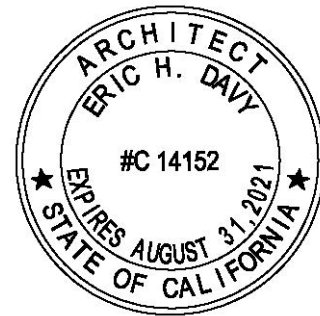


District: San Bernardino City Unified School District  
Project: San Bernardino High School – Bldg M “Maker Space”  
DSA A#: 04-118980  
Bid #: F21-04  
Davy #: 1842

May 28, 2021



Davy Architecture  
1053 10<sup>th</sup> Ave.,  
San Diego, CA 92101

**PART 1 - General**

- 1.1 This Addendum is generally separated into sections for convenience; however, all contractors, subcontractors, material suppliers and other involved parties shall be responsible for reading the entire Addendum.
- 1.2 The following revisions and/or clarifications shall be made to the Bidding Requirements and Contract Documents. Revise and amend the Documents for the above-named project in accordance with this Addendum. All other requirements remain unchanged.
- 1.3 The bid shall reflect these addendum changes and shall be noted on the bid form.
- 1.4 Additions and clarifications:
  - A. The following additions and clarifications are issued to all bidders as information for use in preparing bids:
    1. "Phase I Environmental Site Assessment Report" by Converse Consultants, dated May 31, 2018. (325 pages)
    2. "Phase II Environmental Site Assessment Report" by Converse Consultants, dated May 12, 2021. (69 pages)
    3. Project estimate is \$6,000,000.00.
    4. Project duration is 360 calendar days.
    5. Bid documents and contract documents, including specifications, may be viewed and ordered through Crisp Imaging Planwell Service online by clicking on 'PUBLIC PLANROOM' at [www.crispimg.com](http://www.crispimg.com). Click on "Planwell Services" at the top. Click "Go>" under "Public Planroom." Project Number is F21-04.  
Crisp Imaging  
3180 Pullman Street  
Costa Mesa, CA 92626  
Phone: (866) 632-8329  
Public Plan Room: [www.crispimg.com](http://www.crispimg.com)
    6. Revise RFI due date to Wednesday, June 30, 2021 at 4:00pm.
    7. Revise Pre-Qualification Application Due to Thursday, July 8, 2021 at 4:00pm.
    8. Revise Pre-Qual Notice to Bidders to Thursday, July 15, 2021.

9. Revise Bid Opening date to Thursday, July 22, 2021 at 2:00 pm.
10. Revise Bid Posting to Facilities Website to Friday, July 23, 2021.

**PART 2 - Project Manual**

2.1 Changes to the Table of Contents:

- A. DIVISION 00 – Procurement and Contracting Requirements
  1. Delete Section 00 01 15 List of Drawing Sheets.
  2. Add 00 10 00 District Procurement and Contracting Requirements
- B. DIVISION 01 – General Requirements:
  1. ~~Delete Section 01 10 00 Summary.~~
  2. Add Section 01 11 00 Summary of Work.
  3. Add Section 01 11 14 Work Sequence and Phasing.
  4. Add Section 01 11 40 Work Restrictions.
  5. Add Section 01 20 00 Price and Payment Procedures.
  6. Add Section 01 25 13 Product Substitution Procedures.
  7. Add Section 01 26 00 Contract Modification Procedures.
  8. Add Section 01 30 00 Administrative Requirements.
  9. Add Section 01 31 00 Project Coordination and Meetings.
  10. Add Section 01 32 16 Construction Progress Schedule.
  11. Add Section 01 33 00-1 Supplemental Submittal Procedures.
  12. Add Section 01 35 16 Alteration Project Procedures.
  13. Add Section 01 43 00 Quality Assurance.
  14. Add Section 01 45 00 Quality Control.
  15. Add Section 01 45 15 Health and Safety Requirements.
  16. Add Section 01 45 23 Testing and Inspection.
  17. ~~Delete Section 01 50 00 Temporary Facilities and Controls.~~
  18. Add Section 01 52 00 Construction Facilities.
  19. Add Section 01 57 00 Temporary Controls.
  20. Add Section 01 57 13 Temporary Erosion and Sediment Control.
  21. ~~Delete Section 01 60 00 Product Requirements.~~
  22. Add Section 01 60 00 Materials and Equipment.
  23. Add Section 01 61 00 Product Requirements.
  24. ~~Delete 01 70 00 Execution and Closeout Requirements.~~
  25. Add Section 01 71 23 Field Engineering.
  26. Add Section 01 77 00 Closeout Procedures.
  27. Add Section 01 78 36 Warranties and Bonds.
  28. Add Section 01 78 39 Project Record Documents.

2.2 Specification Sections Issued:

- A. Division 01 General Requirements: Replace entire Division with revised Division 01 attached.

2.3 Narrative Changes to Specifications:

- A. Division 00, Notice of Inviting Bids. Modify this section as follows: Page 2, remove “Mr. Joel C. Lazaro via email at [jlazaro@davyarchitecture.com](mailto:jlazaro@davyarchitecture.com).” and replace with “Ms. Jennifer Timmons via email at [jtimmons@davyarchitecture.com](mailto:jtimmons@davyarchitecture.com)”

**PART 3 - Drawings:**

- 3.1 None.

**PART 4 - Enclosures:**

- 4.1 "Phase I Environmental Site Assessment Report" by Converse Consultants, dated May 31, 2018. (325 pages)
- 4.2 "Phase II Environmental Site Assessment Report" by Converse Consultants, dated May 12, 2021. (69 pages)
- 4.3 Project Manual - Table of Contents (5 pages)
- 4.4 Specification Division 01 (168 pages)

**End of Document**





## **Phase I Environmental Site Assessment Report**

**San Bernardino High School Classrooms M1-M4  
1850 North E Street  
San Bernardino, California**

**Converse Project No. 18-16-106-01  
May 31, 2018**

**Prepared For:**

**San Bernardino City Unified School District (SBCUSD)  
956 West 9th Street  
San Bernardino, California 92411**

**Prepared By:**

**Converse Consultants  
2021 Rancho Drive, Suite 1  
Redlands, California 92373**





# Converse Consultants

Geotechnical Engineering, Environmental and Groundwater Science, Inspection and Testing Services

May 31, 2018

Mr. Tim Deland  
San Bernardino City Unified School District (SBCUSD)  
956 West 9th Street  
San Bernardino, California 92411

**Subject: PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT**  
1850 North E Street  
San Bernardino, California  
Converse Consultants Project No. 18-16-106-01

Mr. Deland:

Converse Consultants (Converse) is pleased to submit the attached report that summarizes the activities and the results of a Phase I Environmental Site Assessment (Phase I ESA) that was conducted at the referenced property.

A summary of the assessment is presented in the Executive Summary, as well as in Sections 8.0, 9.0, and 10.0 of the report. Recognized Environmental Conditions were identified during this assessment.

We appreciate the opportunity to be of service. Should you have any questions or comments regarding this report, please contact Sue Krobthong at (626) 930-1224 or Norman S. Eke at (626) 930-1260.

## CONVERSE CONSULTANTS

Sue Krobthong  
Project Environmental Scientist

Norman S. Eke  
Senior Vice President/Managing Officer

# Executive Summary

The following is an Executive Summary of the Phase I Environmental Site Assessment (Phase I ESA) that was conducted by Converse Consultants (Converse). Please refer to the appropriate sections of the report for a complete discussion of these issues. In the event of a conflict between this Executive Summary and the report, or an omission in the Executive Summary, the report shall prevail.

This report presents the results of the Converse Phase I ESA performed at 1850 North E Street in the City of San Bernardino, San Bernardino County, California, referred to as the Property in this report. Converse was retained by San Bernardino City Unified School District (SBCUSD) to conduct this Phase I ESA. Our study has been conducted in order to identify, to the extent practical within the scope of an ESA, Recognized Environmental Conditions (RECs) in connection with the Property.

Converse has compiled and reviewed information that was obtained from interviews, document research, and on-site and area reconnaissance to identify potential environmental conditions at the Property, in conformance with the ASTM Standard E: 1527-13 Environmental Site Assessment Standard Practice (ASTM Standard: E1527- 13). This Phase I ESA was conducted during the period of February 8, 2018 to May 31, 2018.

Report Section		No Further Action	REC	CREC	HREC	Other Environmental Considerations	Recommended Action
3.0	USER PROVIDED INFORMATION & RESPONSIBILITIES	✓					
5.2.5	Summary of Historical Property Use		✓				Machine shop operations were noted from as early as 1950 until at least 1969. Phase II
5.2.6	Summary of Past Uses of Adjoining Properties	✓					
5.2.7	Summary of Past Uses of the Surrounding Area	✓					



Report Section		No Further Action	REC	CREC	HREC	Other Environmental Considerations	Recommended Action
5.3.1	Property Listings		✓				Auto Body Shop/Machine Shop Operations. Phase II.
5.3.2	Adjoining Properties	✓					
5.3.3	Other Off-site Locations of Concern	✓					
5.4	Additional Environmental Record Sources	✓					
6.3	Interior Observations of Property	✓					
6.4	Exterior Observations of Property		✓				A clarifier, formerly associated with auto body shop operations is located to the east of Building M3. Phase II
6.5	Current Uses of Adjoining Properties	✓					
6.6	Current Uses of Surrounding Area	✓					



Report Section		No Further Action	REC	CREC	HREC	Other Environmental Considerations	Recommended Action
7.0	INTERVIEWS		✓				The Property has been used for auto body shop/machine shop class from as early as 1938. Phase II



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# 1.0 INTRODUCTION

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## ***1.1 Purpose and Scope of Services***

This report presents the results of the Converse Consultants (Converse) Phase I Environmental Site Assessment (ESA) performed at Classrooms M1-M4 located at the San Bernardino High School located at 1850 North E Street in the City of San Bernardino, San Bernardino County, California, referred to as the Property in this report. Converse was retained by San Bernardino City Unified School District (SBCUSD) to conduct this Phase I ESA. Our study has been conducted in order to identify, to the extent practical, Recognized Environmental Conditions (RECs) in connection with the Property. The term Recognized Environmental Conditions is defined in Section 1.1.1 of the American Society of Testing and Materials (ASTM) Standard Practice as the presence or likely presence of any hazardous substances or petroleum products in, at or on a property due to any release to the environment; under conditions indicative of a release to the environment; under conditions that pose a material threat of a future release to the environment.

This Phase I ESA was completed in accordance with our proposal dated February 8, 2018. Our work consisted of the following and was completed in general conformance with the scope and limitations of the ASTM Practice E1527-13 and complies with standards and practices set forth in 40 Code of Federal Regulations (CFR) Part 312 for AAI.

- Interviews with the Property owner representatives
- Property and vicinity reconnaissance
- Review of regulatory agency records
- Description of physical setting
- Historical review
- Interviews with public agency personnel
- Preparation of this report

## ***1.2 Non-Scope Considerations***

There are a number of non-scope issues which are sometimes assessed concurrently with a Phase I ESA. Unless specifically agreed in the contract proposal documents,



these non-scope considerations are not included as part of the Phase I ESA. Examples of non-scope issues include:

- Asbestos-containing building material
- Lead-based Paint
- Lead in Drinking Water
- Wetlands
- Cultural & Historic Resources
- Radon
- Regulatory Compliance
- Ecological Resources
- Industrial Hygiene
- Health & Safety
- Mold
- Diffuse Anthropogenic Pollution
- Endangered Species
- Indoor Air Quality
- Biological Agents
- Non-liquid Polychlorinated Biphenyls

### ***1.3 Significant Assumptions***

No assumptions were made for this assessment that need to be noted as significant.

### ***1.4 Limitations and Exceptions***

There were no limitations or exceptions during this assessment.

### ***1.5 Special Terms and Conditions***

No other users were identified.



## **1.6 Reliance**

This report is for the sole benefit and exclusive use of San Bernardino City Unified School District (SBCUSD) in accordance with the terms and conditions attached to our proposal under which these services have been provided. Its preparation has been in accordance with generally accepted environmental practices. No other warranty, either express or implied, is made. The Scope of Services associated with the report was designed solely in accordance with the objectives, schedule, budget, and risk-management preferences of San Bernardino City Unified School District (SBCUSD).

This report should not be regarded as a guarantee that no further contamination, beyond that which could be detected within the scope of this assessment, is present at the Property. Converse makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this assessment. It is not possible to absolutely confirm that no hazardous materials and/or substances exist at the Property. If none are identified as part of a limited scope of work, such a conclusion should not be construed as a guaranteed absence of such materials, but merely the results of the evaluation of the property at the time of the assessment. Also, events may occur after the Property visit, which may result in contamination of the Property. Additional information, which was not found or available to Converse at the time of report preparation, may result in a modification of the conclusions and recommendations presented.

Any reliance on this report by Third Parties shall be at the Third Party's sole risk. Should San Bernardino City Unified School District (SBCUSD) wish to identify any additional relying parties not previously identified, a completed Application of Authorization to Use (see Appendix A of this report) must be submitted to Converse Consultants.





## 2.0 PROPERTY DESCRIPTION

Item	Comment
Current Use(s) of the Property	<p>The Property is owned by SBCUSD and is identified as the M Buildings (M1/2, M3 and M4) located within the San Bernardino High School. The Property buildings are currently occupied by offices and classrooms.</p> <p>A Property location map and a field generated Property plan are provided in Appendix B. Pertinent Property photographs are provided in Appendix C.</p>
Location and Legal Description	<p>The Property is located on the northeast corner of the San Bernardino High School Campus located at 1850 North E Street, San Bernardino, California. The Property is located on the northwest corner of West 19th Street and south of West 20th Street. The Property is located approximately 0.06 miles west of North E Street. The Property is 0.5 miles northeast of the 215 (San Bernardino) Freeway.</p> <p>The San Bernardino County Assessor's Parcel Number for the Property is 0145-05-508. The legal description of the Property is described as the following:</p> <p>SIBLEY AND ALLISON SUB S 100 FT LOT 7 AND ALL LOT 8 BLK A AND E 1/2 ALLEY VAC ADJ ON W LYING SLY OF ST AND PTN N 35 FT 19TH ST VAC ADJ ON S EX ST</p>
Zoning Information	<p>According to the City of San Bernardino, Planning Department, the zoning for the Property is PF, which is defined as Public Facility.</p>



Item	Comment
Property Characteristics	<p>The Property is located on a single 0.86 acre parcel located on the northeast corner of the San Bernardino High School (SBHS) Campus. The Property is developed with three (3) buildings identified as classrooms M1-M4. Classrooms M1, M2 and M4 are currently occupied by the campus police, an office, a career center and classrooms. Classroom M3 is current unoccupied, but was previously occupied by the auto body shop. Features associated with this former use such hydraulic lifts, a spray paint booth and a clarifier are still located within classroom M3 and to the east exterior.</p> <p>Additional features of the Property include concrete paved parking areas to the north and east of the Property.</p>
Description of Property Structure(s)	<p>The Property buildings located on the Property are constructed of a combination of stucco-clad wood framed structures and metal buildings. The interior finishes include plaster and/or drywall walls and ceilings with applications of acoustical ceiling tiles and suspended ceiling systems. The floors are finished with various applications of vinyl floor tile, linoleum, carpet and ceramic tile finishes. According to on-site interviews, the Property buildings were constructed on the Property from as early as 1938.</p>
<p><b>The following services were present at the Property at the time of the assessment.</b></p>	
Electricity	Southern California Edison
Gas	Southern California Gas Company
Potable Water	City of San Bernardino
Sanitary Sewer	City of San Bernardino



Item	Comment
Heating, Ventilation, Air Conditioning (HVAC)	Roof Mounted Units
Solid Waste	Burrtec





## 3.0 USER PROVIDED INFORMATION & RESPONSIBILITIES

---

### ***3.1 Requested Documents and Information***

The ASTM E1527-13 specifies that the User, San Bernardino City Unified School District (SBCUSD) provide any helpful documents that may be available, as listed below.

- Environmental site assessment or environmental compliance audit reports
- Environmental permits or hazardous waste generator notices/reports
- Registrations for aboveground and underground storage tanks
- Septic systems, oil wells, or water wells
- Registrations for underground injection systems
- Material Safety Data Sheets; Community Right to Know Plans; or Safety, Preparedness and Prevention Plans; Spill Protection Countermeasures and Control Plans
- Reports regarding hydrologic conditions on the Property or surrounding area
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the Property or relating to environmental liens encumbering the Property.
- Hazardous waste generator notices or reports
- Geotechnical studies
- Risk assessments
- Recorded Activity Use Limitations (AULs)
- Proceedings regarding hazardous substances and petroleum products including any pending, threatened or past: litigation; administrative proceedings; or notices from any governmental entity regarding possible violations of environmental laws or other possible liability related to hazardous substances or petroleum products.

The following documents were provided for review:

- A Limited Asbestos and Lead Survey report for San Bernardino High School Modernization Project prepared by Pacific Environmental Company dated August 20, 2008 was provided for review. Asbestos containing materials and lead based materials were identified.



### ***3.2 User Provided Information***

Section 6 of ASTM E1527-13 outlines specific User's responsibilities. This information will help identify the possibility of RECs in connection with the Property. The ASTM Standard provides a questionnaire to help the User to comply with the statutory requirements to perform tasks which would help identify RECs. Converse included the questionnaire as Attachment A to our proposal. In general, any Users should make Converse aware of information they have regarding the following:

- Environmental Cleanup Liens filed or recorded against the Property
- Activity and land use limitations that are in place on the Property or have been filed or recorded in a registry.
- Specialized knowledge or experience of the person seeking to qualify for the Legal Liability Protections (LLP)
- Relationship of the purchase price to fair market value of the Property if it were not contaminated
- Commonly known or reasonably ascertainable information about the Property
- The degree or obviousness of the presence or likely presence of contamination at the Property, and the ability to detect this contamination by appropriate investigation.

#### ***3.2.1 Environmental Cleanup Liens***

The User had no information regarding environmental cleanup liens or title records.

#### ***3.2.2 Activity and Use Limitations***

The User did not have any information indicating they were aware of any AULs.

#### ***3.2.3 Specialized Knowledge or Experience***

The User did not have any information indicating they had specialized knowledge or experience related to the Property or nearby property.



#### *3.2.4 Reason for Significantly Lower Purchase Price*

Converse has no information regarding the purchase price of the Property or comparable properties. The User has not indicated to Converse that there is any conclusion that there was a lower purchase price because of known or suspected contamination at the Property.

#### *3.2.5 Commonly Known or Reasonably Ascertainable Information*

The User did not have any information about past uses, specific chemicals at the Property, past spills, environmental cleanup or other reasonably ascertainable information regarding the Property.

#### *3.2.6 Obviousness of Contamination*

The User did not have any information based on their knowledge or experience that would be obvious indicators of contamination on the Property.

Unless specifically stated otherwise in the Scope of Services, the purpose of this Phase I ESA was to qualify for the landowner liability protections to CERCLA Liability as described in ASTM E1527-13.

Business risk unrelated to the CERCLA innocent landowners defense are only assessed as specifically agreed in the Scope of Services and discussed in Section 11.0, Additional Non-Scope Services, of this report.

### **3.3 Continuing Obligations**

In order to assert a LLP, the User must satisfy a number of statutory requirements that are generally referred to as Continuing Obligations, which are outside the Scope of Services of the Phase I ESA. Examples of Continuing Obligations include providing legally required notices, stopping continuing releases and complying with land use restrictions. Failure to comply with these and other statutory post-acquisition requirements will jeopardize liability protection.

It is the responsibility of the User to comply with the Continuing Obligations requirements of ASTM E1527-13 and AAI. Anyone seeking LLP protections should take independent action beyond this Phase I ESA to perfect their position.



## 4.0 OWNER PROVIDED INFORMATION

---

The ASTM E1527-13 specifies that the Property owner and the Key Site Manager provide any helpful documents that may be available as listed below.

- Environmental site assessment or environmental compliance audit reports
- Environmental permits or hazardous waste generator notices/reports
- Registrations for aboveground and underground storage tanks
- Septic systems, oil wells, or water wells
- Registrations for underground injection systems
- Material Safety Data Sheets; Community Right to Know Plans; or Safety, Preparedness and Prevention Plans; Spill Protection Countermeasures and Control Plans
- Reports regarding hydrologic conditions on the Property or surrounding area
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the Property or relating to environmental liens encumbering the Property.
- Hazardous waste generator notices or reports
- Geotechnical studies
- Risk assessments
- Recorded AULs
- Proceedings regarding hazardous substances and petroleum products including any pending, threatened or past: litigation; administrative proceedings; or notices from any governmental entity regarding possible violations of environmental laws or other possible liability related to hazardous substances or petroleum products.

The Property owner is also the report User. Please refer to Section 3.0.



## 5.0 RECORDS REVIEW

---

### 5.1 Physical Setting

Item	Comments
Physical Setting	The Property is located approximately 1,156 feet above mean sea level with surface topography sloping towards the south (United States Geological Survey [USGS] Topographic Map, San Bernardino - North, California, 2015).
Geology	The Property is underlain by marine and non-marine (continental) rocks of the Pleistocene-Holocene age (Division of Mines and Geology, Geologic Map of California, 2010).
Groundwater	According to information obtained from the Regional Water Quality Control Board for a site located approximately 0.5 miles east, groundwater in the vicinity of the Property is expected to be encountered at a depth of 75 feet below grade and flows in a southerly direction.
Potable Water Supply	Potable water is supplied by the City of San Bernardino.

### 5.2 Historical Review

#### 5.2.1 Aerial Photograph and Map Review

Available historical aerial photographs and maps, which were provided by Environmental Risk Information Services (ERIS), were reviewed.

A summary of the review is provided in the following table. Copies of the aerial photographs and maps are provided in Appendix D, Historical Information.



**Table 1 – Historical Resource Review**

<b>Property</b>	<b>Adjoining Properties</b>	<b>General Vicinity</b>
<b>1896, 1898, 1901 Topographic Maps</b>		
Undeveloped	Undeveloped; Residential	Undeveloped; Residential
<b>1930 Aerial Photograph, 1936 Topographic Map, 1938 Aerial Photograph</b>		
Undeveloped	Undeveloped; residential; School located to the south.	The Property is located in a developed area.
<b>1941 Topographic Map, 1948 Aerial Photograph</b>		
No significant changes were noted from the previous maps and photographs.	No significant changes were noted from the previous maps and photographs.	No significant changes were noted from the previous maps and photographs.
<b>1950, 1951 Fire Insurance Maps, 1954 Topographic Map, 1952 Aerial Photograph</b>		
The Property is depicted with the current M3 and M4 Buildings addressed as 554, 554, 1/2 and 564 1/4 located on the northern and central portions of the Property. Building M4 is depicted as a machine shop. The southeast corner of the Property is depicted as a nursery school and is addressed as 554 West 19th Street.	The north and northeast adjoining properties are vacant lots. The adjoining property to the east, northwest and west are depicted with residential dwellings. West 19th Street is depicted to the south followed by the San Bernardino High School Campus.	The general vicinity of the Property is depicted for residential uses.



Property	Adjoining Properties	General Vicinity
<b>1953, 1954 Fire Insurance Maps, 1955 Aerial Photograph, 1956, 1957, 1958, 1959 Fire Insurance Maps, 1959 Aerial Photograph</b>		
The Property is depicted with the current Property buildings occupied by the San Bernardino High School plus the smaller nursery school building located on the southeast corner of the Property.	The adjoining properties to the north and east are undeveloped lots. Residential uses are depicted to the northwest and east and San Bernardino High School is depicted to the south and west of the Property.	The general vicinity of the Property is depicted with residential and commercial uses.
<b>1961, 1963, Fire Insurance Maps, 1966 Aerial Photograph, 1967 Topographic Map</b>		
No significant changes are noted from the previous maps and photographs.	The adjoining property to the east is depicted with a classroom. The remaining adjoining properties remain unchanged from the previous maps and photographs.	The general vicinity of the Property is depicted with residential and commercial uses.
<b>1973, 1975 Topographic Maps, 1975 Aerial Photograph</b>		
The smaller building located on the southeast corner of the Property is no longer visible. No other changes were noted at the Property.	West 20th Street is now developed to the north of the Property. The adjoining properties are developed for residential uses or are a part of the school.	The Property is located in an urban area.
<b>1980 Aerial Photograph, 1980, 1988 Topographic Maps, 1989 Aerial Photograph</b>		

<b>Property</b>	<b>Adjoining Properties</b>	<b>General Vicinity</b>
No significant changes were noted from the previous maps and photographs.	No significant changes were noted from the previous maps and photographs.	No significant changes were noted from the previous maps and photographs.
<b>1994 Aerial Photograph, 1996 Topographic Map</b>		
No significant changes were noted from the previous maps and photographs.	No significant changes were noted from the previous maps and photographs.	No significant changes were noted from the previous maps and photographs.
<b>2002, 2006, 2010, 2012 Aerial Photographs</b>		
No significant changes were noted from the previous maps and photographs.	No significant changes were noted from the previous maps and photographs.	No significant changes were noted from the previous maps and photographs.
<b>2015 Topographic Map, 2016 Aerial Photographs</b>		
No significant changes were noted from the previous maps and photographs.	No significant changes were noted from the previous maps and photographs.	No significant changes were noted from the previous maps and photographs.

### *5.2.2 Building Permit Review*

Available building permits were reviewed at the City of San Bernardino, Department of Building & Safety. A chronological summary is provided below.

According to historical sources, the Property was previously addressed as 554 and 564 19th Street. These addresses were also researched as part of this assessment. No records were available for 554 19th Street.



Date	Comments
<b>564 19th Street</b>	
1940	A building permit was granted to San Bernardino High School to construct new classroom building on February 17, 1940.
1941	A building permit was granted to the City of San Bernardino High School District to construct a new classroom building on October 18, 1941.
<b>1850 North E Street</b>	
1957	A building permit to re-roof the school was granted on February 14, 1957.

### *5.2.3 City Directories*

A city directory search was completed on the Property by ERIS. The complete city directory is provided in Appendix E, Historical Research.

1850 North E Street was listed as an Adult School in 1966 and as the San Bernardino High School from 1971 through the present.

The 19th Street addresses were not listed in the city directories listings.

### *5.2.4 Data Failure*

Historical information regarding the Property indicated the Property was undeveloped land as early as 1896. Therefore, no historical data failure occurred during this assessment.

### *5.2.5 Summary of Historical Property Use*

According to historical sources, the Property was undeveloped from as early as 1896. By the early 1940s, the Property was developed with the current Property buildings and a smaller building located on the southeast corner of the Property. The Property appeared to be a part of the San Bernardino High School and was

occupied by a "machine shop" and a "nursery" building. By 1973, the smaller building located on the southeast corner (occupied by the nursery) was no longer visible. The Property appeared to be developed in its current configuration from the early 1970s through the present.

#### *5.2.6 Summary of Past Uses of Adjoining Properties*

According to historical sources, the adjoining properties appeared to be developed with residential dwellings and were undeveloped from as early as 1896. By 1930, the adjoining properties to the south were developed with the San Bernardino High School. By the early 1960s, the adjoining properties to the east were developed with additional structures associated with the San Bernardino High School. By 1970, West 20th Avenue was visible to the north of the Property.

#### *5.2.7 Summary of Past Uses of the Surrounding Area*

According to historical sources, the general vicinity of the Property appeared to be undeveloped from as early as 1896. By the early 1920s increased development for residential and commercial uses occurred.

### **5.3 Results of Environmental Records Sources Review**

An ERIS report of Standard Environmental Record Sources (Records) was prepared specifically for the Property. The search included queries to the following databases for cases within specified ASTM search distances. A copy of the database report is provided in Appendix E, Regulatory Database Report.

#### *5.3.1 Property Listings*

The Property was identified in the following databases on the regulatory database report:

- San Bernardino High School at 1850 North E Street was identified on the California Environmental Reporting System (CERS) Hazardous (HAZ) database, San Bernardino Certified Unified Program Agency (CUPA) database, FINDS, FRS, twice on the Historical Manifest (HIST Manifest) database and four (4) times on the HAZNET database. It is unknown if these listings are



associated with the Property or are a part of the whole San Bernardino High School campus. Based on the known historical use of the Property (for machine shop/auto body shop class), these listings are considered a REC.

- The Newmark Groundwater Contamination located at the Bunker Hill Groundwater Basin is located approximately 4 mile northwest of the Property and was mis-mapped as being located at the Property. According to information obtained from the DSTC Envirostor website, this site consisted of approximately 700 square feet in the Bunker Hill Groundwater Basin. Groundwater in this area was found to be contaminated with high levels of halogenated organic chemicals including tetrachloroethylene (PCE) and trichloroethylene (TCE). TCE was a degreaser used in large quantities for commercial, industrial, and aerospace applications in the area. Groundwater extraction wells have been installed at the leading edge of the Newmark contamination plume near Waterman Avenue and at 48th Street. According to the most recent progress report for the Newmark Groundwater Contamination Superfund Remedial Action, dated August 31, 2016, contamination does not appear be located in the vicinity of the Property. This listing is not expected to represent an environmental concern to the Property.

#### Target Property Summary

Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
CERS HAZ	SAN BERNARDINO HIGH SCHOOL	1850 N E ST, SAN BERNARDINO, CA, 92405	0.00/-	0.0	Violations in 2013 included failure to note accumulation start date on labels; was in completed in 2013.



Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
SANBERN CUPA	SAN BERNARDINO HIGH SCHOOL	1850 N E ST, SAN BERNARDINO, CA, 92405	0.00/-	0.0	No violations were noted.
FINDS/FRS	SAN BERNARDINO HIGH SCHOOL	1850 N E ST, SAN BERNARDINO, CA, 92405	0.00/-	0.0	No violations noted.
HIST MANIFEST		1850 NORTH E ST, SAN BERNADINO, CA, 924040000	0.00/-	0.0	Wastes manifested included laboratory waste chemicals, asbestos containing wastes, off-specification, aged or surplus organics, unspecified oil-containing wastes, aqueous solution with total organic residues less than 10 percent, waste oil/ mixed oil and other inorganic solid wastes. No violations were noted.



Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
HIST MANIFEST		1850 NORTH E ST, SAN BERNARDINO, CA, 924050000	0.00/-	0.0	Wastes manifested included laboratory waste chemicals, asbestos containing wastes, off-specification, aged or surplus organics, unspecified oil-containing wastes, aqueous solution with total organic residues less than 10 percent, waste oil/ mixed oil and other inorganic solid wastes. No violations were noted.
HAZNET	SBCUSD/ SAN BERNARDINO HIGH SCHOOL	1850 NORTH E ST, SAN BERNARDINO, CA, 924050000	0.00/-	0.0	No violations noted.



Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
HAZNET	SAN BERNADINO HIGH SCHOOL	1850 NORTH E ST, SAN BERNADINO, CA, 924040000	0.00/-	0.0	Wastes manifested included laboratory waste chemicals, asbestos containing wastes, off-specification, aged or surplus organics, unspecified oil-containing wastes, aqueous solution with total organic residues less than 10 percent, waste oil/ mixed oil and other inorganic solid wastes. No violations were noted.
HAZNET	SBCUSD/ SAN BERNARDINO HIGH SCHOOL	1850 NORTH E ST, SAN BERNARDINO, CA, 924050000	0.00/-	0.0	No violations noted.





Database	Site Name	Address	Dist. (mi) / Dir.	Elev. diff. (ft)	Comments
HAZNET	SAN BERNARDINO HIGH SCHOOL	1850 NORTH E STREET, SAN BERNARDINO, CA, 924050000	0.00/-	0.0	No violations noted.
NPL	NEWMARK GROUND WATER CONTAMINATION	BUNKER HILL GROUND WATER BASIN, SAN BERNARDINO, CA, 92408	0.00/-	0.0	See above. Property does not appear impacted by this NPL site.

### 5.3.2 Adjoining Properties

The adjoining properties were not identified on the databases in the regulatory database report.

### 5.3.3 Other Off-site Locations of Concern

Other off-site locations of concern identified by ERIS within a maximum one-mile radius from the Property included Envirostor Sites, School Sites, wastes generators and Leaking Underground Storage Tank (LUST). The potential for environmental concern to the Property from these off-site locations appears to be low due to one or more of the following: type of regulatory listing; type of resource (soil) affected, location with respect to the direction of regional groundwater, distance from the Property; status of the case; remedial efforts being directed by a regulatory agency; and/or potential responsible parties have been identified.



#### 5.3.4 Orphan Listings

The database report identified 3 orphan listings. The locations of sites that were identified by address were found to be in the general vicinity of the Property; however, due to distance, location with respect to the direction of regional groundwater, and/or type of listing were determined to have a low potential for environmental concern to the Property.

Other orphan sites were identified only by street name. These street names were found in the general vicinity of the Property; however, the specific site locations could not be determined. These orphan sites appeared to have a low potential for environmental concern to the Property due to one or more of the following: type of regulatory listing; type of resource (soil) affected, location with respect to the direction of regional groundwater, distance from the Property; status of the case; remedial efforts being directed by a regulatory agency; and/or potential responsible parties have been identified.

### 5.4 Additional Environmental Record Sources

#### Federal Agencies

Federal Agencies	
Source	Comments
U.S. Department of Transportation, Pipeline and Hazardous Material Safety Administration (PHMSA)	PHMSA online mapping system for gas transmission pipelines or hazardous liquid pipelines in San Bernardino County was reviewed ( <a href="https://www.npms.phmsa.dot.gov/default.htm">https://www.npms.phmsa.dot.gov/default.htm</a> ). No pipelines are located on the Property.



## State Agencies

State Agencies	
Source	Comments
California Environmental Protection Agency (Cal/EPA), Department of Toxic Substances Control (DTSC)	There is no information regarding the Property on file. The Envirostor website ( <a href="http://www.envirostor.dtsc.ca.gov/public/">http://www.envirostor.dtsc.ca.gov/public/</a> ) was reviewed for information, and the Property was not listed in the database
Cal/EPA, Santa Ana Regional Water Quality Control Board (RWQCB)	No information regarding the Property was on file with the RWQCB. The Geotracker website ( <a href="http://geotracker.waterboards.ca.gov/">http://geotracker.waterboards.ca.gov/</a> ) was reviewed for information, and the Property was not listed in the database.
California Department of Conservation, Division of Oil, Gas and Geothermal Resources (DOGGR)	According the DOGGR Well Finder database ( <a href="http://maps.conservation.ca.gov/doms/doms-app.html">http://maps.conservation.ca.gov/doms/doms-app.html</a> ), there are no oil or gas wells located on the Property or adjacent properties.

## Local Agencies

Source	Comments
South Coast Air Quality Management District (SCAQMD)	San Bernardino High School - 1850 North E Street was issued Permits to Operate (PTO) six (6) boilers in 2015 and a diesel generator in 2009. These permits are most likely associated with the whole school. No violation were noted.



Source	Comments
San Bernardino County Fire Department (SBCFD)	No information was available for the Property.



## 6.0 PROPERTY RECONNAISSANCE

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### 6.1 Methodology

On March 26, 2018, Converse visited the Property to evaluate present use and to identify observable environmental conditions at the Property. Our methodology involved walking the perimeters, center lines, and accessible interior areas of the buildings while noting observed evidence of present and potential environmental concerns.

A field-generated map is provided in Appendix B. Pertinent Property photographs are provided in Appendix C.

### 6.2 Limiting Conditions

Converse's findings are based on the Property conditions observed on Monday, March 26, 2018.

### 6.3 Interior Observations of Property

During our Property visit, Converse made the following observations of the interior of the Property's building(s):

**Table 3 – Interior Observations of Property**

Item or Condition	Observed Evidence	No Evidence Observed	Comments
Hazardous Substances & Petroleum Products:		✓	

<b>Item or Condition</b>	<b>Observed Evidence</b>	<b>No Evidence Observed</b>	<b>Comments</b>
Storage Tanks & Related Equipment:		✓	
Odors:			
Standing Surface Water or Other Pools of Liquid:		✓	
Drums & Other Containers of Hazardous Substances, Petroleum Products, or Other Unidentified Contents:		✓	
Transformers or Equipment containing Polychlorinated Biphenyls (PCBs):		✓	
Heating/Cooling System:	✓		Roof Mounted Units
Stains or Corrosion on Floors, Walls or Ceilings:		✓	
Drains and Sumps		✓	

## 6.4 Exterior Observations of Property

During our Property visit, Converse made the following observations of the exterior of the Property:

**Table 4 – Exterior Observations of Property**

<b>Item or Condition</b>	<b>Observed Evidence</b>	<b>No Evidence Observed</b>	<b>Comments</b>
Hazardous Substances & Petroleum Products:	✓		A former spray paint booth was observed to the south of Building M3.
Storage Tanks & Related Equipment:	✓		See above.
Odors:		✓	
Standing Surface Water or Other Pools of Liquid:		✓	
Drums & Other Containers of Hazardous Substances, Petroleum Products, or Other Unidentified Contents:		✓	

Item or Condition	Observed Evidence	No Evidence Observed	Comments
Transformers or Equipment containing Polychlorinated Biphenyls (PCBs):		✓	
Pits, Ponds, or Lagoons:		✓	
Stained Soil or Pavement:		✓	
Stressed Vegetation (other than from insufficient water):		✓	
Evidence of Mounds, Depressions or Filled or Graded Areas Suggesting Trash or Other Solid Waste Disposal:		✓	
Waste Water or any discharge (including storm water) into a Drain, Ditch, or Stream on or Adjacent to the Property:	✓		A clarifier is located to the east of Building M3. Water previously discharged into the clarifier was associated with auto body operations.



Item or Condition	Observed Evidence	No Evidence Observed	Comments
Wells (active, inactive, or abandoned):		✓	
Septic Systems or Cesspools:		✓	
Prior Structures:		✓	
Roads, Tracks, Railroad Tracks or Spurs:	✓		19th Street is located to the southwest and 20th Street is located to the east.

## 6.5 Current Uses of Adjoining Properties

Based on our research and observations during our Property visit, the Property is bordered by the following:

**Table 5 – Adjoining Property Use**

Direction	Current Development
North	West 20th Street followed by a multi-family residential building - 560 West 20th Street.
Northeast	West 20th Street followed by the 99 Cents Bargain Corner - 1976 North E Street.
Northwest	West 20th Street followed by a multi-family residential building - 1959 North F Street.

<b>Direction</b>	<b>Current Development</b>
South	West 19th Street followed by the rest of the San Bernardino High School Campus -1850 North E Street.
Southeast	The San Bernardino High School Campus -1850 North E Street.
Southwest	The remaining areas of the San Bernardino High School Campus -1850 North E Street.
East	Residential - 540 19th Street and a parking lot.
West	The remaining areas of the San Bernardino High School Campus -1850 North E Street.

## ***6.6 Current Uses of Surrounding Area***

Based on our research and observations during our Property visit, the surrounding area of the Property consists of the remaining San Bernardino High School Campus and residential and commercial properties.

## 7.0 INTERVIEWS

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Interview:	Comments:
Property Owner	<p>Mr. Tim Deland, Facilities Manager of the SBCUSD, was interviewed during the Property Reconnaissance. According to Mr. Deland, Building M3 operated as an auto body/machine shop from as early as 1938.</p> <p>Mr. Deland indicated that this building, in addition to all associated features (clarifier, spray paint booth) will be demolished.</p> <p>Mr. Deland was unaware of any other environmental concerns associated with the Property.</p>
Tenant/ Occupant	The tenant/occupant is also the Property owner.
State or Local Government Officials	Other than the information in Section 5.4, no additional information could be provided.
Owners and Occupants of Neighboring Sites	No interviews of owners or occupants of neighboring sites were conducted.

## 8.0 FINDINGS

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A cursory summary of findings is provided below. However, details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

The Property is located on the northeast corner of the San Bernardino High School Campus located at 1850 North E Street, San Bernardino, California. The Property is located on the northwest corner of West 19th Street and south of West 20th Street. The Property is located approximately 0.06 miles west of North E Street.

The Property is owned by SBCUSD and is identified as the M Buildings (M1/2, M3 and M4) located within the San Bernardino High School. The Property is occupied by offices and classrooms. At the time of the Property Reconnaissance a clarifier and spray paint booth was observed to the east of Building M3.

According to historical sources, the Property was undeveloped from as early as 1896. By the early 1940s, the Property was developed with the current Property buildings and a smaller building located on the southeast corner of the Property. The Property appeared to be a part of the San Bernardino High School and was occupied by a "machine shop" and a "nursery" building. By 1973, the smaller building located on the southeast corner (occupied by the nursery) was no longer visible. The Property appeared to be developed in its current configuration from the early 1970s through the present.

According to historical sources, the Property was addressed as 554 and 564 West 19th Street. The addresses were researched as part of this investigation.

The Property was identified in the following databases on the regulatory database report:

- San Bernardino High School at 1850 North E Street was identified on the California Environmental Reporting System (CERS) Hazardous (HAZ) database, San Bernardino Certified Unified Program Agency (CUPA) database, FINDS, FRS, twice on the Historical Manifest (HIST Manifest) database and four (4) times on the HAZNET database. It is unknown if these listings are associated with the Property or are a part of the whole San Bernardino High School campus.
- The Newmark Groundwater Contamination located at the Bunker Hill Groundwater Basin is located approximately 4 mile northwest of the Property and was mis-mapped



as being located at the Property. According to information obtained from the DSTC Envirostor website, this site consisted of approximately 700 square feet in the Bunker Hill Groundwater Basin. Groundwater in this area was found to be contaminated with high levels of halogenated organic chemicals including tetrachloroethylene (PCE) and trichloroethylene (TCE). TCE was a degreaser used in large quantities for commercial, industrial, and aerospace applications in the area. Groundwater extraction wells have been installed at the leading edge of the Newmark contamination plume near Waterman Avenue and at the 48th Street. According to the most recent progress report for the Newmark Groundwater Contamination Superfund Remedial Action, dated August 31, 2016, contamination does not appear to be located in the vicinity of the Property. This listing is not expected to represent an environmental concern to the Property.

The adjoining properties were not identified on the regulatory database report.



## 9.0 OPINION

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The clarifier and spray paint booth currently located on the Property which were associated to previous auto body shop operations is a REC.

The historical machine shop/auto body shop operations located at the Property from as early as 1938 is a REC.

The identification of the Property on the regulatory database is a REC based on the known historical use of the Property (for machine shop/auto body shop class).

The current and historical uses of the adjoining properties are not a REC.

No significant data gaps were identified that affect the ability of the Environmental Professional (EP) to identify RECs.

There are no unusual circumstances where greater certainty is required regarding RECs.



## 10.0 CONCLUSIONS AND RECOMMENDATIONS

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Converse has performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM Practice E1527-13 for 1850 North E Street, City of San Bernardino, San Bernardino County, California. Any exceptions to or deletions from this practice are described in the Limitations and Exceptions of Assessment section of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the Property except for the following:

- The clarifier currently located to the east of Building M3.
- The spray paint booth located to the northeast of Building M3.
- Former machine shop/auto body shop operations located within Building M3.

Based on this assessment, a Phase II ESA is recommended to evaluate if the subsurface of the Property has been impacted by former uses.



## 11.0 DEVIATIONS AND LIMITATIONS

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No deviation(s) from the ASTM Standard Practice were encountered during this assessment.





## 12.0 ADDITIONAL NON-SCOPE SERVICES

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There are environmental issues outside the scope of the ASTM E1527-13 that can be assessed in connection with a commercial real estate transaction. These are dealt with as non-scope considerations since they do not typically present a Superfund Liability. The specific level of inquiry (if any) is defined in the Proposal which contains a Scope of Work. These non-scope services are very client specific and not covered by the ASTM standard. They are frequently related to the business environmental risk which is defined in the standard as “risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate...”

Based on the age of the Property buildings, asbestos and lead based paint should be surveyed prior to demolition/renovation activities. Converse understands that these surveys are being conducted under a different cover.

No non-scope issues were addressed in this report.



## 13.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

---

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standard and practices set forth in 40 CFR Part 312.

A handwritten signature in black ink, appearing to read 'Sue Krobthong', with a large, stylized circular flourish at the end.

Sue Krobthong  
Project Environmental Scientist

This Phase I ESA was completed [by or under the supervision] of the above Environmental Professional. A complete list of preparers, and their responsibilities for this assessment, is provided in the following section (Section 14.0, List of Preparers).

## 14.0 LIST OF PREPARERS

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### **Norman S. Eke**

Senior Vice President/Managing Officer

B.A., Liberal Studies, Environmental Studies Emphasis, University of California, Santa Barbara, 1988.

Cal/OSHA Certified Asbestos Consultant, #96-2093

NIOSH 582 Equivalent Training

Senior Vice President and Managing Officer of Converse's California Environmental offices. Mr. Eke has served as the Principal-in-Charge and Contract Administrator to deliver services to our public agency and private clients. Mr. Eke has 27 years of experience in the fields of Environmental Due Diligence including Phase I and Phase II Environmental Site Assessments, Asbestos surveys/specifications/abatement monitoring, Preliminary Endangerment Assessments and associated Supplemental Site Investigations and Removal Action Work Plans/Implementation, various forms of Remediation, Human Health Risk Assessment and Indoor Air Quality. Mr. Eke is the former Subcommittee Chairman for E.50-02 Real Assessment and Management of the ASTM E.50 Committee on Environmental Assessment, Risk Management, Corrective Action, which includes Phase I ESA standards (2008 to 2016).

Principal area of responsibility for this ESA report: Project Management, Client Point of Contact, and Quality Assurance/Quality Control and Technical Review.

