch, Inc.	
S-039631	Voided - S-39632	2011	Allen G. Pastron and Michelle Touton	Historic Context and Archaeological Survey Report for the Regional Groundwater Storage and Recovery Project Area, San Mateo County, California	Archeo-Tec	

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Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
S-039631a		2012	Allen G. Pastron and Michelle Touton	Addendum to Historic Context and Archaeological Survey Report for the Regional Groundwater Storage and Recovery Project Area, San Mateo County, California	Archeo-Tec	
S-046524	Agency Nbr - CML - 5177 (033); Voided - S-46783	2015	Sunshine Psota	Historic Property Survey Report, CML - 5177 (033), sidewalk improvements along El Camino Real in South San Francisco, San Mateo County, California	Holman & Associates	
S-048710		2017	Nichole Jordan Davis and Margo Nayyar	Confidential Cultural Resources Letter Report for the Community Civic Campus Project, City of South San Francisco, San Mateo County, California (letter report)	Michael Baker International	41-002480, 41-002481

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# APPENDIX B Native American Consultation

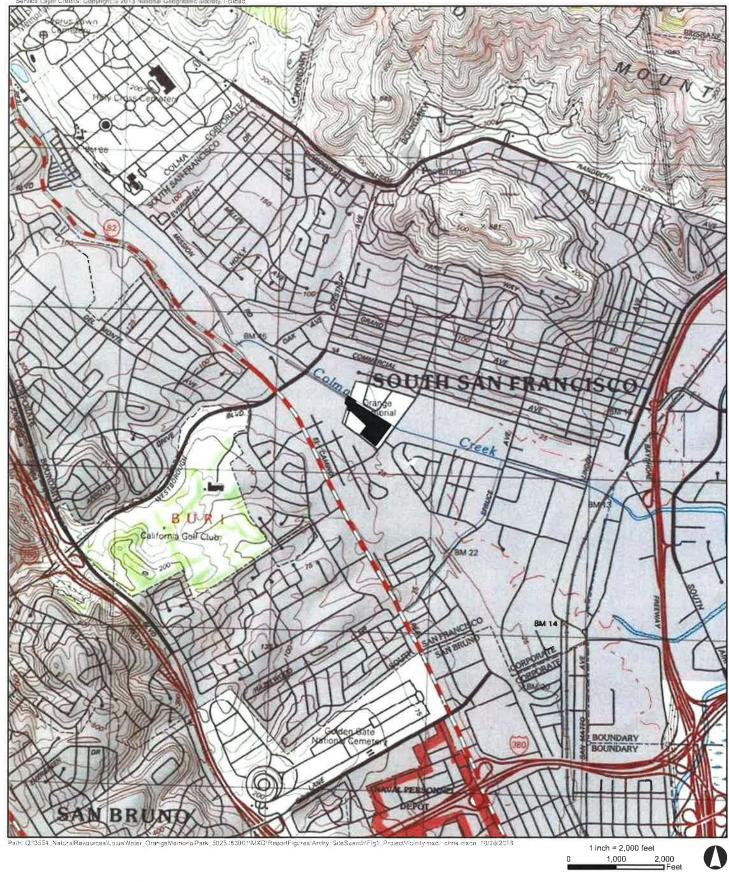
#### Sacred Lands File & Native American Contacts List Request

#### NATIVE AMERICAN HERITAGE COMMISSION

1550 Harbor Blvd, Suite 100 West Sacramento, CA 95501 (916) 373-3710 (916) 373-5471 – Fax nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project:	Orange	Memorial P	ark			
County:	San Ma	ateo				
USGS Q	uadrangle	e				
Name:	San F	Francisco So	uth			
Townshi	p:	Range:	-	Section(s):		
Company		-				
		nt & Infrastru		ons		
Contact I	Person:	Ken Victorino	0			
Street Ac	ddress:	104 W. Anap	oamu Street,	Suite 204/	4	
City:	Santa Ba	arbara			Zip:	93101
Phone:	(805) 962	2-0992	Extension:	228		
Fax:	(806) 96	6-1706				
Email:	ken.victo	rino@woodp	lc.com			
_						
Project D	<b>D</b> escriptio	on:				
<b>✓</b> Proje	ect Locati	on Map is att	ached			







# FIGURE 1

Project Vicintiy Orange Memorial Park South San Francisco, CA

#### NATIVE AMERICAN HERITAGE COMMISSION

Cultural and Environmental Department 1550 Harbor Blvd., Suite 100 West Sacramento, CA 95691 (916) 373-3710



November 5, 2018

Ken Victorino
Wood Environmental & Infrastructure Solutions

Sent by E-mail: ken.victorino@woodplc.com

RE: Proposed Orange Memorial Park Project, City of South San Francisco; San Francisco South USGS Quadrangle, San Mateo County, California

Dear Mr. Victorino:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File was completed for the area of potential project effect (APE) referenced above with <u>negative results</u>. Please note that the absence of specific site information in the Sacred Lands File does not indicate the absence of Native American cultural resources in any APE.