### **Michael A. Van Fleet**

Senior Geologist

B.A. Earth Science, University of California, Santa Cruz, 1999

Professional Geologist; California No. 7869, Washington No. 2900

Mr. Van Fleet has over 13 years of experience working as a geologist in the state of California. The majority of his project experience has been in the areas of environmental assessment and subsequent remediation, but also includes experience in groundwater development. Mr. Van Fleet's experience includes: collection of soil matrix, soil vapor, and groundwater samples; geologic logging of earth materials; designing well completion parameters; regulatory interaction; design and operation of soil vapor and groundwater remediation systems; staff and project management; report preparation and review; and



monitoring of contractor activities.

Principal area of responsibility for this ESA report: Report Review.

**Sue Krobthong**

Project Environmental Scientist

B.S., Environmental Science, Social Science Emphasis, University of California, Riverside, 2005

Certificate of Environmental Management, University of California, Irvine, 2011

Ms. Krobthong has over 10 years' experience conducting Phase I and II Environmental Site Assessments throughout California. Ms. Krobthong has completed Phase I ESAs on undeveloped land, residential properties, commercial/retail facilities, industrial facilities, and school sites. Current duties at Converse include project management, business development and client maintenance, conducting/managing ESAs, and completing third party documents reviews.

Principal area of responsibility for this ESA report: Project Management, Historical Research, Regulatory Agency Interaction, Property Reconnaissance, Interviews, and Report Generation.



## 15.0 REFERENCES

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California Department of Conservation, Division of Mines and Geology, Geologic Map of California, 2010.

California Environmental Protection Agency (Cal/EPA), Department of Toxic Substances Control, Cypress Office, Request for Information, March 2018.

Cal/EPA, Envirostor Website (<http://www.envirostor.dtsc.ca.gov/public/>), March 2018.

Cal/EPA, Santa Ana Regional Water Quality Control Board, Request for Information, March 2018.

Cal/EPA, Geotracker Website (<http://geotracker.waterboards.ca.gov/>), March 2018.

Deland, Tim Mr., Interview, March 2018.

Environmental Risk Information Systems (ERIS) Aerial Photographs, March 2018.

ERIS,, City Directory Abstract, March 2018.

ERIS,Radius Map Report, March 2018.

ERIS, Request for Sanborn Map, March 2018.

ERIS,Fire Insurance Map, March 2018.

Limited Asbestos and Lead Survey Report for Pacific High School Modernization Project, January 14, 2009.

San Bernardino, City of, Building and Safety Department, Building Permit Review, March 2018.

San Bernardino County Fire Department , Request for Information, March 2018.

South Coast Air Quality Management District, Request for Information, March 2018.

United States Geological Survey, 7.5-Minute Topographic Quadrangle, San Bernardino-North California 2017.



United States Department of Transportation, Pipeline and Hazardous Material Safety Administration (PHMSA), Pipeline Location Website (<https://www.npms.phmsa.dot.gov/default.htm>), March 2018.



# **Appendix A - Application for Authorization to Use**



# Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

## Application for Authorization to Use

TO: Converse Consultants  
717 South Myrtle Avenue  
Monrovia, California 91016

Project Title & Date: \_\_\_\_\_

Project Address: \_\_\_\_\_

FROM: (Please identify name & address of person/entity applying for permission to use the referenced report.)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Applicant \_\_\_\_\_ hereby applies for permission to use  
the referenced report in order to:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Applicant wishes or needs to use the referenced report because:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*Applicant* also understands and agrees that the referenced document is a copyrighted document and shall remain the sole property of Converse Consultants. Unauthorized use or copying of the report is strictly prohibited without the express written permission of Converse Consultants. *Applicant* understands and agrees that Converse Consultants may withhold such permission at its sole discretion, or grant such permission upon agreement to Terms and Conditions, such as the payment of a re-use fee, amongst others.

Applicant Signature: \_\_\_\_\_

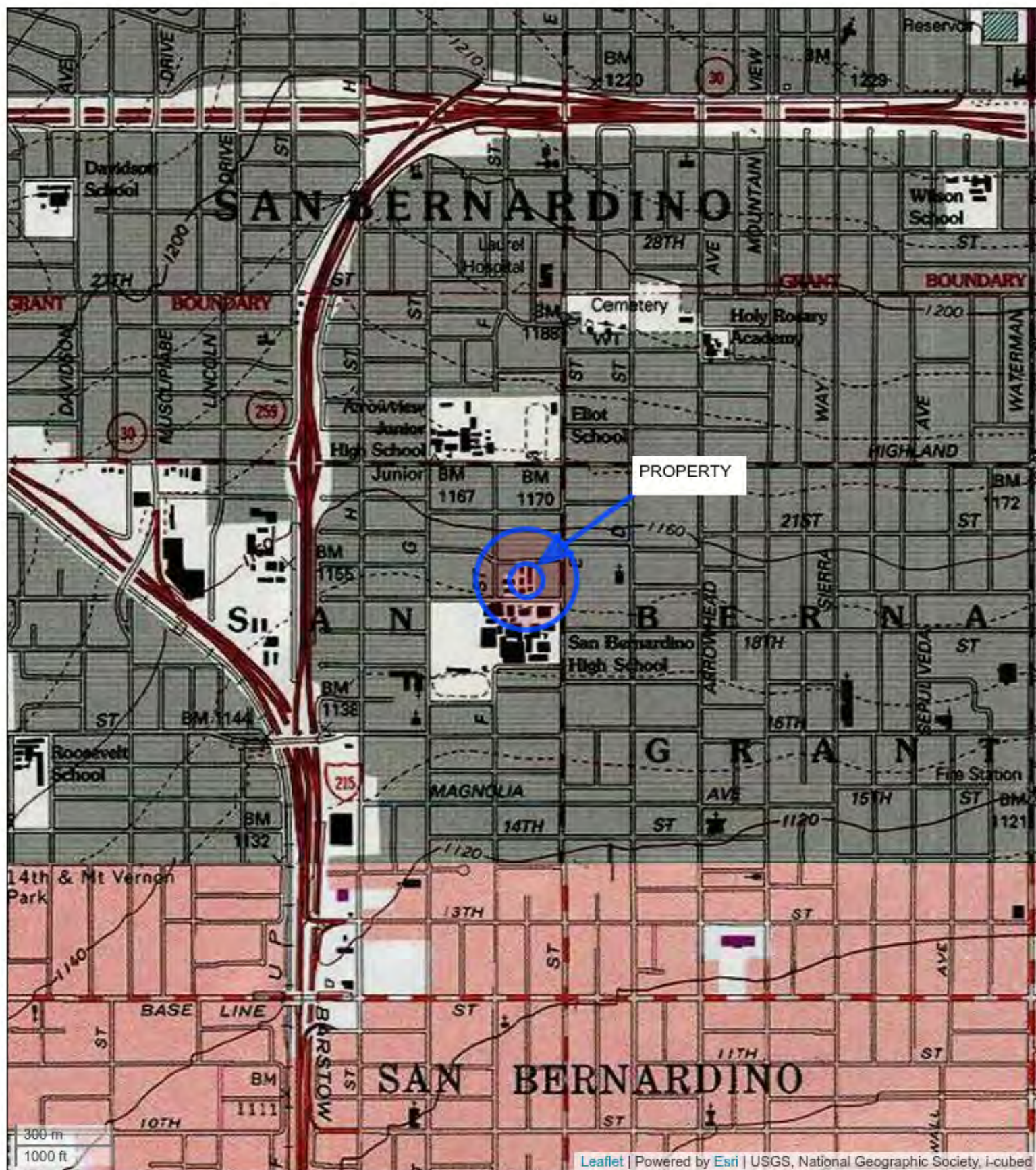
Applicant Name (print): \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



## **Appendix B - Property Plans**



**Figure 1 - Property Location Map**

San Bernardino City Unified School District (SBCUSD)

1850 North E Street

San Bernardino, California

Converse Project No. 18-16-106-01







**Figure 2 - Property Map**

San Bernardino City Unified School District (SBCUSD)

1850 North E Street

San Bernardino, California

Converse Project No. 18-16-106-01



## **Appendix C - Pertinent Property Photographs**

1



South face of the Property.

2



East face of the Property.



3



M 1 / photocopy and campus police.

4



Campus police - M1.

5



View within M1.

6



View within M2.



7



View within M2.

8



View within M3.



9



View within M3.

10



View within M3.

11



View within M3.

12



View within M3.



13



View of above ground hydraulic lift located to the east of M3.

14



View of above ground hydraulic lift located to the east of Building M3.

15



View of covered garage area located to the east of Building M3.

16



View of clarifier located to the east of M3





View of spray paint booth located to the northeast of M3.



View of spray paint booth from the north.

19



East face of M3.

20



View within M3.



21



View within M4.

22



View within M4.

23



View within M4.

24



View within M4.



25



View within M4.

26



View within M4.

27



View within M4.

28



View of adjoining property to the north.



View of adjoining properties to the northwest.

## **Appendix D - Historical Information: Aerials, Maps & City Directory**





# HISTORICAL AERIAL REPORT

for the site:

**SB CUSD - San Bernadino HS Classrooms M1-M4**  
1850 N E St  
San Bernardino, CA 92405  
PO #:

Report ID: 20180323119  
Completed: 3/26/2018

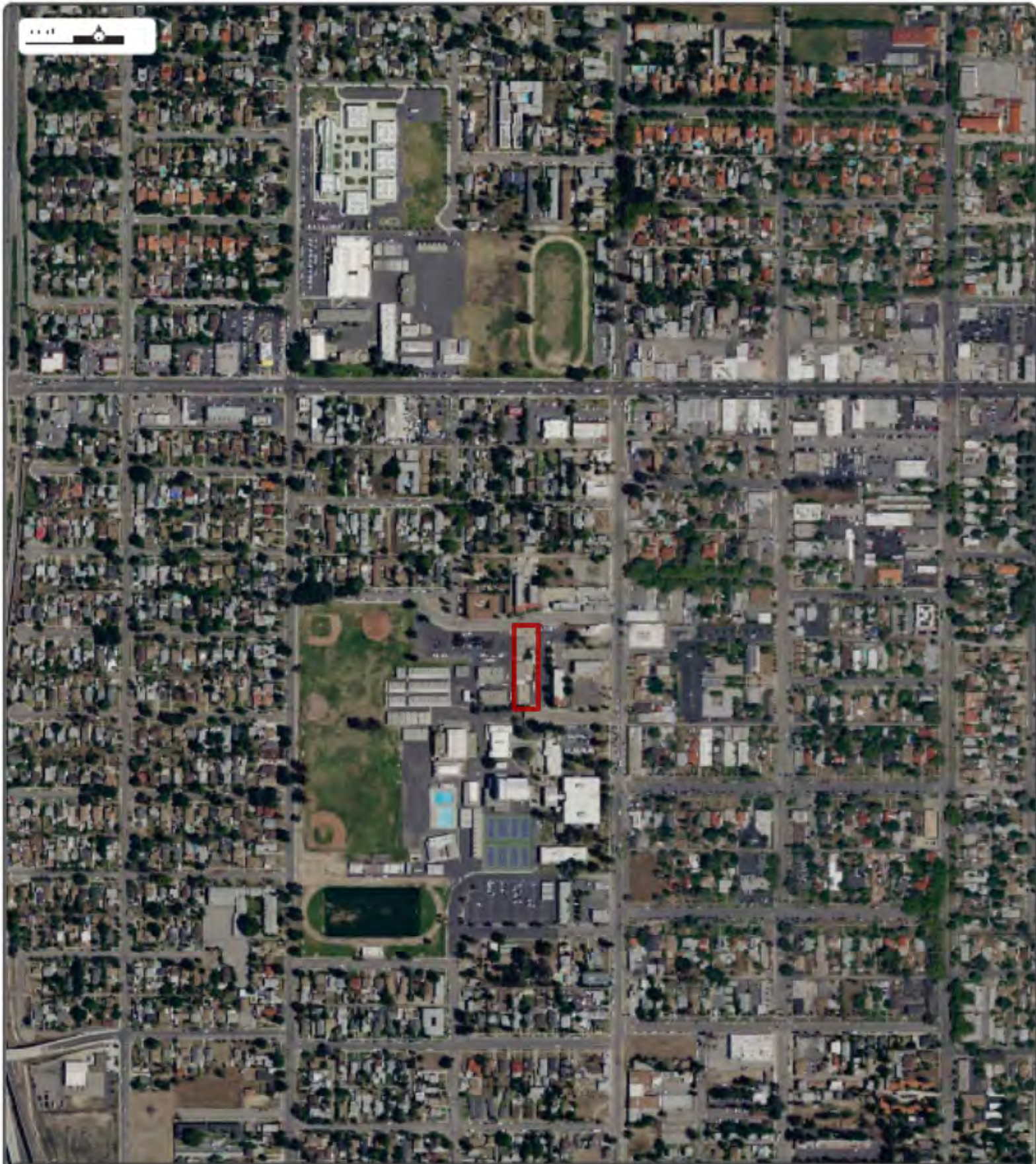
**ERIS Information Inc.**  
Environmental Risk Information  
Services (ERIS)  
A division of Glacier Media Inc.  
T: 1.866.517.5204  
E: [info@erisinfo.com](mailto:info@erisinfo.com)

[www.erisinfo.com](http://www.erisinfo.com)

## Search Results Summary

Date	Source	Scale	Comment
2016	NAIP - National Aerial Imagery Information Program	1"=500'	
2012	NAIP - National Aerial Imagery Information Program	1"=500'	
2010	NAIP - National Aerial Imagery Information Program	1"=500'	
2006	NAIP - National Aerial Imagery Information Program	1"=500'	
2002	USGS - US Geological Survey	1"=500'	
1984	USGS - US Geological Survey	1"=500'	
1989	NAIP - National Aerial Photography Program	1"=500'	BEST COPY AVAILABLE
1985	NAIP - National High Altitude Photography	1"=500'	
1980	USGS - US Geological Survey	1"=500'	
1975	USGS - US Geological Survey	1"=500'	BEST COPY AVAILABLE
1966	USGS - US Geological Survey	1"=500'	
1959	ASCS - Agriculture and Soil Conservation Service	1"=500'	
1955	AMS - Army Mapping Service	1"=500'	BEST COPY AVAILABLE
1952	USGS - US Geological Survey	1"=500'	
1948	USAF - United States Air Force	1"=500'	BEST COPY AVAILABLE
1938	ASCS - Agriculture and Soil Conservation Service	1"=500'	
1938	RAIRC HILD - Private Company	1"=500'	





Date: 2016  
Source: NAIP  
Scale: 1" to 500'  
Comments:

Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955



**ERIS**  
ENVIRONMENTAL, RISK & INVESTIGATION SERVICES  
[www.erisinfo.com](http://www.erisinfo.com) | 1.866.517.5204





Date: 2012  
Source: NAIP  
Scale: 1" to 500'  
Comments:

Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955



**ERIS**  
ENVIRONMENTAL RISK IDENTIFICATION SERVICES  
[www.erisinfo.com](http://www.erisinfo.com) | 1.866.517.5204





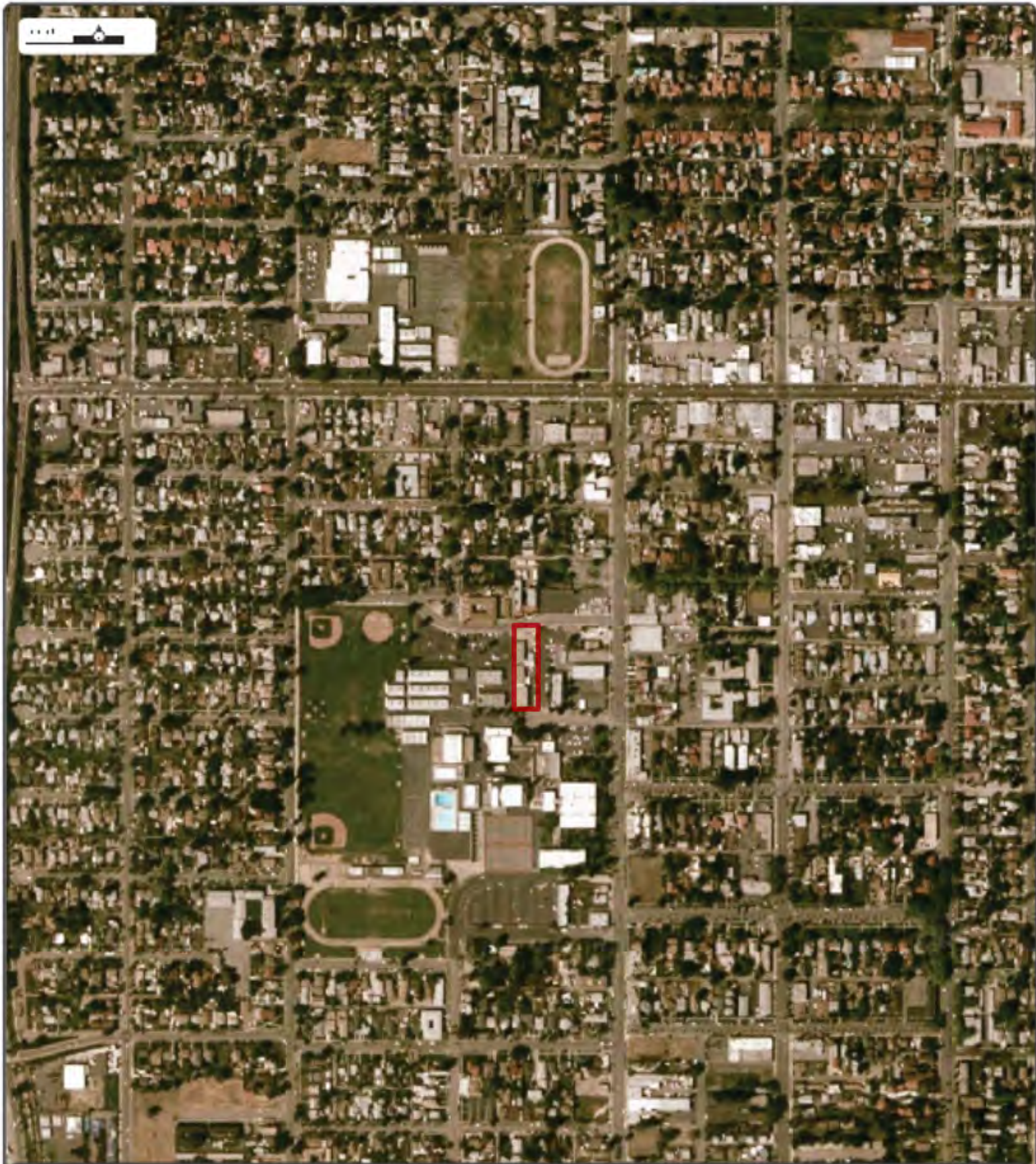
Date: 2010  
Source: NAIP  
Scale: 1" to 500'  
Comments:

Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955



**ERIS**  
ENVIRONMENTAL REMEDIATION SERVICES  
[www.erisinfo.com](http://www.erisinfo.com) | 1.866.517.5204





Date: 2006  
Source: NAIP  
Scale: 1" to 500'  
Comments:

Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955



**ERIS**  
ENVIRONMENTAL RISK INFORMATION SERVICES  
[www.erisinfo.com](http://www.erisinfo.com) | 1.866.517.5204





Date: 2002  
Source: USGS  
Scale: 1" to 500'  
Comments:

Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955



**ERIS**  
ENVIRONMENTAL REMEDIATION SERVICES  
[www.erisinfo.com](http://www.erisinfo.com) | 1.866.517.5204







Date: 1994  
Source: USGS  
Scale: 1" to 500'  
Comments:

Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955



[www.ERISinfo.com](http://www.ERISinfo.com) | 1.866.517.5204





Date: 1989  
Source: NAPP  
Scale: 1" to 500'  
Comments: BEST COPY AVAILABLE

Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955



**ERIS**  
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Date: 1985  
Source: NHAP  
Scale: 1" to 500'  
Comments:

Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955



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Date: 1980  
Source: USGS  
Scale: 1" to 500'  
Comments:

Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955



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Date: 1975  
Source: USGS  
Scale: 1" to 500'  
Comments: BEST COPY AVAILABLE



Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955

**ERIS**  
ENVIRONMENTAL REMEDIATION SERVICES  
[www.erisinfo.com](http://www.erisinfo.com) | 1.866.517.5204





Date: 1966  
Source: USGS  
Scale: 1" to 500'  
Comments:

Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955



**ERIS**  
ENVIRONMENTAL REMEDIATION SERVICES  
[www.erisinfo.com](http://www.erisinfo.com) | 1.866.517.5204







Date: 1959  
 Source: ASCS  
 Scale: 1" to 500'  
 Comments:

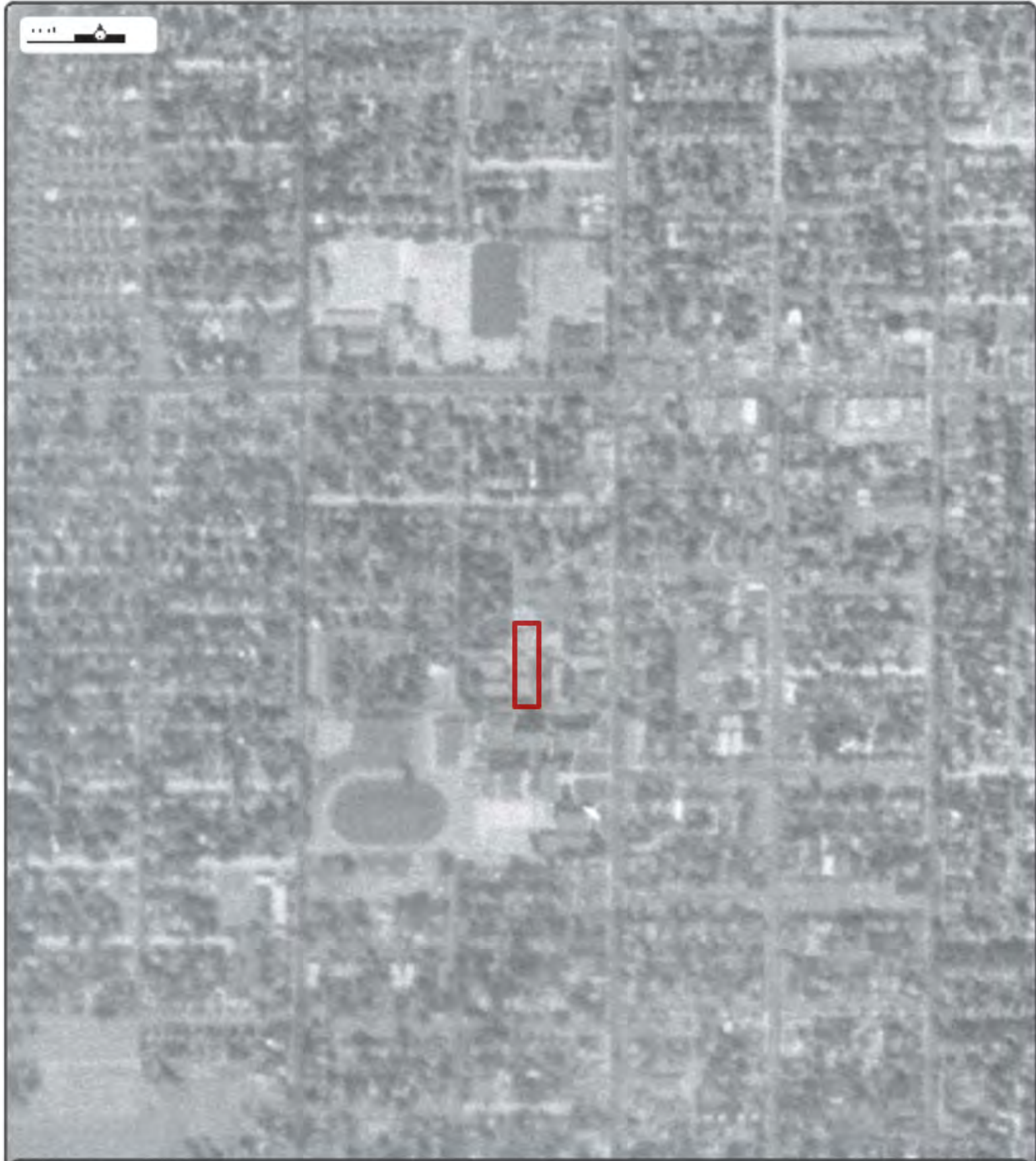
Subject: 1850 N E St San Bernardino CA  
 Approx Center: 34.13279 / -117.2955



[www.ERISinfo.com](http://www.ERISinfo.com) | 1.866.517.5204



1111



Date: 1955  
Source: AMS  
Scale: 1" to 500'  
Comments: BEST COPY AVAILABLE



Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955

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Date: 1952  
Source: USGS  
Scale: 1" to 500'  
Comments:

Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955



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Date: 1948  
 Source: USAF  
 Scale: 1" to 500'  
 Comments: BEST COPY AVAILABLE



Subject: 1850 N E St San Bernardino CA  
 Approx Center: 34.13279 / -117.2955





Date: 1938  
Source: ASCS  
Scale: 1" to 500'  
Comments:

Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955



**ERIS**  
ENVIRONMENTAL REMEDIATION SERVICES

[www.erisinfo.com](http://www.erisinfo.com) | 1.866.517.5204





Date: 1930  
Source: FAIRCHILD  
Scale: 1" to 500'  
Comments:

Subject: 1850 N E St San Bernardino CA  
Approx Center: 34.13279 / -117.2955



**ERIS**  
ENVIRONMENTAL, RISK AND COMPLIANCE SERVICES  
[www.erisinfo.com](http://www.erisinfo.com) | 1.866.517.5204



## FIRE INSURANCE MAP RESEARCH RESULTS

Date: 3/24/2018

Listed below, please find the results of our search for historic fire insurance maps from our in-house collection, performed in conjunction with your ERIS report.

**Order Number: 20180323119**

**Site Name: SBCUSD - San Bernadino HS Classrooms M1-M4**

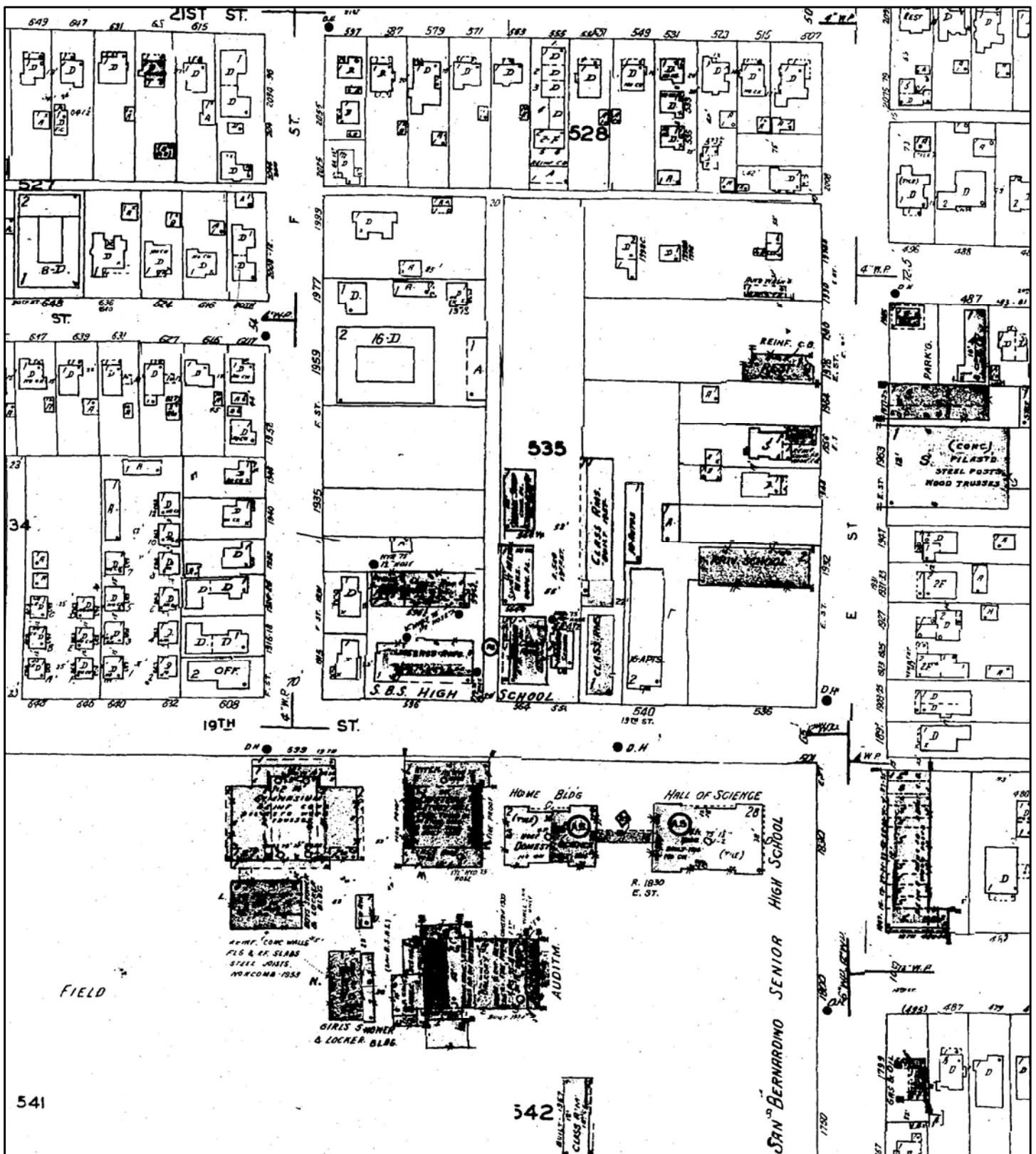
**Address: 1850 N E St, San Bernardino, CA**

Date	City	State	Volume	Sheet Number(s)
1969	San Bernardino	California		67
1963	San Bernardino	California		67
1961	San Bernardino	California		67
1959	San Bernardino	California		67
1958	San Bernardino	California		67
1957	San Bernardino	California		67
1956	San Bernardino	California		67
1954	San Bernardino	California		67
1953	San Bernardino	California		67
1951	San Bernardino	California		67
1950	San Bernardino	California		67

*Individual Fire Insurance Maps for the subject property and/or adjacent sites are included with the ERIS environmental database report to be used for research purposes only and cannot be resold for any other commercial uses other than for use in a Phase I environmental assessment.*



# Fire Insurance Map



1969

Address: 1850 N E St, San Bernardino, CA

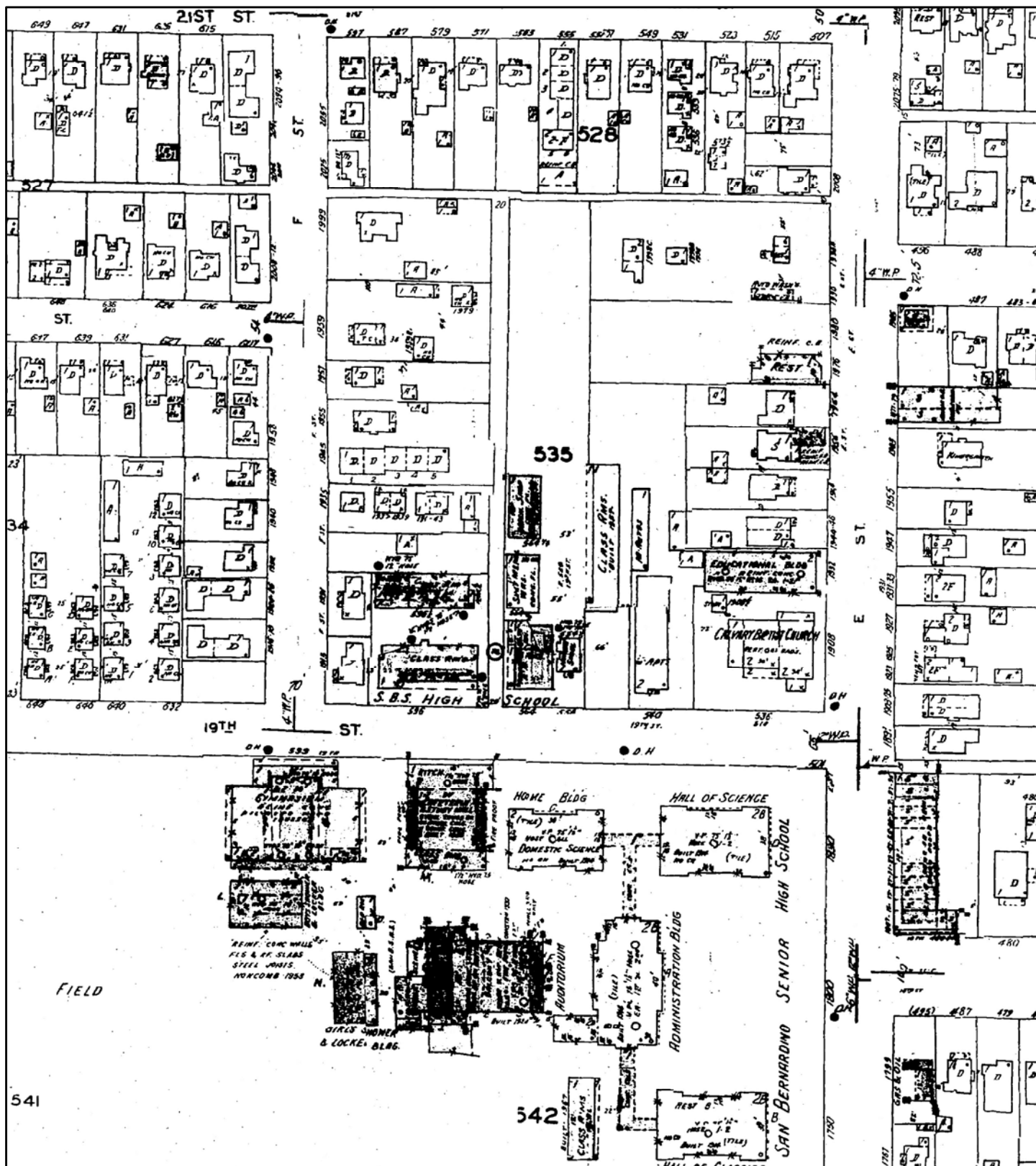
Map sheet(s):  
Volume NA:67;

67

Order Number 20180323119



# Fire Insurance Map



1963

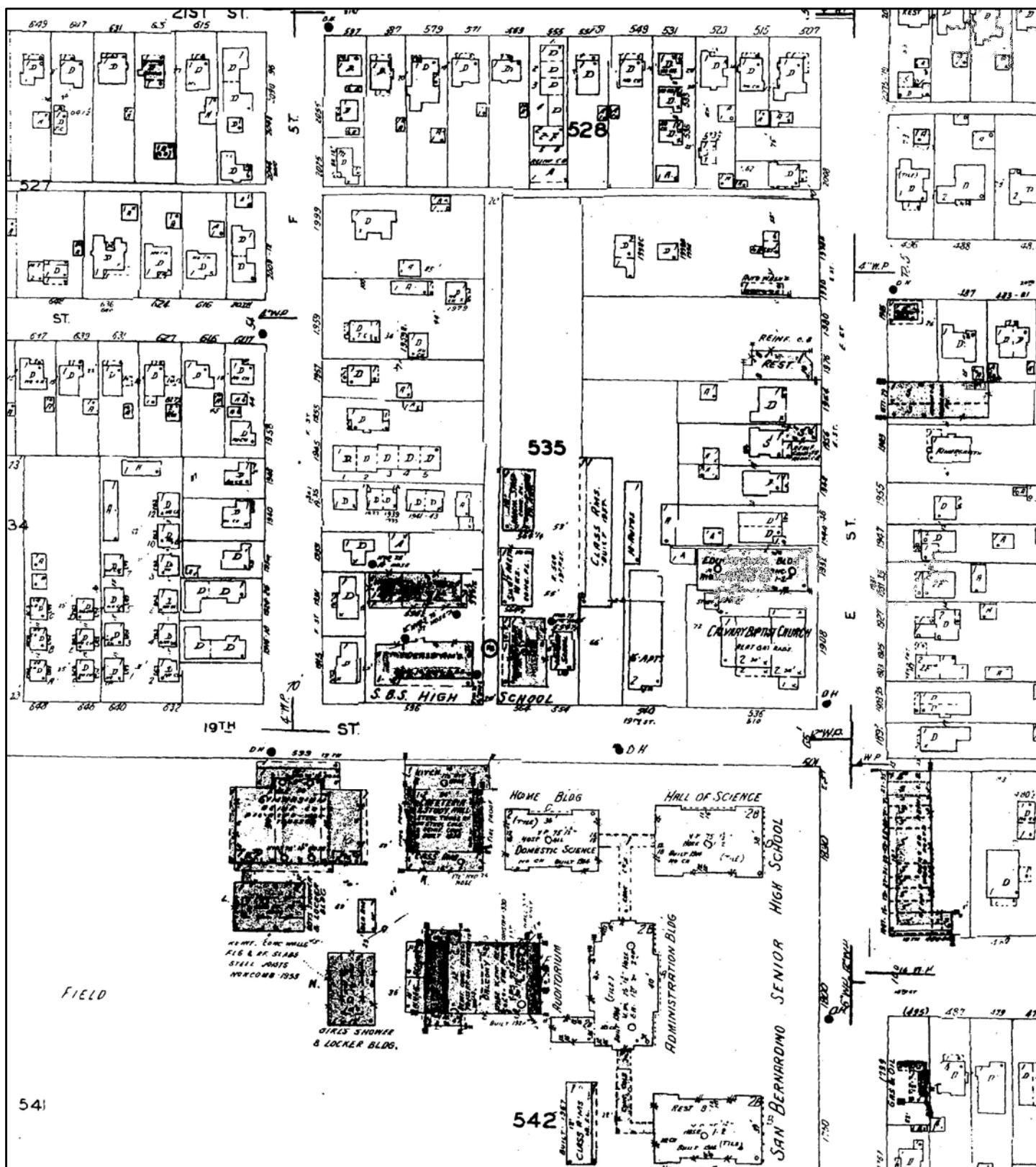
Address: 1850 N E St, San Bernardino, CA

Map sheet(s):  
Volume NA:67;

67

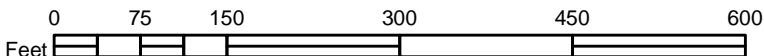
Order Number 20180323119

# Fire Insurance Map



1961

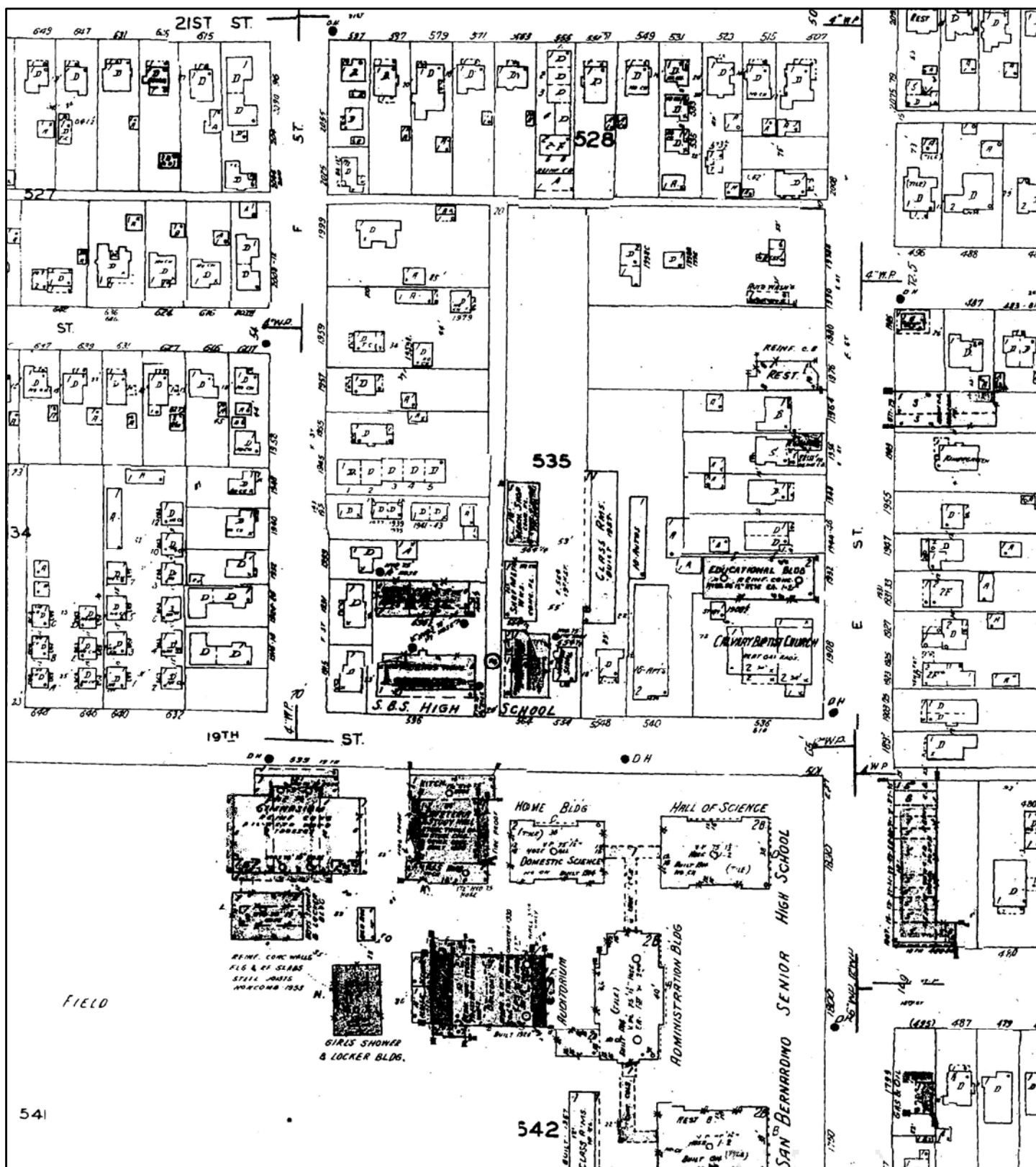
Address: 1850 N E St, San Bernardino, CA



Order Number 20180323119



# Fire Insurance Map



1959

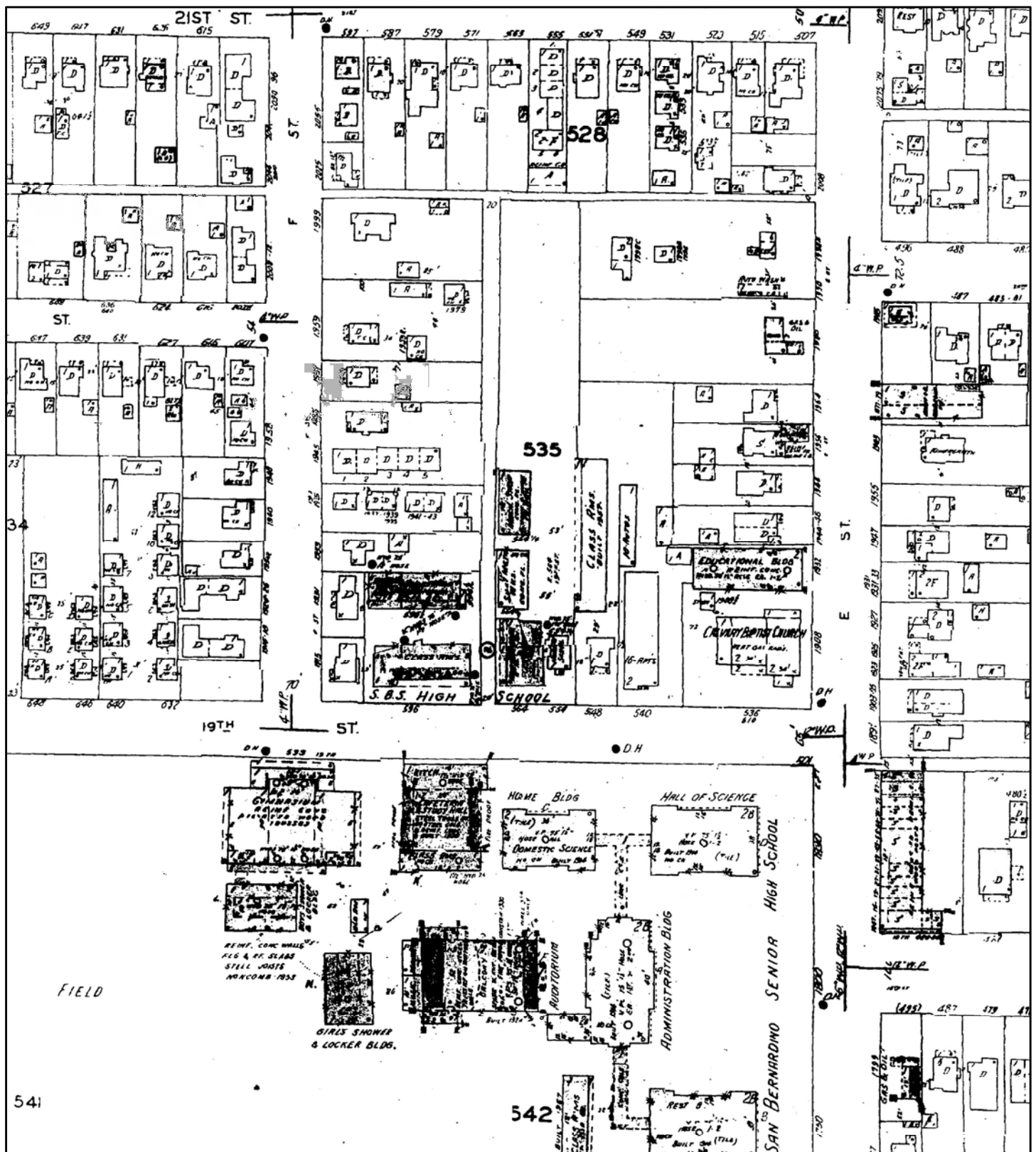
Address: 1850 N E St, San Bernardino, CA