Attached is a list of tribes culturally affiliated to the project area. I suggest you contact all of the listed Tribes. If they cannot supply information, they might recommend others with specific knowledge. The list should provide a starting place to locate areas of potential adverse impact within the APE. By contacting all those on the list, your organization will be better able to respond to claims of failure to consult. If a response has not been received within two weeks of notification, the NAHC requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact via email: gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton, M.A., Ph.D.

gayle Totton

Associate Governmental Program Analyst

(916) 373-3714

**CONFIDENTIALITY NOTICE:** This communication with its contents may contain confidential and/or legally privileged information. It is solely for the use of the intended recipient(s). Unauthorized interception, review, use or disclosure is prohibited and may violate applicable laws including the Electronic Communications Privacy Act. If you are not the intended recipient, please contact the sender and destroy all copies of the communication.

#### **Native American Heritage Commission Native American Contact List** San Mateo County 11/5/2018

Amah MutsunTribal Band

Valentin Lopez, Chairperson P.O. Box 5272

Galt. CA. 95632

Phone: (916) 743 - 5833

vlopez@amahmutsun.org

The Ohlone Indian Tribe

Andrew Galvan, P.O. Box 3152 Fremont, CA, 94539 Phone: (510) 882 - 0527

Fax: (510) 687-9393 chochenyo@AOL.com Bay Miwok Costanoan Patwin Plains Miwok

Amah MutsunTribal Band

Edward Ketchum.

35867 Yosemite Ave Costanoan Davis, CA, 95616 Northern Valley aerieways@aol.com Yokut

Amah MutsunTribal Band of Mission San Juan Bautista

Irenne Zwierlein, Chairperson 789 Canada Road Woodside, CA, 94062

Phone: (650) 851 - 7489 Fax: (650) 332-1526

amahmutsuntribal@gmail.com

Costanoan

Costanoan

Yokut

Northern Valley

Costanoan Rumsen Carmel **Tribe** 

Tony Cerda, Chairperson 244 E. 1st Street

Pomona, CA, 91766 Phone: (909) 629 - 6081 Fax: (909) 524-8041 rumsen@aol.com

Costanoan

Indian Canyon Mutsun Band of Costanoan

Ann Marie Sayers, Chairperson P.O. Box 28 Costanoan

Hollister, CA, 95024 Phone: (831) 637 - 4238 ams@indiancanyon.org

of the SF Bay Area

Muwekma Ohlone Indian Tribe

Charlene Nijmeh, Chairperson 20885 Redwood Road, Suite 232 Costanoan Castro Valley, CA, 94546 Phone: (408) 464 - 2892

cnijmeh@muwekma.org

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Orange Memorial Park Project, San Mateo County.

# **APPENDIX C**

Geoprobe Forms



roject:	
ite No	Geoprobe #:/ Date:
rief Description	of Each Level Description (for each soil change please note
lunsell color, soil	type, compaction, moisture, degree of disturbance, amount and type
f cultural materia	l)::
100cm,	247 cm, 400cm
0-47	sandy 51/6 104/2 dre 5094 15 Bruis
47-88	med sand 10 VR 5/2 beam
7 7 400	intert
88 - 100	fine sand 10 YR 5/3 bruin
700	15 tact
100 - 165	- med sand 10 4/2 dik signish biling
	intact
165 - 17	2 fine sondy day 10/R4/3 Bruin
177 -17	7 Clay 1848 3/2 very duk zingish DIN
177 - 18	3 FIRE SOLD 1048 4/3 BILLY
195 - 18	6 sandy day 10 412 SII Wery Chileson
2016 - 7	to the characteria continue
79.0	well were to become
576 - 57	0 sandy clay 10 VIR 4/2 At 2 204156 60
520 - 55	5 fine soud roye 5/4 wellowith buy
335 - 338	3 clay 10412 3/2 my drk suy is 5 brais
5 32 - 34	5 Ane stad 10 VR 4/3 BANT
72/5 - 74/	3 clar 101/2 3/5 mil dope Enditied DAM.
548 - 37	o sand, med 10 YR 5/2 grayist brain
ermination Dep	th: <u>400km</u> Cultural Material Present (Y or N):
ustification for	Terminating Geoprobe (sterile level, bedrock, below project
npacts):	Company (Comments)
rew Chief:	Screener: Excavator:

W74C7 <

370-373cm clayey sand 1048 5/2 say 184 brain 373-400cm sand 1048 5/2 say 184 brown

appears to be naturally deposited

sand & clay from channel/creek

--- no loany soils present

--- no materials observed

--- no soils screened



Site No	rintion of	Each Leve		bbe #:			,	E N
		e, compaction						
		100 cm	100	con	4000		arre arra type	
12-54	$\mathcal{L}(I)$	1/5/1/21	5651		15	men h	11	e
54-1	85 2	1176	14014	77 /	ine	51 16.1	1 Sand	
1 .0	7	247 41	2 dr	k 5690	1165 1	Brain	1-2-1-20	ě
195 -1	9,9, ,	Sing 51	1611	sand	10410	5/3	brain	e:
188 -1	90	51/6N	0/911	10480	1/2 :	1 12 0	29/2/4/	201
190 - 1	200	120 P SI	16 1 10	9m 10	VR5/	2 515	1165 610	VV
200 -	202	5× /E ()	6/91	1000	2 4/	7 chil	549/08	1 1
207 -	204	Page 5	1001	sond /	Gye -	5/2 5	Kay 1662	br.
206-	210	SILEY	chy	10424	12 0	116 52	21 15 h	17
210 -	796	med	sahel	10 42	5/3	bekin		
794-	278	50/81/	0/9/	104/23	11 1	my d	the soay	2
798 -	300	11150	sold	104/23	78	SMIS	5 Dohn	2
306 -	309	59rdy	day	10 VR 3,	11 6	- if de	16 growy	1
309 -	327	fine's	grafy.	5/16 1	0485	72 5	7/192	P.V
577-	350	C194	101/1	5/1/	240	To ke	50-41	. ,
330 -	348	most	59901	10418	4/2	dit	5-9455	1.6
46 -	55/	c/gy,	10 916	5/1 VI	1 01	16 54	7/	2
51-	369	med	5000	10416	4/3	DEN	147	. /
564 -	56 G	2/01/	0191	10916	4/2	C/2 16	5001/15 6	12
196-	5//	med	59981	10/11/20	1/5	12146		,
57/ -	215	290d3	200	101/10	11/2	b.	5-2/42	
7-7-9	5/0	cili.	News	10 40	11/2 -	1200	1 / h	e Bullion
10-	200	orrey.	CHAY	10 /10 01	16 0		11050	5/11/
ermination	n Depth:	400cm	Cultural I	Material Pr	esent (Y	or N):	//	
ustification	n for Te	rminating (	Geoprobe	(sterile le	evel, be	drock, b	elow projec	t

# 382-400 med. sand 104R 4/3 brown

transition @ 185 cm is about mill
obvious color change - rould
possibly indicate fine siley sand
from 54-185 cm is fill
below 185 cm is intact
intact soils are clays & sands that
are insturally deposited from
channel/creek

-> no unaterials observed -> no dark losmy soil -> no soil screened



rief Description of F	ach Level Descr	<b>intion</b> (for each	soil change please no	ote
•				
•			turbance, amount and ty	he
cultural material): _/C	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	~	1cm	_
0-95	1 including	S 75ph	76-	-
95-73 511	ey sond	104/24/3	DVINO	
73-100 3	1CY (194 )	101×5/6 1	14 ch & 519415	, z
174 - 200 2	70014 SIL	10416 5/2	Luy dek Stafis	13 D
2 = 2 = 2 = 1	5 100 3990	10 410 41 5	VIV Che Soul	
72 - 745	300 1 0 14	1041 - 12	any or a Stay	59
7UT - 249	5/16/1 -19/1	10110 017	anich bun	_
249 349.	med Sad	10111 01	3 12/10 25	
348, - 357	clay 104)	23/1 1/4	dek sval	
357 - 362	5 5nd 10	VR 5/3 DV	2	
362 - 370	5216V de	101/23/	1 vey det sign	/_
370 - 382	5/Ky 59	not 10 yr 4)	13 billy	
382 - 397	m-d. 59	and 10 yr	4/3 Bruin	
	7 Sec. 20.0			1000
35 - 236 ma	y be All	(Soil lay	ers uniform)	Zex o
36 - 397 1	fact (bg	sed on c	la positions/	
<i>!!</i>	10/2/25°)			
	191 0500			<del>-</del>
- I	109my 50	3//		
7 70 5016	21748980			_
	G-7 /4		* * * * * * * /	
ermination Depth: <u></u>	Cultura Cultura	I Material Prese	nt (Y or N):	



-	f Each Level Description (for each soil change please note
•	e, compaction, moisture, degree of disturbance, amount and type
of cultural material): _	75, 299, 398
0-68	med 5500 104R 4/3 Druin
100 - 105	clours sport toye HE art consist but
30- 200	SILEN Clause I WESTS WILL day Stay
244 - 308	med sand wyrals bon
309 - 310	goody clay wyryte dit signish b
310 - 332	med sound love & 12 grayes ton
332 - 343	5,164 sand 104R 4 /3 Bin
343 - 347	sandy day love all duk grapes tons
347 - 355	5, 164 5 and 10418 5/2 grayish bin
355 - 560	51164 0/21 10 1/2 3/1 1/2 ON K 3091
360 - 575	3, 161 59nd 10412 9/3 DV9
715 - 570	2) 10 Jang 10 1/2 ) 1 = 30 1/16 JOH)
68-185	mad sand is uniform, fill?
interfore fa	2 230 is mother, Fill?
230 - 378	in tact
no de	
	aterals opsoved
-7 MO 50	oil severed
Tamain Aless Dan Ma	352 Cultural Material Present (V or N).
i ermination Depth:	<u>398 cm</u> Cultural Material Present (Y or N):