Map sheet(s):  
Volume NA:67;

67

Order Number 20180323119

# Fire Insurance Map



1958

Address: 1850 N E St, San Bernardino, CA



0 75 150 300 450 600  
Feet

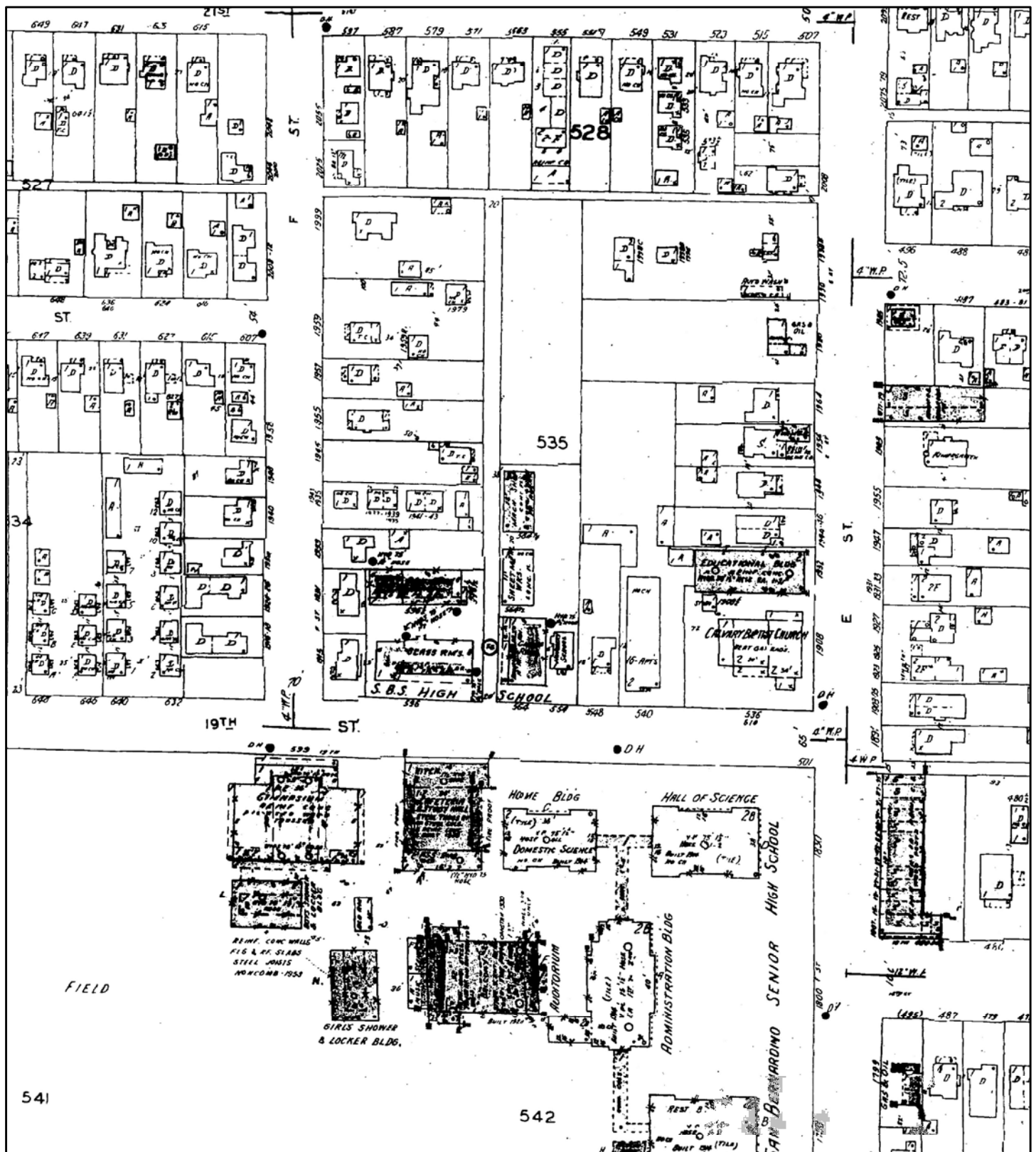
Order Number 20180323119

67

Map sheet(s):  
Volume NA:67;



# Fire Insurance Map



1957

Address: 1850 N E St, San Bernardino, CA

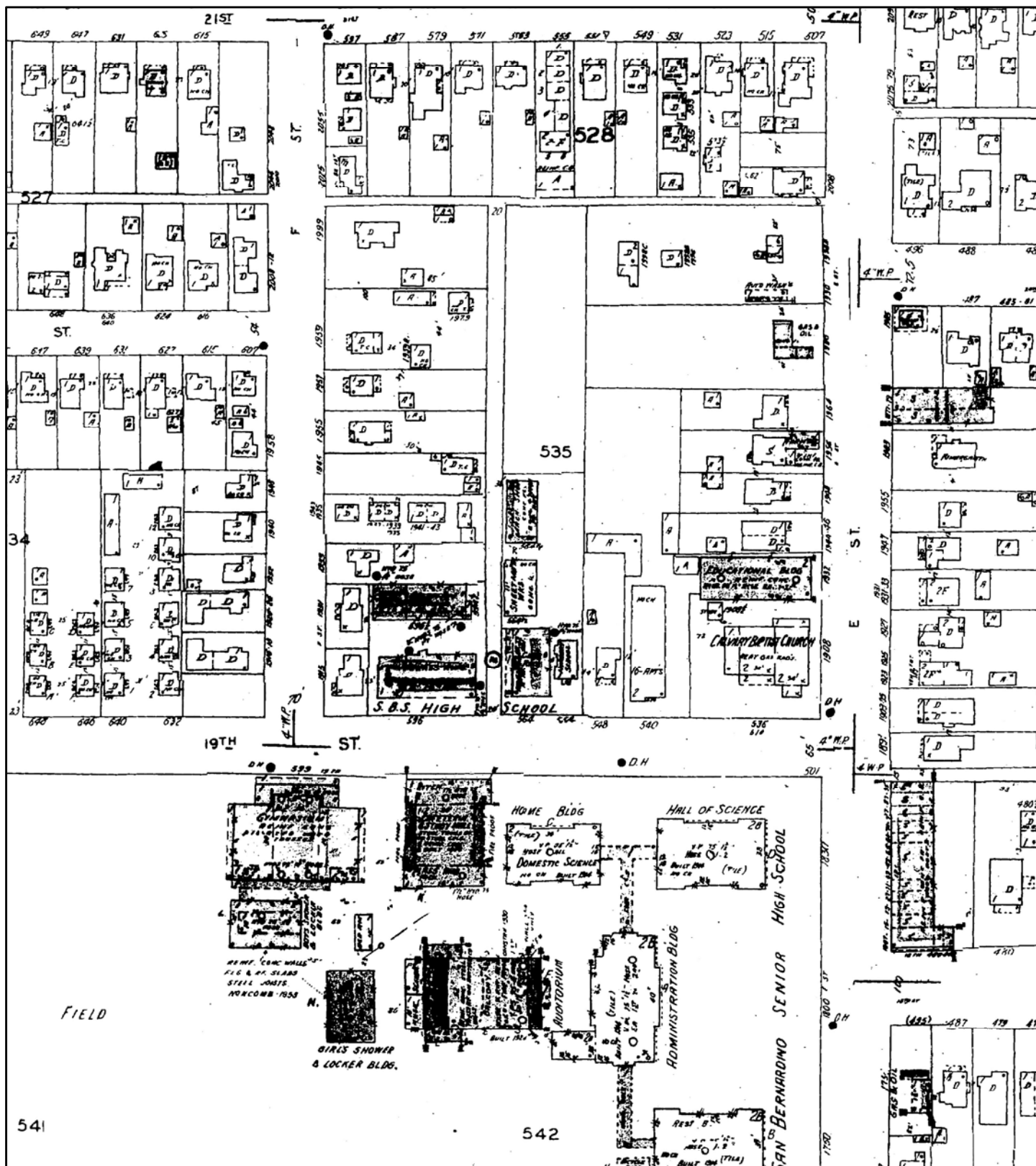
Map sheet(s):  
Volume NA:67;

67

Order Number 20180323119

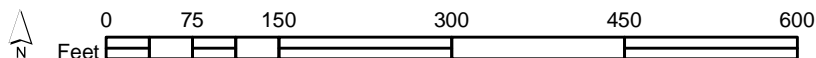


# Fire Insurance Map



1956

Address: 1850 N E St, San Bernardino, CA

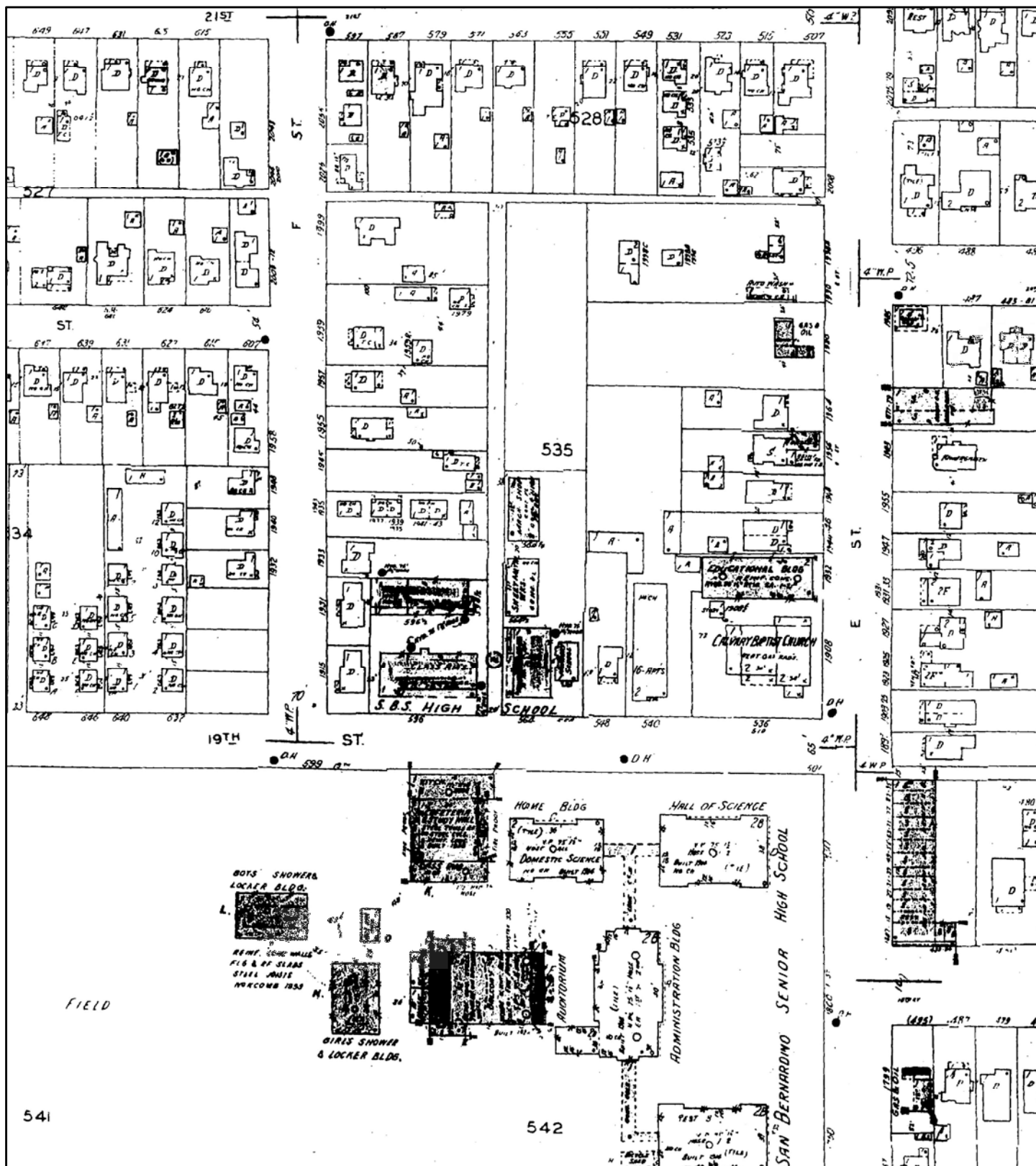


Order Number 20180323119

Map sheet(s):  
Volume NA:67;

67

# Fire Insurance Map



1954

Address: 1850 N E St, San Bernardino, CA

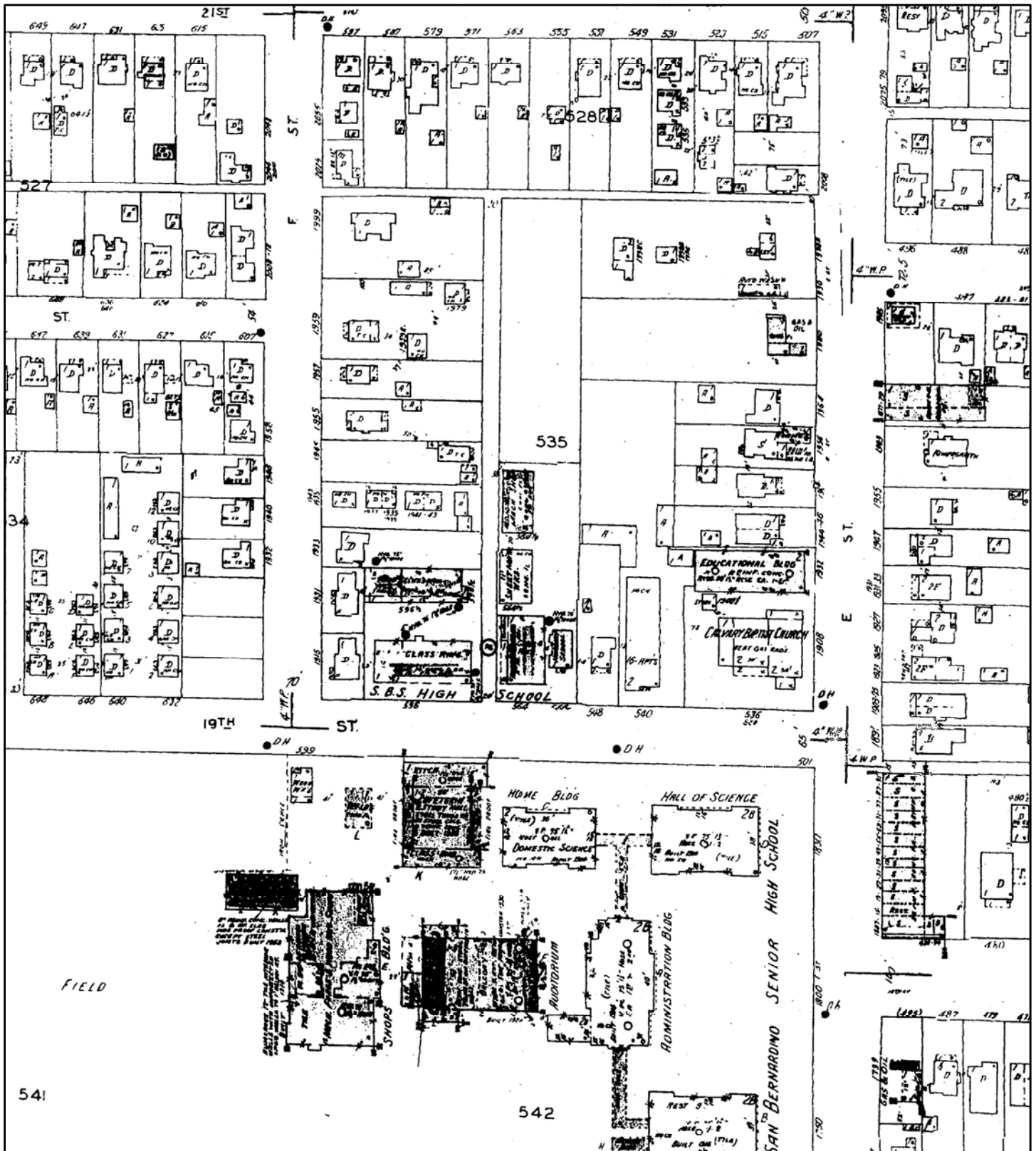
Map sheet(s):  
Volume NA:67;

67

Order Number 20180323119



# Fire Insurance Map



1953

Address: 1850 N E St, San Bernardino, CA

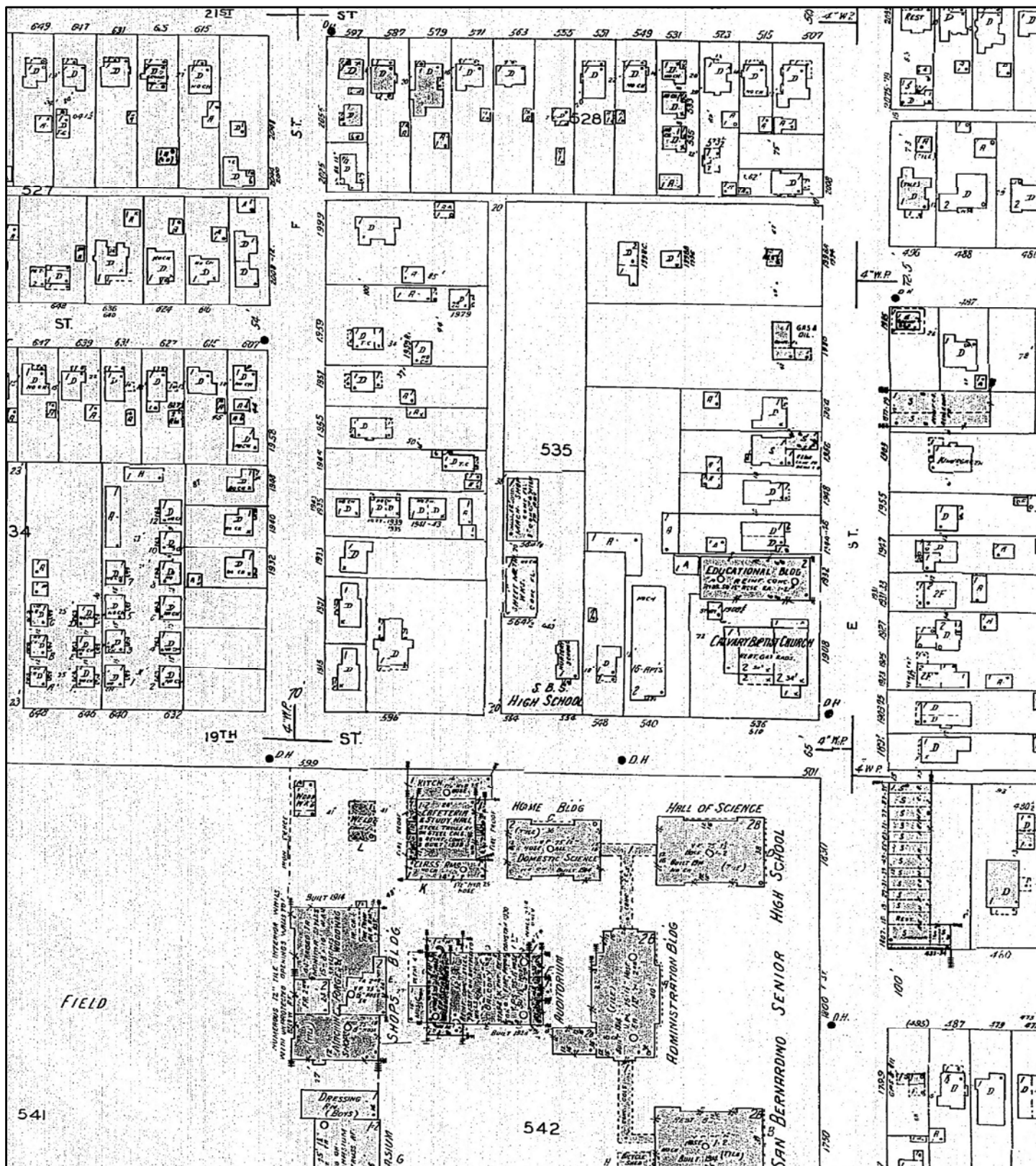
Map sheet(s):  
Volume NA:67;

67

Order Number 20180323119

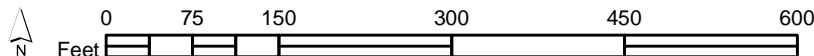


# Fire Insurance Map



1951

Address: 1850 N E St, San Bernardino, CA



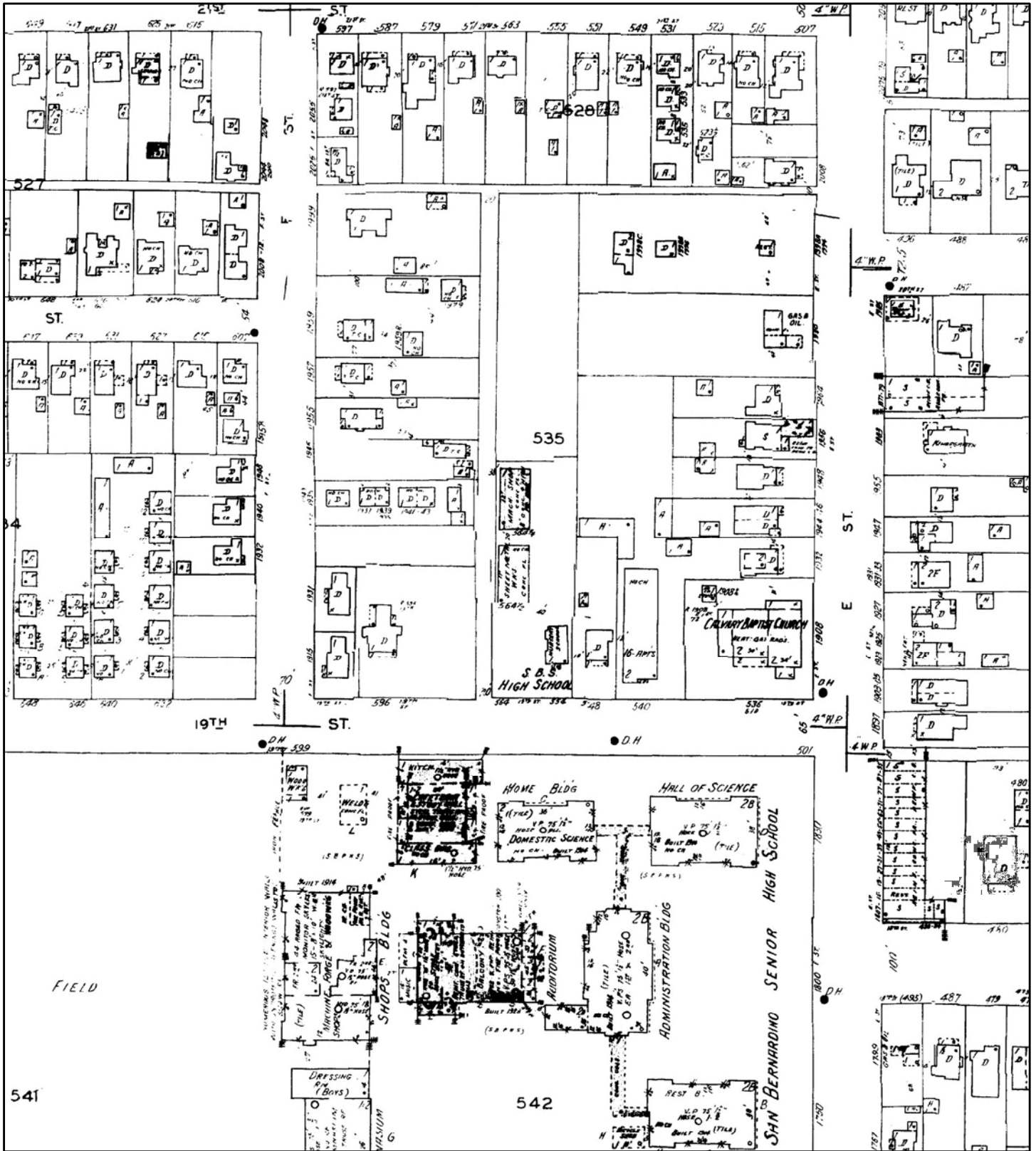
Order Number 20180323119

Map sheet(s):  
Volume NA:67;

67



# Fire Insurance Map



# 1950

**Address: 1850 N E St, San Bernardino, CA**

Map sheet(s):  
Volume NA:67;

67

Order Number 20180323119

**ERIS**  
ENVIRONMENTAL RISK INFORMATION SERVICES





## FIRE INSURANCE MAP RESEARCH RESULTS

Date: 3/24/2018

Listed below please find the results of our search for historic fire insurance maps from our in-house collection, performed in conjunction with your ERIS report.

Order Number: 20180323119

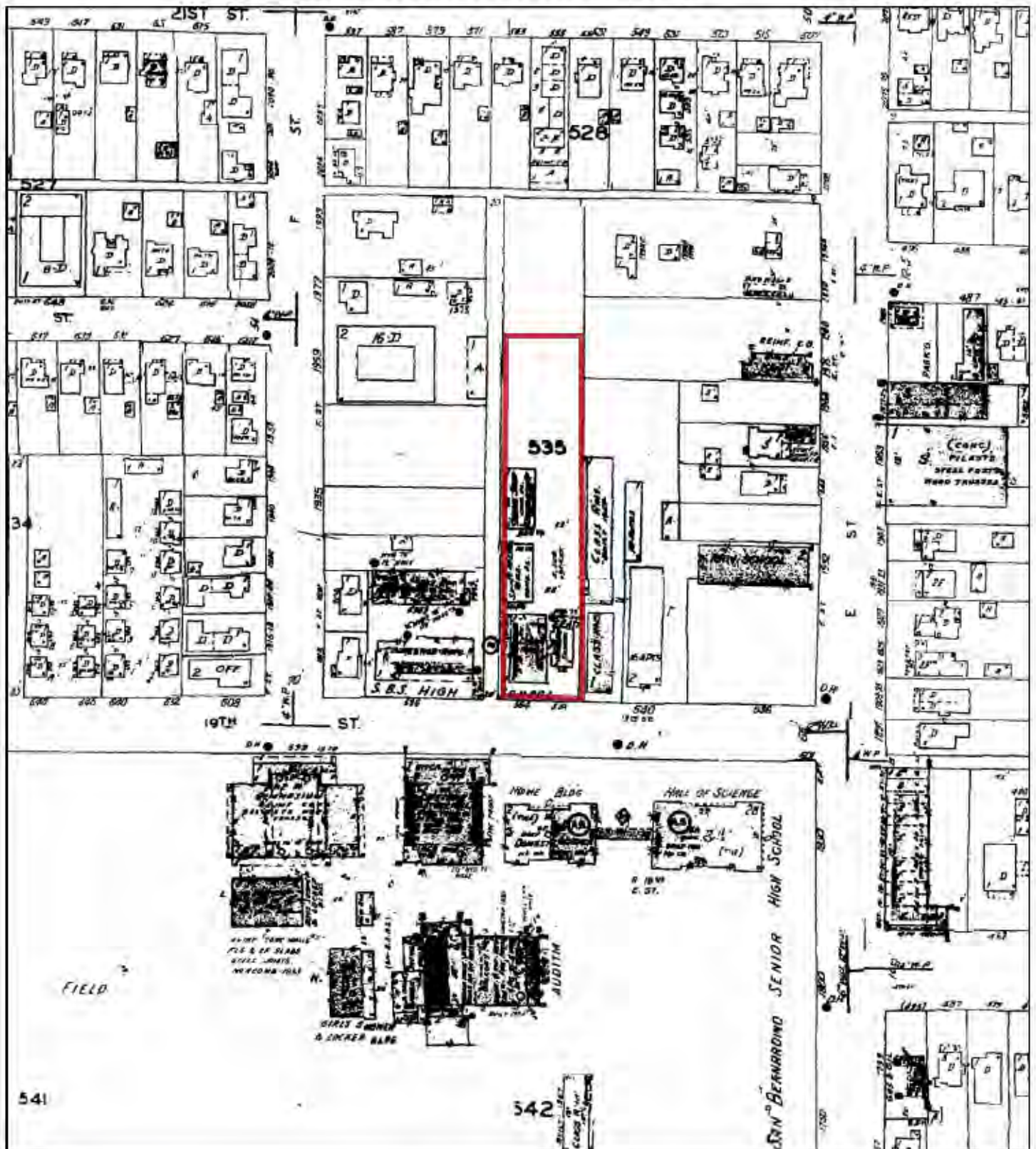
Site Name: SBCUSD - San Bernadino HS Classrooms M1-M4

Address: 1850 N E St, San Bernardino, CA

Date	City	State	Volume	Sheet Number(s)
1969	San Bernardino	California		67
1963	San Bernardino	California		67
1961	San Bernardino	California		67
1959	San Bernardino	California		67
1958	San Bernardino	California		67
1957	San Bernardino	California		67
1956	San Bernardino	California		67
1954	San Bernardino	California		67
1953	San Bernardino	California		67
1951	San Bernardino	California		67
1950	San Bernardino	California		67

*Individual Fire Insurance Maps for the subject property and/or adjacent sites are included with the ERIS environmental database report to be used for research purposes only and cannot be resold for any other commercial uses other than for use in a Phase I environmental assessment.*

# Fire Insurance Map



1969

Address: 1850 N E St, San Bernardino, CA

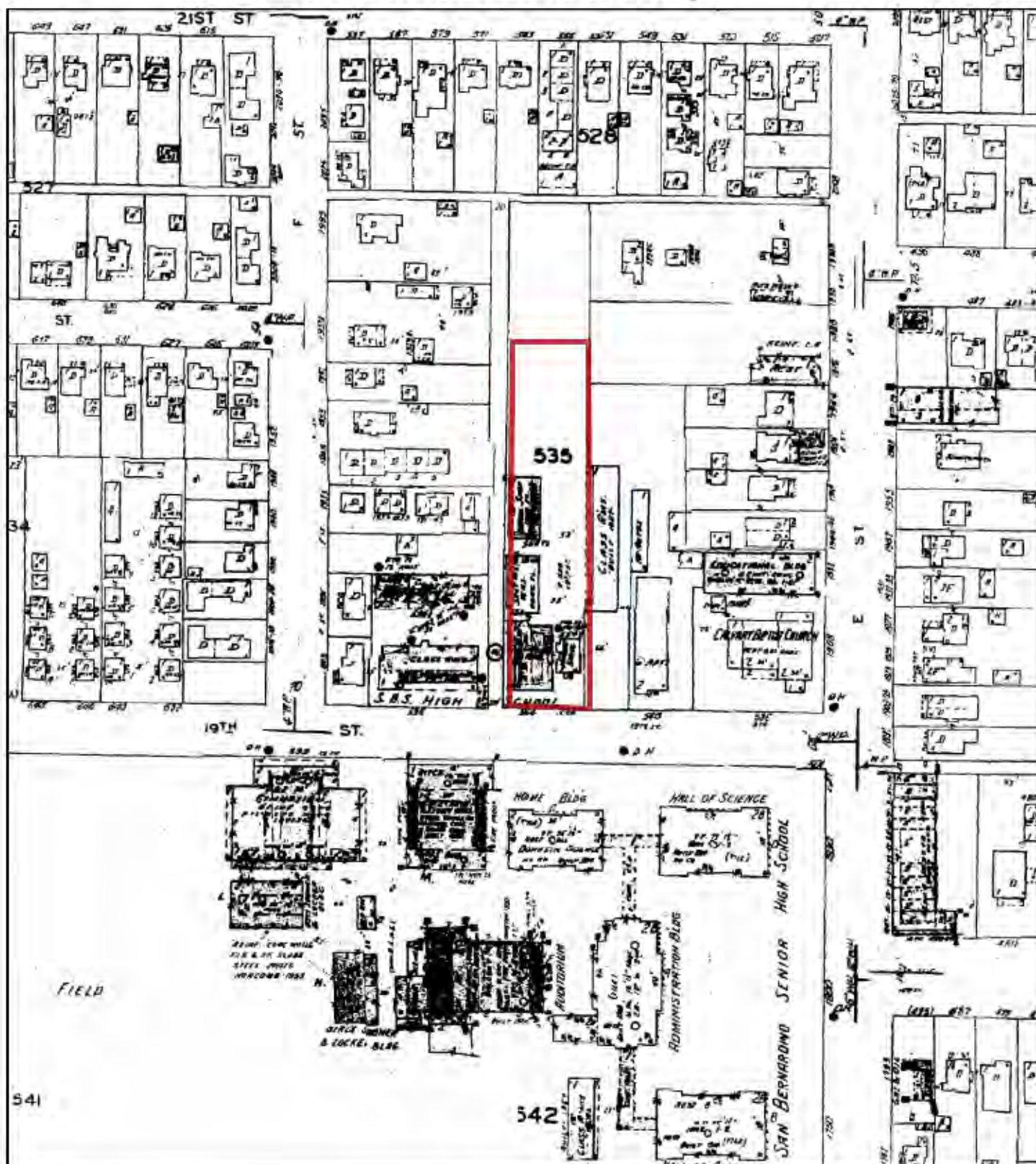
Map sheet(s):  
Volume NA:67;

67

Order Number 20180323119



# Fire Insurance Map



1963

Address: 1850 N E St, San Bernardino, CA



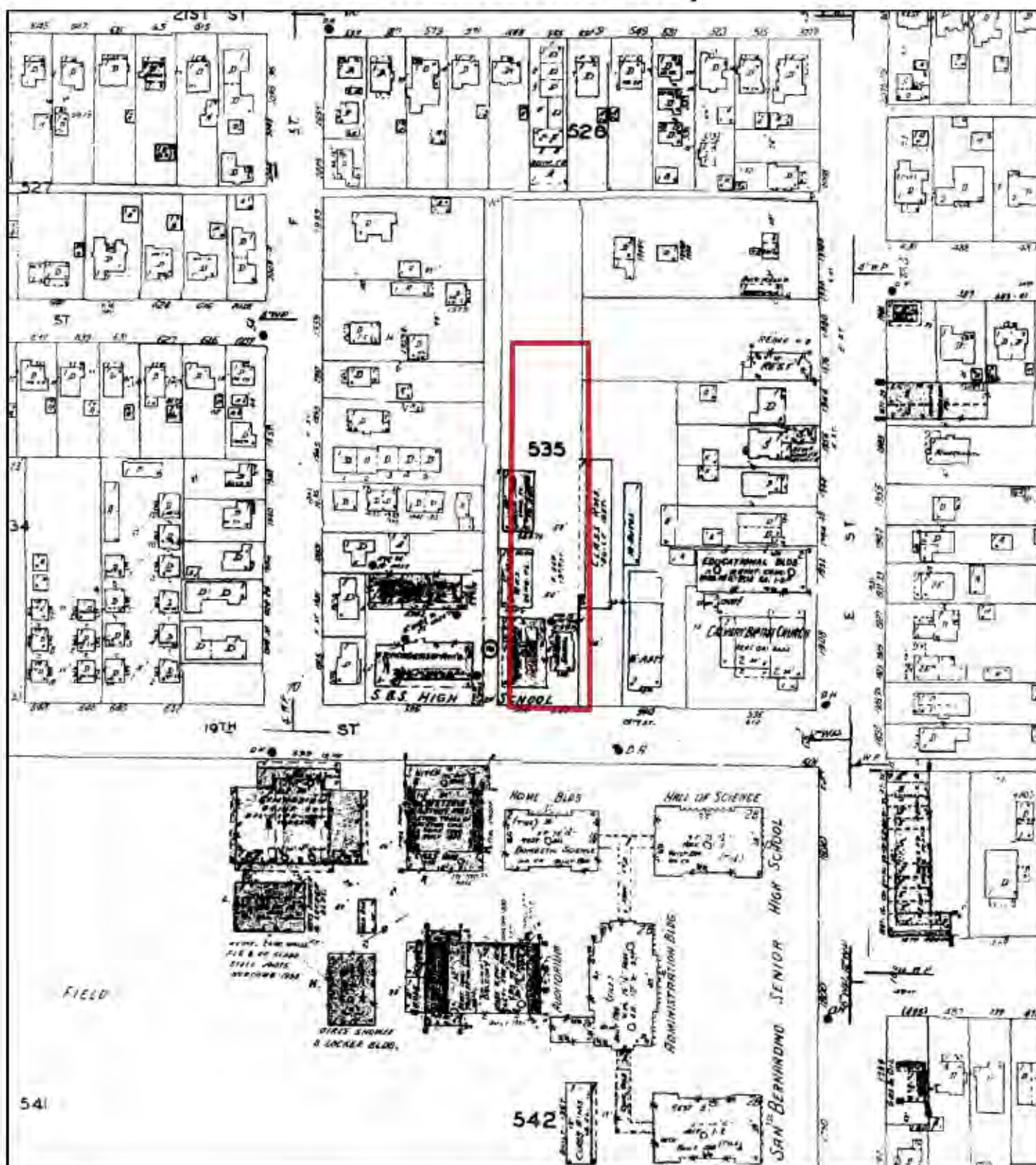
Order Number 20180323119



Map sheet(s):  
Volume NA:67;

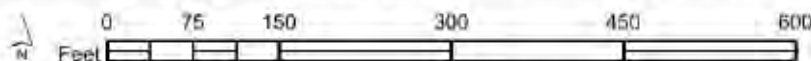


# Fire Insurance Map



1961

Address: 1850 N E St, San Bernardino, CA



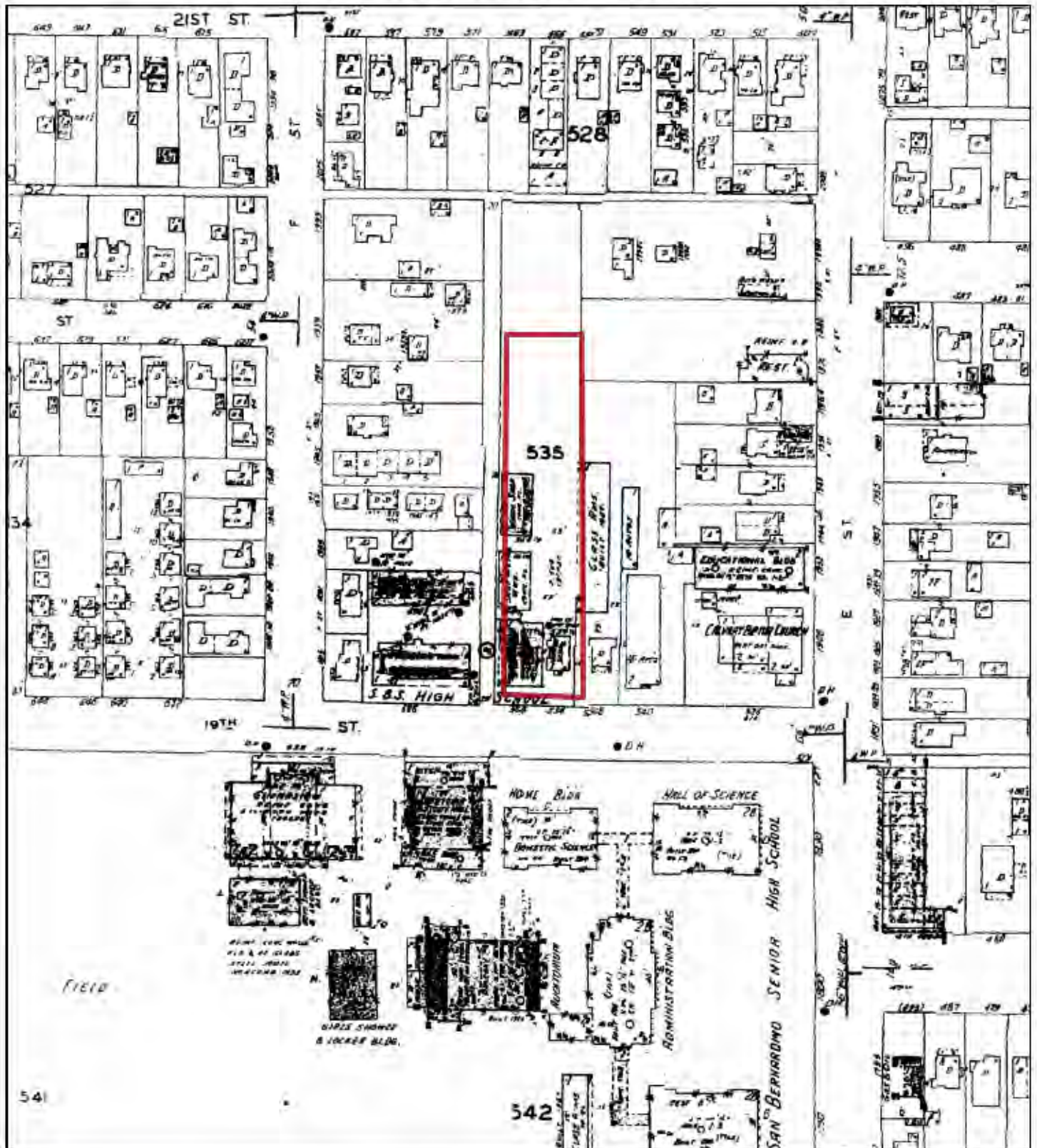
Order Number 20180323119



Map sheet(s):  
Volume NA:67;



# Fire Insurance Map



1959

Address: 1850 N E St, San Bernardino, CA

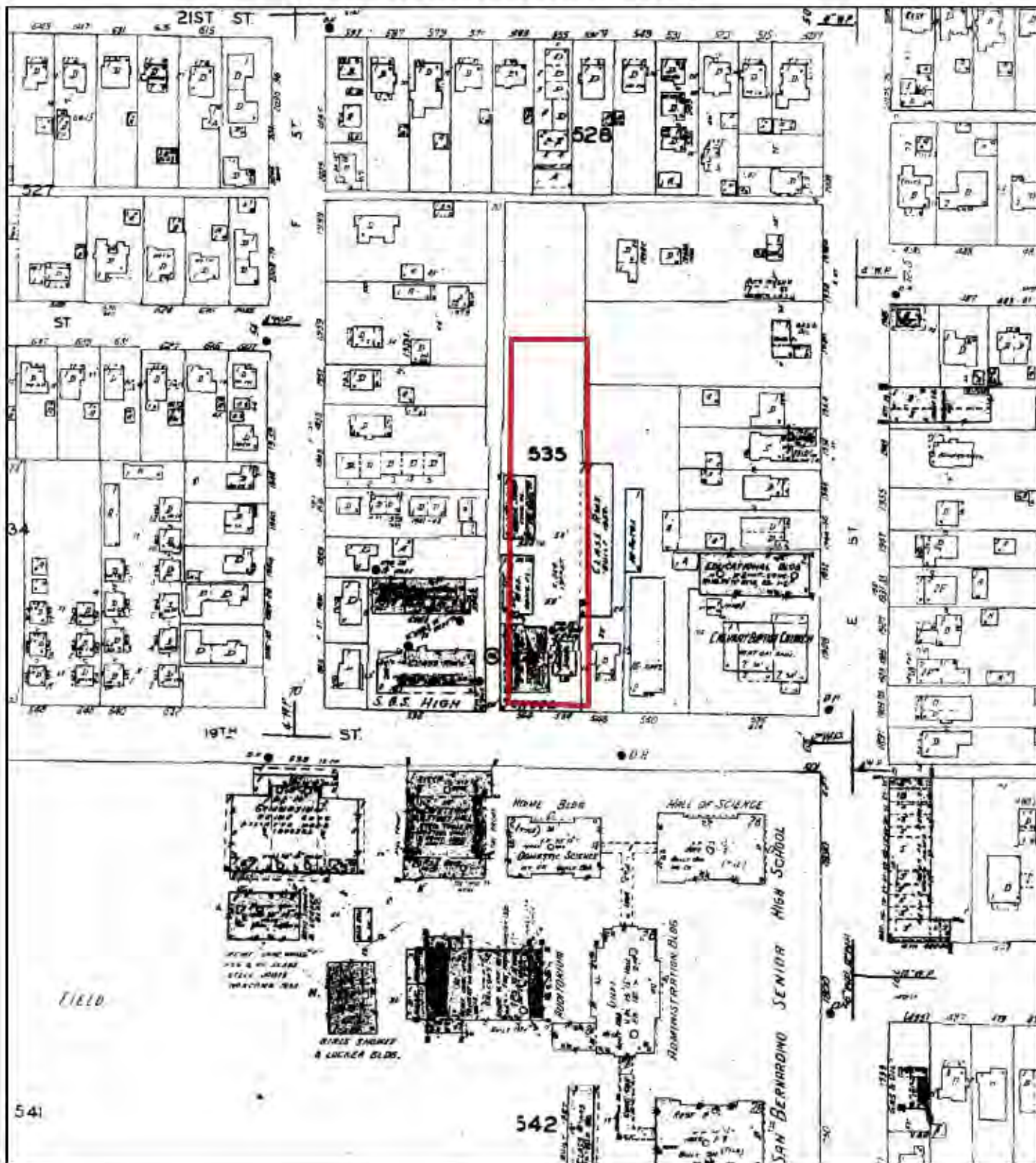
Order Number 20180323119



Map sheet(s):  
Volume NA:67;



# Fire Insurance Map



## 1958

**Address: 1850 N E St, San Bernardino, CA**

Map sheet(s):  
Volume NA:67:

67

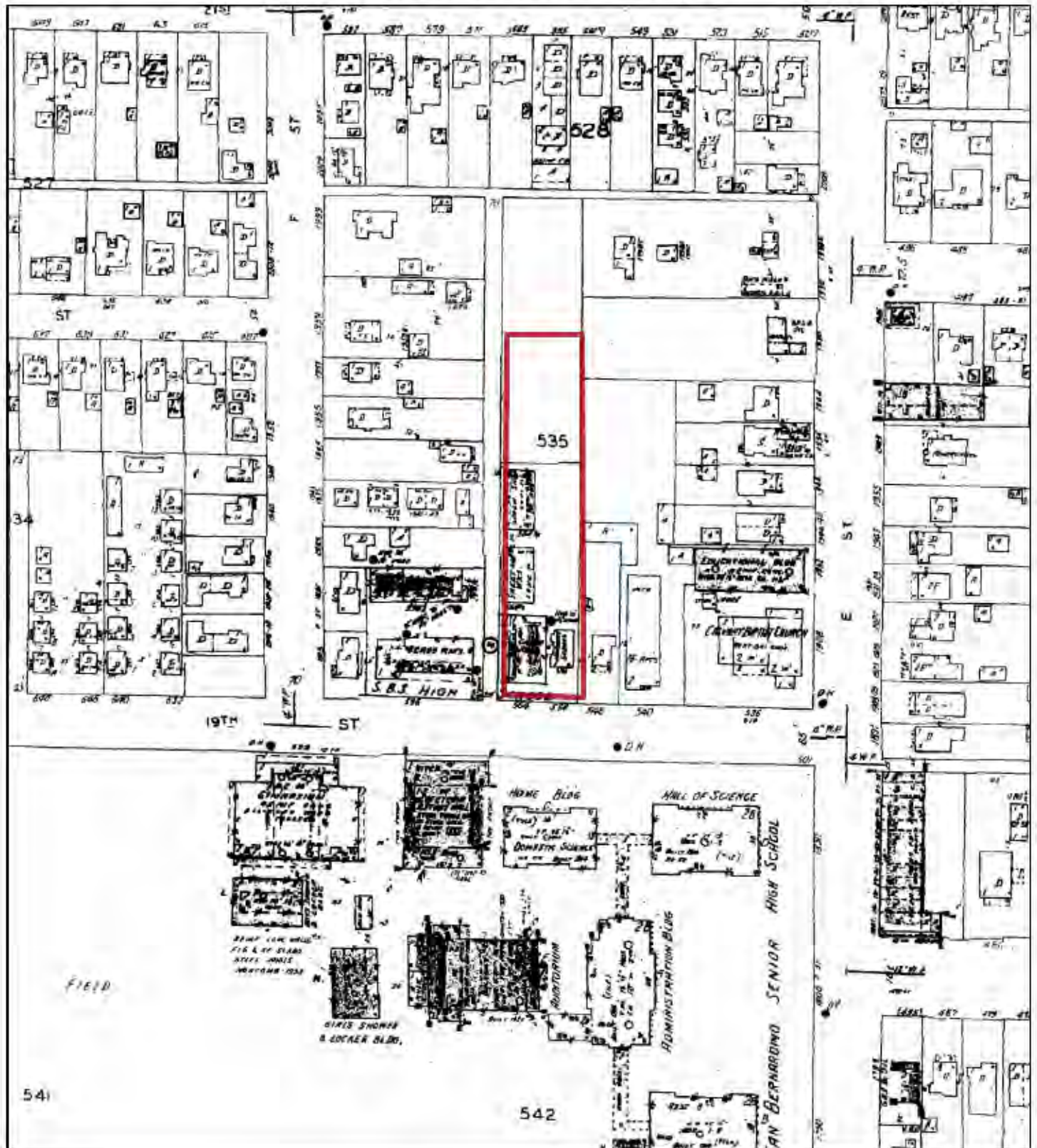
Order Number 20180323119

**ERIS**  
ENVIRONMENTAL RISK INFORMATION SERVICES



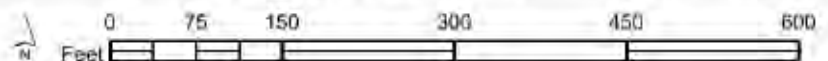


# Fire Insurance Map



1957

Address: 1850 N E St, San Bernardino, CA



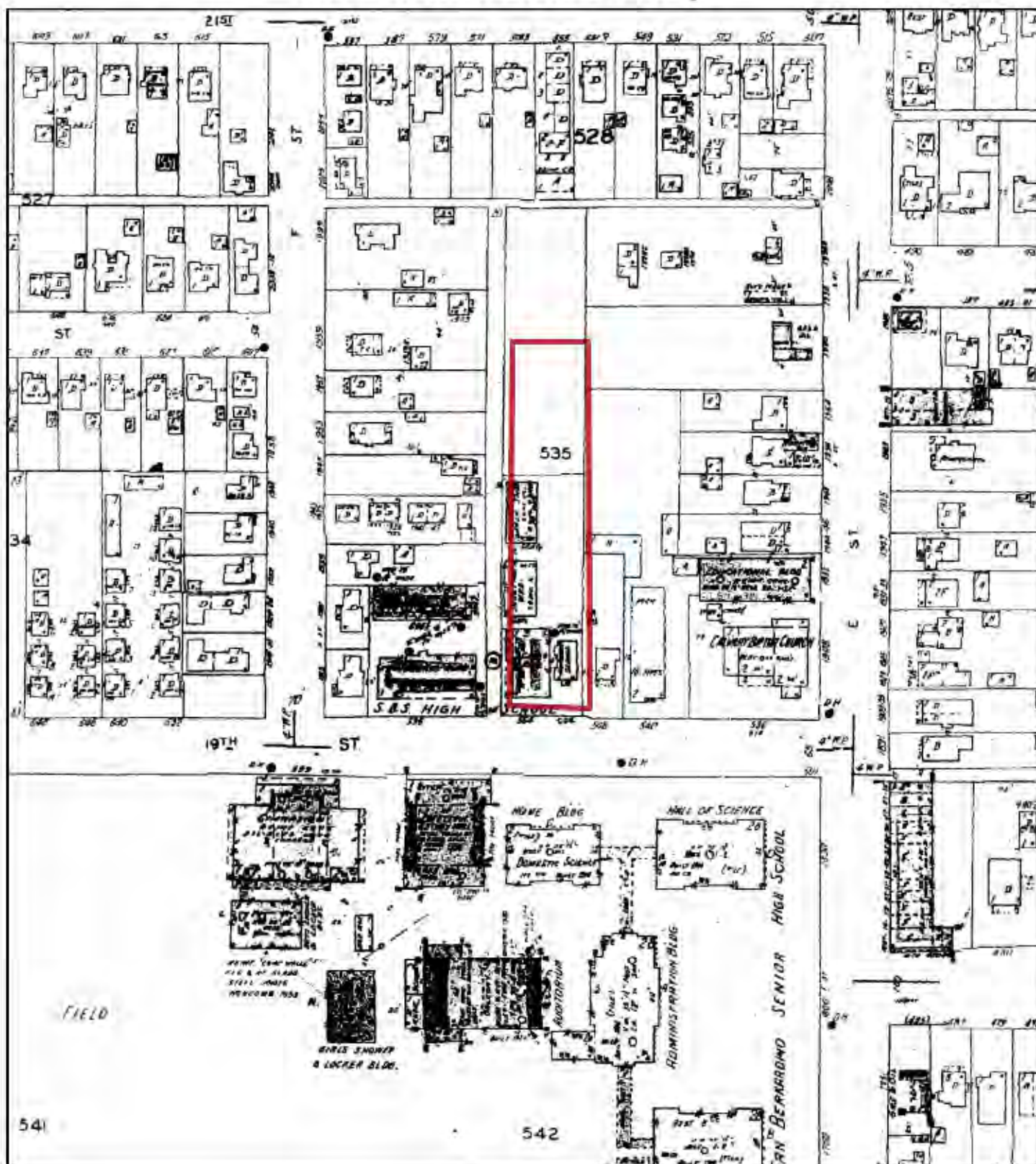
Order Number 20180323119



Map sheet(s):  
Volume NA:67;



# Fire Insurance Map

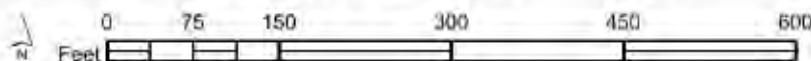


**1956**

Address: 1850 N E St, San Bernardino, CA



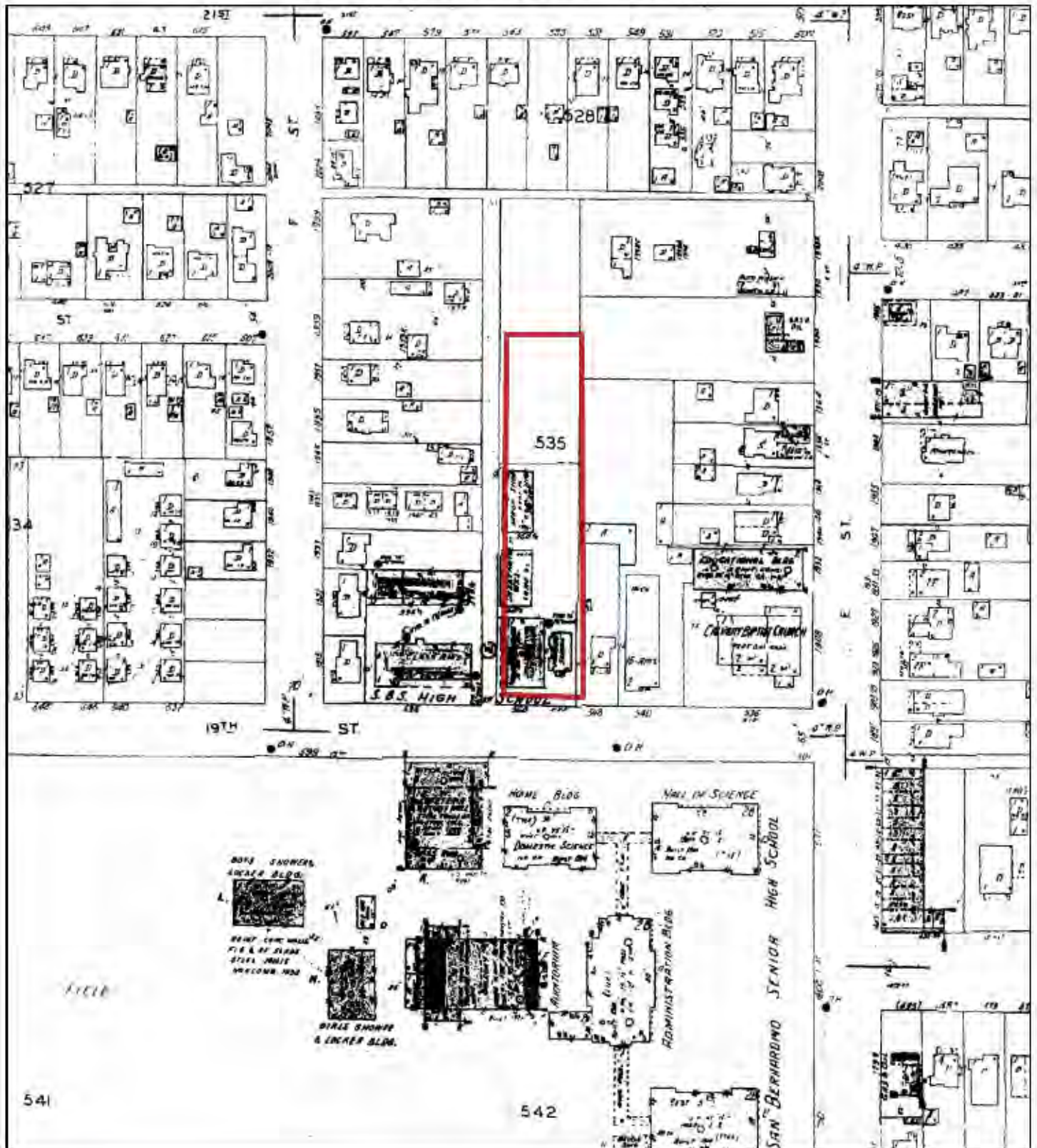
Map sheet(s):  
Volume NA:67;



Order Number 20180323119



# Fire Insurance Map



1954

Address: 1850 N E St, San Bernardino, CA



Map sheet(s):  
Volume NA:67;

Order Number 20180323119



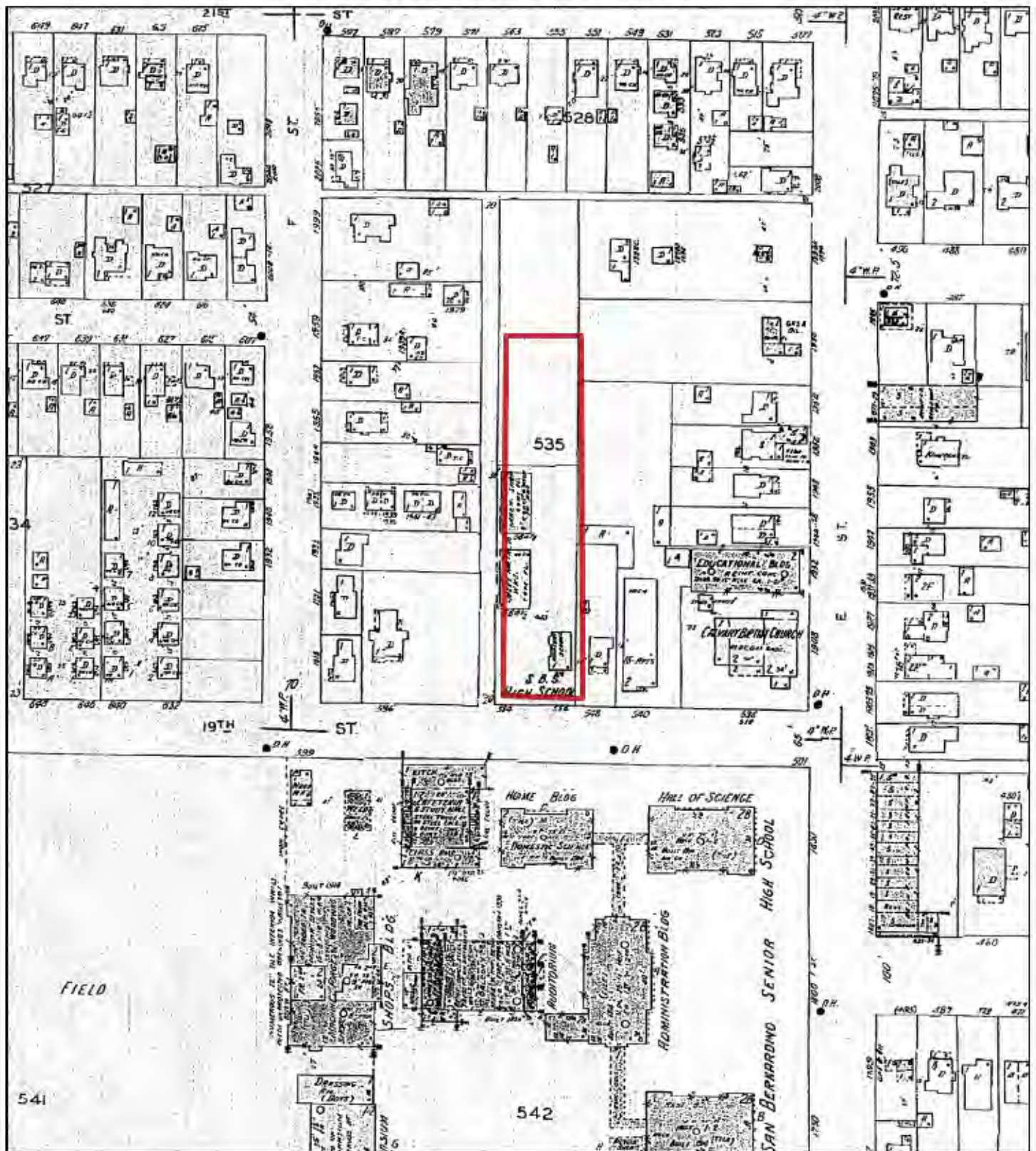
The map shows the San Bernardino Senior High School campus. Key buildings include the Home Bldg, Hall of Science, Administration Bldg, Educational Bldg, and a building labeled '535' which is highlighted with a red rectangle. The map also shows surrounding streets like 19th St and 18th St, and a large field area. The map is oriented with North at the top.

67

**ERIS**  
STATEMENT OF INFORMATION SERVICES

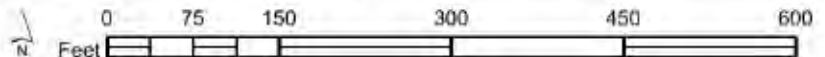


# Fire Insurance Map



1951

Address: 1850 N E St, San Bernardino, CA



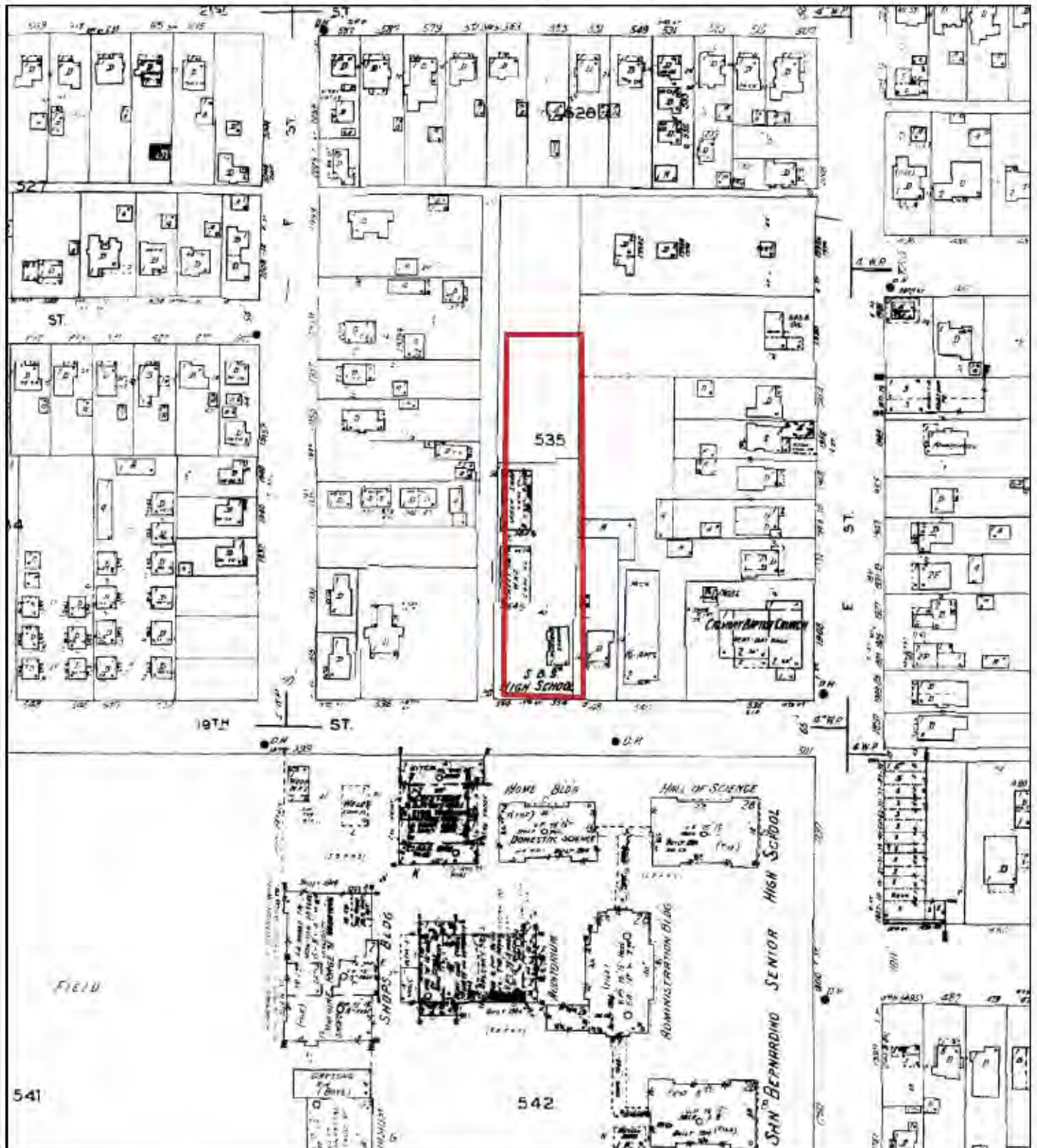
Order Number 20180323119

67

Map sheet(s):  
Volume NA:67;

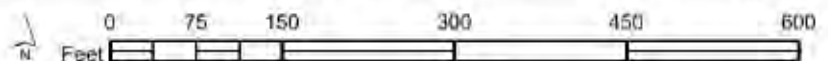


# Fire Insurance Map



1950

Address: 1850 N E St, San Bernardino, CA



Order Number 20180323119



Map sheet(s):  
Volume NA:67;



## TOPOGRAPHIC MAP RESEARCH RESULTS

Date: 2018-03-24

Order Number: 20180323119

Site Name: SBCUSD - San Bernadino HS Classrooms M1-M4

Address: 1850 N E St, San Bernardino, CA, 92405

We have searched USGS collections of current topographic maps and historical topographic maps for the project property. Below is a list of maps found for the project property and adjacent area. Maps are from 7.5 and 15 minute topographic map series, if available.

Year	Map Series
2015	7.5
1996	7.5
1988	7.5
1980	7.5
1975	7.5
1973	7.5
1967	7.5
1954	7.5
1941	7.5
1936	7.5
1954	15
1901	15
1898	15
1896	15

*Topographic Maps included in this report are produced by the USGS and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property.*

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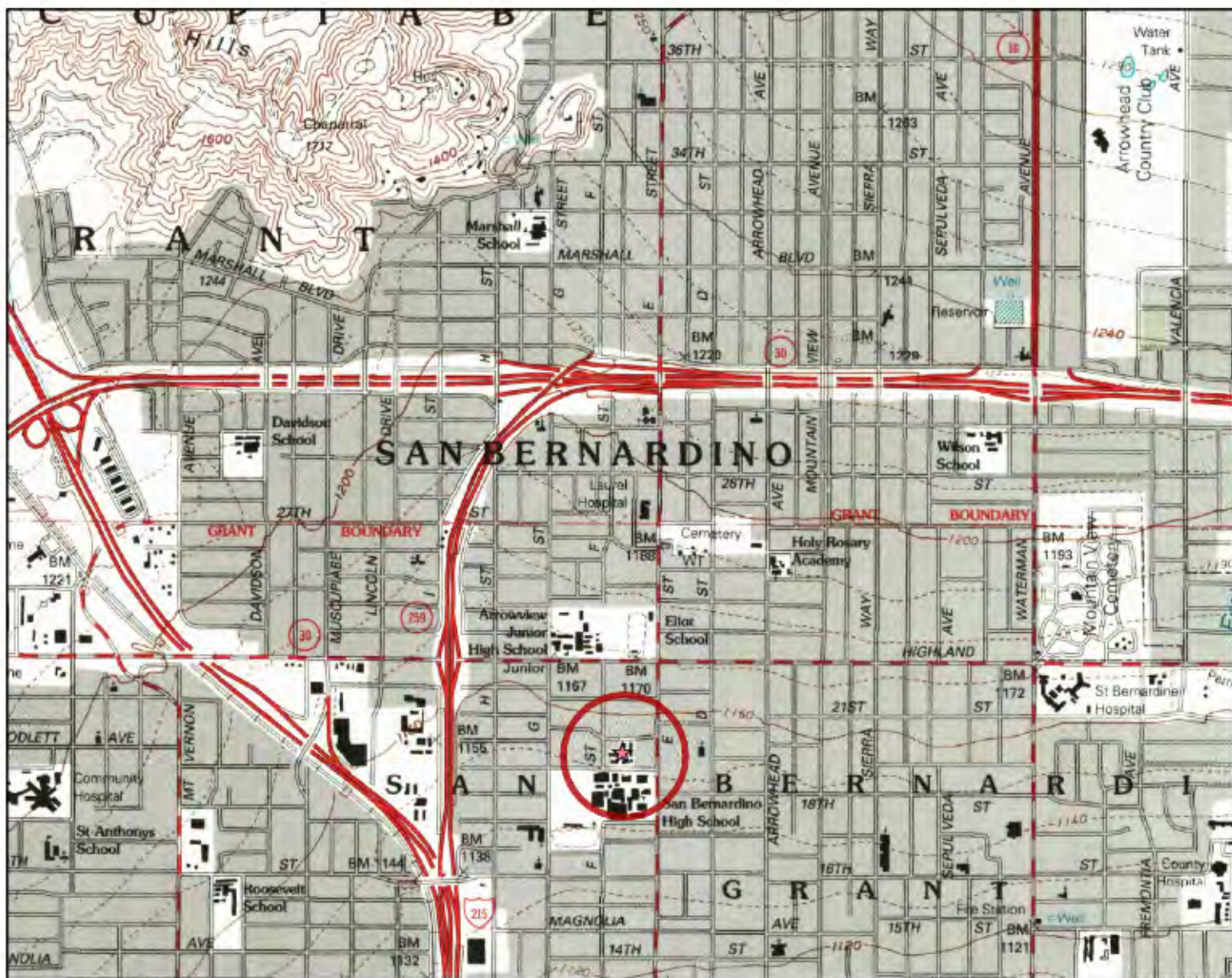
Address: 38 Leasmill Road Unit 2, Toronto, ON M3B 2T5

Phone: 1-866-517-5204 Fax: 416-447-7658

[info@erisinfo.com](mailto:info@erisinfo.com) [www.erisinfo.com](http://www.erisinfo.com)