Brief Description of Each Level Description (for each soil change please note Munsell color, soil type, compaction, moisture, degree of disturbance, amount and type of cultural material):    12	Project: OMP
Munsell color, soil type, compaction, moisture, degree of disturbance, amount and type of cultural material):    12	Site No Geoprobe #: Date:
of cultural material): 72 , 252 , 597  0 - 179	Brief Description of Each Level Description (for each soil change please note
of cultural material): 72 , 252 , 597  0 - 179	Munsell color, soil type, compaction, moisture, degree of disturbance, amount and type
179-211 516 y 58nd 10 y 8 y 12 dek stay 15 ben  211-216 med 29nd 10 y 8 y 13 ben  216-233 clay 10 y 8 3/1 my dek 52ny  233-315 med 39nd 10 y 8 y 15 ben  231-336 fine 58nd 10 y 8 y 15 ben  238-392 516 y 58nd 10 y 8 y 12 dek 52ny 15 ben  242-346 51/6 y 58nd 10 y 8 y 12 dek 52ny 15 ben  246-351 516 y 58nd 10 y 8 y 12 dek 52ny 15 ben  251-351 516 y 58nd 10 y 8 y 12 dek 52ny 15 ben  251-351 516 y 58nd 10 y 8 y 2 dek 52ny 15 ben  251-351 516 y 58nd 10 y 8 y 2 dek 52ny 15 ben  251-351 516 y 58nd 10 y 8 y 2 dek 52ny 15 ben  251-351 516 y 58nd 10 y 8 y 2 dek 52ny 15 ben  261-371 10 my clay 10 y 8 3/2 vey dek 52ny 15 ben  261-371 10 my clay 10 y 8 3/2 vey dek 52ny 15 ben  261-370 med 52nd 10 y 8 y 2 vey dek 52ny 15 ben  280-597 med 52nd 10 y 8 y 2 vey dek 52ny 15 ben  280-797 med 52nd 10 y 8 y 2 vey dek 52ny 15 ben  280-697 med 52nd 10 y 8 y 2 vey dek 52ny 15 ben  280-697 med 52nd 10 y 8 y 2 vey dek 52ny 15 ben  280-797 med 52nd 10 y 8 y 2 vey dek 52ny 15 ben  280-797 med 52nd 10 y 8 y 2 vey dek 52ny 15 ben  280-797 med 52nd 10 y 8 y 2 vey dek 52ny 15 ben  280-797 med 52nd 10 y 8 y 2 vey dek 52ny 15 ben  280	THE SECOND SECON
211 - 226 med. 29nd 10 4R 4/3 bes  226 - 233 clay 10 4R 3/1 vry dr 594  335 - 315 med. 39nd 10 4R 3/3 bes  311 - 336 fine 500 10 10 4/3 bes  338 - 338 fine 500 10 10 4/3 bes  338 - 342 51EY 500 10 10 10 10 10 10 10 10 10 10 10 10 1	0-179 5111 send then class
211 - 226 med. 3and 10 yk 4/3 bes  226 - 233 clay 10 yk 3/1 vry dek 5-ay  233 - 315 med. Sand 10 yk 5/3 bes  311 - 336 fine 5-ad 10 yk 4/3 bes  338 - 338 fine 5-ad 10 yk 4/3 bes  338 - 338 fine 5-ad 10 yk 4/2 dek 5-ay  342 - 346 31/6 clay 10 yk 3/2 vry dek 5-ay  342 - 346 31/6 clay 10 yk 3/2 vry dek 5-ay  341 - 351 51/6 y 5-ad 10 yk 4/2 dek 5-ay  351 - 351 51/6 y 5-ad 10 yk 4/2 dek 5-ay  351 - 351 51/6 y 5-ad 10 yk 4/2 dek 5-ay  361 - 371 10 my clay 10 yk 3/2 vry dek 5-ay  371 - 378 51/6 y 5-ad 10 yk 3/2 vry dek 5-ay  378 - 380 10 any clay 10 yk 3/2 vry dek 5-ay  378 - 380 10 any clay 10 yk 1/2 dek 5-ay  380 - 597 med 5-ad 10 yk 4/2 dek 5-ay  380 - 597 med 5-ad 10 yk 4/2 dek 5-ay  517 - 211 fill? portion mother, previously 5-an  510 501 50 comed  Termination Depth: 377cm Cultural Material Present (Y or N):  Justification for Terminating Geoprobe (sterile level, bedrock, below project)	179-711 51/6 4 590d 10 VP 4/2 Ack charges from
311 - 336 Fire Sand 10/R 9/3 by 336 - 338 fine Sandy clay 10/R 3/2 vry dele say 37 336 - 338 fine Sandy clay 10/R 3/2 vry dele say 37 338 - 392 51/64 sand 10/R 9/7 dele say 45 by 392 51/64 51/	311 - 226 uned sand 10 VR 4/3 bon
311 - 336 Fire Sand 10/R 9/3 by 336 - 338 fine Sandy clay 10/R 3/2 vry dele say 37 336 - 338 fine Sandy clay 10/R 3/2 vry dele say 37 338 - 392 51/64 sand 10/R 9/7 dele say 45 by 392 51/64 51/	776-733 plan 1048 3/1 very obk seal
338-392 SILEY SAND ICYPE 4/2 dele search Ben 342-346 31/64 Clay 1048 3/2 very dele search ben 346-351 SILEY SAND 10/12 dele search ben 351-357 SILEY SAND 10/12 dele search ben 367-371 Johns Clay 1048 3/2 very dele search ben 367-371 Johns Clay 1048 3/2 very dele search ben 371-378 SILEY SAND 1048 3/2 very dele search ben 370-380 Johns clay 1048 3/2 very dele search ben 380-597 med. SAND 1048 4/2 very dele search ben 380-597 med. SAND 1048 4/2 very dele search ben 179-211 Fill? partion mother, partion (intorm below 211 appears to be interestly deposited day 5 sand -> 20 day k loany soil -> 20 materials obser  Termination Depth: 3970m Cultural Material Present (Y or N):  Justification for Terminating Geoprobe (sterile level, bedrock, below project	233 - 315 med. sand 104R 3/3 pro
338-392 SILEY SAND ICHIE 4/2 dale search Bun 342-346 31/24 Clay 1048 3/2 my dale search bun 346-351 SILEY SAND 10/12 dale search bun 351-357 SILEY SAND 10/12 dale search bun 367-371 Johny Clay 1048 3/2 vey dale search bun 367-371 Johny Clay 1048 3/2 vey dale search bun 371-378 SILEY SAND 1048 3/2 vey dale search bun 370-380 Johny clay 1048 3/2 vey dale search bun 370-380 Johny clay 1048 3/2 vey dale search bun 380-597 med sand 1048 4/2 vey dale search bun 380-597 med sand 1048 4/2 vey dale search bun 370-211 Fill? partion mother previously search Delow 211 appears to be interestly deposited days sand	515 - 521 clay 10 VR 5/1 Way dok 5001
338-392 SILEY SAND ICHIE 4/2 dale search Bun 342-346 31/24 Clay 1048 3/2 my dale search bun 346-351 SILEY SAND 10/12 dale search bun 351-357 SILEY SAND 10/12 dale search bun 367-371 Johny Clay 1048 3/2 vey dale search bun 367-371 Johny Clay 1048 3/2 vey dale search bun 371-378 SILEY SAND 1048 3/2 vey dale search bun 370-380 Johny clay 1048 3/2 vey dale search bun 370-380 Johny clay 1048 3/2 vey dale search bun 380-597 med sand 1048 4/2 vey dale search bun 380-597 med sand 1048 4/2 vey dale search bun 370-211 Fill? partion mother previously search Delow 211 appears to be interestly deposited days sand	371 - 336 FIDE SAND 104R 4/3 bus
311-318 Siky Stool (OYR 3/2 Vey Ork Scaysh but) 378-380 loany clay (OYR 3/2 Vey Ork Scaysh but) 380-397 med Sand loyr 4/2 dek scay (56 ben)  (3) 179 face is orange clay not previously seen 179-211 fill? portion mothled, portion (inform below 211 appears to be instructly deposited clay some some some state of the seed	336 - 338 fine sandy day 10412 3/2, vry dete sugy 57
311-318 Siky Stool (OYR 3/2 vey Oek Scaped by 378-380 loany clay (OYR 3/2 vey Oek Scaped by 380-597 med Sand loyr 4/2 dek Scaped by be appears to be appeared.  Termination Depth: 371cm Cultural Material Present (Y or N):  Justification for Terminating Geoprobe (sterile level, bedrock, below project)	338-342 SILLY SAND 10412 4/2 del sear its Bun
311-318 Siky Stool (OVR 3/2 Very Out Scapes ben 378-380 loany clay (OVR 3/2 Very dux 3/ay/56 ben 380-597 med 5and loyk 4/2 dek 3-ay/56 ben 380-597 med 5and loyk 4/2 dek 3-ay/56 ben 179-211 fill? portion mothled, portion (antom below 211 appears to be repturelly deposited clay 5 second and sold scaped Termination Depth: 371cm Cultural Material Present (Y or N):  Justification for Terminating Geoprobe (sterile level, bedrock, below project)	342 - 346 31/64 CAY WIR 3/2 my det grayed by
311-318 Siky Stool (OYR 3/2 Vey Oek Scaped by 378-380 loany clay (OYR 3/2 Vey Oek Scaped by 380-397 med Sand loyr 4/2 dek scaped by be some some clay not previously some some some some some some some some	746-351 SILLY SAND 10/12 HIR SIGNISH DELS
311-318 Siky Stool (OYR 3/2 Vey Ork Scaysh but) 378-380 loany clay (OYR 3/2 Vey Ork Scaysh but) 380-397 med. Sand loyR 4/2 dek scays but  380-397 med. Sand loyR 4/2 dek scays but  179-211 fill? portion mothled, portion contourn  below 211 appears to be instructly deposited clay is seen	351-357 51ty clay 10823/2 vey dek suy 11/2 toe
311-318 Siky Stool (OYR 3/2 Vey Oek Scaped by 378-380 loany clay (OYR 3/2 Vey Oek Scaped by 380-397 med Sand loyr 4/2 dek scaped by be some some clay not previously some some some some some some some some	357-367 SIRY Stand 10/12 4/2 dok gray ish bun
Termination Depth: 377cm Cultural Material Present (Y or N):  Justification for Terminating Geoprobe (sterile level, bedrock, below project)	367-371 Johny clay 10/R 3/2 VVY clak sigyish bug
Termination Depth: 377cm Cultural Material Present (Y or N):  Justification for Terminating Geoprobe (sterile level, bedrock, below project)	311-318 SIRY 34nd (OVR 3/2 V-Y OVR 304/154 Bly
Termination Depth: 371cm Cultural Material Present (Y or N):  Justification for Terminating Geoprobe (sterile level, bedrock, below project)	510 - 380 10 any chay 10 ye 16 1/1 are 3/91/159 Den
Termination Depth: 371cm Cultural Material Present (Y or N):  Justification for Terminating Geoprobe (sterile level, bedrock, below project)	380 - 38 Med. 5990 104K 916 OPK 3094 159. DEL
Termination Depth: 371cm Cultural Material Present (Y or N):  Justification for Terminating Geoprobe (sterile level, bedrock, below project)	(9) 179 there is orange day not previously seen
Termination Depth: 377cm Cultural Material Present (Y or N):	179-211 All? portion mothled, portion unitorm
Justification for Terminating Geoprobe (sterile level, bedrock, below project	below 211 appears to be naturally deposited days so
Justification for Terminating Geoprobe (sterile level, bedrock, below project	-> To dark loamy soil -> no materials dos
Justification for Terminating Geoprobe (sterile level, bedrock, below project	-7 MO Soil Scherford
	Termination Depth: 3910m Cultural Material Present (Y or N):
impacts):	Justification for Terminating Geoprobe (sterile level, bedrock, below project
	impacts):