1996



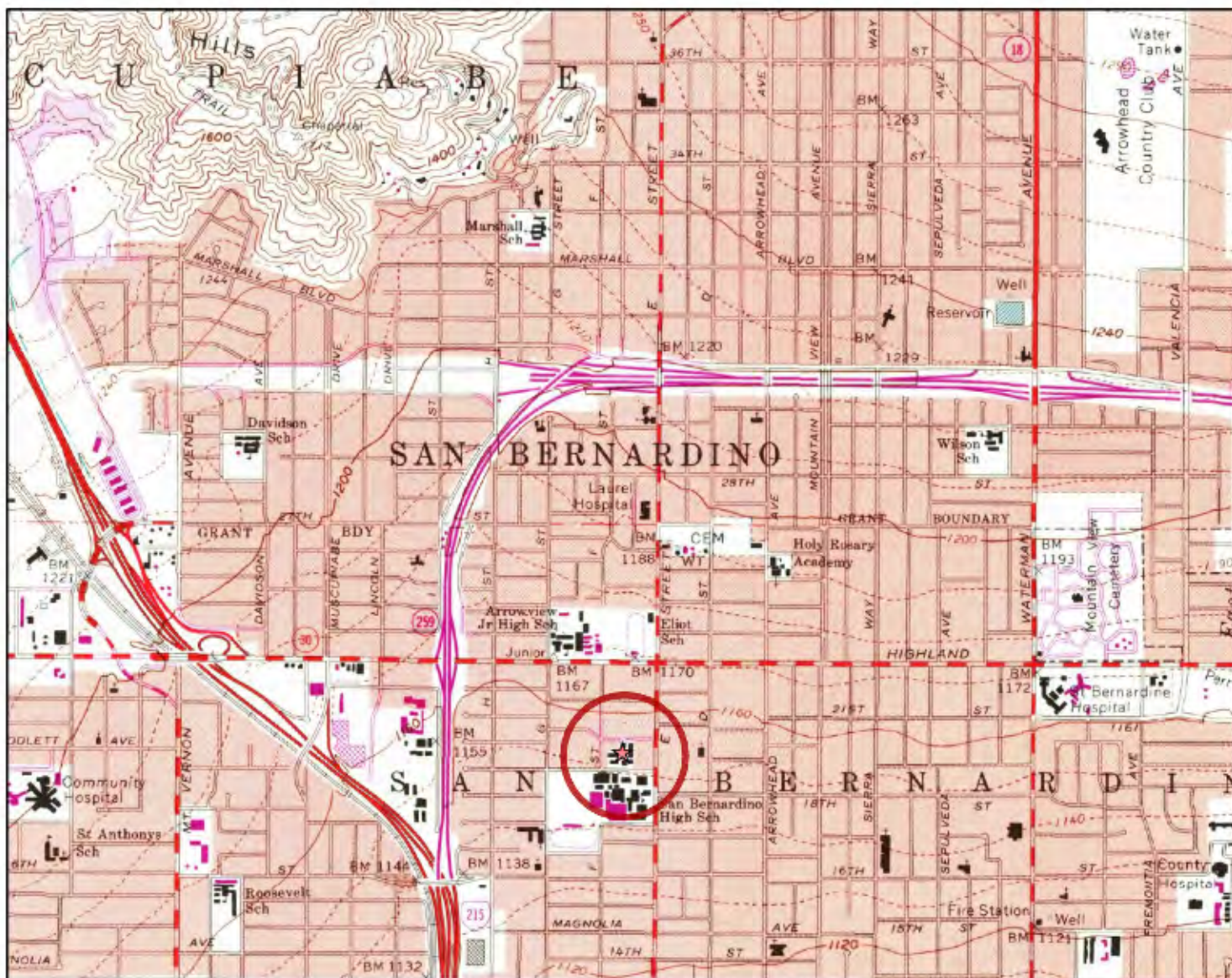
Order No. 20180323119

Quadrangle(s): San Bernardino North, CA

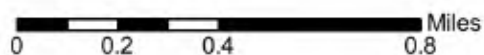
Source: USGS 7.5 Minute Topographic Map







1988



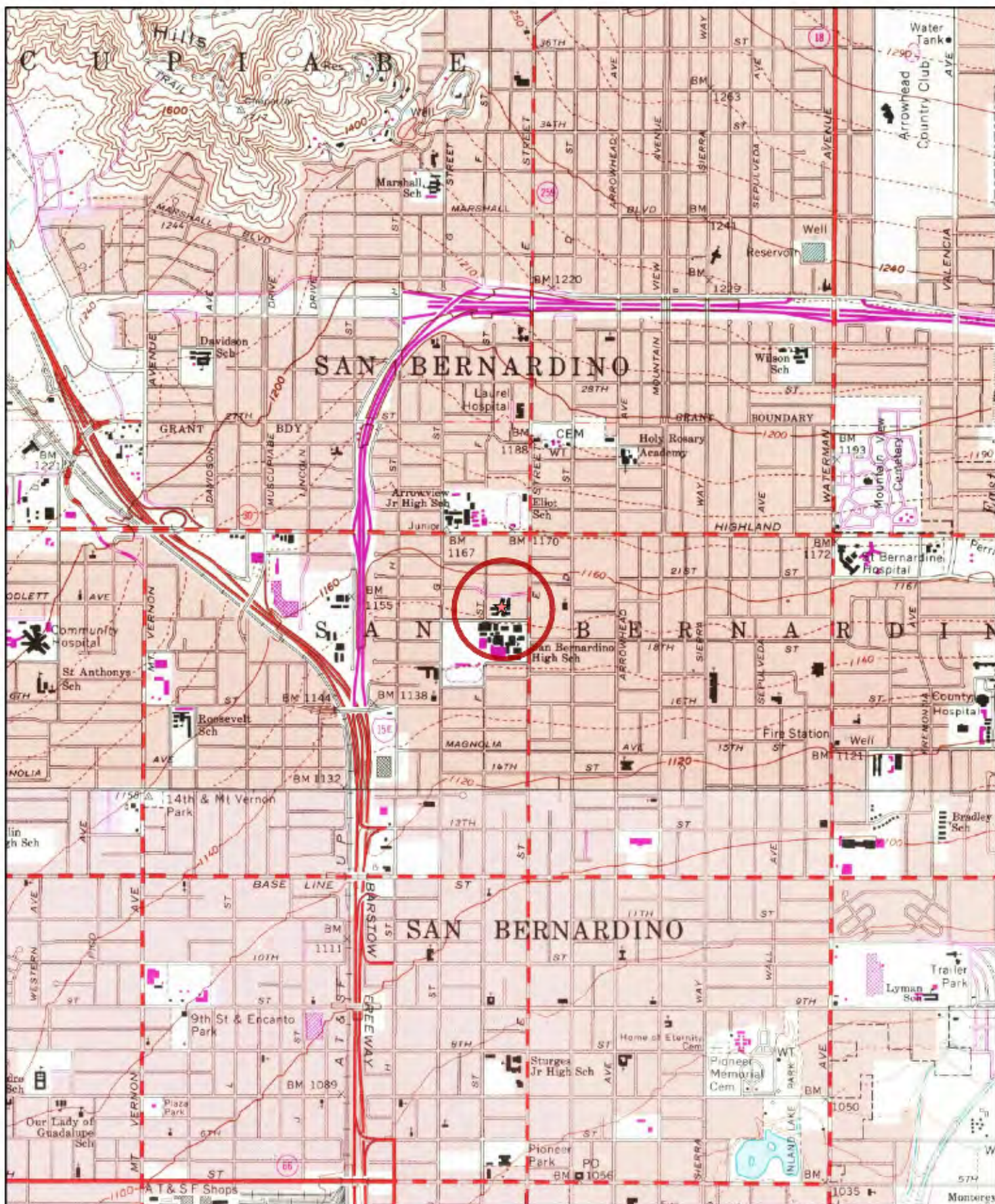
Order No. 20180323119

Quadrangle(s): San Bernardino North, CA

Source: USGS 7.5 Minute Topographic Map







1980

0 0.2 0.4 0.8 Miles

Order No. 20180323119

Quadrangle(s): San Bernardino North, CA

Source: USGS 7.5 Minute Topographic Map





**1975**

0 0.2 0.4 0.8 Miles

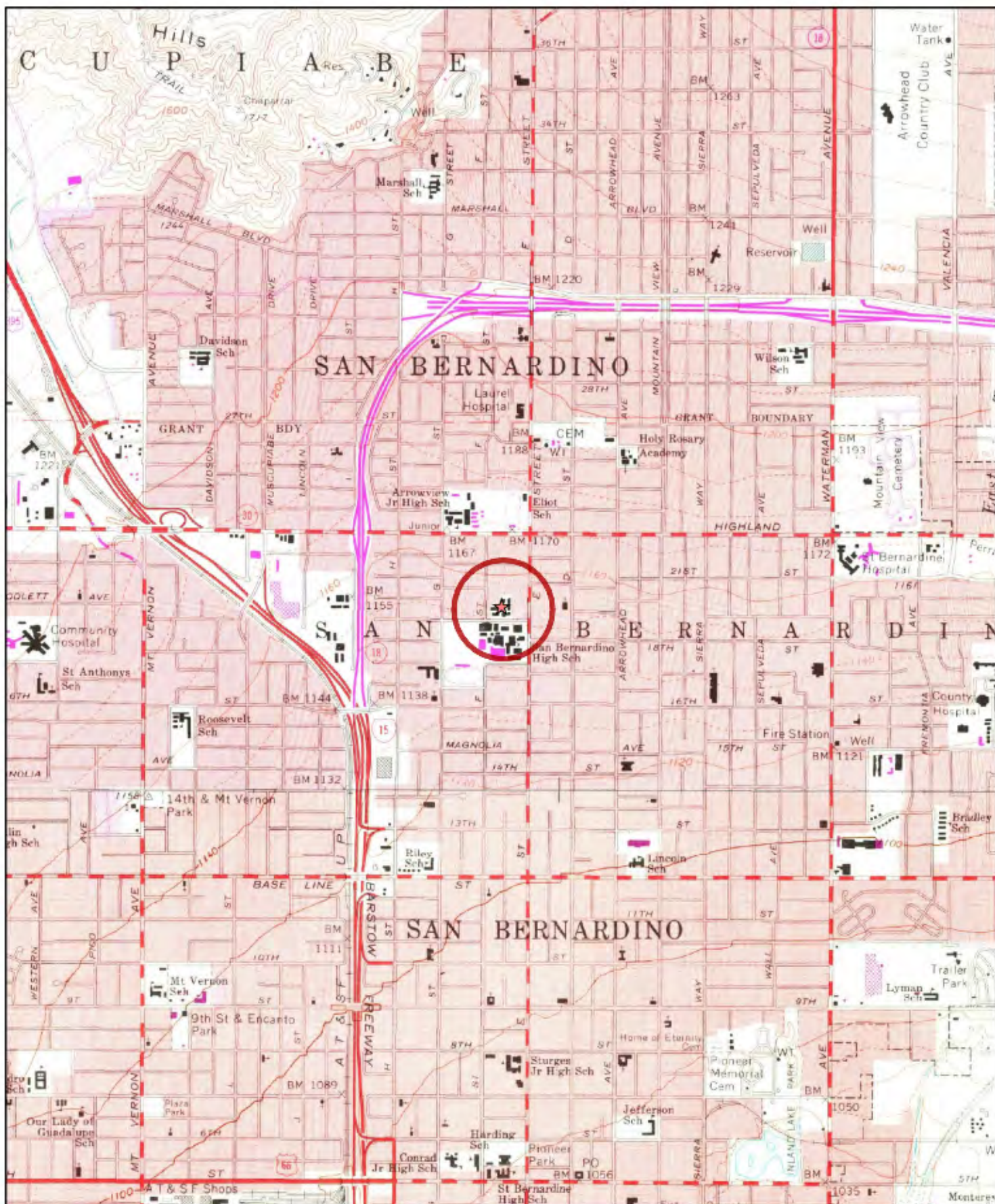
Order No. 20180323119

**Quadrangle(s): San Bernardino North, CA**

Source: USGS 7.5 Minute Topographic Map







1973

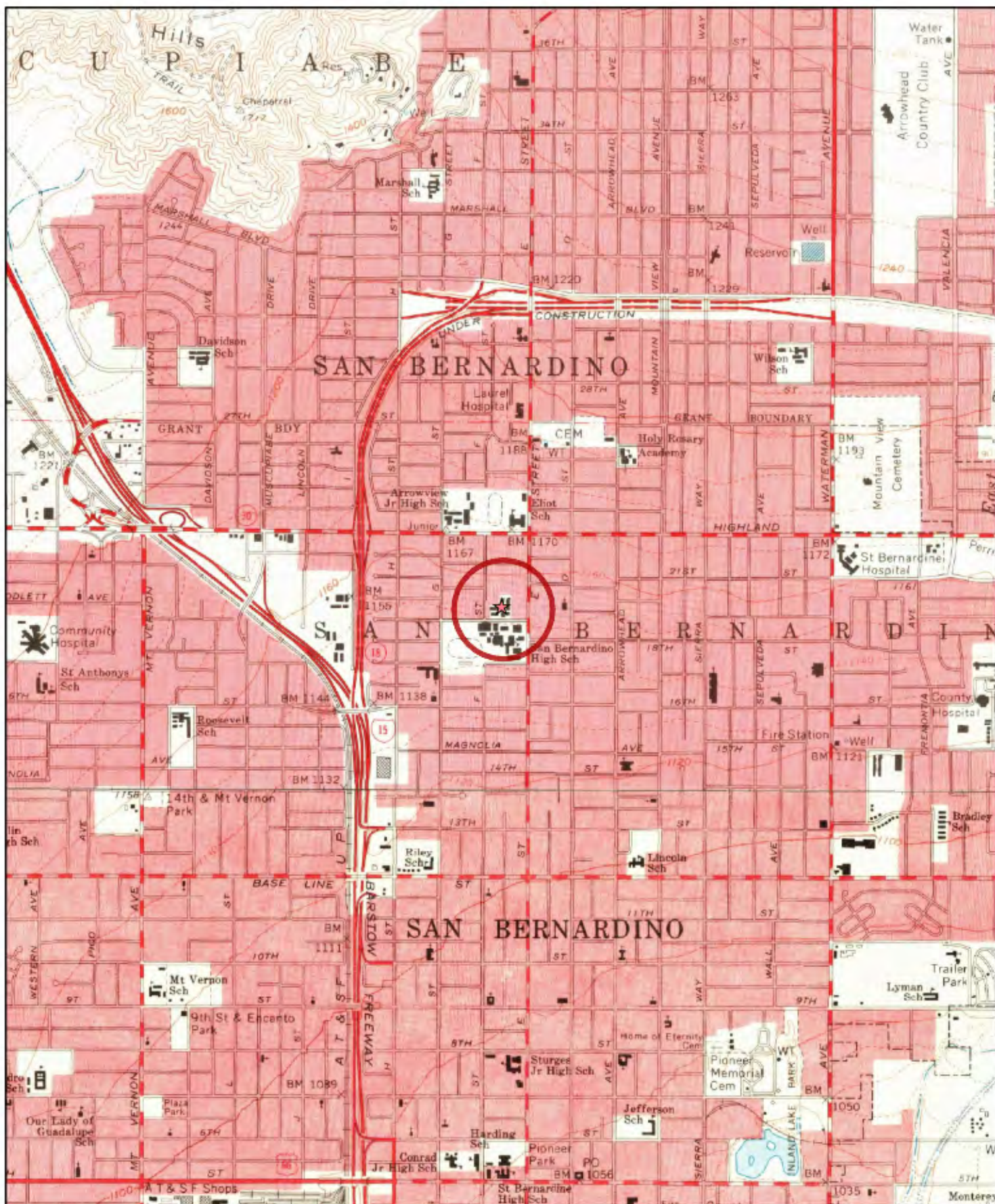
0 0.2 0.4 0.8 Miles

Order No. 20180323119

Quadrangle(s): San Bernardino North, CA

Source: USGS 7.5 Minute Topographic Map





1967

0 0.2 0.4 0.8 Miles

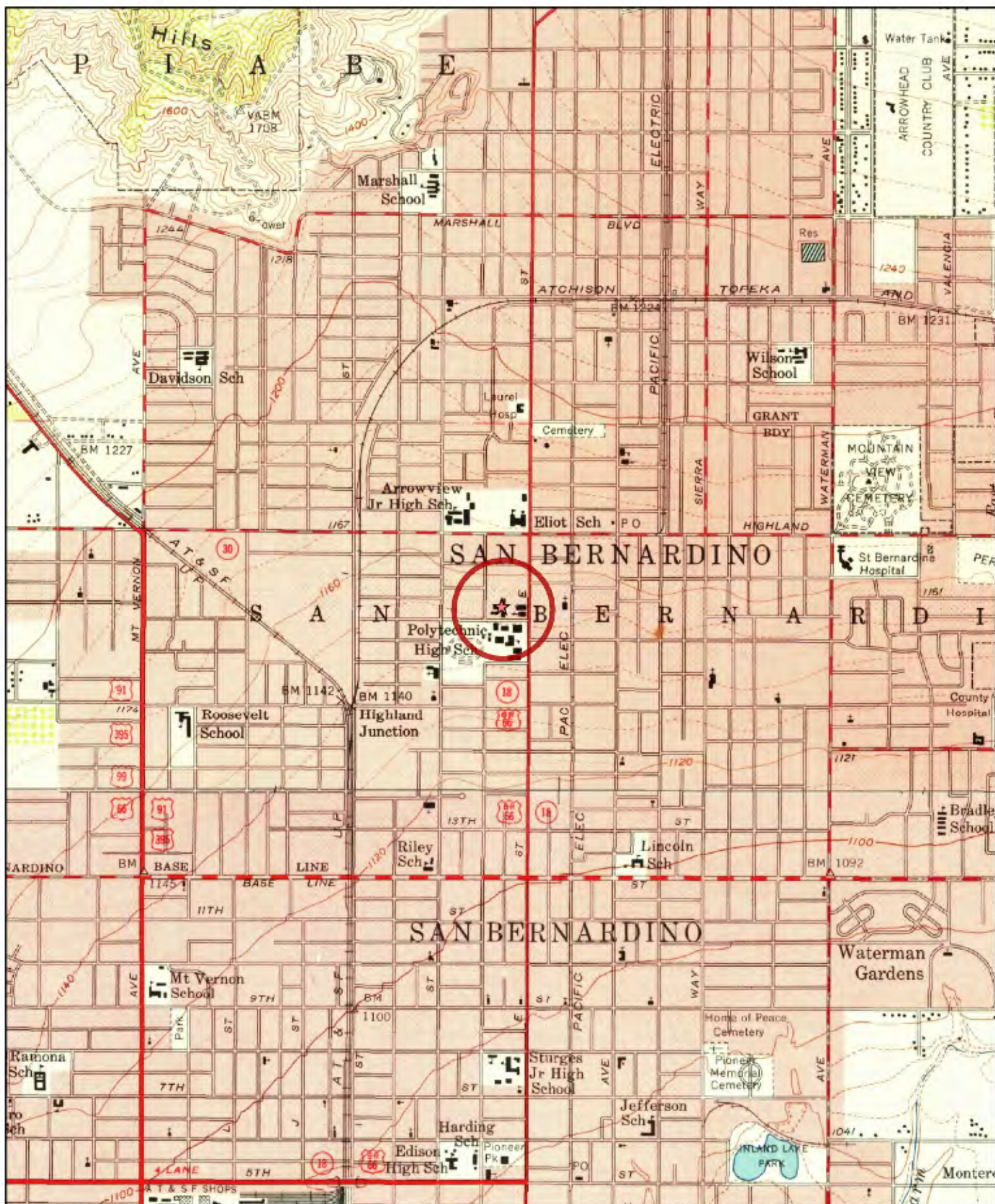
Order No. 20180323119

Quadrangle(s): San Bernardino North,CA

Source: USGS 7.5 Minute Topographic Map







1954

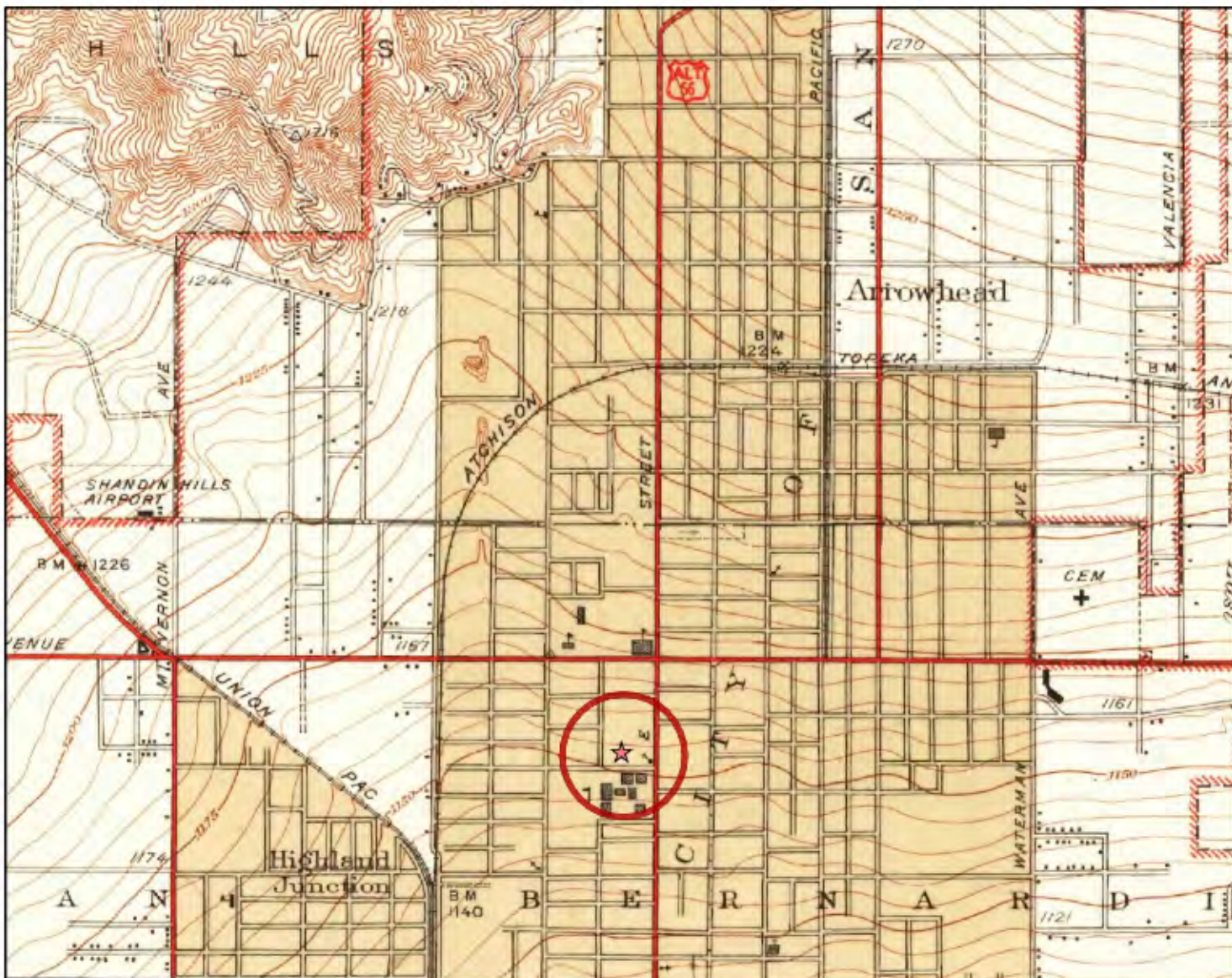
0 0.2 0.4 0.8 Miles

Order No. 20180323119

Quadrangle(s): San Bernardino North, CA

Source: USGS 7.5 Minute Topographic Map





1941

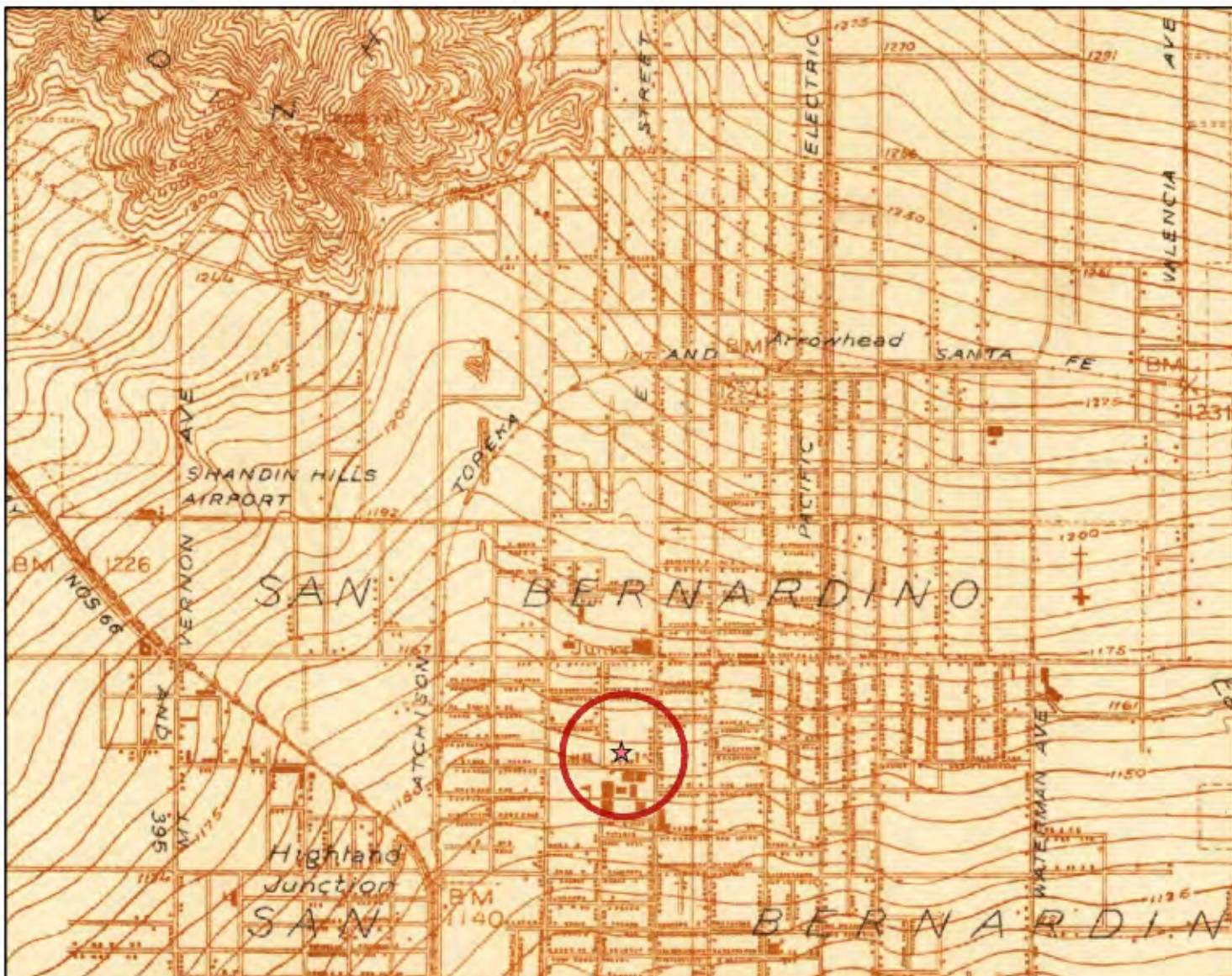


Order No. 20180323119

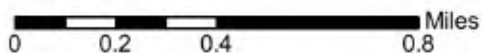
Quadrangle(s): Arrowhead, CA

Source: USGS 7.5 Minute Topographic Map





1936

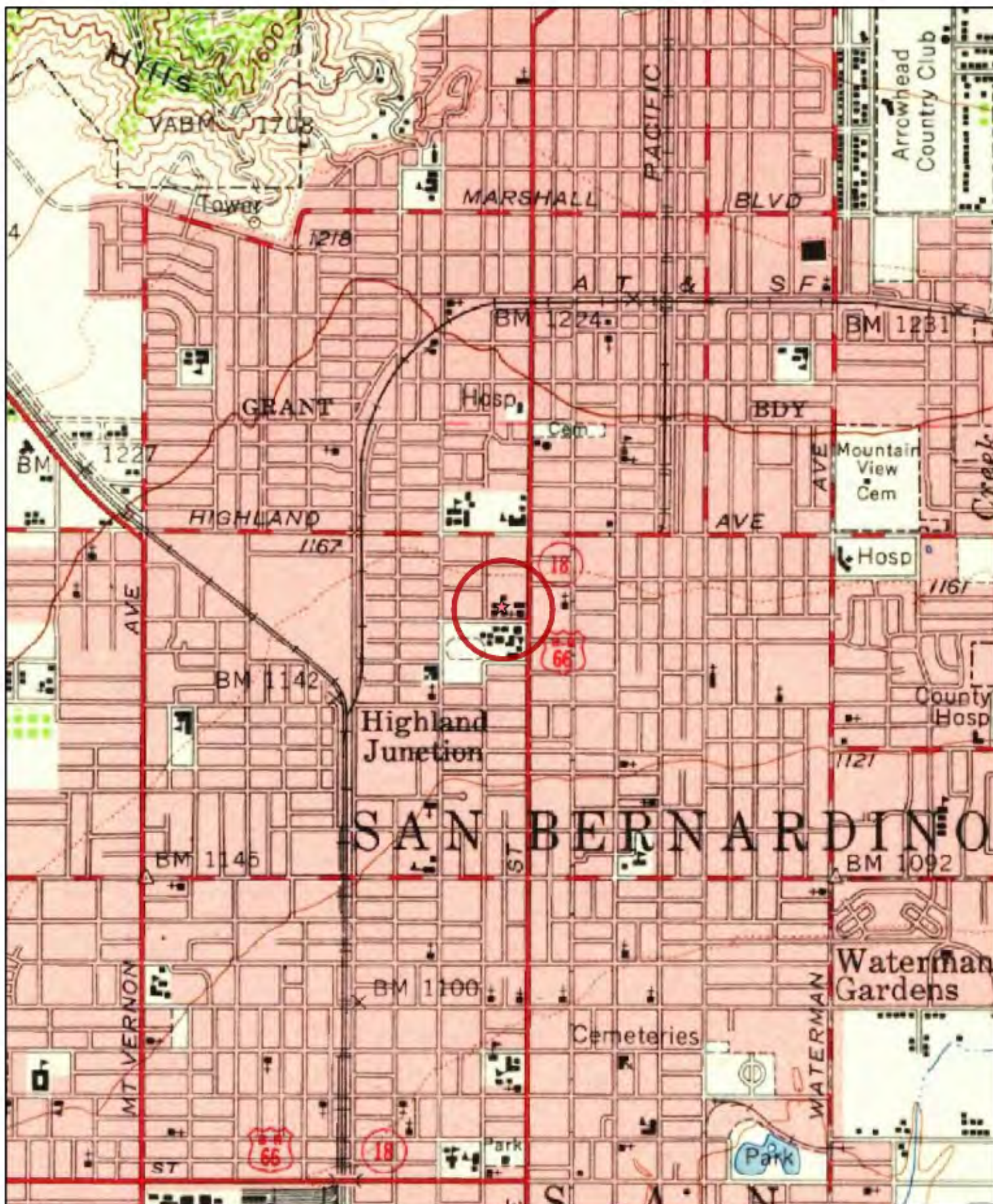


Order No. 20180323119

Quadrangle(s): Arrowhead, CA

Source: USGS 7.5 Minute Topographic Map





1954

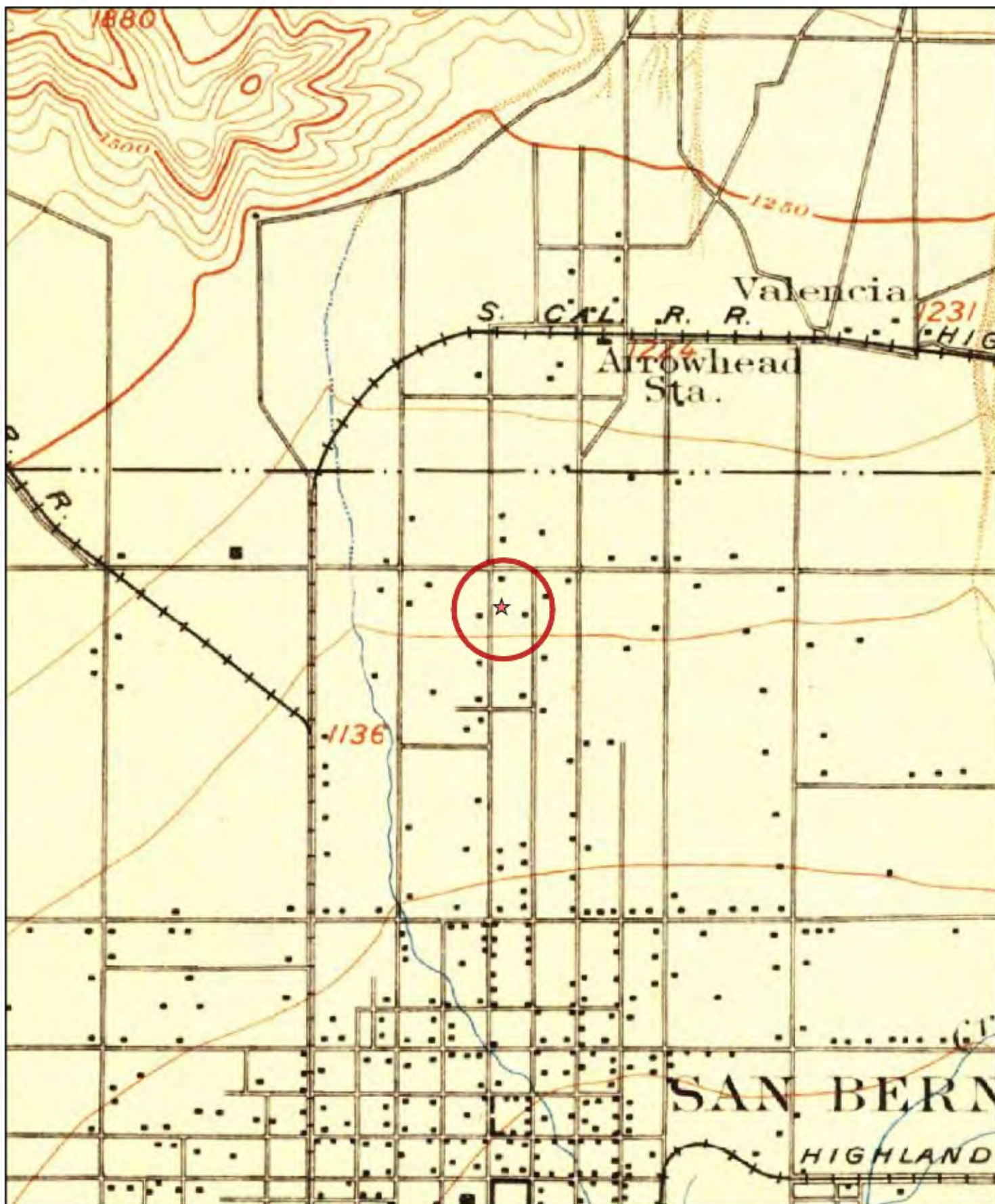
0 0.2 0.4 0.8 Miles

Order No. 20180323119

Quadrangle(s): San Bernardino, CA

Source: USGS 15 Minute Topographic Map





1901

0 0.2 0.4 0.8 Miles

Order No. 20180323119

Quadrangle(s): San Bernardino, CA

Source: USGS 15 Minute Topographic Map







1898

0 0.2 0.4 0.8 Miles

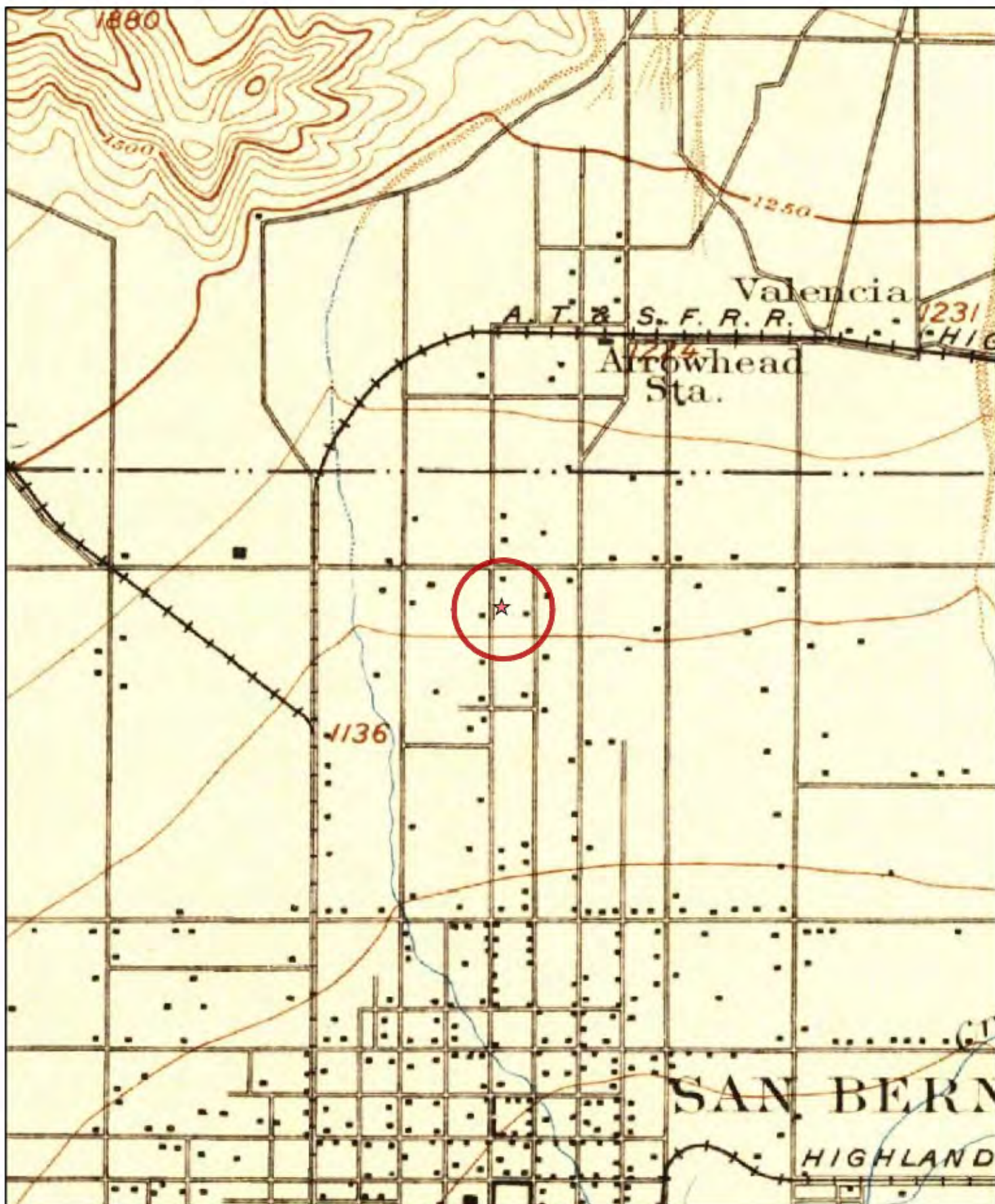
Order No. 20180323119

Quadrangle(s): San Bernardino, CA

Source: USGS 15 Minute Topographic Map







1896

0 0.2 0.4 0.8 Miles

Order No. 20180323119

Quadrangle(s): San Bernardino, CA

Source: USGS 15 Minute Topographic Map



# HISTORICAL DIRECTORY REPORT

for the site:

SBCUSD - San Bernadino HS Classrooms  
M1-M4  
1850 N E St  
San Bernardino, CA 92405  
PO #:

Report ID: 20180323119  
Completed: 3/28/2018

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## Search Results Summary

Date	Source	Comment
2016	DIGITAL BUSINESS DIRECTORY	
2011	DIGITAL BUSINESS DIRECTORY	
2006	DIGITAL BUSINESS DIRECTORY	
2000	HAINES	
1996	HAINES	
1991	HAINES	
1983	HAINES	
1982	HAINES	
1974	HAINES	
1971	STREET ADDRESS DIRECTORY	
1966	STREET ADDRESS DIRECTORY	
1949	POLKS	
1944	POLKS	
1941	POLKS	
1936	POLKS	



3/28/2018

RE: CITY DIRECTORY RESEARCH  
SBCUSD - San Bernadino HS Classrooms M1-M4  
1850 N E St San Bernardino, CA

Thank you for contacting ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either utilized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as multiple digitized directories. These do not claim to be a complete collection of all reverse listing city directories produced.

ERIS has made every effort to provide accurate and complete information but shall not be held liable for missing, incomplete or inaccurate information. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are additional addresses or streets that require searching please contact us at 866-517-5204.

Search Criteria:

1800-1900 of N E St  
450-550 of 19th Street

NO LISTINGS IN RANGE...

1799 KAYLESS AUTO TIRE SVC...Automobile Rep  
1807 PIZZA KING...Restaurants  
1839 XAVIER S BRIDAL & FORMAL WEAR...Bridal  
1847 LA MISSION...Alcoholism Information &  
1850 SAN BERNARDINO HIGH SCHOOL...Schools  
1855 MAXXIE PREMIUM HAIR OUTLET...Beauty Sa  
1863 A B DRIVING...Driving Instruction  
1887 CATCH FADE BARBERSHOP...Barbers  
1927 AAA ANTIQUES AT OLD FASHION...Antiques



NO LISTINGS IN RANGE...

1799 DE LEON AUTO CTR...General Automotive  
1807 PIZZA KING...Full-service Restaurants<  
1839 XAVIERS BRIDAL & FORMAL WEAR...Women S  
1847 LA MISSION...Other Social Advocacy Org  
1850 SAN BERNARDINO HIGH SCHOOL...Elementar  
1855 VICKYS BEAUTY SALON...Beauty Salons  
1863 A B DRIVING...Automobile Driving Schoo  
1927 AAA ANTIQUES AT OLD FASHION...Used Mer

NO LISTINGS IN RANGE...

1799 DE LEON AUTO CTR...General Automotive  
1807 PIZZA KING...Full-service Restaurants<  
1839 XAVIERS BRIDAL & FORMAL WEAR...Women S  
1847 LA MISSION...Other Social Advocacy Org  
1850 SAN BERNARDINO HIGH SCHOOL...Elementar  
1855 VICKYS BEAUTY SALON...Beauty Salons  
1863 A B DRIVING...Automobile Driving Schoo  
1927 AAA ANTIQUES AT OLD FASHION...Used Mer



NO LISTINGS IN RANGE

1767	● GARCIA Honorio	OO	+0
X	18TH W		
1799	★ NORMS UNION AUTO SERVICE	909-886-8219	9
1807	XXXX	OO	
1815	XXXX	OO	
1819	BELTRAN Mona	909-883-6961	+0
1831	★ ABACUS SALES&SERVICE CO	909-881-0200	6
1847	★ BRANCH 1 HEAVEN CHURCH	909-881-7894	+0
1850	★ SANBDO CTY SC HI	909-881-8217	5
1855	★ HAIR TECHNICIANS	909-881-2932	+0
1863	★ AMERICAN BEST DRIVING SCHOOL	909-881-3232	+0
1895	XXXX	OO	
1897	XXXX	OO	
X	19TH W		
1905	RAMIREZ Doris Y	909-475-1617	+0
1923	★ TYREES ANTIQUES	909-883-1068	
	WALKER Vincent J	909-882-7790	+0
1927	★ AAA ANTQ AT OLD FSHN SH WEST	909-882-5819	
	★ OLD FASHION SHOP WEST	909-882-5819	
1931	XXXX	OO	
1932	XXXX	OO	
1947	★ BUELER JOHN JR DC	909-882-0575	4

NO LISTINGS IN RANGE

1749	XXXX	00
1767	XXXX	00
1799	★NORMS UN AUTO SV	886-8219
1807	★GRINDER SHOP	886-8474
1815	XXXX	00
1819	★P&S AUDIO	883-0661 8
1831	★ABACUS SALES&SRV CO	881-0200 +6
1850	★SANBDO SC SAN BDO	881-8217 5
1855	★MARYS SPORT LTTRNG	882-6961 +6
1863	★T&C COMICS	882-8177 +6
1895	XXXX	00
1897	XXXX	00
1905	XXXX	00
1923	★TYREES ANTIQUES	883-1068 0
1927	★AAA ANTIQUES	882-5819
	★OLD FASHION SH WEST	882-5819



NO LISTINGS IN RANGE

1749	HILL Joe	883-0755 +1
	PARI Michael P	882-5733 +1
1767	HOOD Mae	882-2731 9
1799	★NORMS UNION ATO SV	886-8219
1807	★GRINDER SHOP	886-8474 6
1819	★P&S AUDIO	883-0661 8
1850	★SANBDO SC SANBDO	882-1791 6
1855	★MARYS SPORT LTTRNG	882-6961 6
1897	DUNBAR Julie	886-6921 0
1905	★PEGASUS JAIL DIVRSN	882-3043 0
1923	★TYREES ANTIQUES	883-1068 0
1927	★A A A ANTO OLD FSHN	882-5819
	★OLD FASHION SHOP W	882-5819
1931	WALKER Vincent J	883-0455 +1
1932	★SANBDO SC&SR HIGH	881-4956 +1
1947	★E ST ETC	882-0646
1948	★DUMAS JOHN D RL EST	883-8895
	★HEYWOOD CO ADVRTSNG	886-5244 4

NO LISTINGS IN RANGE

1749	XXXX	00
1767	XXXX	00
1799	NORMS UNION ATO SV	886-8219 5
1807	HIP BEAT JEANS	886-7592 +3
	SOCCER WORLD	882-3016 +3
1819	XXXX	00
1827	KIRBY CO SAN BDO	886-4857
1831	XXXX	00
1839	XXXX	00
1847	XXXX	00
1850	SN BDO CTY SC S BDO	882-1791 2
1856	XXXX	00
1863	XXXX	00
1867	MARYS SPORT LETTRNG	882-6961 2
1871	XXXX	00
1897	SCOTT HARRY	882-5564 +3
1923	LETTY STUART ANTIQS	881-1390 +3
1925	YEAGER RAYMOND	883-6275 +3
1927	ANTIQUES AT FSHN SH	882-5819 5
	OLD FASHION SHOP W	882-5819 4
1931A	DOWNSTRS UPSTRS SHP	883-0503 8
1932	CASA DE SAN BDO CT	882-3361 +3
	R&D ASSOCIATES	886-8221 +3
1947	E ST ETC	882-0646 0
1948	DUMAS BURBACK&ASSOC	883-8895 0
	DUMAS JOHN D	883-8895 0
	HEYWOOD CO ADVRTSNG	882-6727 7
	URBACK REX M	883-8895 +3



NO LISTINGS IN RANGE

1767	XXXX	00
1799	NORMS UNION ATO SV	886-8219 5
1807	CA ACCESSORIES	882-4711 +2
	RON'S BUG HOUSE	882-4711
1819	EYE PAUL	886-7927 1
	GREAT SO LIFE INS	886-7927 1
	MOUNTN INS AGENCY	886-7927 1
	SARRATT CLYDE	886-7927 1
1827	KIRBY CO SAN BDO	886-4857
1831	XXXX	00
1839	XXXX	00
1847	XXXX	00
1850	SN BDO CTY SC S BDO	882-1791 +2
1855	XXXX	00
1863	XXXX	00
1867	MARYS SPORT LFTTERG	882-6961 +2
1871	XXXX	00
1923	WARREN ELSIE M	882-6929 7
1925	XXXX	00
1927	ANTIQUES AT FSHN SH	882-5819 5
	OLD FASHION SHOP W	882-5819 4
1931	BAUER CHAS	883-9884 +2
A	DOWNSTRS UPSTRS SHP	883-0503 8
1932	SHOWCASE STUDIO	886-5846 0
	SN BDO CO MNTL CARE	883-6505 +2
1947	E ST ETC	882-0646 0

NO LISTINGS IN RANGE

1799*	RALPHS AUTO REPAIR	886-1511	3
1807*	RON'S BUG HOUSE	882-4711	
1819*	JENNIES CANINE CHTR	882-6413	
1827*	KIRBY CO	886-4857	
	*KIRBY CO OF SN BDO	886-4857	
	*KIRBY SALES&SERVICE	886-3033	
	*MICK ENTERPRISES	886-4857	3
1831*	QUALITEE LETTER SV	883-0810	
1847	XXXX	00	
1850*	S BDO HIGH SCHOOL	882-1791	
1855*	CASCADE DRAPERY MFG	882-0310	3
	*CASCADE DRAPERY SV	883-6415	
1863*	WILLIAMS RICHARD DC	882-0536	
1867*	BARONS BCKLS&BRSSWR	882-2615	
1871	XXXX	00	
1887	PLACE ELMONT H	882-3368	
1895*	AANON INS SERVICE	886-4924	
	*THAYER DANL	886-4924	
1897	WEST DALE	886-1433	3
1903	XXXX	00	
1905*	RUTHANNA ART STUDIO	883-2018	3
1923*	MARCH OF DIMES	886-5205	3



NO LISTINGS IN RANGE

1799	□SCHAKEL P AUTO REPR	886-1511
1807	□RONS BUG HOUSE	882-4711
1819	□JENNIES CANINE CHATU	882-6413
1827	□KIRBY COMPANY	886-4857
1831	□QUALITEE LETTER SVC	883-0810
1847	□TAPE / RECORD RACK	883-0118
1850	□S BDD HIGH SCHOOL	882-1791
1855	□CASCADE DRAPERY SVC	883-6415
1863	□WILLIAMS, RICHARD B	882-0536
1867	□BARONS BUCKLES	882-2615
1887	□PLACE, E H ACCT	882-3368
1895	□AANON INS. SERVICE	886-4924
1903	□VALLEY VOLUNTEER BUR	883-9912
1923	□MARCH OF DIMES	882-7010
1925	□BEN LE BEAU ENTRPRSES	882-1313
1927	□GALLERY WEST	882-3210
1932	□R T I BUSINESS COLS	886-4835
1947	□INLAND EMPIRE	886-3614
1948	MACK, A	886-3788
1954	EBEY, RICHARD G	882-2633
1956	□THELCAS HSE OF FASHN	886-4218

NO LISTINGS IN RANGE

1799	▣FRANK LECKRONE SERV	882-9374
1807	▣CALIFORNIA INVESTORS	882-5559
1819	▣MICHAUDS CLOCK SHOP	886-3711
1827	▣KIRBY SALES/SERVICE	886-3033
1831	▣QUALITEE LETTER SVC	TU 30810
1831	▣SCIENTIFIC SALES CO	883-7088
1850	▣ADULT SCHOOL	882-1731
1850	▣ADULT VOCATIONAL SCH	883-0506
1855	▣STUDIO ONE	886-1690
1871	▣VANITY BOX	886-1789
1887	▣PLACE, E H	882-3368
1895	▣CHOISNET INS AGENCY	TU 63111
1897	▣PEEBLES COIN SHOP	883-2431
1903	NOBLE, T D	TU3-2240
1905	MERRITT, E A	TU 30828
1905	▣MERRITT, E A	TU 36011
1923	SPITTLER, W M	TU 61131
1927	▣PIONEER RUG/MATTRES	883-9611
1931	▣GIRL SCOUTS	TU 22991
1932	▣CALVARY BAPTIST CH	TU 22564
1944	MILLIKEN, N	TU 37576



1949  
SOURCE: POLKS

19TH STREET

STREET NOT LISTED

1949  
SOURCE: POLKS

NE ST

STREET NOT LISTED

1944  
SOURCE: POLKS

19TH STREET

STREET NOT LISTED

1944  
SOURCE: POLKS

NE ST

STREET NOT LISTED



1941  
SOURCE: POLKS

19TH STREET

STREET NOT LISTED

1941  
SOURCE: POLKS

NE ST

STREET NOT LISTED

1936  
SOURCE: POLKS

19TH STREET

STREET NOT LISTED

1936  
SOURCE: POLKS

NE ST

STREET NOT LISTED



--- END REPORT ---

# **Appendix E - Regulatory Database Report**



# DATABASE REPORT

**Project Property:** SBCUSD - San Bernadino HS  
Classrooms M1-M4  
1850 N E St  
San Bernardino CA 92405

**Project No:** 18-16-106-01

**Report Type:** Database Report

**Order No:** 20180323119

**Requested by:** Converse Consultants

**Date Completed:** March 27, 2018

**Environmental Risk  
Information Services**  
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# Executive Summary

## Property Information:

**Project Property:** *SBCUSD - San Bernadino HS Classrooms M1-M4  
1850 N E St San Bernardino CA 92405*

**Project No:** *18-16-106-01*

### **Coordinates:**

**Latitude:** *34.132794*  
**Longitude:** *-117.295505*  
**UTM Northing:** *3,776,919.49*  
**UTM Easting:** *472,753.21*  
**UTM Zone:** *UTM Zone 11S*

**Elevation:** *1,156 FT*

## Order Information:

**Order No:** *20180323119*  
**Date Requested:** *March 23, 2018*  
**Requested by:** *Converse Consultants*  
**Report Type:** *Database Report*

## Historicals/Products:

## Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
<b><u>Standard Environmental Records</u></b>								
<b>Federal</b>								
NPL	Y	1	1	0	0	0	0	1
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	.5	0	0	0	0	-	0
SEMS	Y	.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	.5	0	0	0	0	-	0
CERCLIS	Y	.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	.5	0	0	0	0	-	0
RCRA LQG	Y	.25	0	0	0	-	-	0
RCRA SQG	Y	.25	0	0	2	-	-	2
RCRA CESQG	Y	.25	0	0	0	-	-	0
RCRA NON GEN	Y	.25	0	0	0	-	-	0
FED ENG	Y	.5	0	0	0	0	-	0
FED INST	Y	.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	.5	0	0	0	0	-	0
FEMA UST	Y	.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
<b>State</b>								
RESPONSE	Y	1	0	0	0	0	0	0
ENVIROSTOR	Y	1	0	0	0	1	1	2
DELISTED ENVS	Y	1	0	0	0	0	0	0
SWF/LF	Y	.5	0	0	0	0	-	0
HWP	Y	1	0	0	0	0	0	0



Database	Searched	Search Radius	Project Property	Within 0.12mi	.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
LDS	Y	.5	0	0	0	0	-	0
LUST	Y	.5	0	0	0	3	-	3
DELISTED LST	Y	.5	0	0	0	0	-	0
UST	Y	.25	0	0	1	-	-	1
UST CLOSURE	Y	.5	0	0	0	0	-	0
HHSS	Y	.25	0	0	3	-	-	3
AST	Y	.25	0	0	1	-	-	1
DELISTED TNK	Y	.25	0	0	0	-	-	0
CERS TANK	Y	.25	0	0	0	-	-	0
DELISTED HAZ	Y	.5	0	0	0	0	-	0
LUR	Y	.5	0	0	0	1	-	1
HLUR	Y	.5	0	0	0	0	-	0
DEED	Y	.5	0	0	0	0	-	0
VCP	Y	.5	0	0	0	0	-	0
CLEANUP SITES	Y	.5	0	3	6	0	-	9
CERS HAZ	Y	.125	1	0	-	-	-	1
DELISTED CTNK	Y	.25	0	0	1	-	-	1
HIST TANK	Y	.25	0	0	3	-	-	3
<b>Tribal</b>								
INDIAN LUST	Y	.5	0	0	0	0	-	0
INDIAN UST	Y	.25	0	0	0	-	-	0
DELISTED ILST	Y	.5	0	0	0	0	-	0
DELISTED IUST	Y	.25	0	0	0	-	-	0
<b>County</b>								
DELISTED COUNTY	Y	.25	0	0	0	-	-	0
SANBERN CUPA	Y	.25	1	1	9	-	-	11
<b><u>Additional Environmental Records</u></b>								
<b>Federal</b>								
FINDS/FRS	Y	PO	1	-	-	-	-	1
TRIS	Y	PO	0	-	-	-	-	0
HMIRS	Y	.125	0	0	-	-	-	0
NCDL	Y	PO	0	-	-	-	-	0
ODI	Y	.5	0	0	0	0	-	0
IODI	Y	.5	0	0	0	0	-	0
TSCA	Y	.125	0	0	-	-	-	0
HIST TSCA	Y	.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
SCRD DRYCLEANER	Y	.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	.25	0	0	0	-	-	0
DELISTED FED DRY	Y	.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	.25	0	0	0	-	-	0
ALT FUELS	Y	.25	0	0	0	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
SSTS	Y	.25	0	0	0	-	-	0
PCB	Y	.5	0	0	0	0	-	0

#### State

INSP COMP ENF	Y	1	0	0	0	0	0	0
CDL	Y	.125	0	0	-	-	-	0
SCH	Y	1	0	0	0	0	1	1
CHMIRS	Y	PO	0	-	-	-	-	0
SWAT	Y	.5	0	0	0	0	-	0
HAZNET	Y	PO	4	-	-	-	-	4
SWRCB SWF	Y	.5	0	0	0	0	-	0
HWSS CLEANUP	Y	.5	0	0	0	0	-	0
DTSC HWF	Y	.5	0	0	0	0	-	0
HIST MANIFEST	Y	PO	2	-	-	-	-	2
HIST CHMIRS	Y	PO	0	-	-	-	-	0
HIST CORTESE	Y	.5	0	0	0	0	-	0
CDO/CAO	Y	.5	0	0	0	0	-	0
DRYCLEANERS	Y	.25	0	0	0	-	-	0
DELISTED DRYC	Y	.25	0	0	0	-	-	0
WASTE DISCHG	Y	.25	0	0	0	-	-	0
EMISSIONS	Y	.25	0	0	1	-	-	1

#### Tribal

**No Tribal additional environmental record sources available for this State.**

#### County

**No County additional environmental databases were selected to be included in the search.**

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<b>Total:</b>	10	4	27	5	2	48
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\* PO – Property Only

\* 'Property and adjoining properties' database search radii are set at 0.25 miles.

## Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
<a href="#">1</a>	CERS HAZ	SAN BERNARDINO HIGH SCHOOL	1850 N E ST SAN BERNARDINO CA 92405	-	0.00 / 0.00	0	<a href="#">23</a>
<a href="#">1</a>	SANBERN CUPA	SAN BERNARDINO HIGH SCHOOL	1850 N E ST SAN BERNARDINO CA 92405	-	0.00 / 0.00	0	<a href="#">26</a>
<a href="#">1</a>	FINDS/FRS	SAN BERNARDINO HIGH SCHOOL	1850 N E ST SAN BERNARDINO CA 92405	-	0.00 / 0.00	0	<a href="#">26</a>
<a href="#">1</a>	HIST MANIFEST		1850 NORTH E ST SAN BERNADINO CA 924040000	-	0.00 / 0.00	0	<a href="#">27</a>
<a href="#">1</a>	HIST MANIFEST		1850 NORTH E ST SAN BERNARDINO CA 924050000	-	0.00 / 0.00	0	<a href="#">30</a>
<a href="#">1</a>	HAZNET	SBCUSD/SAN BERNARDINO HIGH SCHOOL	1850 NORTH E ST SAN BERNARDINO CA 924050000	-	0.00 / 0.00	0	<a href="#">34</a>
<a href="#">1</a>	HAZNET	SAN BERNADINO HIGH SCHOOL	1850 NORTH E ST SAN BERNADINO CA 924040000	-	0.00 / 0.00	0	<a href="#">48</a>
<a href="#">1</a>	HAZNET	SBCUSD/SAN BERNARDINO HIGH SCHOOL	1850 NORTH E ST SAN BERNARDINO CA 924050000	-	0.00 / 0.00	0	<a href="#">48</a>
<a href="#">1</a>	HAZNET	SAN BERNARDINO HIGH SCHOOL	1850 NORTH E STREET SAN BERNARDINO CA 924050000	-	0.00 / 0.00	0	<a href="#">50</a>
<a href="#">1</a>	NPL	NEWMARK GROUND WATER CONTAMINATION	BUNKER HILL GROUND WATER BASIN SAN BERNARDINO CA 92408	-	0.00 / 0.00	0	<a href="#">51</a>



## Executive Summary: Site Report Summary - Surrounding Properties

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev Diff (ft)</b>	<b>Page Number</b>
<a href="#"><u>2</u></a>	CLEANUP SITES	Norton Air Force Base - Norton A F B Bldg 226	106TH ST SAN BERNARDINO CA 92409	SSE	0.05 / 265.81	-3	<a href="#"><u>51</u></a>
<a href="#"><u>2</u></a>	CLEANUP SITES	Norton Air Force Base - Norton A F B Bldg 169	2ND PL SAN BERNARDINO CA 92409	SSE	0.05 / 265.81	-3	<a href="#"><u>52</u></a>
<a href="#"><u>2</u></a>	CLEANUP SITES	Norton Air Force Base - Norton A F B Bldg 762	LELAND NORTON WAY (7TH) SAN BERNARDINO CA 92409	SSE	0.05 / 265.81	-3	<a href="#"><u>53</u></a>
<a href="#"><u>3</u></a>	SANBERN CUPA	SAN BERNARDINO SMOG TUNE & LUBE	1984 N E ST SAN BERNARDINO CA 92405	NE	0.09 / 496.60	4	<a href="#"><u>54</u></a>
<a href="#"><u>4</u></a>	SANBERN CUPA	NORM'S UNION AUTO SERVICE	1799 N E ST SAN BERNARDINO CA 92405	SE	0.14 / 725.87	-8	<a href="#"><u>55</u></a>
<a href="#"><u>4</u></a>	SANBERN CUPA	BARRY HENRY'S AUTOMOTIVE	1799 N E ST SAN BERNARDINO CA 92405	SE	0.14 / 725.87	-8	<a href="#"><u>55</u></a>
<a href="#"><u>4</u></a>	SANBERN CUPA	DE LEON AUTO CENTER	1799 N E ST SAN BERNARDINO CA 92405	SE	0.14 / 725.87	-8	<a href="#"><u>55</u></a>
<a href="#"><u>5</u></a>	CLEANUP SITES	CAMP ONO PLUME (TCE, PCE Contamination study)	SAN BERNARDINO CA	ESE	0.20 / 1,039.44	-2	<a href="#"><u>56</u></a>
<a href="#"><u>5</u></a>	CLEANUP SITES	U.S. ARMY TRAINING CENTER	296 03RD STREET E SAN BERNARDINO CA	ESE	0.20 / 1,039.44	-2	<a href="#"><u>56</u></a>
<a href="#"><u>5</u></a>	CLEANUP SITES	CALNEV PIPELINE COMPANY	CAJON CREEK SAN BERNARDINO CA	ESE	0.20 / 1,039.44	-2	<a href="#"><u>57</u></a>
<a href="#"><u>5</u></a>	CLEANUP SITES	SOUTHERN PACIFIC RAIL YARD	NA MILL STREET SAN BERNARDINO CA	ESE	0.20 / 1,039.44	-2	<a href="#"><u>58</u></a>
<a href="#"><u>5</u></a>	CLEANUP SITES	NORTH SAN BERNARDINO PLUME	SAN BERNARDINO CA	ESE	0.20 / 1,039.44	-2	<a href="#"><u>58</u></a>
<a href="#"><u>5</u></a>	CLEANUP SITES	SALTER COMPANY (NORTON AFB)	N/A MILL STREET SAN BERNARDINO CA	ESE	0.20 / 1,039.44	-2	<a href="#"><u>59</u></a>

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev Diff (ft)</b>	<b>Page Number</b>
<a href="#"><u>6</u></a>	UST	JIFFY LUBE #1066	567 W HIGHLAND AVE SAN BERNARDINO CA 92405 <i>Facility ID: FA0017027</i>	N	0.21 / 1,119.57	15	<a href="#"><u>59</u></a>
<a href="#"><u>7</u></a>	RCRA SQG	COMMUNITY ACTION PARTNERSHIP	440 W 21ST STREET SAN BERNARDINO CA 92405	NE	0.21 / 1,130.81	11	<a href="#"><u>60</u></a>
<a href="#"><u>8</u></a>	AST	JIFFY LUBE #1066	567 W. HIGHLAND AVE SAN BERNARDINO CA 92405	N	0.22 / 1,154.23	15	<a href="#"><u>61</u></a>
<a href="#"><u>8</u></a>	SANBERN CUPA	JIFFY LUBE #1066	567 W HIGHLAND AVE SAN BERNARDINO CA 92405	N	0.22 / 1,154.23	15	<a href="#"><u>62</u></a>
<a href="#"><u>8</u></a>	SANBERN CUPA	CASTROL PREMIUM LUBE EXPRESS	567 W HIGHLAND AVE SAN BERNARDINO CA 92405	N	0.22 / 1,154.23	15	<a href="#"><u>62</u></a>
<a href="#"><u>8</u></a>	SANBERN CUPA	JIFFY LUBE #1066	567 W HIGHLAND AVE SAN BERNARDINO CA 92406	N	0.22 / 1,154.23	15	<a href="#"><u>63</u></a>
<a href="#"><u>8</u></a>	DELISTED CTNK	JIFFY LUBE #1066	567 W HIGHLAND AVE SAN BERNARDINO CA 92405	N	0.22 / 1,154.23	15	<a href="#"><u>63</u></a>
<a href="#"><u>9</u></a>	SANBERN CUPA	O'Reilly Auto Parts #3195	555 W Highland Ave San Bernardino CA 92405	N	0.22 / 1,157.70	16	<a href="#"><u>63</u></a>
<a href="#"><u>10</u></a>	HHSS	91062	507 W HIGHLAND AVE SAN BERNARDINO CA 92404	NNE	0.23 / 1,205.62	16	<a href="#"><u>64</u></a>
<a href="#"><u>10</u></a>	HIST TANK	91062	507 W HIGHLAND AVE SAN BERNARDINO CA	NNE	0.23 / 1,205.62	16	<a href="#"><u>64</u></a>
<a href="#"><u>11</u></a>	SANBERN CUPA	BAKER'S DRIVE THRU #101	601 W HIGHLAND AVE SAN BERNARDINO CA 92405	NNW	0.23 / 1,207.70	14	<a href="#"><u>64</u></a>
<a href="#"><u>12</u></a>	HHSS	UNION OIL SERVICE STATION 040	487 W HIGHLAND AVE. SAN BERNARDINO CA 92404	NNE	0.24 / 1,265.94	16	<a href="#"><u>64</u></a>
<a href="#"><u>12</u></a>	HHSS	STATION 0404	487 W HIGHLAND AVE SAN BERNARDINO CA 92404	NNE	0.24 / 1,265.94	16	<a href="#"><u>64</u></a>

<b>Map Key</b>	<b>DB</b>	<b>Company/Site Name</b>	<b>Address</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev Diff (ft)</b>	<b>Page Number</b>
<a href="#"><u>12</u></a>	HIST TANK	STATION #0404	487 W HIGHLAND AVE SAN BERNARDINO CA	NNE	0.24 / 1,265.94	16	<a href="#"><u>64</u></a>
<a href="#"><u>12</u></a>	HIST TANK	UNION OIL SERVICE STATION #040	487 W HIGHLAND AVE. SAN BERNARDINO CA	NNE	0.24 / 1,265.94	16	<a href="#"><u>65</u></a>
<a href="#"><u>13</u></a>	RCRA SQG	NORMS AUTOMOTIVE	635 W HIGHLAND SAN BERNARDINO CA 92405	NNW	0.24 / 1,273.91	14	<a href="#"><u>65</u></a>
<a href="#"><u>14</u></a>	SANBERN CUPA	CA-984_HEADEND-SAN BERNADINO_CHARTER COMMUNICATIONS	2090 N D ST SAN BERNADINO CA 92405	ENE	0.24 / 1,291.81	10	<a href="#"><u>66</u></a>
<a href="#"><u>15</u></a>	EMISSIONS	SAN BERNARDINO AUTO PAINTING	463 HIGHLAND SAN BERNARDINO CA 90009	NNE	0.25 / 1,320.41	16	<a href="#"><u>67</u></a>
<a href="#"><u>16</u></a>	LUST	E-Z SERVE	798 W HIGHLAND AVE SAN BERNARDINO CA 92411	NW	0.38 / 1,983.33	11	<a href="#"><u>70</u></a>
<b>Global ID   Status   Status Date:</b> T0607100343   Completed - Case Closed   1997-02-07 00:00:00							
<a href="#"><u>17</u></a>	LUST	MOBIL #18-HN5	847 W HIGHLAND AVE SAN BERNARDINO CA 92405	WNW	0.41 / 2,181.58	9	<a href="#"><u>71</u></a>
<b>Global ID   Status   Status Date:</b> T0607100131   Completed - Case Closed   1997-09-18 00:00:00							
<a href="#"><u>17</u></a>	LUST	JIM'S MOBIL STATION	847 W HIGHLAND AVE SAN BERNARDINO CA 92405	WNW	0.41 / 2,181.58	9	<a href="#"><u>72</u></a>
<b>Global ID   Status   Status Date:</b> T0607100585   Completed - Case Closed   1999-06-23 00:00:00							
<a href="#"><u>18</u></a>	ENVIROSTOR	WILSON II ELEMENTARY SCHOOL	25TH STREET / F STREET SAN BERNARDINO CA 92405	NNW	0.42 / 2,231.66	27	<a href="#"><u>73</u></a>
<a href="#"><u>18</u></a>	LUR	WILSON II ELEMENTARY SCHOOL	25TH STREET / F STREET SAN BERNARDINO CA 92405	NNW	0.42 / 2,231.66	27	<a href="#"><u>78</u></a>
<a href="#"><u>19</u></a>	ENVIROSTOR	LINCOLN II NORTH ELEMENTARY SCHOOL	ARROWHEAD AVE./BASELINE ST. SAN BERNARDINO CA 92405	SSE	0.77 / 4,074.28	-48	<a href="#"><u>82</u></a>
<a href="#"><u>19</u></a>	SCH	LINCOLN II NORTH ELEMENTARY SCHOOL	ARROWHEAD AVE./BASELINE ST. SAN BERNARDINO CA 92405	SSE	0.77 / 4,074.28	-48	<a href="#"><u>83</u></a>



## Executive Summary: Summary by Data Source

### Standard

#### Federal

##### NPL - National Priority List

A search of the NPL database, dated Feb 6, 2018 has found that there are 1 NPL site(s) within approximately 1.00 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
NEWMARK GROUND WATER CONTAMINATION	BUNKER HILL GROUND WATER BASIN SAN BERNARDINO CA 92408	-	0.00 / 0.00	<a href="#">1</a>

##### RCRA SQG - RCRA Small Quantity Generators List

A search of the RCRA SQG database, dated Jan 24, 2018 has found that there are 2 RCRA SQG site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
COMMUNITY ACTION PARTNERSHIP	440 W 21ST STREET SAN BERNARDINO CA 92405	NE	0.21 / 1,130.81	<a href="#">7</a>
NORMS AUTOMOTIVE	635 W HIGHLAND SAN BERNARDINO CA 92405	NNW	0.24 / 1,273.91	<a href="#">13</a>

#### State

##### ENVIROSTOR - EnviroStor Database

A search of the ENVIROSTOR database, dated Dec 21, 2017 has found that there are 2 ENVIROSTOR site(s) within approximately 1.00 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
WILSON II ELEMENTARY SCHOOL	25TH STREET / F STREET SAN BERNARDINO CA 92405	NNW	0.42 / 2,231.66	<a href="#">18</a>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LINCOLN II NORTH ELEMENTARY SCHOOL	ARROWHEAD AVE./BASELINE ST. SAN BERNARDINO CA 92405	SSE	0.77 / 4,074.28	<a href="#">19</a>

##### LUST - Leaking Underground Fuel Tank Reports

A search of the LUST database, dated Dec 27, 2017 has found that there are 3 LUST site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
E-Z SERVE	798 W HIGHLAND AVE SAN BERNARDINO CA 92411	NW	0.38 / 1,983.33	<a href="#">16</a>
<i>Global ID / Status / Status Date: T0607100343   Completed - Case Closed   1997-02-07 00:00:00</i>				
MOBIL #18-HN5	847 W HIGHLAND AVE SAN BERNARDINO CA 92405	WNW	0.41 / 2,181.58	<a href="#">17</a>
<i>Global ID / Status / Status Date: T0607100131   Completed - Case Closed   1997-09-18 00:00:00</i>				
JIM'S MOBIL STATION	847 W HIGHLAND AVE SAN BERNARDINO CA 92405	WNW	0.41 / 2,181.58	<a href="#">17</a>
<i>Global ID / Status / Status Date: T0607100585   Completed - Case Closed   1999-06-23 00:00:00</i>				

### **UST - Permitted Underground Storage Tank (UST) in GeoTracker**

A search of the UST database, dated Mar 11, 2018 has found that there are 1 UST site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
JIFFY LUBE #1066	567 W HIGHLAND AVE SAN BERNARDINO CA 92405	N	0.21 / 1,119.57	<a href="#">6</a>
<i>Facility ID: FA0017027</i>				

### **HHSS - Historical Hazardous Substance Storage Information Database**

A search of the HHSS database, dated Aug 27, 2015 has found that there are 3 HHSS site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
91062	507 W HIGHLAND AVE SAN BERNARDINO CA 92404	NNE	0.23 / 1,205.62	<a href="#">10</a>
UNION OIL SERVICE STATION 040	487 W HIGHLAND AVE. SAN BERNARDINO CA 92404	NNE	0.24 / 1,265.94	<a href="#">12</a>
STATION 0404	487 W HIGHLAND AVE SAN BERNARDINO CA 92404	NNE	0.24 / 1,265.94	<a href="#">12</a>

### **AST - Aboveground Storage Tanks**

A search of the AST database, dated Aug 31, 2009 has found that there are 1 AST site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
JIFFY LUBE #1066	567 W. HIGHLAND AVE SAN BERNARDINO CA 92405	N	0.22 / 1,154.23	<a href="#"><u>8</u></a>

### **LUR - Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions**

A search of the LUR database, dated Sep 12, 2017 has found that there are 1 LUR site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
WILSON II ELEMENTARY SCHOOL	25TH STREET / F STREET SAN BERNARDINO CA 92405	NNW	0.42 / 2,231.66	<a href="#"><u>18</u></a>

### **CLEANUP SITES - GeoTracker Cleanup Sites Data**

A search of the CLEANUP SITES database, dated Dec 27, 2017 has found that there are 9 CLEANUP SITES site(s) within approximately 0.50 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Norton Air Force Base - Norton A F B Bldg 226	106TH ST SAN BERNARDINO CA 92409	SSE	0.05 / 265.81	<a href="#"><u>2</u></a>
Norton Air Force Base - Norton A F B Bldg 762	LELAND NORTON WAY (7TH) SAN BERNARDINO CA 92409	SSE	0.05 / 265.81	<a href="#"><u>2</u></a>
Norton Air Force Base - Norton A F B Bldg 169	2ND PL SAN BERNARDINO CA 92409	SSE	0.05 / 265.81	<a href="#"><u>2</u></a>
CALNEV PIPELINE COMPANY	CAJON CREEK SAN BERNARDINO CA	ESE	0.20 / 1,039.44	<a href="#"><u>5</u></a>
U.S. ARMY TRAINING CENTER	296 03RD STREET E SAN BERNARDINO CA	ESE	0.20 / 1,039.44	<a href="#"><u>5</u></a>
SALTER COMPANY (NORTON AFB)	N/A MILL STREET SAN BERNARDINO CA	ESE	0.20 / 1,039.44	<a href="#"><u>5</u></a>
SOUTHERN PACIFIC RAIL YARD	NA MILL STREET SAN BERNARDINO CA	ESE	0.20 / 1,039.44	<a href="#"><u>5</u></a>
NORTH SAN BERNARDINO PLUME	SAN BERNARDINO CA	ESE	0.20 / 1,039.44	<a href="#"><u>5</u></a>



<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
CAMP ONO PLUME (TCE, PCE Contamination study)	SAN BERNARDINO CA	ESE	0.20 / 1,039.44	<a href="#">5</a>

### **CERS HAZ - California Environmental Reporting System (CERS) Hazardous Waste Sites**

A search of the CERS HAZ database, dated Jan 4, 2018 has found that there are 1 CERS HAZ site(s) within approximately 0.12 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SAN BERNARDINO HIGH SCHOOL	1850 N E ST SAN BERNARDINO CA 92405	-	0.00 / 0.00	<a href="#">1</a>

### **DELISTED CTNK - Delisted California Environmental Reporting System (CERS) Tanks**

A search of the DELISTED CTNK database, dated Jan 4, 2018 has found that there are 1 DELISTED CTNK site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
JIFFY LUBE #1066	567 W HIGHLAND AVE SAN BERNARDINO CA 92405	N	0.22 / 1,154.23	<a href="#">8</a>

### **HIST TANK - Historical Hazardous Substance Storage Container Information - Facility Summary**

A search of the HIST TANK database, dated May 27, 1988 has found that there are 3 HIST TANK site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
91062	507 W HIGHLAND AVE SAN BERNARDINO CA	NNE	0.23 / 1,205.62	<a href="#">10</a>
STATION #0404	487 W HIGHLAND AVE SAN BERNARDINO CA	NNE	0.24 / 1,265.94	<a href="#">12</a>
UNION OIL SERVICE STATION #040	487 W HIGHLAND AVE. SAN BERNARDINO CA	NNE	0.24 / 1,265.94	<a href="#">12</a>

### **County**

### **SANBERN CUPA - San Bernardino County CUPA List**

A search of the SANBERN CUPA database, dated Jan 23, 2018 has found that there are 11 SANBERN CUPA site(s) within approximately 0.25 miles of the project property.

<b><u>Equal/Higher Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (mi/ft)</u></b>	<b><u>Map Key</u></b>
SAN BERNARDINO HIGH SCHOOL	1850 N E ST SAN BERNARDINO CA 92405	-	0.00 / 0.00	<a href="#"><u>1</u></a>
SAN BERNARDINO SMOG TUNE & LUBE	1984 N E ST SAN BERNARDINO CA 92405	NE	0.09 / 496.60	<a href="#"><u>3</u></a>
JIFFY LUBE #1066	567 W HIGHLAND AVE SAN BERNARDINO CA 92406	N	0.22 / 1,154.23	<a href="#"><u>8</u></a>
CASTROL PREMIUM LUBE EXPRESS	567 W HIGHLAND AVE SAN BERNARDINO CA 92405	N	0.22 / 1,154.23	<a href="#"><u>8</u></a>
JIFFY LUBE #1066	567 W HIGHLAND AVE SAN BERNARDINO CA 92405	N	0.22 / 1,154.23	<a href="#"><u>8</u></a>
O'Reilly Auto Parts #3195	555 W Highland Ave San Bernardino CA 92405	N	0.22 / 1,157.70	<a href="#"><u>9</u></a>
BAKER'S DRIVE THRU #101	601 W HIGHLAND AVE SAN BERNARDINO CA 92405	NNW	0.23 / 1,207.70	<a href="#"><u>11</u></a>
CA-984_HEADEND-SAN BERNADINO_CHARTER COMMUNICATIONS	2090 N D ST SAN BERNADINO CA 92405	ENE	0.24 / 1,291.81	<a href="#"><u>14</u></a>

<b><u>Lower Elevation</u></b>	<b><u>Address</u></b>	<b><u>Direction</u></b>	<b><u>Distance (mi/ft)</u></b>	<b><u>Map Key</u></b>
DE LEON AUTO CENTER	1799 N E ST SAN BERNARDINO CA 92405	SE	0.14 / 725.87	<a href="#"><u>4</u></a>
NORM'S UNION AUTO SERVICE	1799 N E ST SAN BERNARDINO CA 92405	SE	0.14 / 725.87	<a href="#"><u>4</u></a>
BARRY HENRY'S AUTOMOTIVE	1799 N E ST SAN BERNARDINO CA 92405	SE	0.14 / 725.87	<a href="#"><u>4</u></a>

## **Non Standard**

### **Federal**

### **FINDS/FRS - Facility Registry Service/Facility Index**

A search of the FINDS/FRS database, dated Dec 12, 2017 has found that there are 1 FINDS/FRS site(s) within approximately 0.02 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SAN BERNARDINO HIGH SCHOOL	1850 N E ST SAN BERNARDINO CA 92405	-	0.00 / 0.00	<a href="#"><u>1</u></a>

## **State**

### **SCH - School Property Evaluation Program Sites**

A search of the SCH database, dated Sep 20, 2017 has found that there are 1 SCH site(s) within approximately 1.00 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LINCOLN II NORTH ELEMENTARY SCHOOL	ARROWHEAD AVE./BASELINE ST. SAN BERNARDINO CA 92405	SSE	0.77 / 4,074.28	<a href="#"><u>19</u></a>

### **HAZNET - Hazardous Waste Manifest Data**

A search of the HAZNET database, dated Oct 24, 2016 has found that there are 4 HAZNET site(s) within approximately 0.02 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SBCUSD/SAN BERNARDINO HIGH SCHOOL	1850 NORTH E ST SAN BERNARDINO CA 924050000	-	0.00 / 0.00	<a href="#"><u>1</u></a>
SAN BERNARDINO HIGH SCHOOL	1850 NORTH E STREET SAN BERNARDINO CA 924050000	-	0.00 / 0.00	<a href="#"><u>1</u></a>
SAN BERNADINO HIGH SCHOOL	1850 NORTH E ST SAN BERNADINO CA 924040000	-	0.00 / 0.00	<a href="#"><u>1</u></a>
SBCUSD/SAN BERNARDINO HIGH SCHOOL	1850 NORTH E ST SAN BERNARDINO CA 924050000	-	0.00 / 0.00	<a href="#"><u>1</u></a>

### **HIST MANIFEST - Historical Hazardous Waste Manifest Data**

A search of the HIST MANIFEST database, dated Dec 31, 1992 has found that there are 2 HIST MANIFEST site(s) within approximately 0.02 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	1850 NORTH E ST SAN BERNARDINO CA 924050000	-	0.00 / 0.00	<a href="#"><u>1</u></a>

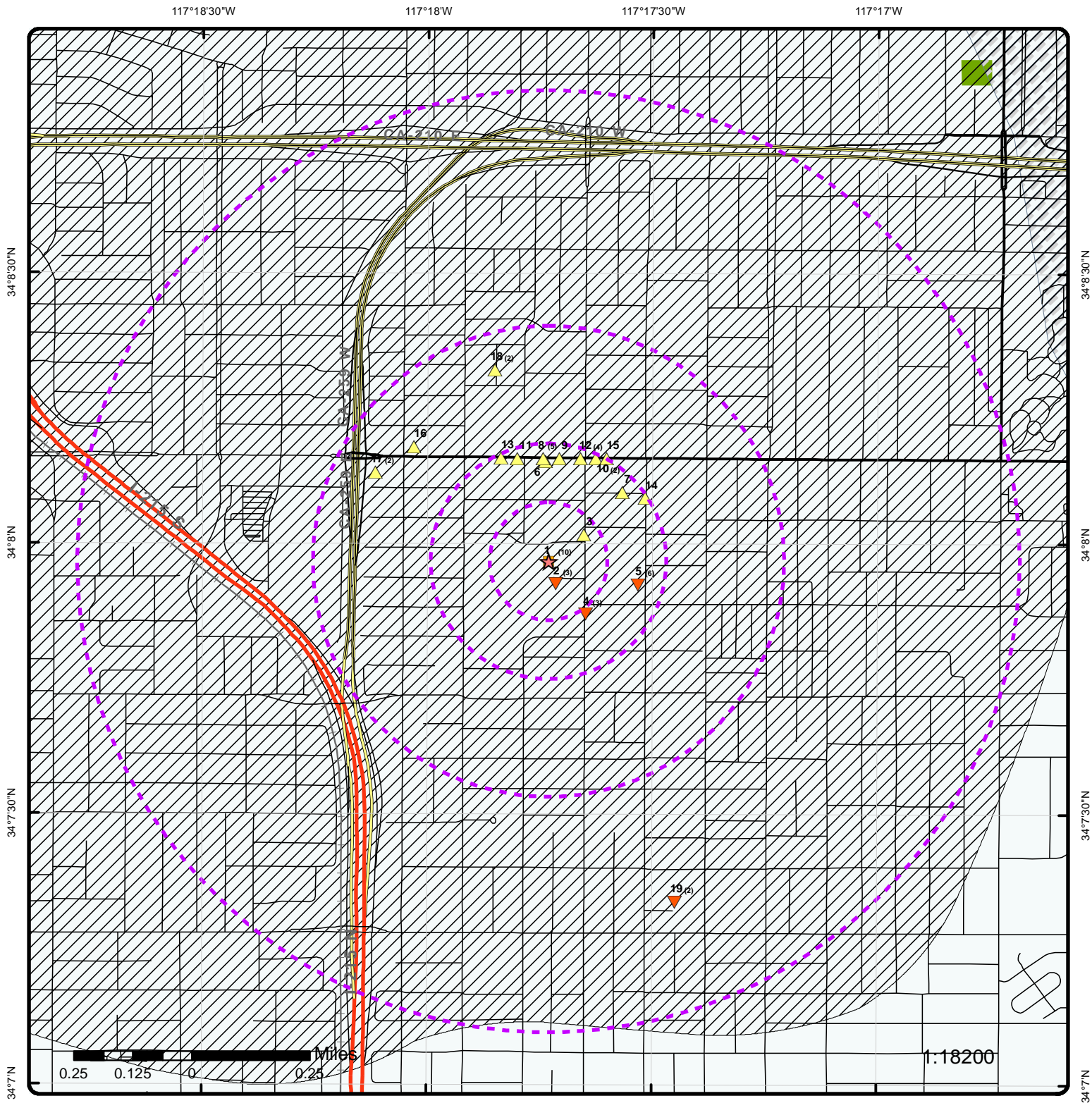


<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
	1850 NORTH E ST SAN BERNADINO CA 924040000	-	0.00 / 0.00	<a href="#">1</a>

### **EMISSIONS - Toxic Pollutant Emissions Facilities**

A search of the EMISSIONS database, dated Dec 31, 2015 has found that there are 1 EMISSIONS site(s) within approximately 0.25 miles of the project property.

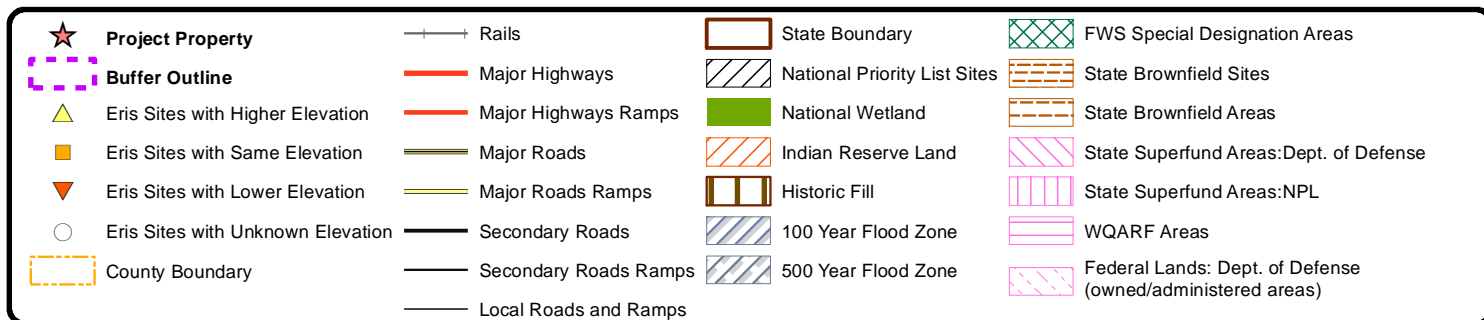
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SAN BERNARDINO AUTO PAINTING	463 HIGHLAND SAN BERNARDINO CA 90009	NNE	0.25 / 1,320.41	<a href="#">15</a>

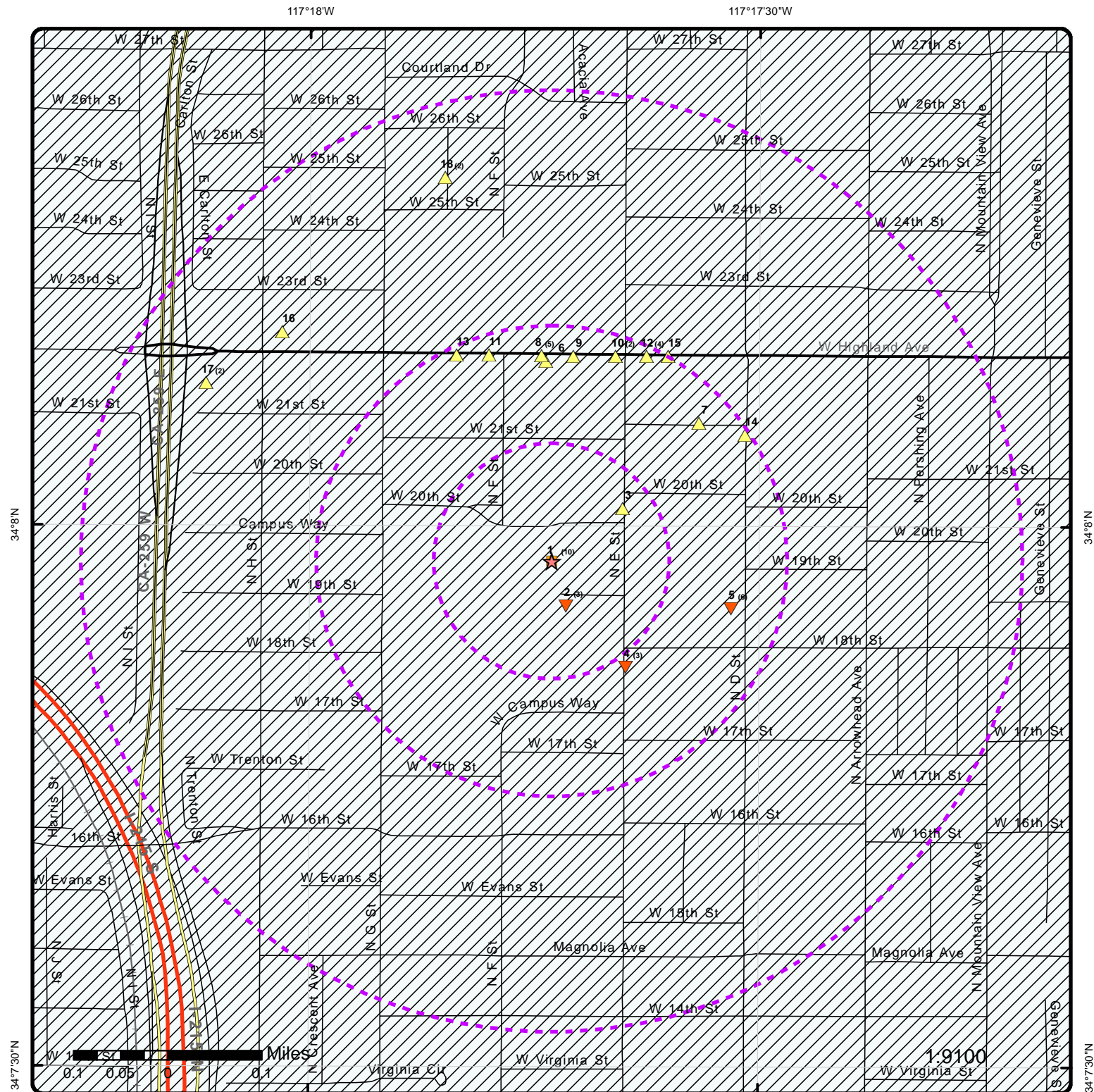


## Map : 1 Mile Radius

Order No: 20180323119

Address: 1850 N E St, San Bernardino, CA, 92405

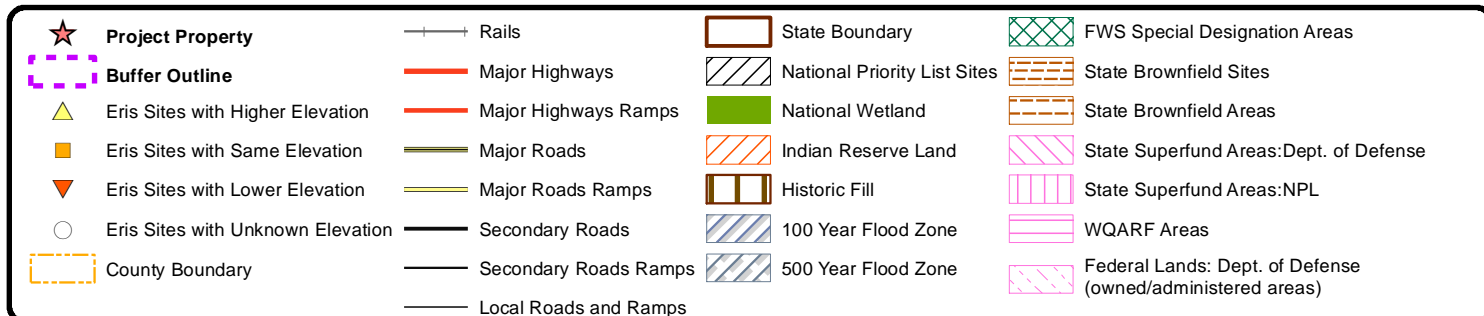




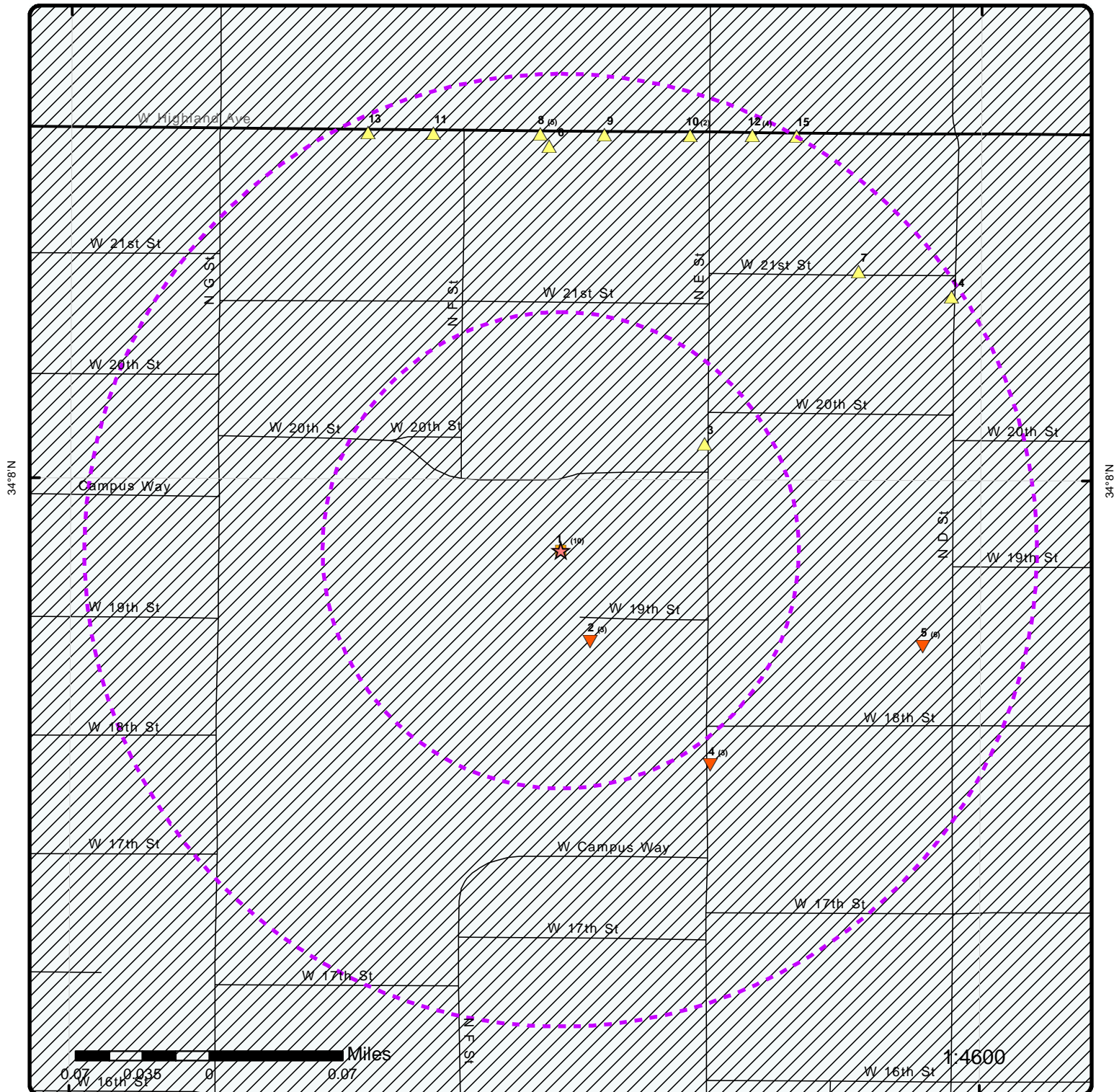
## Map : 0.5 Mile Radius

Order No: 20180323119

Address: 1850 N E St, San Bernardino, CA, 92405



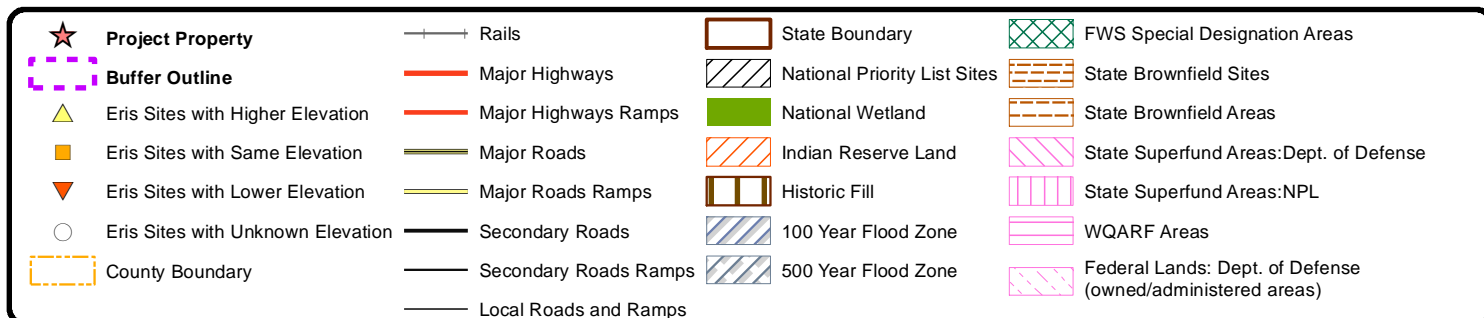




## Map : 0.25 Mile Radius

Order No: 20180323119

Address: 1850 N E St, San Bernardino, CA, 92405







**Aerial (2016)**

**Address: 1850 N E St, San Bernardino, CA, 92405**

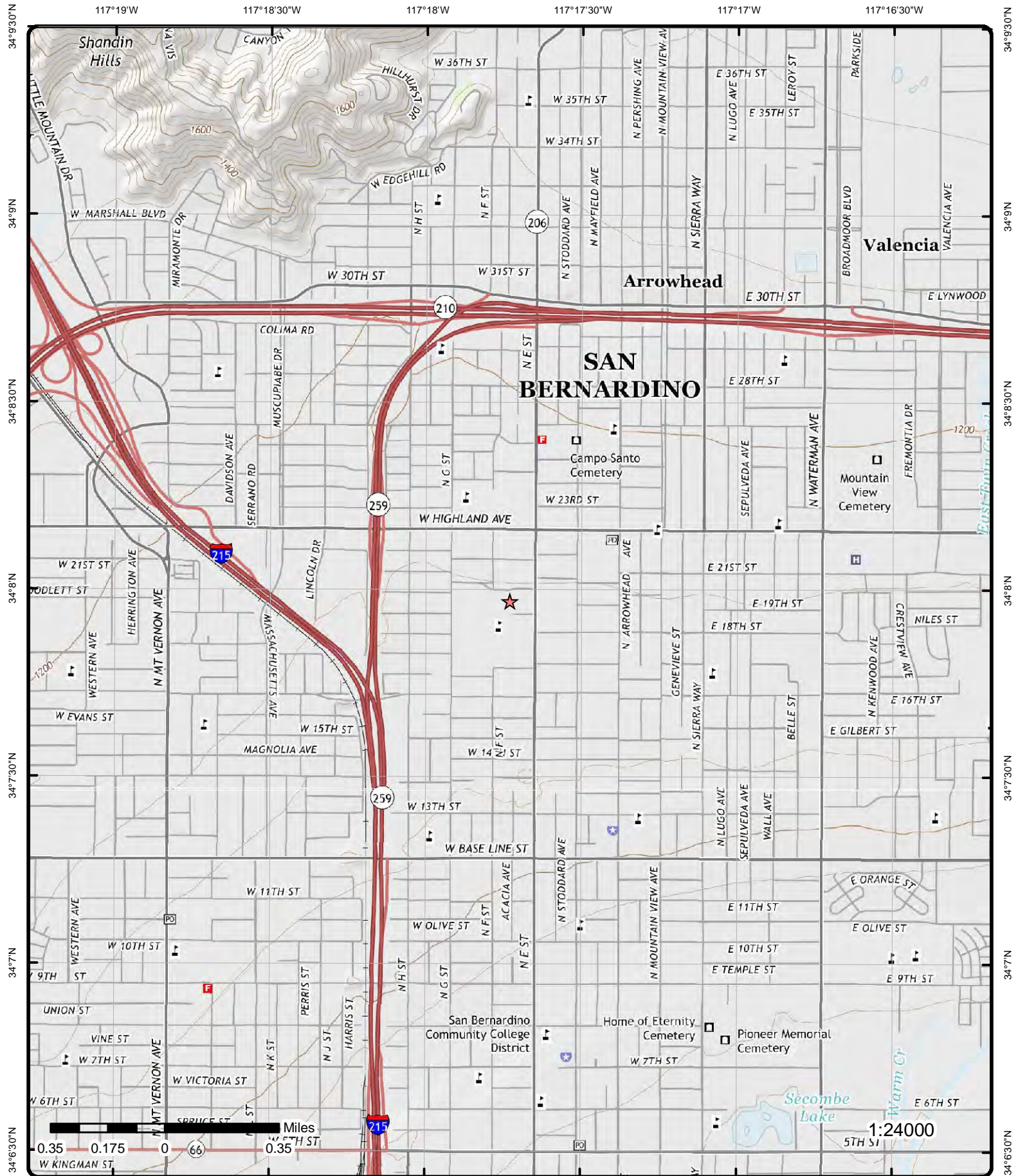
**Source:** ESRI World Imagery

Order No: 20180323119



© ERIS Information Inc.







# Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<a href="#">1</a>	1 of 10	-	0.00 / 0.00	1,156.07 / 0	SAN BERNARDINO HIGH SCHOOL 1850 N E ST SAN BERNARDINO CA 92405	CERS HAZ

**Site ID:** 150319  
**Latitude:** 34.131850  
**Longitude:** -117.294320

## Regulated Programs

<b>EI ID:</b>	10044400	<b>EI Description:</b>	Chemical Storage Facilities
<b>EI ID:</b>	10044400	<b>EI Description:</b>	Hazardous Waste Generator

## Affiliations

**Affil Type Desc:** Property Owner  
**Entity Name:** SBCUSD  
**Entity Title:**  
**Address:** 777 N F Street  
**City:** San Bernardino  
**State:** CA  
**Country:** United States  
**Zip Code:** 92410  
**Phone:** (909) 381-1192

**Affil Type Desc:** Environmental Contact  
**Entity Name:** Eric Vetere  
**Entity Title:**  
**Address:** 777 N F ST  
**City:** SAN BERNARDINO  
**State:** CA  
**Country:**  
**Zip Code:** 92410  
**Phone:** (909) 772-4249

**Affil Type Desc:** Primary Emergency Contact  
**Entity Name:** Eric Vetere  
**Entity Title:** Safety Officer / Emergency Manager  
**Address:**  
**City:**  
**State:**  
**Country:**  
**Zip Code:**  
**Phone:** (909) 772-4249

**Affil Type Desc:** CUPA District  
**Entity Name:** San Bernardino County Fire  
**Entity Title:**  
**Address:** 620 South E Street  
**City:** San Bernardino  
**State:** CA  
**Country:**  
**Zip Code:** 92415-0153  
**Phone:** (909) 386-8401

**Affil Type Desc:** Facility Mailing Address

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<hr/>						
<b>Entity Name:</b>		Mailing Address				
<b>Entity Title:</b>						
<b>Address:</b>		1850 NORTH E STREET				
<b>City:</b>		SAN BERNARDINO				
<b>State:</b>		CA				
<b>Country:</b>						
<b>Zip Code:</b>		92405				
<b>Phone:</b>						
<b>Affil Type Desc:</b>		Identification Signer				
<b>Entity Name:</b>		Eric Vetere				
<b>Entity Title:</b>		Safety Officer				
<b>Address:</b>						
<b>City:</b>						
<b>State:</b>						
<b>Country:</b>						
<b>Zip Code:</b>						
<b>Phone:</b>						
<b>Affil Type Desc:</b>		Operator				
<b>Entity Name:</b>		San Bernardino City Unified School District				
<b>Entity Title:</b>						
<b>Address:</b>						
<b>City:</b>						
<b>State:</b>						
<b>Country:</b>						
<b>Zip Code:</b>						
<b>Phone:</b>		(909) 881-8217				
<b>Affil Type Desc:</b>		Parent Corporation				
<b>Entity Name:</b>		San Bernardino City Unified School District				
<b>Entity Title:</b>						
<b>Address:</b>						
<b>City:</b>						
<b>State:</b>						
<b>Country:</b>						
<b>Zip Code:</b>						
<b>Phone:</b>						
<b>Affil Type Desc:</b>		Secondary Emergency Contact				
<b>Entity Name:</b>		SBCUSD Police				
<b>Entity Title:</b>						
<b>Address:</b>						
<b>City:</b>						
<b>State:</b>						
<b>Country:</b>						
<b>Zip Code:</b>						
<b>Phone:</b>		(909) 388-6130				
<b>Affil Type Desc:</b>		Document Preparer				
<b>Entity Name:</b>		Eric Vetere				
<b>Entity Title:</b>						
<b>Address:</b>						
<b>City:</b>						
<b>State:</b>						
<b>Country:</b>						
<b>Zip Code:</b>						
<b>Phone:</b>						
<b>Affil Type Desc:</b>		Legal Owner				
<b>Entity Name:</b>		SAN BERNARDINO USD				
<b>Entity Title:</b>						
<b>Address:</b>		777 NORTH 'F' STREET				
<b>City:</b>		SAN BERNARDINO				
<b>State:</b>		CA				
<b>Country:</b>		United States				
<b>Zip Code:</b>		92410-9241				
<b>Phone:</b>		(909) 381-1193				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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#### Coordinates

<b>Env Int Type Code:</b>	HWG	<b>Longitude:</b>	-117.294215
<b>Program ID:</b>	10044400	<b>Coord Name:</b>	
<b>Latitude:</b>	34.131778	<b>Ref Point Type Desc:</b>	Unknown

#### Evaluations

<b>Eval Date:</b>	8/28/2013
<b>Violations Found:</b>	No
<b>Eval General Type:</b>	Compliance Evaluation Inspection
<b>Eval Type:</b>	Routine done by local agency
<b>Eval Division:</b>	San Bernardino County Fire Department
<b>Eval Program:</b>	HMRRP
<b>Eval Source:</b>	CERS
<b>Eval Notes:</b>	

science labs/store room undergoing remodel

<b>Eval Date:</b>	12/22/2016
<b>Violations Found:</b>	No
<b>Eval General Type:</b>	Compliance Evaluation Inspection
<b>Eval Type:</b>	Routine done by local agency
<b>Eval Division:</b>	San Bernardino County Fire Department
<b>Eval Program:</b>	HMRRP
<b>Eval Source:</b>	CERS
<b>Eval Notes:</b>	

Routine inspection

<b>Eval Date:</b>	12/22/2016
<b>Violations Found:</b>	No
<b>Eval General Type:</b>	Compliance Evaluation Inspection
<b>Eval Type:</b>	Routine done by local agency
<b>Eval Division:</b>	San Bernardino County Fire Department
<b>Eval Program:</b>	HW
<b>Eval Source:</b>	CERS
<b>Eval Notes:</b>	

Routine inspection

<b>Eval Date:</b>	8/28/2013
<b>Violations Found:</b>	Yes
<b>Eval General Type:</b>	Compliance Evaluation Inspection
<b>Eval Type:</b>	Routine done by local agency
<b>Eval Division:</b>	San Bernardino County Fire Department
<b>Eval Program:</b>	HW
<b>Eval Source:</b>	CERS
<b>Eval Notes:</b>	

labels

#### Violations

<b>Violation Date:</b>	8/28/2013	<b>Violation Program:</b>	HW
<b>Violation Division:</b>	San Bernardino County Fire Department	<b>Violation Source:</b>	CERS
<b>Citation:</b>	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple		
<b>Violation Notes:</b>			

Returned to compliance on 08/28/2013. Failure to note accumulation start date on labels (CCR 66262.34(f)(2))

#### **Violation Description:**



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Haz Waste Generator Program - Operations/Maintenance - General

# **Enforcements**

<b>Enf Action Date:</b>	8/28/2013	<b>Enf Action Program:</b>	HW
<b>Enf Action Type:</b>	Notice of Violation (Unified Program)	<b>Enf Action Source:</b>	CERS
<b>Enf Action Division:</b>	San Bernardino County Fire Department		
<b>Enf Action Description:</b>	Notice of Violation Issued by the Inspector at the Time of Inspection		
<b>Enf Action Notes:</b>			

<a href="#">1</a>	2 of 10	-	0.00 / 0.00	1,156.07 / 0	SAN BERNARDINO HIGH SCHOOL 1850 N E ST SAN BERNARDINO CA 92405	SANBERN CUPA
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**Facility ID:** FA0006008  
**Owner Info:** San Bernardino City Unified School District  
**Mailing Care of:**

# **--Details--**

**Status:** INACTIVE  
**Permit ID:** PT0023407  
**Permit Desc:** UW HANDLER W/ ANOTHER HAZ WASTE GENERATOR FEE  
**Program Element Code:** 5415  
**To:** 10/31/2013