Project: OMP	<u></u>
Site No Geoprobe #: Date:	
Brief Description of Each Level Description (for each soil change please no	te
Munsell color, soil type, compaction, moisture, degree of disturbance, amount and type	е
of cultural material): 123, 237, 3/5	<del></del>
0 - 94 fill noteding small rocks Cop to 1	30
94 - 107 med and 104/2 dok grayish bun	_
107 - 176 51ky 5 and 10 yr 3/2 vry dot grayes by	
176 -180 SILLY Clay OVE 2/1 My det 5091	-
180 - 194 51164 5and 164R. 3/2 Wy dik son/184 184	_
194 - 200 clayey sand 10/123/2 Voy coll 500/16/2 500	
708 - 230 Fine and WYR 3/2 Well dak 200/ 155 to	
230 - 237 clayey 104R3/1 Wy date son/	_
237 - 147 Well soud 1042 4/3 bun	_
291-171 Smay 5/1/E 10/12 4/13 000	_
271 - 278 mal. 39nd 10 12 4/4 dek yollows 5 De	7
201 - 201 SITEY 500 1040 SIE WY CHE STY 1847 DE	2_
281 - 274 Med. 2990 1042 4/3 BVD	
300-315 med sond 10 48 4/4 dek yellowish be	5
appears to be alternating layers of day	_
The manual deposited flore event	_
-> no materials observed	
papelastoric occapation	_
- 20 5015 STURENCE	_
Termination Depth: 3/50n Cultural Material Present (Y or N):	_
Justification for Terminating Geoprobe (sterile level, bedrock, below projection)	ect
impacts): Excavator: Coscale	_
Crow Chief: KDI/ Sergonor: Excavator: Coscarle	et.



Site No.	Geop	robe #:	Date:	113/19
Brief Description of E	Each Level Descri	otion (for each	soil change	please note
Munsell color, soil type,	compaction, moistur	e, degree of distu	urbance, amo	unt and type
of cultural material):/	30,210,30	25		
0-114 116	1 -> bo Hous	2 5011 13	color	& textu
406	previoush	1 observe	d	*
114-11 5118	by day 18	123/1 vy	dek c	194
121-130 mea	1. 59nd 104k	9/3 600		
150 - 139 men	1. 59nd 1041	5/3 bun		
139-144 500	dy 3116 104	R4/2 del	Sury	5 BM
144 - 191 mea	1', 5 god 104	12 4/2 duk	Sidylist	2 010
191-199 c/a	184 59nd 10%	12 3/1 W/Y	duk 3	1911
174 - 298 med	d. 59nd 10 V	2 4/2 duk	991/1569	Bro
218 - 155 ch	31 1042 311	Very AK	3091	SUBMERS
155 - 116 By	ed. 5900 10	YR 3/3	de le lart	1/
772 - 775 91	free motions ""	11000 1918	16 100	7000 7 CF
7911 - 7015 1	<u> </u>	110 5/3 0	742 000	
795 - 70	<u> </u>			
776 - 797	Walse Sano	1		
797 150 307 5	161 sand	10 VECILO	Let sin	uch bear
307-311 51	184 clay	10 VD 3/1 12	y det	can I
	and sand	10 VR 3/2 "	Very det	about state
				11
- below 121	are notural	114 deposi	tel ho	YESOF
clay \$ 50	mel	/ /		
y no materi	19/ 10	drile 100	the amount	40 XEPR
Termination Depth:	75cm Cultural	Material Presen	t (Y or N):	N
Justification for Tern	ninating Geoprob	e (sterile level,	bedrock, b	elow project
impacts):				



Project: OMP	
Site No.	Geoprobe #: Date:
Brief Description of Each	Level Description (for each soil change please note
Munsell color, soil type, comp	paction, moisture, degree of disturbance, amount and type
of cultural material):	220,305
0-91 111	
91-98 51645	mel 10484/3 500
18 -100 day 1	164R3/1 vey dek 500/
100-108 "miles	hypers" of sand & chy
108-110 cty.	10 1/2 3/1 Voy clok 3034
110-120 wied.	5-4701 10/R 5/3 Drin
130 134 51/61/	sond love of class stay is to the
1 199-198 SIRVY C	194 1018 3/1 1/1 OFE SUM
130-137 5/184 3	That 10/16 STG offe yellows of Day
151-161 2/164 5	THE TOTAL STATE OF THE
171-199 1000	for south count & chal
198 - 200 Sandy	login love sti wy date sign
- 200 - 245 "Asian	last as I of sand & class
745 - 748 clare	sand 1041. 2/2 Very det bro
249, -766 med	Spect 10 VE 4/3 /20
246-268 dayer	39nd 10/12 3/1 W/ chik 5+4/
768 -305 "Micro	laves" of smel & char
peloni 91 appea	s to be unturnly deposited
- no moterial	s observed
-> 40 dork 1	nam soil associated Alloccupation
- no 5011 5	Con or or
Termination Depth: <u>3050</u>	Cultural Material Present (Y or N):
Justification for Terminat	ting Geoprobe (sterile level, bedrock, below project
impacts):	
Crow Chief: 101211	Screener: Excavator: Cascado