**Status:** ACTIVE  
**Permit ID:** PT0003563  
**Permit Desc:** HAZARDOUS MATERIALS 4-10 CHEMICALS  
**Program Element Code:** 4243  
**To:** 10/31/2018

**Status:** ACTIVE  
**Permit ID:** PT0003564  
**Permit Desc:** SMALL QUANTITY GENERATOR  
**Program Element Code:** 4453  
**To:** 10/31/2018

<a href="#">1</a>	3 of 10	-	0.00 / 0.00	1,156.07 / 0	SAN BERNARDINO HIGH SCHOOL 1850 N E ST SAN BERNARDINO CA 92405	FINDS/FRS
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**Registry ID:** 110066060032  
**FIPS Code:**  
**Program Acronyms:** CA-ENVIROVIEW  
**HUC Code:** 18070203  
**Site Type Name:** STATIONARY  
**Location Description:**  
**Supplemental Location:**  
**Create Date:** 14-OCT-2015 09:42:17  
**Update Date:**  
**Interest Types:** STATE MASTER  
**SIC Codes:** 8211  
**SIC Code Descriptions:** ELEMENTARY AND SECONDARY SCHOOLS  
**NAICS Codes:** 611110  
**NAICS Code Descriptions:** ELEMENTARY AND SECONDARY SCHOOLS.  
**Conveyor:** FRS-GEocode  
**Federal Facility Code:**  
**Federal Agency Name:**  
**Tribal Land Code:**  
**Tribal Land Name:**  
**Congressional Dist No.:** 43  
**Census Block Code:** 060710054001018

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
EPA Region Code:		09				
County Name:		SAN BERNARDINO COUNT				
US/Mexico Border Ind:						
Latitude:		34.131742				
Longitude:		-117.29416				
Reference Point:		ENTRANCE POINT OF A FACILITY OR STATION				
Coord Collection Method:		ADDRESS MATCHING-HOUSE NUMBER				
Accuracy Value:		50				
Datum:		NAD83				
Source:						
Facility Detail Rprt URL:		http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110066060032				

<a href="#">1</a>	4 of 10	-	0.00 / 0.00	1,156.07 / 0	1850 NORTH E ST SAN BERNADINO CA 924040000	HIST MANIFEST
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Gen EPA ID: CAX000230649  
 Create Date: 06/03/1985 0:00  
 Inact Date: 6/30/1998 0:00:00  
 Facility Mail Street: SAN BERNADINO CITY SCHOOL DIST  
 Facility Mail City: SAN BERNADINO  
 Facility Mail State: CA  
 Facility Mail Zip: 924040000  
 Contact Phone(s): 7143811280  
 File Year(s): 1985; 1986; 1987  
 Contact Name(s): JIM LEWIS

#### Tanner Information

Method Description:  
 Tons: 0.05  
 Year: 1985  
 Generator County Code: 36  
 Generator County: San Bernardino  
 Method Code: D80  
 Tsd County Code: 42  
 Tsd County: Santa Barbara  
 State Waste Code: 551  
 State Waste Code Desc: Laboratory waste chemicals  
 Tsd Epa ID: CAD020748125

#### Tanner Information

Method Description:  
 Tons: 0.03  
 Year: 1986  
 Generator County Code: 36  
 Generator County: San Bernardino  
 Method Code: 3  
 Tsd County Code: 19  
 Tsd County: Los Angeles  
 State Waste Code: 151  
 State Waste Code Desc: Asbestos containing waste  
 Tsd Epa ID: CAD067786749

#### Tanner Information

Method Description:  
 Tons: 0  
 Year: 1987  
 Generator County Code: 36  
 Generator County: San Bernardino  
 Method Code:  
 Tsd County Code: 0

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Tsd County:</b> <b>State Waste Code:</b> <b>State Waste Code Desc:</b> <b>Tsd Epa ID:</b>						
<b><u>Tanner Information</u></b>						
<b>Method Description:</b>						
<b>Tons:</b>			0			
<b>Year:</b>			1987			
<b>Generator County Code:</b>			36			
<b>Generator County:</b>			San Bernardino			
<b>Method Code:</b>						
<b>Tsd County Code:</b>			0			
<b>Tsd County:</b>						
<b>State Waste Code:</b>			551			
<b>State Waste Code Desc:</b>			Laboratory waste chemicals			
<b>Tsd Epa ID:</b>						
<b><u>Tanner Information</u></b>						
<b>Method Description:</b>						
<b>Tons:</b>			0			
<b>Year:</b>			1985			
<b>Generator County Code:</b>			36			
<b>Generator County:</b>			San Bernardino			
<b>Method Code:</b>						
<b>Tsd County Code:</b>			42			
<b>Tsd County:</b>			Santa Barbara			
<b>State Waste Code:</b>						
<b>State Waste Code Desc:</b>						
<b>Tsd Epa ID:</b>			CAD020748125			
<b><u>Tanner Information</u></b>						
<b>Method Description:</b>						
<b>Tons:</b>			0			
<b>Year:</b>			1986			
<b>Generator County Code:</b>			36			
<b>Generator County:</b>			San Bernardino			
<b>Method Code:</b>						
<b>Tsd County Code:</b>			0			
<b>Tsd County:</b>						
<b>State Waste Code:</b>						
<b>State Waste Code Desc:</b>						
<b>Tsd Epa ID:</b>			CA0067786749			
<b><u>Tanner Information</u></b>						
<b>Method Description:</b>						
<b>Tons:</b>			0.04			
<b>Year:</b>			1986			
<b>Generator County Code:</b>			36			
<b>Generator County:</b>			San Bernardino			
<b>Method Code:</b>			3			
<b>Tsd County Code:</b>			0			
<b>Tsd County:</b>						
<b>State Waste Code:</b>			151			
<b>State Waste Code Desc:</b>			Asbestos containing waste			
<b>Tsd Epa ID:</b>			CA0067786749			
<b><u>Tanner Information</u></b>						



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Method Description:</b>						
Tons:		0				
Year:		1987				
Generator County Code:		36				
Generator County:		San Bernardino				
Method Code:						
Tsd County Code:		42				
Tsd County:		Santa Barbara				
State Waste Code:						
State Waste Code Desc:						
Tsd Epa ID:		CAD020748125				
<b>Tanner Information</b>						
<b>Method Description:</b>						
Tons:		3.45				
Year:		1987				
Generator County Code:		36				
Generator County:		San Bernardino				
Method Code:		3				
Tsd County Code:		42				
Tsd County:		Santa Barbara				
State Waste Code:		551				
State Waste Code Desc:		Laboratory waste chemicals				
Tsd Epa ID:		CAD020748125				
<b>Tanner Information</b>						
<b>Method Description:</b>						
Tons:		0				
Year:		1986				
Generator County Code:		36				
Generator County:		San Bernardino				
Method Code:						
Tsd County Code:		19				
Tsd County:		Los Angeles				
State Waste Code:						
State Waste Code Desc:						
Tsd Epa ID:		CAD067786749				
<b>Tanner Information</b>						
<b>Method Description:</b>						
Tons:		5.00E-04				
Year:		1985				
Generator County Code:		36				
Generator County:		San Bernardino				
Method Code:						
Tsd County Code:		0				
Tsd County:						
State Waste Code:						
State Waste Code Desc:						
Tsd Epa ID:						
<b>Tanner Information</b>						
<b>Method Description:</b>						
Tons:		0.03				
Year:		1986				
Generator County Code:		36				
Generator County:		San Bernardino				
Method Code:		D80				
Tsd County Code:		19				
Tsd County:		Los Angeles				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
State Waste Code:		151				
State Waste Code Desc:		Asbestos containing waste				
Tsd Epa ID:		CAD067786749				

<a href="#">1</a>	5 of 10	-	0.00 / 0.00	1,156.07 / 0	1850 NORTH E ST SAN BERNARDINO CA 924050000	<b>HIST MANIFEST</b>
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**Gen EPA ID:** CAD982330615  
**Create Date:** 6/17/1988 0:00:00  
**Inact Date:** 12/17/2012 0:00:00  
**Facility Mail Street:** 777 N F ST  
**Facility Mail City:** SAN BERNARDINO  
**Facility Mail State:** CA  
**Facility Mail Zip:** 924103017  
**Contact Phone(s):** 9093811193  
**File Year(s):** 1989; 1990; 1991; 1992  
**Contact Name(s):** ERIC VETERE

#### Tanner Information

**Method Description:**  
**Tons:** 0  
**Year:** 1992  
**Generator County Code:** 36  
**Generator County:** San Bernardino  
**Method Code:**  
**Tsd County Code:** 15  
**Tsd County:** Kern  
**State Waste Code:**  
**State Waste Code Desc:**  
**Tsd Epa ID:** CAD980883177

#### Tanner Information

**Method Description:**  
**Tons:** 0  
**Year:** 1990  
**Generator County Code:** 36  
**Generator County:** San Bernardino  
**Method Code:**  
**Tsd County Code:** 99  
**Tsd County:** Unknown  
**State Waste Code:**  
**State Waste Code Desc:**  
**Tsd Epa ID:** AZC000000150

#### Tanner Information

**Method Description:**  
**Tons:** 4.37  
**Year:** 1989  
**Generator County Code:** 36  
**Generator County:** San Bernardino  
**Method Code:** D80  
**Tsd County Code:** 99  
**Tsd County:** Unknown  
**State Waste Code:** 151  
**State Waste Code Desc:** Asbestos containing waste  
**Tsd Epa ID:** AZC000000150

#### Tanner Information

**Method Description:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Tons:			0			
Year:			1990			
Generator County Code:			36			
Generator County:			San Bernardino			
Method Code:						
Tsd County Code:			45			
Tsd County:			Shasta			
State Waste Code:						
State Waste Code Desc:						
Tsd Epa ID:			CAD981388952			

**Tanner Information**

**Method Description:**

Tons: 0.01  
Year: 1990  
Generator County Code: 36  
Generator County: San Bernardino  
Method Code: D80  
Tsd County Code: 45  
Tsd County: Shasta  
State Waste Code: 151  
State Waste Code Desc: Asbestos containing waste  
Tsd Epa ID: CAD981388952

**Tanner Information**

**Method Description:**

Tons: 1.25  
Year: 1992  
Generator County Code: 36  
Generator County: San Bernardino  
Method Code: R01  
Tsd County Code: 15  
Tsd County: Kern  
State Waste Code: 241  
State Waste Code Desc: Tank bottom waste  
Tsd Epa ID: CAD980883177

**Tanner Information**

**Method Description:**

Tons: 0.01  
Year: 1991  
Generator County Code: 36  
Generator County: San Bernardino  
Method Code: D80  
Tsd County Code: 45  
Tsd County: Shasta  
State Waste Code: 151  
State Waste Code Desc: Asbestos containing waste  
Tsd Epa ID: CAD981388952

**Tanner Information**

**Method Description:**

Tons: 0  
Year: 1992  
Generator County Code: 36  
Generator County: San Bernardino  
Method Code: 3  
Tsd County Code: 0  
Tsd County:  
State Waste Code: 151



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
State Waste Code Desc:		Asbestos containing waste				
Tsd Epa ID:		IRC957100391				
<u>Tanner Information</u>						
Method Description:						
Tons:		0				
Year:		1992				
Generator County Code:		36				
Generator County:		San Bernardino				
Method Code:						
Tsd County Code:		99				
Tsd County:		Unknown				
State Waste Code:						
State Waste Code Desc:						
Tsd Epa ID:		IRC957100891				
<u>Tanner Information</u>						
Method Description:						
Tons:		0				
Year:		1989				
Generator County Code:		36				
Generator County:		San Bernardino				
Method Code:						
Tsd County Code:		99				
Tsd County:		Unknown				
State Waste Code:						
State Waste Code Desc:						
Tsd Epa ID:		AZC000000150				
<u>Tanner Information</u>						
Method Description:						
Tons:		0.21				
Year:		1990				
Generator County Code:		36				
Generator County:		San Bernardino				
Method Code:		D80				
Tsd County Code:		99				
Tsd County:		Unknown				
State Waste Code:		151				
State Waste Code Desc:		Asbestos containing waste				
Tsd Epa ID:		AZC000000150				
<u>Tanner Information</u>						
Method Description:						
Tons:		0				
Year:		1992				
Generator County Code:		36				
Generator County:		San Bernardino				
Method Code:						
Tsd County Code:		39				
Tsd County:		San Joaquin				
State Waste Code:						
State Waste Code Desc:						
Tsd Epa ID:		CAD990794133				
<u>Tanner Information</u>						
Method Description:						
Tons:		0.84				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Year:</b>		1992				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>Method Code:</b>						
<b>Tsd County Code:</b>		99				
<b>Tsd County:</b>		Unknown				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc:</b>		Asbestos containing waste				
<b>Tsd Epa ID:</b>		IRC957100891				
<b><u>Tanner Information</u></b>						
<b>Method Description:</b>						
<b>Tons:</b>		2.52				
<b>Year:</b>		1992				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>Method Code:</b>		D80				
<b>Tsd County Code:</b>		39				
<b>Tsd County:</b>		San Joaquin				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc:</b>		Asbestos containing waste				
<b>Tsd Epa ID:</b>		CAD990794133				
<b><u>Tanner Information</u></b>						
<b>Method Description:</b>						
<b>Tons:</b>		0				
<b>Year:</b>		1992				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>Method Code:</b>						
<b>Tsd County Code:</b>		0				
<b>Tsd County:</b>						
<b>State Waste Code:</b>						
<b>State Waste Code Desc:</b>						
<b>Tsd Epa ID:</b>		IRC957100391				
<b><u>Tanner Information</u></b>						
<b>Method Description:</b>						
<b>Tons:</b>		0				
<b>Year:</b>		1991				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>Method Code:</b>						
<b>Tsd County Code:</b>		45				
<b>Tsd County:</b>		Shasta				
<b>State Waste Code:</b>						
<b>State Waste Code Desc:</b>						
<b>Tsd Epa ID:</b>		CAD981388952				
<b><u>Tanner Information</u></b>						
<b>Method Description:</b>						
<b>Tons:</b>		0				
<b>Year:</b>		1991				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>Method Code:</b>		3				
<b>Tsd County Code:</b>		45				
<b>Tsd County:</b>		Shasta				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc:</b>		Asbestos containing waste				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Tsd Epa ID:		CAD981388952				
<a href="#">1</a>	6 of 10	-	0.00 / 0.00	1,156.07 / 0	SBCUSD/SAN BERNARDINO HIGH SCHOOL 1850 NORTH E ST SAN BERNARDINO CA 924050000	HAZNET
SIC Code:		8211		Mailing City:		SAN BERNARDINO
NAICS Code:		61111		Mailing State:		CA
EPA ID:		CAD982330615		Mailing Zip:		924103017
Create Date:		6/17/1988		Region Code:		4
Fac Act Ind:		No		Owner Name:		SAN BERNARDINO CITY USD
Inact Date:		12/17/2012		Owner Addr 1:		777 N F ST
County Code:		36		Owner Addr 2:		
County Name:		San Bernardino		Owner City:		SAN BERNARDINO
Mail Name:		ENVIRONMENTAL SAFETY		Owner State:		CA
Mailing Addr 1:		777 N F ST		Owner Zip:		924103017
Mailing Addr 2:				Owner Phone:		9093811193
Owner Fax:		0000000000				
Contact Information						
Contact Name:		ERIC VETERE				
Street Address 1:		777 NORTH F ST				
Street Address 2:		ENVIRONMENTAL SAFETY				
City:		SAN BERNARDINO				
State:		CA				
Zip:		924100000				
Phone:		9093811193				
Tanner Information						
Generator EPA ID:		CAD982330615				
Generator County Code:		36				
Generator County:		San Bernardino				
TSD EPA ID:		CAD990794133				
TSD County Code:		39				
TSD County:		San Joaquin				
State Waste Code:		151				
State Waste Code Desc.:		Asbestos containing waste				
Method Code:		D80				
Method Description:		Disposal, landfill				
Tons:		2.107				
Year:		1993				
Generator EPA ID:		CAD982330615				
Generator County Code:		36				
Generator County:		San Bernardino				
TSD EPA ID:		IRC957100891				
TSD County Code:		99				
TSD County:		Unknown				
State Waste Code:		151				
State Waste Code Desc.:		Asbestos containing waste				
Method Code:		D80				
Method Description:		Disposal, landfill				
Tons:		0.4214				
Year:		1993				
Generator EPA ID:		CAD982330615				
Generator County Code:		36				
Generator County:		San Bernardino				
TSD EPA ID:		CAD009007626				
TSD County Code:		19				
TSD County:		Los Angeles				
State Waste Code:		151				
State Waste Code Desc.:		Asbestos containing waste				
Method Code:		D80				



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<hr/>						
<b>Method Description:</b>		Disposal, landfill				
<b>Tons:</b>		1.3484				
<b>Year:</b>		1994				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		IRC957100891				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		D80				
<b>Method Description:</b>		Disposal, landfill				
<b>Tons:</b>		0.8428				
<b>Year:</b>		1994				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD009007626				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		D80				
<b>Method Description:</b>		Disposal, landfill				
<b>Tons:</b>		0.2107				
<b>Year:</b>		1997				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD009007626				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		D80				
<b>Method Description:</b>		Disposal, landfill				
<b>Tons:</b>		1.0956				
<b>Year:</b>		1998				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAT080022148				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		331				
<b>State Waste Code Desc.:</b>		Off-specification, aged or surplus organics				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		0.165				
<b>Year:</b>		1998				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAT080022148				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		141				
<b>State Waste Code Desc.:</b>		Off-specification, aged or surplus inorganics				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		0.11				
<b>Year:</b>		1998				
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<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>						
<b>TSD County Code:</b>						
<b>TSD County:</b>						
<b>State Waste Code:</b>		222				
<b>State Waste Code Desc.:</b>		Oil/water separation sludge				
<b>Method Code:</b>		T01				
<b>Method Description:</b>		Treatment, tank				
<b>Tons:</b>		3.336				
<b>Year:</b>		1999				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD009007626				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		D80				
<b>Method Description:</b>		Disposal, landfill				
<b>Tons:</b>		1.2641				
<b>Year:</b>		1999				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		OKD089761290				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		551				
<b>State Waste Code Desc.:</b>		Laboratory waste chemicals				
<b>Method Code:</b>						
<b>Method Description:</b>						
<b>Tons:</b>		0.405				
<b>Year:</b>		1999				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		TND000772186				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		551				
<b>State Waste Code Desc.:</b>		Laboratory waste chemicals				
<b>Method Code:</b>		D80				
<b>Method Description:</b>		Disposal, landfill				
<b>Tons:</b>		0.0125				
<b>Year:</b>		1999				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		TND000772186				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		551				
<b>State Waste Code Desc.:</b>		Laboratory waste chemicals				
<b>Method Code:</b>		T03				
<b>Method Description:</b>		Treatment, incineration				
<b>Tons:</b>		0.125				
<b>Year:</b>		1999				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		TND000772186				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		551				
<b>State Waste Code Desc.:</b>		Laboratory waste chemicals				
<b>Method Code:</b>		D99				
<b>Method Description:</b>		Disposal, other				
<b>Tons:</b>		0.1625				
<b>Year:</b>		1999				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		TND000772186				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>						
<b>State Waste Code Desc.:</b>						
<b>Method Code:</b>		D99				
<b>Method Description:</b>		Disposal, other				
<b>Tons:</b>		0				
<b>Year:</b>		1999				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		TND000772186				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		551				
<b>State Waste Code Desc.:</b>		Laboratory waste chemicals				
<b>Method Code:</b>						
<b>Method Description:</b>						
<b>Tons:</b>		0.2085				
<b>Year:</b>		1999				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD009007626				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		D80				
<b>Method Description:</b>		Disposal, landfill				
<b>Tons:</b>		3.6238				
<b>Year:</b>		2000				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD028409019				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		331				
<b>State Waste Code Desc.:</b>		Off-specification, aged or surplus organics				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		0.0165				
<b>Year:</b>		2000				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		223				
<b>State Waste Code Desc.:</b>		Unspecified oil-containing waste				



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		1.251				
<b>Year:</b>		2000				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		551				
<b>State Waste Code Desc.:</b>		Laboratory waste chemicals				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		3.315				
<b>Year:</b>		2000				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		223				
<b>State Waste Code Desc.:</b>		Unspecified oil-containing waste				
<b>Method Code:</b>		R01				
<b>Method Description:</b>		Recycler				
<b>Tons:</b>		5.004				
<b>Year:</b>		2000				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAT080022148				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		331				
<b>State Waste Code Desc.:</b>		Off-specification, aged or surplus organics				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		0.1				
<b>Year:</b>		2000				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAT080022148				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		551				
<b>State Waste Code Desc.:</b>		Laboratory waste chemicals				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		1.775				
<b>Year:</b>		2000				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD009007626				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		D80				
<b>Method Description:</b>		Disposal, landfill				
<b>Tons:</b>		2.0225				
<b>Year:</b>		2001				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		223				
<b>State Waste Code Desc.:</b>		Unspecified oil-containing waste				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		8.34				
<b>Year:</b>		2001				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD009007626				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		D80				
<b>Method Description:</b>		Disposal, landfill				
<b>Tons:</b>		0.8428				
<b>Year:</b>		2002				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		223				
<b>State Waste Code Desc.:</b>		Unspecified oil-containing waste				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		3.336				
<b>Year:</b>		2002				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD009007626				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		D80				
<b>Method Description:</b>		Disposal, landfill				
<b>Tons:</b>		1.6856				
<b>Year:</b>		2003				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD028409019				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		551				
<b>State Waste Code Desc.:</b>		Laboratory waste chemicals				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		0.185				
<b>Year:</b>		2003				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>TSD EPA ID:</b>		CAD028409019				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		214				
<b>State Waste Code Desc.:</b>		Unspecified solvent mixture				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		0.5				
<b>Year:</b>		2003				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD028409019				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		135				
<b>State Waste Code Desc.:</b>		Unspecified aqueous solution				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		0.0588				
<b>Year:</b>		2003				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		221				
<b>State Waste Code Desc.:</b>		Waste oil and mixed oil				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		0.285				
<b>Year:</b>		2003				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		134				
<b>State Waste Code Desc.:</b>		Aqueous solution with total organic residues less than 10 percent				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		0.084				
<b>Year:</b>		2003				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		223				
<b>State Waste Code Desc.:</b>		Unspecified oil-containing waste				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		3.336				
<b>Year:</b>		2003				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		222				



<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
<b>State Waste Code Desc.:</b>		Oil/water separation sludge				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		0.4587				
<b>Year:</b>		2003				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD028409019				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		551				
<b>State Waste Code Desc.:</b>		Laboratory waste chemicals				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		0.03				
<b>Year:</b>		2004				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD009007626				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		D80				
<b>Method Description:</b>		Disposal, landfill				
<b>Tons:</b>		1.0535				
<b>Year:</b>		2004				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD044429835				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		331				
<b>State Waste Code Desc.:</b>		Off-specification, aged or surplus organics				
<b>Method Code:</b>		D99				
<b>Method Description:</b>		Disposal, other				
<b>Tons:</b>		0.21				
<b>Year:</b>		2004				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD044429835				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		214				
<b>State Waste Code Desc.:</b>		Unspecified solvent mixture				
<b>Method Code:</b>		D99				
<b>Method Description:</b>		Disposal, other				
<b>Tons:</b>		0.02				
<b>Year:</b>		2004				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		134				
<b>State Waste Code Desc.:</b>		Aqueous solution with total organic residues less than 10 percent				
<b>Method Code:</b>						
<b>Method Description:</b>						
<b>Tons:</b>		0.126				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Year:</b>		2004				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		221				
<b>State Waste Code Desc.:</b>		Waste oil and mixed oil				
<b>Method Code:</b>		H01				
<b>Method Description:</b>		Transfer station				
<b>Tons:</b>		0.114				
<b>Year:</b>		2004				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		AZC950823111				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		D80				
<b>Method Description:</b>		Disposal, landfill				
<b>Tons:</b>		1.6856				
<b>Year:</b>		2005				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		221				
<b>State Waste Code Desc.:</b>		Waste oil and mixed oil				
<b>Method Code:</b>		R01				
<b>Method Description:</b>		Recycler				
<b>Tons:</b>		0.38				
<b>Year:</b>		2005				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		AZC950823111				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		D80				
<b>Method Description:</b>		Disposal, landfill				
<b>Tons:</b>		1.34848				
<b>Year:</b>		2006				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		AZC950823111				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>						
<b>Method Description:</b>						
<b>Tons:</b>		1.64				
<b>Year:</b>		2006				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<hr/>						
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		221				
<b>State Waste Code Desc.:</b>		Waste oil and mixed oil				
<b>Method Code:</b>		R01				
<b>Method Description:</b>		Recycler				
<b>Tons:</b>		0.285				
<b>Year:</b>		2006				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		134				
<b>State Waste Code Desc.:</b>		Aqueous solution with total organic residues less than 10 percent				
<b>Method Code:</b>		R01				
<b>Method Description:</b>		Recycler				
<b>Tons:</b>		0.21				
<b>Year:</b>		2006				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		AZC950823111				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		H132				
<b>Method Description:</b>		LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)				
<b>Tons:</b>		5.7284				
<b>Year:</b>		2007				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		AZC950823111				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		H132				
<b>Method Description:</b>		LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)				
<b>Tons:</b>		0.4				
<b>Year:</b>		2008				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD009007626				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		H132				
<b>Method Description:</b>		LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)				
<b>Tons:</b>		2.8428				
<b>Year:</b>		2008				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>TSD EPA ID:</b>		CAD028409019				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		725				
<b>State Waste Code Desc.:</b>		Liquids with mercury >= 20 Mg./L				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.01				
<b>Year:</b>		2008				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		AZC950823111				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		H132				
<b>Method Description:</b>		LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)				
<b>Tons:</b>		0.8				
<b>Year:</b>		2009				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>						
<b>TSD County Code:</b>						
<b>TSD County:</b>						
<b>State Waste Code:</b>		221				
<b>State Waste Code Desc.:</b>		Waste oil and mixed oil				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.437				
<b>Year:</b>		2009				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		AZC950823111				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		H132				
<b>Method Description:</b>		LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)				
<b>Tons:</b>		2.02				
<b>Year:</b>		2010				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD009007626				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		H132				
<b>Method Description:</b>		LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)				
<b>Tons:</b>		5.2				
<b>Year:</b>		2010				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		AZC950823111				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		H132				
<b>Method Description:</b>		LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)				
<b>Tons:</b>		116.415				
<b>Year:</b>		2011				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD008364432				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		141				
<b>State Waste Code Desc.:</b>		Off-specification, aged or surplus inorganics				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.06255				
<b>Year:</b>		2011				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD008364432				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		331				
<b>State Waste Code Desc.:</b>		Off-specification, aged or surplus organics				
<b>Method Code:</b>		H061				
<b>Method Description:</b>		FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE				
<b>Tons:</b>		0.0495				
<b>Year:</b>		2011				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD008364432				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		331				
<b>State Waste Code Desc.:</b>		Off-specification, aged or surplus organics				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.0165				
<b>Year:</b>		2011				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD008364432				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		461				
<b>State Waste Code Desc.:</b>		Paint sludge				
<b>Method Code:</b>		H061				
<b>Method Description:</b>		FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE				
<b>Tons:</b>		0.4587				
<b>Year:</b>		2011				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>TSD EPA ID:</b>		CAD008364432				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		551				
<b>State Waste Code Desc.:</b>		Laboratory waste chemicals				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.0075				
<b>Year:</b>		2011				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD009007626				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		151				
<b>State Waste Code Desc.:</b>		Asbestos containing waste				
<b>Method Code:</b>		H132				
<b>Method Description:</b>		LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)				
<b>Tons:</b>		3.6				
<b>Year:</b>		2011				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD028409019				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		181				
<b>State Waste Code Desc.:</b>		Other inorganic solid waste				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.7				
<b>Year:</b>		2011				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD044429835				
<b>TSD County Code:</b>		19				
<b>TSD County:</b>		Los Angeles				
<b>State Waste Code:</b>		331				
<b>State Waste Code Desc.:</b>		Off-specification, aged or surplus organics				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.0165				
<b>Year:</b>		2011				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		221				
<b>State Waste Code Desc.:</b>		Waste oil and mixed oil				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.38				
<b>Year:</b>		2011				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
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<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		331				
<b>State Waste Code Desc.:</b>		Off-specification, aged or surplus organics				
<b>Method Code:</b>		H129				
<b>Method Description:</b>		OTHER TREATMENT				
<b>Tons:</b>		0.1815				
<b>Year:</b>		2011				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		141				
<b>State Waste Code Desc.:</b>		Off-specification, aged or surplus inorganics				
<b>Method Code:</b>		H129				
<b>Method Description:</b>		OTHER TREATMENT				
<b>Tons:</b>		0.4587				
<b>Year:</b>		2011				
--		--				
<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		134				
<b>State Waste Code Desc.:</b>		Aqueous solution with total organic residues less than 10 percent				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.189				
<b>Year:</b>		2011				
--		--				
<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		352				
<b>State Waste Code Desc.:</b>		Other organic solids				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.0875				
<b>Year:</b>		2011				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		352				
<b>State Waste Code Desc.:</b>		Other organic solids				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.015				
<b>Year:</b>		2012				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<hr/>						
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		331				
<b>State Waste Code Desc.:</b>		Off-specification, aged or surplus organics				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.066				
<b>Year:</b>		2012				
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<b>Generator EPA ID:</b>		CAD982330615				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		MOD981123391				
<b>TSD County Code:</b>		99				
<b>TSD County:</b>		Unknown				
<b>State Waste Code:</b>		551				
<b>State Waste Code Desc.:</b>		Laboratory waste chemicals				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.05004				
<b>Year:</b>		2012				
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<a href="#">1</a>	7 of 10	-	0.00 / 0.00	1,156.07 / 0	SAN BERNADINO HIGH SCHOOL 1850 NORTH E ST SAN BERNADINO CA 924040000	HAZNET
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<b>SIC Code:</b>		<b>Mailing City:</b>	SAN BERNADINO
<b>NAICS Code:</b>		<b>Mailing State:</b>	CA
<b>EPA ID:</b>	CAX000230649	<b>Mailing Zip:</b>	924040000
<b>Create Date:</b>	6/3/1985	<b>Region Code:</b>	4
<b>Fac Act Ind:</b>	No	<b>Owner Name:</b>	--
<b>Inact Date:</b>	6/30/1998	<b>Owner Addr 1:</b>	--
<b>County Code:</b>	36	<b>Owner Addr 2:</b>	--
<b>County Name:</b>	San Bernardino	<b>Owner City:</b>	--
<b>Mail Name:</b>		<b>Owner State:</b>	99
<b>Mailing Addr 1:</b>	SAN BERNADINO CITY SCHOOL DIST	<b>Owner Zip:</b>	--
<b>Mailing Addr 2:</b>		<b>Owner Phone:</b>	0000000000
<b>Owner Fax:</b>			

**Contact Information**

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<b>Contact Name:</b>	JIM LEWIS
<b>Street Address 1:</b>	INACT PER 98VQ FINAL NOTICE
<b>Street Address 2:</b>	- BATCH 4/27
<b>City:</b>	--
<b>State:</b>	99
<b>Zip:</b>	--
<b>Phone:</b>	7143811280
--	--

<a href="#">1</a>	8 of 10	-	0.00 / 0.00	1,156.07 / 0	SBCUSD/SAN BERNARDINO HIGH SCHOOL 1850 NORTH E ST SAN BERNARDINO CA 924050000	HAZNET
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<b>SIC Code:</b>	8211	<b>Mailing City:</b>	SAN BERNARDINO
<b>NAICS Code:</b>	61111	<b>Mailing State:</b>	CA
<b>EPA ID:</b>	CAL000003753	<b>Mailing Zip:</b>	924103017
<b>Create Date:</b>	11/14/1989	<b>Region Code:</b>	4
<b>Fac Act Ind:</b>	Yes	<b>Owner Name:</b>	SAN BERNARDINO CITY USD
<b>Inact Date:</b>		<b>Owner Addr 1:</b>	777 N F ST
<b>County Code:</b>	36	<b>Owner Addr 2:</b>	
<b>County Name:</b>	San Bernardino	<b>Owner City:</b>	SAN BERNARDINO

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
<b>Mail Name:</b>	SAFETY OFFICER			<b>Owner State:</b>	CA	
<b>Mailing Addr 1:</b>	777 N F ST			<b>Owner Zip:</b>	924103017	
<b>Mailing Addr 2:</b>				<b>Owner Phone:</b>	9093811193	
<b>Owner Fax:</b>	0000000000					
<b>Contact Information</b>						
--	--					
<b>Contact Name:</b>	ERIC VETERE					
<b>Street Address 1:</b>	777 NORTH F STREET					
<b>Street Address 2:</b>	SAFETY/EMERGENCY MANAGEMENT					
<b>City:</b>	SAN BERNARDINO					
<b>State:</b>	CA					
<b>Zip:</b>	92410					
<b>Phone:</b>	9093811193					
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<b>Tanner Information</b>						
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<b>Generator EPA ID:</b>	CAL000003753					
<b>Generator County Code:</b>	36					
<b>Generator County:</b>	San Bernardino					
<b>TSD EPA ID:</b>	AZC950823111					
<b>TSD County Code:</b>	99					
<b>TSD County:</b>	Unknown					
<b>State Waste Code:</b>	151					
<b>State Waste Code Desc.:</b>	Asbestos containing waste					
<b>Method Code:</b>	H132					
<b>Method Description:</b>	LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)					
<b>Tons:</b>	160					
<b>Year:</b>	2012					
--	--					
<b>Generator EPA ID:</b>	CAL000003753					
<b>Generator County Code:</b>	36					
<b>Generator County:</b>	San Bernardino					
<b>TSD EPA ID:</b>	CAD009007626					
<b>TSD County Code:</b>	19					
<b>TSD County:</b>	Los Angeles					
<b>State Waste Code:</b>	151					
<b>State Waste Code Desc.:</b>	Asbestos containing waste					
<b>Method Code:</b>	H132					
<b>Method Description:</b>	LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)					
<b>Tons:</b>	128					
<b>Year:</b>	2012					
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<b>Generator EPA ID:</b>	CAL000003753					
<b>Generator County Code:</b>	36					
<b>Generator County:</b>	San Bernardino					
<b>TSD EPA ID:</b>	AZC950823111					
<b>TSD County Code:</b>	99					
<b>TSD County:</b>	Unknown					
<b>State Waste Code:</b>	151					
<b>State Waste Code Desc.:</b>	Asbestos containing waste					
<b>Method Code:</b>	H132					
<b>Method Description:</b>	LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)					
<b>Tons:</b>	0.8					
<b>Year:</b>	2013					
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<b>Generator EPA ID:</b>	CAL000003753					
<b>Generator County Code:</b>	36					
<b>Generator County:</b>	San Bernardino					
<b>TSD EPA ID:</b>	CAD982444481					
<b>TSD County Code:</b>	36					
<b>TSD County:</b>	San Bernardino					
<b>State Waste Code:</b>	221					
<b>State Waste Code Desc.:</b>	Waste oil and mixed oil					
<b>Method Code:</b>	H141					



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.095				
<b>Year:</b>		2013				
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<b>Generator EPA ID:</b>		CAL000003753				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		352				
<b>State Waste Code Desc.:</b>		Other organic solids				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.075				
<b>Year:</b>		2013				
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<b>Generator EPA ID:</b>		CAL000003753				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		221				
<b>State Waste Code Desc.:</b>		Waste oil and mixed oil				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.095				
<b>Year:</b>		2015				
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<b>Generator EPA ID:</b>		CAL000003753				
<b>Generator County Code:</b>		36				
<b>Generator County:</b>		San Bernardino				
<b>TSD EPA ID:</b>		CAD982444481				
<b>TSD County Code:</b>		36				
<b>TSD County:</b>		San Bernardino				
<b>State Waste Code:</b>		223				
<b>State Waste Code Desc.:</b>		Unspecified oil-containing waste				
<b>Method Code:</b>		H141				
<b>Method Description:</b>		STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)				
<b>Tons:</b>		0.1251				
<b>Year:</b>		2015				
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<u>1</u>	9 of 10	-	0.00 / 0.00	1,156.07 / 0	SAN BERNARDINO HIGH SCHOOL 1850 NORTH E STREET SAN BERNARDINO CA 924050000	HAZNET
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<b>SIC Code:</b>		<b>Mailing City:</b>	SAN BERNARDINO
<b>NAICS Code:</b>		<b>Mailing State:</b>	CA
<b>EPA ID:</b>	CAL913375799	<b>Mailing Zip:</b>	924053918
<b>Create Date:</b>	12/3/1991	<b>Region Code:</b>	4
<b>Fac Act Ind:</b>	No	<b>Owner Name:</b>	SAN BERNARDINO USD
<b>Inact Date:</b>	6/30/1998	<b>Owner Addr 1:</b>	777 NORTH F STREET
<b>County Code:</b>	36	<b>Owner Addr 2:</b>	
<b>County Name:</b>	San Bernardino	<b>Owner City:</b>	SAN BERNARDINO
<b>Mail Name:</b>		<b>Owner State:</b>	CA
<b>Mailing Addr 1:</b>	1850 N E ST	<b>Owner Zip:</b>	924100000
<b>Mailing Addr 2:</b>		<b>Owner Phone:</b>	7143811127
<b>Owner Fax:</b>			

**Contact Information**

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<b>Contact Name:</b>	--

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Street Address 1:		INACT PER 98VQ FINAL NOTICE				
Street Address 2:		- BATCH 4/27				
City:		--				
State:		99				
Zip:		--				
Phone:		--				
--		--				

<a href="#"><u>2</u></a>	1 of 3	SSE	0.05 / 265.81	1,152.74 / -3	Norton Air Force Base - Norton A F B Bldg 226 106TH ST SAN BERNARDINO CA 92409	CLEANUP SITES
Global ID:	T0607100171		CUF Case:		NO	
Case Type:	Military UST Site		Begin Date:		1989-06-29 00:00:00	
Status:	Completed - Case Closed		How Discovered:		Tank Closure	
Status Date:	1991-02-07 00:00:00		Stop Method:			
RB Case No:	083601414T		County:		San Bernardino	
LOC Case No:	0		Latitude:		34.1320986	
Lead Agency:	SANTA ANA RWQCB (REGION 8)		Longitude:		-117.2952347	
Case Worker:	PAH		File Location:			
Local Agency:	SAN BERNARDINO COUNTY					
Potential Cntm of Concrn:	Heating Oil / Fuel Oil					
Potential Media Affected:	Soil					
How Discovered Description:						
Stop Description:						
Cal Water Watershed Name:	Santa Ana River - Upper Santa Ana River - Bunker Hill (801.52)					
DWR Groundwater Subbasin Name:	Upper Santa Ana Valley - Bunker Hill (8-2.06)					
Site History:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Status:	Completed - Case Closed			Status Date:	1991-02-07 00:00:00	
Status:	Open - Case Begin Date			Status Date:	1989-06-29 00:00:00	
<u>Activities</u>						
Action Type:	ENFORCEMENT					
Action:	Technical Correspondence / Assistance / Other					
Date:	2000-05-08 00:00:00					
Action Type:	ENFORCEMENT					
Action:	Technical Correspondence / Assistance / Other					
Date:	2000-06-25 00:00:00					
Action Type:	ENFORCEMENT					
Action:	Technical Correspondence / Assistance / Other					
Date:	2013-05-07 00:00:00					
Action Type:	Other					
Action:	Leak Reported					
Date:	1990-06-15 00:00:00					
Action Type:	Other					
Action:	Leak Discovery					
Date:	1990-06-15 00:00:00					
Action Type:	Other					
Action:	Leak Stopped					
Date:	1990-06-15 00:00:00					
<u>Contacts</u>						
Contact Type:	Local Agency Caseworker			City:	SAN BERNARDINO	
Contact Name:	CATHERINE RICHARDS			Email:	crichards@sbcfire.org	
Organization Name:	SAN BERNARDINO COUNTY			Phone No:	9093868419	
Address:	620 SOUTH E STREET					
Contact Type:	Regional Board Caseworker			City:	RIVERSIDE	
Contact Name:	PATRICIA HANNON			Email:	phannon@waterboards.ca.gov	
Organization Name:	SANTA ANA RWQCB (REGION 8)			Phone No:		
Address:	3737 MAIN STREET, SUITE 500					

<u>2</u>	2 of 3	SSE	0.05 / 265.81	1,152.74 / -3	Norton Air Force Base - Norton A F B Bldg 169 2ND PL SAN BERNARDINO CA 92409	CLEANUP SITES
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<b>Global ID:</b>	T0607100351	<b>CUF Case:</b>	NO
<b>Case Type:</b>	Military UST Site	<b>Begin Date:</b>	1989-06-29 00:00:00
<b>Status:</b>	Completed - Case Closed	<b>How Discovered:</b>	Tank Closure
<b>Status Date:</b>	1991-02-07 00:00:00	<b>Stop Method:</b>	
<b>RB Case No:</b>	083602584T	<b>County:</b>	San Bernardino
<b>LOC Case No:</b>	0	<b>Latitude:</b>	34.1320986
<b>Lead Agency:</b>	SANTA ANA RWQCB (REGION 8)	<b>Longitude:</b>	-117.2952347
<b>Case Worker:</b>	PAH	<b>File Location:</b>	
<b>Local Agency:</b>	SAN BERNARDINO COUNTY		
<b>Potential Cntm of Concrn:</b>	Waste Oil / Motor / Hydraulic / Lubricating		
<b>Potential Media Affected:</b>	Soil		
<b>How Discovered Description:</b>			
<b>Stop Description:</b>			
<b>Cal Water Watershed Name:</b>	Santa Ana River - Upper Santa Ana River - Bunker Hill (801.52)		
<b>DWR Groundwater Subbasin Name:</b>	Upper Santa Ana Valley - Bunker Hill (8-2.06)		
<b>Site History:</b>			

THREE 10,000 GAL GASOLINE TANKS (INSTALLED 1962 & 1971, REMOVED 6/90), ONE 550 GAL WASTE OIL (INSTALLED 1962, REMOVED



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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6/90).FORMER SERVICE STATION, CONTAINED 2 FUELING ISLANDS

### Status History

Status:	Completed - Case Closed	Status Date:	1991-02-07 00:00:00
Status:	Open - Case Begin Date	Status Date:	1989-06-29 00:00:00

### Activities

Action Type:	ENFORCEMENT
Action:	Technical Correspondence / Assistance / Other
Date:	2000-06-25 00:00:00
Action Type:	Other
Action:	Leak Reported
Date:	1990-06-15 00:00:00
Action Type:	ENFORCEMENT
Action:	Technical Correspondence / Assistance / Other
Date:	2013-05-07 00:00:00
Action Type:	ENFORCEMENT
Action:	Technical Correspondence / Assistance / Other
Date:	2000-05-08 00:00:00
Action Type:	Other
Action:	Leak Discovery
Date:	1990-06-15 00:00:00
Action Type:	Other
Action:	Leak Stopped
Date:	1990-06-15 00:00:00

### Contacts

Contact Type:	Regional Board Caseworker	City:	RIVERSIDE
Contact Name:	PATRICIA HANNON	Email:	phannon@waterboards.ca.gov
Organization Name:	SANTA ANA RWQCB (REGION 8)	Phone No:	
Address:	3737 MAIN STREET, SUITE 500		
Contact Type:	Local Agency Caseworker	City:	SAN BERNARDINO
Contact Name:	CATHERINE RICHARDS	Email:	crichards@sbcfire.org
Organization Name:	SAN BERNARDINO COUNTY	Phone No:	9093868419
Address:	620 SOUTH E STREET		

<a href="#">2</a>	3 of 3	SSE	0.05 / 265.81	1,152.74 / -3	Norton Air Force Base - Norton A F B Bldg 762 LELAND NORTON WAY (7TH) SAN BERNARDINO CA 92409	CLEANUP SITES
Global ID:	T0607100359	CUF Case:	NO			
Case Type:	Military UST Site	Begin Date:	1989-06-29 00:00:00			
Status:	Completed - Case Closed	How Discovered:	Tank Closure			
Status Date:	1995-07-24 00:00:00	Stop Method:				
RB Case No:	083602595T	County:	San Bernardino			
LOC Case No:	0	Latitude:	34.1320986			
Lead Agency:	SANTA ANA RWQCB (REGION 8)	Longitude:	-117.2952347			
Case Worker:	PAH	File Location:				
Local Agency:	SAN BERNARDINO COUNTY					
Potential Cntm of Concrn:	Heating Oil / Fuel Oil					
Potential Media Affected:	Soil					
How Discovered Description:						
Stop Description:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Cal Water Watershed Name:	Santa Ana River - Upper Santa Ana River - Bunker Hill (801.52)
DWR Groundwater Subbasin Name:	Upper Santa Ana Valley - Bunker Hill (8-2.06)
Site History:	

### Status History

Status:	Completed - Case Closed	Status Date:	1995-07-24 00:00:00
Status:	Open - Case Begin Date	Status Date:	1989-06-29 00:00:00

### Activities

Action Type:	Other
Action:	Leak Discovery
Date:	1991-11-15 00:00:00
Action Type:	ENFORCEMENT
Action:	Technical Correspondence / Assistance / Other
Date:	2000-06-25 00:00:00
Action Type:	ENFORCEMENT
Action:	Technical Correspondence / Assistance / Other
Date:	2000-05-08 00:00:00
Action Type:	ENFORCEMENT
Action:	Technical Correspondence / Assistance / Other
Date:	2013-05-07 00:00:00
Action Type:	Other
Action:	Leak Reported
Date:	1991-11-15 00:00:00
Action Type:	Other
Action:	Leak Stopped
Date:	1991-11-15 00:00:00

### Contacts

Contact Type:	Local Agency Caseworker	City:	SAN BERNARDINO
Contact Name:	CATHERINE RICHARDS	Email:	crichards@sbcfire.org
Organization Name:	SAN BERNARDINO COUNTY	Phone No:	9093868419
Address:	620 SOUTH E STREET		
Contact Type:	Regional Board Caseworker	City:	RIVERSIDE
Contact Name:	PATRICIA HANNON	Email:	phannon@waterboards.ca.gov
Organization Name:	SANTA ANA RWQCB (REGION 8)	Phone No:	
Address:	3737 MAIN STREET, SUITE 500		

<a href="#">3</a>	1 of 1	NE	0.09 / 496.60	1,159.73 / 4	SAN BERNARDINO SMOG TUNE & LUBE 1984 N E ST SAN BERNARDINO CA 92405	SANBERN CUPA
Facility ID:	FA0010439					
Owner Info:	ABDO BAJIS					
Mailing Care of:	BAJIS ABDO					

### --Details--

Status:	INACTIVE
Permit ID:	PT0017914
Permit Desc:	SPECIAL GENERATOR
Program Element Code:	4420

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
To:		8/31/2006				
Status:		INACTIVE				
Permit ID:		PT0017913				
Permit Desc:		SPECIAL HANDLER				
Program Element Code:		4210				
To:		8/31/2006				
<hr/>						
<a href="#">4</a>	1 of 3	SE	0.14 / 725.87	1,148.10 / -8	NORM'S UNION AUTO SERVICE 1799 N E ST SAN BERNARDINO CA 92405	SANBERN CUPA
Facility ID:		FA0004994				
Owner Info:		NORM'S UNION AUTO SERVICE				
Mailing Care of:						
<hr/>						
--Details--						
Status:		INACTIVE				
Permit ID:		PT0003249				
Permit Desc:		SPECIAL HANDLER				
Program Element Code:		4210				
To:		7/31/2003				
Status:		INACTIVE				
Permit ID:		PT0003250				
Permit Desc:		SPECIAL GENERATOR				
Program Element Code:		4420				
To:		7/31/2003				
<hr/>						
<a href="#">4</a>	2 of 3	SE	0.14 / 725.87	1,148.10 / -8	BARRY HENRY'S AUTOMOTIVE 1799 N E ST SAN BERNARDINO CA 92405	SANBERN CUPA
Facility ID:		FA0007660				
Owner Info:		HENRY, BARRY				
Mailing Care of:						
<hr/>						
--Details--						
Status:		INACTIVE				
Permit ID:		PT0013790				
Permit Desc:		HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)				
Program Element Code:		4202				
To:		2/28/2007				
Status:		INACTIVE				
Permit ID:		PT0013174				
Permit Desc:		CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR				
Program Element Code:		4430				
To:		2/28/2007				
<hr/>						
<a href="#">4</a>	3 of 3	SE	0.14 / 725.87	1,148.10 / -8	DE LEON AUTO CENTER 1799 N E ST SAN BERNARDINO CA 92405	SANBERN CUPA
Facility ID:		FA0010902				
Owner Info:		DE LEON, BENIGNO				
Mailing Care of:		BENIGNO DE LEON				
<hr/>						
--Details--						
Status:		INACTIVE				



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Permit ID:</b> <b>Permit Desc:</b> <b>Program Element Code:</b> <b>To:</b>		PT0018783 SPECIAL GENERATOR 4420 4/30/2009				
<b>Status:</b> <b>Permit ID:</b> <b>Permit Desc:</b> <b>Program Element Code:</b> <b>To:</b>		INACTIVE PT0018784 SPECIAL HANDLER 4210 4/30/2009				

<a href="#">5</a>	1 of 6	ESE	0.20 / 1,039.44	1,153.70 / -2	CAMP ONO PLUME (TCE, PCE Contamination study)	CLEANUP SITES
SAN BERNARDINO CA						
Global ID:	SLT8R0383923			CUF Case:	NO	
Case Type:	Cleanup Program Site			Begin Date:		
Status:	Open - Remediation			How Discovered:	* RBD	
Status Date:	1984-10-30 00:00:00			Stop Method:		
RB Case No:	SLT8R038			County:	San Bernardino	
LOC Case No:				Latitude:	34.1320682874639	
Lead Agency:	US ENVIRONMENTAL PROTECTION AGENCY			Longitude:	-117.292182051877	
Case Worker:				File Location:	Regional Board	
Local Agency:						
Potential Cntm of Concrn:						
Potential Media Affected:						
How Discovered Description:						
Stop Description:						
Cal Water Watershed Name:	Santa Ana River - Upper Santa Ana River - Bunker Hill (801.52)					
DWR Groundwater Subbasin Name:	Upper Santa Ana Valley - Bunker Hill (8-2.06)					
Site History:						

Information on this Site is under subject file (TCE, PCE Contamination study, San Bernardino).