Project: OMP
Site No Geoprobe #: Date:
Brief Description of Each Level Description (for each soil change please note
Munsell color, soil type, compaction, moisture, degree of disturbance, amount and type
of cultural material): 135, 295, 390
0-96 Fill (bottom lever is sery day
not previously seen)
96-107 5/64 5md 10/84/2 det 500/154 Den
107-111 siley loam 10/183/2 my dek graners b
111-115 51/EV 5500 104R4/2 det 503485 Bro
115-120 5/64 day 10423/1 wy dut 500/
120-216 mod. 59nd 10412 4/4 dek yollowish bun
716-030 cogose sand 10 1/2 5/3 bord
730 - 257 med 590d 104R 3/3 dek byg
257 - 259 59ndy SILE 10/R 3/1 Very de & 5091
259-764 cogise sond 10423/2 1/4 dule 3/21/1551
7641 - 282 med. sand IOYR 3/2 yeary dark grayish but
262-284 silty day IOYR 31 very dark gray
284-311 med. said. 1018 4/3 brown
311-312 sitty send 104R 4/2 dark grayet brown
312-340 med. sand 104R-4/3 brown.
the state of the state of the state of
naturally deposited layers of day & sand
as social test in force
-> 40 dark logmy 5011
-> no materials abserved
//
Termination Depth: 390 CM Cultural Material Present (Y or N):
Justification for Terminating Geoprobe (sterile level, bedrock, below project
impacts):
Crew Chief: KDV Screener: Excavator: Cascada



Project: OMP
Site No Geoprobe #: 10 Date: _3 /14/19
Brief Description of Each Level Description (for each soil change please note
Munsell color, soil type, compaction, moisture, degree of disturbance, amount and type
of cultural material): 120, 245, 370
0- 151 fill incl. crushed asphilt & converte
151- 178 fine sand 10/24/2 dok gray 159 ben
178-182 Fine Souly chay 104R 3/1 Vry dark gray
182-232 mrd 590d 1848 4/2 dek sunfish Bin
232-239 Any 104163/1 Way duk Sani
659-516 med 59nd 10416 5/5 del 104
366 -361 SHEY CLAY TOTA STI WILL STATE
2311 - 375 Soldy day 1041 Ste Viry elec 5194159 Org
335 - 345 51164 could 1040 312 who diek outside how
345 - 346 C/21 LOYR 3/1 very dark aray
346-359 silty sand 10/R 3/2 very dark grayish brown
369-370 med. sand 5/4/1 dark gray. submosgral? How
below 151 appears to be alternation
19/005 OF hahvally deposited sand &
clay associated in force
-7 no materials observed
-1 no dark logary soil
110 501/5 Serpence
Termination Depth: Cultural Material Present (Y or N):
Justification for Terminating Geoprobe (sterile level, bedrock, below project
impacts):
Crow Chief: IDV Screener: Excavator: Consider



Project: OMP	·
Site No.	Geoprobe #: _// Date: _3 /14/19
Brief Description of	Each Level Description (for each soil change please note
Munsell color, soil type,	, compaction, moisture, degree of disturbance, amount and type
of cultural material):	120, 250, 375
0-102 Fil	11 w/compacted servers
102-120	my so lay from of sond f clay
170 - 240 1	ned. 59nd 10/12 5/3 pro
240 - 242	191 1012 3/1 my duk gogy
247 - 321 A	264 2200 10/8 1/5 dole 2001/120 120
2211-320 11	(09-5P 59-71)
376 - 236- 1	med sand werests det ton
335 - 336	day 10 VD 3/1 VM det soon
336 - 345	fire sand love all the start by
345 - 347	SILEY clay 104R 4/1 det sony
347 354	SILEY SSHOT ISYR 3/2 VIN dife Sugy of
354- 355	SIEN clay 10 YR 3/1 vey dik gray
355 - 363 /	110,0 3, 164 Sand 10/18 4/2 det sugy 156 B
363 - 375	51/6 51/6 4/1 dok 300/ 50 DINEN
-	5/0050
- notivally	1 demosted soil hours below 102
-7 5/16 gt	bottem may have been submerse
at som	point, significate steet
-	
	tought absorved
	Screpard
Termination Depth:	375 cm Cultural Material Present (Y or N):
Justification for Ter	rminating Geoprobe (sterile level, bedrock, below project
impacts):	
Crew Chief: KDV	=2



	Project: OMP
	Site No Geoprobe #: Date:
	Brief Description of Each Level Description (for each soil change please note
	Munsell color, soil type, compaction, moisture, degree of disturbance, amount and type
	of cultural material):/25 295 370
	0-83 fill; bottom layer is gray soil
	32-96 mad 55 d that 512 and 15 h
١,	06-97 mare sand
V	97 - 105 Propo sand 104R 4/2 chek 3497065 bro
	105 - 106 day 10 VR S/1 W/ dule sign
	106 - 116 From sand 1048312 von dek charles by
	116-11 clay 10418 3/1 very dele segui
į	117 - 160 med 39nd 10/12 4/5 bob
.) \	160 - 163 Fine sandy clay 104R 4/2 dek 300/154 bis
	163-188 Fine sand 10 4R 4/2 dek sogy is buy
,	188 -191 fine dayay sand love 5/2 why dok buy
	191-710 Fine small 104R 3/2 my dute suggest by
	210 - 216 51/EN 554d 104R 4/3 Bun
	216 - 300 med sand loute 4/2 dek gray 164 bun
	300 - 305 clay wiforganics 10/12 5/1 viny dek sign
	305 - 314 med sond layer 4/2 duke stortich bis
	34 - 370 91/Ey day 10/12 4/1 dele stay
	370 - 350 med sand 104R 4/2 d-K scayech bin
	350 - 352 fine sand 10/R 3/2 Wy due segyish Dra
1	352 - 357 Fine Sand 51 3/1 Nov ) Clarke Soul
1	357 - 359 Fine sondy olay 54 5/1 vey de & sony
/.	359-361 fine sand 543/1 Vay dek son/
200	Termination Depth: Cultural Material Present (Y or N):
SC DWNS	Justification for Terminating Geoprobe (sterile level, bedrock, below project
12	impacts):
	9
	Crew Chief: Screener: Excavator: Cococie

Fine sandy olay 54 3/1 vry chk 5091/ 361-362 362 - 370 med sand 54 3/1 my duk 5494

. intact, natoually-deposited layers · below 352 may have been submassed at some point, simples to stock -> no materials observed -> no dark, developed soil

-7 40 SCUEENISS



MAD

	Project:
	Site No Geoprobe #: Date:
	Brief Description of Each Level Description (for each soil change please note
	Munsell color, soil type, compaction, moisture, degree of disturbance, amount and type
	of cultural material): 125 , 250 , 375
	0-90 411
T	90 - 110 fine sand 10484/2 det sony 15 5 big
	110 - 113 Fine sanly day 1042 ste very date some
1	113-152 fine smel love all out grayes ben
	152-157 orders layers of clay & fine sand
	157-160 Fine sound loye 4/2 cloke genyers ben
	160-180 Fine Sand 10 YR 3/C Vary chile gray 15 9 bear
	194 -198 "MICHO POLONS" OF CON & POSE SONO
	193 -195 51/EU 109my 10/R4/2 Chk 5/94/55 Bin
1	201 - 201 MAI. 59501 10416 4 13 124
1	201-767 Place Sitely chap 10/12 5/2 Viry Olike 529/165000
	704-15 Cine conductor WIR 3/7 your det south he
	705-775 med send lave 5/3 been
-	775 - 739 mal sand 10 MR 4/2 dek seguis 5 bun
V	239 - ZEB clay WYR 3/1 very det soul
6	213-282 Find Sond EVR \$13 bun
1	28.7 293 clayer sond loye 4/2 dik say 55 bin
A BOOK	293 -300 wed sound love love girl dik yellouish be
	300 - 303 coarse sand
	53 -313 wed sand 10484/3 bun
	313-321 51/Ey chap 10/R3/2 vry due goayor bun
	321-332 med 592 10 VR9/3 bra
	Termination Depth: Cultural Material Present (Y or N):
	Justification for Terminating Geoprobe (sterile level, bedrock, below project
	impacts):
	Crow Chief KRM Saranary - Evaporary C43 C4/0

332-335 conse sond
335-348 med. sond
10/R 5/3 bun
348-351 clayey silt
10 YR 4/2 dek sun/sch bun
351-357 "micro layers" of sonds & clay
357-360 conse sond
366-375 med. sond
10/R 5/3 bun

below 90cm appears to be naturallydeposited soil layers associated will the creek

-> no materials observed
-> no materials observed
-> no clark, developed soil indicative of
exposed surface will occupation

-7 no soils screened



Project:OMP	
Site No Geoprobe #: 14 Date: 3/14/19	
Brief Description of Each Level Description (for each soil change please note	
Munsell color, soil type, compaction, moisture, degree of disturbance, amount and type	
of cultural material): 125, 250, 370	
0-53 611	
53-79 med 534d 10412 9/2 dik grayishb	-
79-81 sand day 104R 2/2 vey det bys	
81 - 111 med 590d 10 V10 4/3 Br	
111-116 fine sand 104/2 che sagges & bun	
116-198 med. 519d 10/184/2 dole 3/5/184 Bin	
1418-152 "MICO PAYERS" OF SONO & clay	
15 1-203 " micro fayers" of Figo sand to	
222 222 1 00 d 10 40 11 to det - 14 10 11 10	
223 - 227 fine conder what to NO \$ 13 mm Like con to	buy
222 - 221 med sand love of by	1.20
771 - 774 are some clay 10 VI 4/2 det consist be	27
774-788 5/164 Sport 10 41 3/3 dell bus	*
198-795 dall loye 3/1 von dek son!	
295 - 303 Fine sand 104/24/2 duk smylish bin	
303 - 304 day 10423/1 yes dak 5091	
304-309 Sordy 5116 104R 4/1 date sony	
309 - 370 Fine sand 10 VR 4/2 dek sompests bus	
320 - 323 clayey silt 10 YR 3/2 Wy dell grayes 5/	14
323 - 327 med sand love 3/2 Very dele grafish	2 47
327 - 332 Agyay sand 10412 3/1 vey duk sugy	( )
332-340 wood, 5900 10/R3/2 voy dek 50 1/180	Din
Termination Depth: 370 Cm Cultural Material Present (Y or N):	
Justification for Terminating Geoprobe (sterile level, bedrock below project	)
impacts):	
Crew Chief: KDV Screener: Excavator:	5

355 - 358 clased sond

104/2 3/4 dik yellowich bin

355 - 358 clased sond

104/2 3/1 my dik 500/

358 - 370 sandy sile

104/2 2/2 my dik bus

below 53 appears to be noturally - deposited, alternations layers of sand & clay or silt associated u/creek

-> no materials observed -> no dack, developed soil -> 40 screening