#### Status History

<b>Status:</b>	Open - Remediation	<b>Status Date:</b>	1984-10-30 00:00:00
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#### Activities

<b>Action Type:</b>	Other
<b>Action:</b>	Leak Reported
<b>Date:</b>	1965-01-02 00:00:00

#### Contacts

<b>Contact Type:</b>	Regional Board Caseworker	<b>City:</b>	RIVERSIDE
<b>Contact Name:</b>	KAMRON SAREMI	<b>Email:</b>	ksaremi@waterboards.ca.gov
<b>Organization Name:</b>	SANTA ANA RWQCB (REGION 8)	<b>Phone No:</b>	9517824303
<b>Address:</b>	3737 MAIN STREET, SUITE 500		

<a href="#">5</a>	2 of 6	ESE	0.20 / 1,039.44	1,153.70 / -2	U.S. ARMY TRAINING CENTER 296 03RD STREET E SAN BERNARDINO CA	CLEANUP SITES
<b>Global ID:</b>		SLT8R2004059		<b>CUF Case:</b>		NO
<b>Case Type:</b>		Military Cleanup Site		<b>Begin Date:</b>		
<b>Status:</b>		Completed - Case Closed		<b>How Discovered:</b>		
<b>Status Date:</b>		1999-06-28 00:00:00		<b>Stop Method:</b>		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>RB Case No:</b>	SLT8R200			<b>County:</b>	San Bernardino	
<b>LOC Case No:</b>				<b>Latitude:</b>	34.1320682874639	
<b>Lead Agency:</b>	SANTA ANA RWQCB (REGION 8)			<b>Longitude:</b>	-117.292182051877	
<b>Case Worker:</b>				<b>File Location:</b>	Regional Board	
<b>Local Agency:</b>						
<b>Potential Cntm of Concrn:</b>						
<b>Potential Media Affected:</b>						
<b>How Discovered Description:</b>						
<b>Stop Description:</b>						
<b>Cal Water Watershed Name:</b>	Santa Ana River - Upper Santa Ana River - Bunker Hill (801.52)					
<b>DWR Groundwater Subbasin Name:</b>	Upper Santa Ana Valley - Bunker Hill (8-2.06)					
<b>Site History:</b>						

#### Status History

<b>Status:</b>	Open - Remediation	<b>Status Date:</b>	1996-09-30 00:00:00
<b>Status:</b>	Completed - Case Closed	<b>Status Date:</b>	1999-06-28 00:00:00

#### Activities

<b>Action Type:</b>	ENFORCEMENT
<b>Action:</b>	Closure/No Further Action Letter
<b>Date:</b>	1999-06-28 00:00:00

<b>5</b>	<b>3 of 6</b>	<b>ESE</b>	<b>0.20 / 1,039.44</b>	<b>1,153.70 / -2</b>	<b>CALNEV PIPELINE COMPANY CAJON CREEK SAN BERNARDINO CA</b>	<b>CLEANUP SITES</b>
<b>Global ID:</b>	SLT8R0543938			<b>CUF Case:</b>	NO	
<b>Case Type:</b>	Cleanup Program Site			<b>Begin Date:</b>		
<b>Status:</b>	Completed - Case Closed			<b>How Discovered:</b>	* RBD	
<b>Status Date:</b>	2000-12-20 00:00:00			<b>Stop Method:</b>		
<b>RB Case No:</b>	SLT8R054			<b>County:</b>	San Bernardino	
<b>LOC Case No:</b>				<b>Latitude:</b>	34.1320682874639	
<b>Lead Agency:</b>	SANTA ANA RWQCB (REGION 8)			<b>Longitude:</b>	-117.292182051877	
<b>Case Worker:</b>	KS			<b>File Location:</b>		
<b>Local Agency:</b>						
<b>Potential Cntm of Concrn:</b>						
<b>Potential Media Affected:</b>						
<b>How Discovered Description:</b>						
<b>Stop Description:</b>						
<b>Cal Water Watershed Name:</b>	Santa Ana River - Upper Santa Ana River - Bunker Hill (801.52)					
<b>DWR Groundwater Subbasin Name:</b>	Upper Santa Ana Valley - Bunker Hill (8-2.06)					
<b>Site History:</b>						

#### Status History

<b>Status:</b>	Completed - Case Closed	<b>Status Date:</b>	1986-07-16 00:00:00
<b>Status:</b>	Completed - Case Closed	<b>Status Date:</b>	2000-12-20 00:00:00

#### Activities

<b>Action Type:</b>	Other
<b>Action:</b>	Leak Reported
<b>Date:</b>	1965-01-02 00:00:00
<b>Action Type:</b>	ENFORCEMENT
<b>Action:</b>	Closure/No Further Action Letter

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Date: 2000-12-20 00:00:00

#### Contacts

<b>Contact Type:</b>	Regional Board Caseworker	<b>City:</b>	RIVERSIDE
<b>Contact Name:</b>	KAMRON SAREMI	<b>Email:</b>	ksaremi@waterboards.ca.gov
<b>Organization Name:</b>	SANTA ANA RWQCB (REGION 8)	<b>Phone No:</b>	9517824303
<b>Address:</b>	3737 MAIN STREET, SUITE 500		

<u>5</u>	4 of 6	ESE	0.20 / 1,039.44	1,153.70 / -2	SOUTHERN PACIFIC RAIL YARD NA MILL STREET SAN BERNARDINO CA	CLEANUP SITES
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<b>Global ID:</b>	SLT8R1844173	<b>CUF Case:</b>	NO
<b>Case Type:</b>	Cleanup Program Site	<b>Begin Date:</b>	
<b>Status:</b>	Completed - Case Closed	<b>How Discovered:</b>	
<b>Status Date:</b>	1995-09-30 00:00:00	<b>Stop Method:</b>	
<b>RB Case No:</b>	SLT8R184	<b>County:</b>	San Bernardino
<b>LOC Case No:</b>		<b>Latitude:</b>	34.1320682874639
<b>Lead Agency:</b>	SANTA ANA RWQCB (REGION 8)	<b>Longitude:</b>	-117.292182051877
<b>Case Worker:</b>		<b>File Location:</b>	
<b>Local Agency:</b>			
<b>Potential Cntm of Concrn:</b>			
<b>Potential Media Affected:</b>			
<b>How Discovered Description:</b>			
<b>Stop Description:</b>			
<b>Cal Water Watershed Name:</b>	Santa Ana River - Upper Santa Ana River - Bunker Hill (801.52)		
<b>DWR Groundwater Subbasin Name:</b>	Upper Santa Ana Valley - Bunker Hill (8-2.06)		
<b>Site History:</b>			

Site was closed in late September 1995 after excavation and soil treatment. No site closure letter is available in the site file or the SB County or City records.

#### Status History

<b>Status:</b>	Completed - Case Closed	<b>Status Date:</b>	1995-09-30 00:00:00
<b>Status:</b>	Open - Inactive	<b>Status Date:</b>	1995-09-19 00:00:00

<u>5</u>	5 of 6	ESE	0.20 / 1,039.44	1,153.70 / -2	NORTH SAN BERNARDINO PLUME	CLEANUP SITES
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SAN BERNARDINO CA

<b>Global ID:</b>	SLT8R0393924	<b>CUF Case:</b>	NO
<b>Case Type:</b>	Cleanup Program Site	<b>Begin Date:</b>	
<b>Status:</b>	Open - Site Assessment	<b>How Discovered:</b>	* RBD
<b>Status Date:</b>	1965-01-01 00:00:00	<b>Stop Method:</b>	
<b>RB Case No:</b>	SLT8R039	<b>County:</b>	San Bernardino
<b>LOC Case No:</b>		<b>Latitude:</b>	34.1320682874639
<b>Lead Agency:</b>	US ENVIRONMENTAL PROTECTION AGENCY	<b>Longitude:</b>	-117.292182051877
<b>Case Worker:</b>		<b>File Location:</b>	
<b>Local Agency:</b>			
<b>Potential Cntm of Concrn:</b>			
<b>Potential Media Affected:</b>			
<b>How Discovered Description:</b>			
<b>Stop Description:</b>			
<b>Cal Water Watershed Name:</b>	Santa Ana River - Upper Santa Ana River - Bunker Hill (801.52)		
<b>DWR Groundwater Subbasin Name:</b>	Upper Santa Ana Valley - Bunker Hill (8-2.06)		
<b>Site History:</b>			



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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#### Activities

**Action Type:** RESPONSE  
**Action:** Other Report / Document  
**Date:** 2011-05-31 00:00:00

**Action Type:** Other  
**Action:** Leak Reported  
**Date:** 1965-01-02 00:00:00

#### Contacts

<b>Contact Type:</b>	Regional Board Caseworker	<b>City:</b>	RIVERSIDE
<b>Contact Name:</b>	KAMRON SAREMI	<b>Email:</b>	ksaremi@waterboards.ca.gov
<b>Organization Name:</b>	SANTA ANA RWQCB (REGION 8)	<b>Phone No:</b>	9517824303
<b>Address:</b>	3737 MAIN STREET, SUITE 500		

<a href="#">5</a>	6 of 6	ESE	0.20 / 1,039.44	1,153.70 / -2	SALTER COMPANY (NORTON AFB) N/A MILL STREET SAN BERNARDINO CA	CLEANUP SITES
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<b>Global ID:</b>	SLT8R1744169	<b>CUF Case:</b>	NO
<b>Case Type:</b>	Cleanup Program Site	<b>Begin Date:</b>	
<b>Status:</b>	Open - Inactive	<b>How Discovered:</b>	
<b>Status Date:</b>	2010-05-12 00:00:00	<b>Stop Method:</b>	
<b>RB Case No:</b>		<b>County:</b>	San Bernardino
<b>LOC Case No:</b>	36970004	<b>Latitude:</b>	34.1320682874639
<b>Lead Agency:</b>	DEPARTMENT OF TOXIC SUBSTANCES CONTROL	<b>Longitude:</b>	-117.292182051877
<b>Case Worker:</b>		<b>File Location:</b>	DTSC
<b>Local Agency:</b>			
<b>Potential Cntm of Concrn:</b>			
<b>Potential Media Affected:</b>	Other Groundwater (uses other than drinking water), Soil		
<b>How Discovered Description:</b>			
<b>Stop Description:</b>			
<b>Cal Water Watershed Name:</b>	Santa Ana River - Upper Santa Ana River - Bunker Hill (801.52)		
<b>DWR Groundwater Subbasin Name:</b>	Upper Santa Ana Valley - Bunker Hill (8-2.06)		
<b>Site History:</b>			

for information go to DTSC website [www.envirostor.dtsc.ca.gov](http://www.envirostor.dtsc.ca.gov)

#### Status History

<b>Status:</b>	Open - Inactive	<b>Status Date:</b>	2010-05-12 00:00:00
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#### Contacts

<b>Contact Type:</b>	Regional Board Caseworker	<b>City:</b>	RIVERSIDE
<b>Contact Name:</b>	PATRICIA HANNON	<b>Email:</b>	phannon@waterboards.ca.gov
<b>Organization Name:</b>	SANTA ANA RWQCB (REGION 8)	<b>Phone No:</b>	
<b>Address:</b>	3737 MAIN STREET, SUITE 500		

<a href="#">6</a>	1 of 1	N	0.21 / 1,119.57	1,170.99 / 15	JIFFY LUBE #1066 567 W HIGHLAND AVE SAN BERNARDINO CA 92405	UST
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<b>Facility ID:</b>	FA0017027	<b>Latitude:</b>	34.13587
<b>Permitting Agency:</b>	San Bernardino County Fire Department	<b>Longitude:</b>	-117.29562
<b>County:</b>	San Bernardino		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<a href="#">7</a>	1 of 1	NE	0.21 / 1,130.81	1,167.25 / 11	COMMUNITY ACTION PARTNERSHIP 440 W 21ST STREET SAN BERNARDINO CA 92405	RCRA SQG

**EPA Handler ID:** CAR000159137  
**Land Type Code:** P  
**Land Type Desc:** Private  
**Federal Waste Generator Code:** 2  
**Gen Status Univ:** SQG  
**Gen Status Univ Desc:** Small Quantity Generator  
**Importer Activity:** No  
**Mixed Waste Generator:** No  
**Transporter Activity:** No  
**Transfer Facility:** No  
**Recycler Activity:** No  
**Onsite Burner Exemption:** No  
**Furnace Exemption:** No  
**Underground Inject Activity:** No  
**Receives Waste from Offsite:** No  
**TSD Type:** -----  
**TSD Activity:** No  
**Corrective Action Univ:** No  
**Action has been Imposed:** No  
**Action under 3004 (U)(V):** No  
**Institutional Control Indicator:** N  
**Used Oil Transporter:**  
**Used Oil Transfer Facility:**  
**Used Oil Processor:**  
**Used Oil Refiner:**  
**Used Oil Burner:**  
**Used Oil Market Burner:**  
**Used Oil Spec Marketer:**  
**Activity Location:** CA  
**County Code:** CA071  
**County Name:** SAN BERNARDINO  
**Contact Name:** HARLEY GREEN  
**Contact Phone No and Exten:** 909-891-9122  
**Contact Email:**  
**Contact Address:** 39470 CHERRY OAK , CHERRY VALLEY , CA, 92223 , US  
**Mailing Address:** 39470 CHERRY OAK , CHERRY VALLEY , CA, 92223 , US

#### Violation/Evaluation Summary

**Note:** As of Jan 24 2018, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

#### Handler Details

<b>Source Type:</b>	N	<b>Used Oil Transporter:</b>	No
<b>Receive Date:</b>	20041213	<b>UO Transfer Fac:</b>	No
<b>Non Notifier:</b>		<b>Used Oil Processor:</b>	No
<b>Acknowledge Flag:</b>		<b>Used Oil Refiner:</b>	No
<b>Acknowledge Date:</b>		<b>Used Oil Burner:</b>	No
<b>Accessibility:</b>		<b>UO Market Burner:</b>	No
<b>Land Type:</b>	P	<b>UO Spec Marketer:</b>	No
<b>Fed Waste Gen Own:</b>	HQ	<b>Current Site Name:</b>	COMMUNITY ACTION PARTNERSHIP
<b>Fed Waste Gen Cd:</b>	2	<b>Location Street No:</b>	
<b>Fed Waste Gen Desc:</b>	Small Quantity Generator	<b>Location Street 1:</b>	440 W 21ST STREET
<b>ST Waste Gen Own:</b>	CA	<b>Location Street 2:</b>	
<b>State Waste Gen Cd:</b>	2	<b>Location City:</b>	SAN BERNARDINO
<b>Short Term Gen:</b>	No	<b>Location State:</b>	CA
<b>Importer Activity:</b>	No	<b>Location Zip Code:</b>	92405
<b>Mixed Waste Gen:</b>	No	<b>County Code:</b>	CA071

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Transporter:	No				State District:	
Transfer Facility:	No				Mailing Street No:	
TSD Activity:	No				Mailing Street 1:	39470 CHERRY OAK
Recycler Activity:	No				Mailing Street 2:	
Onsite Burn Exempt:	No				Mailing City:	CHERRY VALLEY
Furnace Exemption:	No				Mailing State:	CA
Underground Inject:	No				Mailing Zip Code:	92223
Off Site Receipt:	No				Mailing Country:	US
Waste Dest Fac:	No				Contact First Name:	HARLEY
Subpart K College:					Contact Middle Initial:	
Subpart K Hospital:					Contact Last Name:	GREEN
Subpart K Non Profit:					Contact Street No:	
Subpart K Withdraw:					Contact Street 1:	39470 CHERRY OAK
Include Ntnl Rprt:					Contact Street 2:	
Reporting Cycle:					Contact City:	CHERRY VALLEY
LQHUUW:	No				Contact State:	CA
Trader Importer:					Contact Zip:	92223
Trader Exporter:					Contact Country:	US
Slab Importer:					Contact Phone:	909-891-9122
Slab Exporter:					Contact Phone Ext:	
Current Record:	Yes				Contact Fax:	
Location Country:	US				Contact Email Addr:	
State District Owner:					Contact Title:	

#### Hazardous Waste Details

Haz Waste Cd Owner:	HQ	Source Type:	N
Haz Waste Cd:	D008	Code Type:	D
BR Waste Code Active Status:	Yes		
Waste Code Active Status:	Yes		
Waste Code Desc:	LEAD		

#### NAICS Details

Source Type:	N	NAICS Active Status:	Yes
NAICS Cd Owner:	HQ	NAICS Cycle:	2002
NAICS Code:	56291		
NAICS Description:	REMEDATION SERVICES		

#### Owner/Operator Details

Owner/Operator Ind:	CP	Country:	US
Name:	COMMUNITY ACTION PARTNERSHIP	Zip Code:	
Street No:		Phone:	
Street 1:		Type:	P
Street 2:		Date Became Current:	20041001
City:		Date Ended Current:	
State:			
Source Type:	N		
Owner/Operator Ind:	CO	Country:	US
Name:	PAUL WILSON AND HEHAB ELEWAR	Zip Code:	
Street No:		Phone:	
Street 1:		Type:	P
Street 2:		Date Became Current:	20040305
City:		Date Ended Current:	
State:			
Source Type:	N		

8 1 of 5 N 0.22 / 1,171.12 / 1,154.23 15 JIFFY LUBE #1066 567 W. HIGHLAND AVE SAN BERNARDINO CA 92405 AST

Total Capacity(Gal):	1,400	Owner Name:	MANSURI, TOM
CUPA:	San Bernardino	County:	San Bernardino



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<a href="#">8</a>	2 of 5	N	0.22 / 1,154.23	1,171.12 / 15	JIFFY LUBE #1066 567 W HIGHLAND AVE SAN BERNARDINO CA 92405	SANBERN CUPA
Facility ID:		FA0004127				
Owner Info:		MANSURI, TOM				
Mailing Care of:						
--Details--						
Status:		INACTIVE				
Permit ID:		PT0036239				
Permit Desc:		SMALL QUANTITY GENERATOR				
Program Element Code:		4453				
To:		9/30/2017				
Status:		INACTIVE				
Permit ID:		PT0006288				
Permit Desc:		SMALL QUANTITY GENERATOR				
Program Element Code:		4453				
To:		9/30/2012				
Status:		INACTIVE				
Permit ID:		PT0036240				
Permit Desc:		HAZARDOUS MATERIALS 1-3 CHEMICALS				
Program Element Code:		4242				
To:		9/30/2017				
Status:		INACTIVE				
Permit ID:		PT0006289				
Permit Desc:		HAZARDOUS MATERIALS 1-3 CHEMICALS				
Program Element Code:		4242				
To:		9/30/2012				
Status:		INACTIVE				
Permit ID:		PT0036241				
Permit Desc:		APSA 1,320-10,000 GAL FAC CAPACITY				
Program Element Code:		4031				
To:		9/30/2017				
Status:		INACTIVE				
Permit ID:		PT0015021				
Permit Desc:		APSA 1,320-10,000 GAL FAC CAPACITY				
Program Element Code:		4031				
To:		9/30/2012				

<a href="#">8</a>	3 of 5	N	0.22 / 1,154.23	1,171.12 / 15	CASTROL PREMIUM LUBE EXPRESS 567 W HIGHLAND AVE SAN BERNARDINO CA 92405	SANBERN CUPA
Facility ID:		FA0015728				
Owner Info:		ATTALAH, FRED				
Mailing Care of:						
<u>--Details--</u>						
Status:		INACTIVE				
Permit ID:		PT0034326				
Permit Desc:		CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL				
Program Element Code:		4451				
To:		1/31/2016				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<a href="#">8</a>	4 of 5	N	0.22 / 1,154.23	1,171.12 / 15	JIFFY LUBE #1066 567 W HIGHLAND AVE SAN BERNARDINO CA 92406	SANBERN CUPA
Facility ID:		FA0017027				
Owner Info:		MANSURI, TOM				
Mailing Care of:						
--Details--						
Status:		ACTIVE				
Permit ID:		PT0036376				
Permit Desc:		APSA 1,320-10,000 GAL FAC CAPACITY				
Program Element Code:		4031				
To:		9/30/2017				
Status:		ACTIVE				
Permit ID:		PT0036375				
Permit Desc:		HAZARDOUS MATERIALS 1-3 CHEMICALS				
Program Element Code:		4242				
To:		9/30/2017				
Status:		ACTIVE				
Permit ID:		PT0036374				
Permit Desc:		SMALL QUANTITY GENERATOR				
Program Element Code:		4453				
To:		9/30/2017				

<a href="#">8</a>	5 of 5	N	0.22 / 1,154.23	1,171.12 / 15	JIFFY LUBE #1066 567 W HIGHLAND AVE SAN BERNARDINO CA 92405	DELISTED CTNK
Site ID:		381437				
Latitude:		34.135870				
Longitude:		-117.295620				
Record Date:		CTNK				
Original Source:		20-OCT-2017				

<a href="#">9</a>	1 of 1	N	0.22 / 1,157.70	1,171.98 / 16	O'Reilly Auto Parts #3195 555 W Highland Ave San Bernardino CA 92405	SANBERN CUPA
Facility ID:		FA0004301				
Owner Info:		O'Reilly Auto Enterprises, L.L.C.				
Mailing Care of:						
--Details--						
Status:		INACTIVE				
Permit ID:		PT0010050				
Permit Desc:		HAZMAT HANDLER - USED OIL COLLECTION CENTERS				
Program Element Code:		4240				
To:		12/31/2006				
Status:		ACTIVE				
Permit ID:		PT0018322				
Permit Desc:		CONDITIONALLY EXEMPT SM QTY GENERATOR				
Program Element Code:		4452				
To:		12/31/2018				
Status:		ACTIVE				
Permit ID:		PT0018323				
Permit Desc:		HAZARDOUS MATERIALS 1-3 CHEMICALS				
Program Element Code:		4242				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
To:		12/31/2018				
<a href="#">10</a>	1 of 2	NNE	0.23 / 1,205.62	1,172.12 / 16	91062 507 W HIGHLAND AVE SAN BERNARDINO CA 92404	HHSS
County:		http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029b8e.pdf				
Pdf File Url:						
<a href="#">10</a>	2 of 2	NNE	0.23 / 1,205.62	1,172.12 / 16	91062 507 W HIGHLAND AVE SAN BERNARDINO CA	HIST TANK
Owner Name:		CHEVRON U.S.A. INC.		No of Containers:		4
Owner Street:		575 MARKET		County:		SAN BERNARDINO
Owner City:		SAN FRANCISCO		Facility State:		CA
Owner State:		CA		Facility Zip:		92404
Owner Zip:		94105				
<a href="#">11</a>	1 of 1	NNW	0.23 / 1,207.70	1,170.50 / 14	BAKER'S DRIVE THRU #101 601 W HIGHLAND AVE SAN BERNARDINO CA 92405	SANBERN CUPA
Facility ID:		FA0012306				
Owner Info:		BAKER'S BURGERS INC				
Mailing Care of:		JOHN MCANESPIE				
--Details--						
Status:		INACTIVE				
Permit ID:		PT0021834				
Permit Desc:		BULK CO2 AT RETAIL FOOD FACILITIES				
Program Element Code:		4255				
To:		5/31/2010				
<a href="#">12</a>	1 of 4	NNE	0.24 / 1,265.94	1,172.40 / 16	UNION OIL SERVICE STATION 040 487 W HIGHLAND AVE. SAN BERNARDINO CA 92404	HHSS
County:		http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002a8fb.pdf				
Pdf File Url:						
<a href="#">12</a>	2 of 4	NNE	0.24 / 1,265.94	1,172.40 / 16	STATION 0404 487 W HIGHLAND AVE SAN BERNARDINO CA 92404	HHSS
County:		http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002a903.pdf				
Pdf File Url:						
<a href="#">12</a>	3 of 4	NNE	0.24 / 1,265.94	1,172.40 / 16	STATION #0404 487 W HIGHLAND AVE SAN BERNARDINO CA	HIST TANK
Owner Name:		UNION OIL COMPANY OF CALIFORNI		No of Containers:		1
Owner Street:		1450 FRAZEE ROAD		County:		SAN BERNARDINO
Owner City:		SAN DIEGO		Facility State:		CA
Owner State:		CA		Facility Zip:		92404
Owner Zip:		92108				



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<a href="#">12</a>	4 of 4	NNE	0.24 / 1,265.94	1,172.40 / 16	UNION OIL SERVICE STATION #040 487 W HIGHLAND AVE. SAN BERNARDINO CA	HIST TANK
Owner Name:		UNION OIL COMPANY OF CALIFORNI		No of Containers:		5
Owner Street:		123 CAMINO DELA REINA		County:		SAN BERNARDINO
Owner City:		SAN DIEGO		Facility State:		CA
Owner State:		CA		Facility Zip:		92404
Owner Zip:		92108				
<a href="#">13</a>	1 of 1	NNW	0.24 / 1,273.91	1,169.81 / 14	NORMS AUTOMOTIVE 635 W HIGHLAND SAN BERNARDINO CA 92405	RCRA SQG
EPA Handler ID:		CAD982472789				
Land Type Code:						
Land Type Desc:						
Federal Waste Generator Code:		2				
Gen Status Univ:		SQG				
Gen Status Univ Desc:		Small Quantity Generator				
Importer Activity:		No				
Mixed Waste Generator:		No				
Transporter Activity:		No				
Transfer Facility:		No				
Recycler Activity:		No				
Onsite Burner Exemption:		No				
Furnace Exemption:		No				
Underground Inject Activity:		No				
Receives Waste from Offsite:		No				
TSD Type:		-----				
TSD Activity:		No				
Corrective Action Univ:		No				
Action has been Imposed:		No				
Action under 3004 (U)/(V):		No				
Institutional Control Indicator:		N				
Used Oil Transporter:						
Used Oil Transfer Facility:						
Used Oil Processor:						
Used Oil Refiner:						
Used Oil Burner:						
Used Oil Market Burner:						
Used Oil Spec Marketer:						
Activity Location:		CA				
County Code:		CA071				
County Name:		SAN BERNARDINO				
Contact Name:						
Contact Phone No and Exten:						
Contact Email:						
Contact Address:		US				
Mailing Address:		635 , W HIGHLAND , SAN BERNARDINO , CA, 92405 , US				

#### Violation/Evaluation Summary

**Note:** As of Jan 24 2018, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

#### Handler Details

Source Type:	I	Used Oil Transporter:	No
Receive Date:	19960901	UO Transfer Fac:	No
Non Notifier:		Used Oil Processor:	No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<hr/>						
<b>Acknowledge Flag:</b>					<b>Used Oil Refiner:</b>	No
<b>Acknowledge Date:</b>	19910331				<b>Used Oil Burner:</b>	No
<b>Accessibility:</b>					<b>UO Market Burner:</b>	No
<b>Land Type:</b>					<b>UO Spec Marketer:</b>	No
<b>Fed Waste Gen Own:</b>	HQ				<b>Current Site Name:</b>	NORMS AUTOMOTIVE
<b>Fed Waste Gen Cd:</b>	2				<b>Location Street No:</b>	635
<b>Fed Waste Gen Desc:</b>	Small Quantity Generator				<b>Location Street 1:</b>	W HIGHLAND
<b>ST Waste Gen Own:</b>					<b>Location Street 2:</b>	
<b>State Waste Gen Cd:</b>					<b>Location City:</b>	SAN BERNARDINO
<b>Short Term Gen:</b>	No				<b>Location State:</b>	CA
<b>Importer Activity:</b>	No				<b>Location Zip Code:</b>	92405
<b>Mixed Waste Gen:</b>	No				<b>County Code:</b>	CA071
<b>Transporter:</b>	No				<b>State District:</b>	4
<b>Transfer Facility:</b>	No				<b>Mailing Street No:</b>	635
<b>TSD Activity:</b>	No				<b>Mailing Street 1:</b>	W HIGHLAND
<b>Recycler Activity:</b>	No				<b>Mailing Street 2:</b>	
<b>Onsite Burn Exempt:</b>	No				<b>Mailing City:</b>	SAN BERNARDINO
<b>Furnace Exemption:</b>	No				<b>Mailing State:</b>	CA
<b>Underground Inject:</b>	No				<b>Mailing Zip Code:</b>	92405
<b>Off Site Receipt:</b>	No				<b>Mailing Country:</b>	US
<b>Waste Dest Fac:</b>	No				<b>Contact First Name:</b>	
<b>Subpart K College:</b>					<b>Contact Middle Initial:</b>	
<b>Subpart K Hospital:</b>					<b>Contact Last Name:</b>	
<b>Subpart K Non Profit:</b>					<b>Contact Street No:</b>	
<b>Subpart K Withdraw:</b>					<b>Contact Street 1:</b>	
<b>Include Ntnl Rprt:</b>					<b>Contact Street 2:</b>	
<b>Reporting Cycle:</b>					<b>Contact City:</b>	
<b>LQHUV:</b>	No				<b>Contact State:</b>	
<b>Trader Importer:</b>					<b>Contact Zip:</b>	
<b>Trader Exporter:</b>					<b>Contact Country:</b>	US
<b>Slab Importer:</b>					<b>Contact Phone:</b>	
<b>Slab Exporter:</b>					<b>Contact Phone Ext:</b>	
<b>Current Record:</b>	Yes				<b>Contact Fax:</b>	
<b>Location Country:</b>	US				<b>Contact Email Addr:</b>	
<b>State District Owner:</b>	CA				<b>Contact Title:</b>	

#### Owner/Operator Details

<b>Owner/Operator Ind:</b>	CO	<b>Country:</b>	
<b>Name:</b>	NORM LUBINSKY	<b>Zip Code:</b>	99999
<b>Street No:</b>		<b>Phone:</b>	415-555-1212
<b>Street 1:</b>	NOT REQUIRED	<b>Type:</b>	P
<b>Street 2:</b>		<b>Date Became Current:</b>	
<b>City:</b>	NOT REQUIRED	<b>Date Ended Current:</b>	
<b>State:</b>	ME		
<b>Source Type:</b>	I		
<hr/>			
<b>Owner/Operator Ind:</b>	CP	<b>Country:</b>	
<b>Name:</b>	NOT REQUIRED	<b>Zip Code:</b>	99999
<b>Street No:</b>		<b>Phone:</b>	415-555-1212
<b>Street 1:</b>	NOT REQUIRED	<b>Type:</b>	P
<b>Street 2:</b>		<b>Date Became Current:</b>	
<b>City:</b>	NOT REQUIRED	<b>Date Ended Current:</b>	
<b>State:</b>	ME		
<b>Source Type:</b>	I		

<a href="#">14</a>	1 of 1	ENE	0.24 / 1,291.81	1,166.13 / 10	CA-984_HEADEND-SAN BERNADINO_CHARTER COMMUNICATIONS 2090 N D ST SAN BERNADINO CA 92405	SANBERN CUPA
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**Facility ID:** FA0011125  
**Owner Info:** Charter Communications  
**Mailing Care of:**

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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**--Details--**

Status:	ACTIVE
Permit ID:	PT0026271
Permit Desc:	APSA 1,320-10,000 GAL FAC CAPACITY
Program Element Code:	4031
To:	9/30/2018
Status:	ACTIVE
Permit ID:	PT0019216
Permit Desc:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Program Element Code:	4241
To:	9/30/2018

<a href="#">15</a>	1 of 1	NNE	0.25 / 1,320.41	1,172.57 / 16	SAN BERNARDINO AUTO PAINTING 463 HIGHLAND SAN BERNARDINO CA 90009	EMISSIONS
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**1987 Criteria Data**

Facility ID:	16516	CERR Code:	
Facility SIC Code:	7538	TOGT:	4.2
CO:	36	ROGT:	4.0656
Air Basin:	SC	COT:	
District:	SC	NOXT:	
COD:	SBD	SOXT:	
DISN:	SOUTH COAST AQMD	PMT:	.1
CHAPIS:		PM10T:	.096

**1987 Toxic Data**

Facility ID:	16516	COD:	SBD
Facility SIC Code:	7538	DISN:	SOUTH COAST AQMD
CO:	36	CHAPIS:	
Air Basin:	SC	CERR Code:	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

**1990 Criteria Data**

Facility ID:	16516	CERR Code:	
Facility SIC Code:	7538	TOGT:	2.3
CO:	36	ROGT:	1.8392
Air Basin:	SC	COT:	
District:	SC	NOXT:	
COD:	SBD	SOXT:	
DISN:	SOUTH COAST AQMD	PMT:	0
CHAPIS:		PM10T:	0

**1990 Toxic Data**

Facility ID:	16516	COD:	SBD
Facility SIC Code:	7538	DISN:	SOUTH COAST AQMD
CO:	36	CHAPIS:	
Air Basin:	SC	CERR Code:	
District:	SC		
TS:			
Health Risk Asmt:			



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Non-Cancer Chronic Haz Ind:  
Non-Cancer Acute Haz Ind:

1993 Criteria Data

Facility ID:	16516	CERR Code:	
Facility SIC Code:	7538	TOGT:	1.6
CO:	36	ROGT:	1.5488
Air Basin:	SC	COT:	
District:	SC	NOXT:	
COID:	SBD	SOXT:	
DISN:	SOUTH COAST AQMD	PMT:	
CHAPIS:		PM10T:	

1993 Toxic Data

Facility ID:	16516	COID:	SBD
Facility SIC Code:	7538	DISN:	SOUTH COAST AQMD
CO:	36	CHAPIS:	
Air Basin:	SC	CERR Code:	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1995 Criteria Data

Facility ID:	16516	CERR Code:	
Facility SIC Code:	7538	TOGT:	1.6
CO:	36	ROGT:	1.5488
Air Basin:	SC	COT:	
District:	SC	NOXT:	
COID:	SBD	SOXT:	
DISN:	SOUTH COAST AQMD	PMT:	
CHAPIS:		PM10T:	

1995 Toxic Data

Facility ID:	16516	COID:	SBD
Facility SIC Code:	7538	DISN:	SOUTH COAST AQMD
CO:	36	CHAPIS:	
Air Basin:	SC	CERR Code:	
District:	SC		
TS:			
Health Risk Asmt:			
Non-Cancer Chronic Haz Ind:			
Non-Cancer Acute Haz Ind:			

1997 Criteria Data

Facility ID:	16516	CERR Code:	
Facility SIC Code:	7538	TOGT:	1.141
CO:	36	ROGT:	1.0469434
Air Basin:	SC	COT:	
District:	SC	NOXT:	
COID:	SBD	SOXT:	
DISN:	SOUTH COAST AQMD	PMT:	
CHAPIS:		PM10T:	

1997 Toxic Data

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Facility ID:	16516			COID:	SBD	
Facility SIC Code:	7538			DISN:	SOUTH COAST AQMD	
CO:	36			CHAPIS:		
Air Basin:	SC			CERR Code:		
District:	SC					
TS:						
Health Risk Asmt:						
Non-Cancer Chronic Haz Ind:						
Non-Cancer Acute Haz Ind:						
<b><u>1998 Criteria Data</u></b>						
Facility ID:	16516			CERR Code:		
Facility SIC Code:	7538			TOGT:	1.141	
CO:	36			ROGT:	1.0469434	
Air Basin:	SC			COT:		
District:	SC			NOXT:		
COID:	SBD			SOXT:		
DISN:	SOUTH COAST AQMD			PMT:		
CHAPIS:				PM10T:		
<b><u>1998 Toxic Data</u></b>						
Facility ID:	16516			COID:	SBD	
Facility SIC Code:	7538			DISN:	SOUTH COAST AQMD	
CO:	36			CHAPIS:		
Air Basin:	SC			CERR Code:		
District:	SC					
TS:						
Health Risk Asmt:						
Non-Cancer Chronic Haz Ind:						
Non-Cancer Acute Haz Ind:						
<b><u>1999 Criteria Data</u></b>						
Facility ID:	16516			CERR Code:		
Facility SIC Code:	7538			TOGT:	1.141	
CO:	36			ROGT:	1.0469434	
Air Basin:	SC			COT:		
District:	SC			NOXT:		
COID:	SBD			SOXT:		
DISN:	SOUTH COAST AQMD			PMT:		
CHAPIS:				PM10T:		
<b><u>1999 Toxic Data</u></b>						
Facility ID:	16516			COID:	SBD	
Facility SIC Code:	7538			DISN:	SOUTH COAST AQMD	
CO:	36			CHAPIS:		
Air Basin:	SC			CERR Code:		
District:	SC					
TS:						
Health Risk Asmt:						
Non-Cancer Chronic Haz Ind:						
Non-Cancer Acute Haz Ind:						
<b><u>2000 Criteria Data</u></b>						
Facility ID:	16516			CERR Code:		
Facility SIC Code:	7538			TOGT:	1.141	
CO:	36			ROGT:	1.05	
Air Basin:	SC			COT:		
District:	SC			NOXT:		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>COID:</b> SBD <b>DISN:</b> SOUTH COAST AQMD <b>CHAPIS:</b> <b>SOXT:</b> <b>PMT:</b> <b>PM10T:</b>						
<u>2000 Toxic Data</u>						
<b>Facility ID:</b> 16516 <b>Facility SIC Code:</b> 7538 <b>CO:</b> 36 <b>Air Basin:</b> SC <b>District:</b> SC <b>TS:</b> <b>Health Risk Asmt:</b> <b>Non-Cancer Chronic Haz Ind:</b> <b>Non-Cancer Acute Haz Ind:</b>						
<b>COID:</b> SBD <b>DISN:</b> SOUTH COAST AQMD <b>CHAPIS:</b> <b>CERR Code:</b>						
<u>2001 Criteria Data</u>						
<b>Facility ID:</b> 16516 <b>Facility SIC Code:</b> 7538 <b>CO:</b> 36 <b>Air Basin:</b> SC <b>District:</b> SC <b>COID:</b> SBD <b>DISN:</b> SOUTH COAST AQMD <b>CHAPIS:</b>						
<b>CERR Code:</b> <b>TOGT:</b> 1.13 <b>ROGT:</b> 1.04 <b>COT:</b> <b>NOXT:</b> <b>SOXT:</b> <b>PMT:</b> <b>PM10T:</b>						
<u>2001 Toxic Data</u>						
<b>Facility ID:</b> 16516 <b>Facility SIC Code:</b> 7538 <b>CO:</b> 36 <b>Air Basin:</b> SC <b>District:</b> SC <b>TS:</b> <b>Health Risk Asmt:</b> <b>Non-Cancer Chronic Haz Ind:</b> <b>Non-Cancer Acute Haz Ind:</b>						
<b>COID:</b> SBD <b>DISN:</b> SOUTH COAST AQMD <b>CHAPIS:</b> <b>CERR Code:</b>						
<a href="#">16</a>	1 of 1	NW	0.38 / 1,983.33	1,167.57 / 11	E-Z SERVE 798 W HIGHLAND AVE SAN BERNARDINO CA 92411	LUST
<b>Global ID:</b> T0607100343 <b>Case Type:</b> LUST Cleanup Site <b>Status:</b> Completed - Case Closed <b>Status Date:</b> 1997-02-07 00:00:00 <b>RB Case No:</b> 083602529T <b>LOC Case No:</b> 95060 <b>Lead Agency:</b> SAN BERNARDINO COUNTY <b>Case Worker:</b> <b>Local Agency:</b> <b>Potential Media Of Concern:</b> Gasoline <b>Potential Media Affected:</b> Soil <b>How Discovered Description:</b> <b>Stop Description:</b> <b>Cal Water Watershed Name:</b> Santa Ana River - Upper Santa Ana River - Bunker Hill (801.52) <b>DWR Groundwater Subbasin Name:</b> Upper Santa Ana Valley - Bunker Hill (8-2.06) <b>Site History:</b>						
<b>CUF Case:</b> YES <b>Begin Date:</b> 1995-05-31 00:00:00 <b>How Discovered:</b> Tank Closure <b>Stop Method:</b> <b>County:</b> San Bernardino <b>Latitude:</b> 34.136315 <b>Longitude:</b> -117.300511 <b>File Location:</b> Local Agency						

Status History



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB	
Status:		Completed - Case Closed		Status Date:		1997-02-07 00:00:00	
Status:		Open - Case Begin Date		Status Date:		1995-05-31 00:00:00	
Activities							
Action Type:		REMEDIATION					
Action:		Excavation					
Date:		1995-05-31 00:00:00					
Action Type:		ENFORCEMENT					
Action:		Closure/No Further Action Letter					
Date:		1997-02-07 00:00:00					
Action Type:		Other					
Action:		Leak Discovery					
Date:		1995-05-31 00:00:00					
Action Type:		Other					
Action:		Leak Reported					
Date:		1995-11-08 00:00:00					
Action Type:		Other					
Action:		Leak Stopped					
Date:		1995-05-31 00:00:00					
Contacts							
Contact Type:		Regional Board Caseworker		City:		RIVERSIDE	
Contact Name:		NANCY OLSON-MARTIN		Email:		nolson-martin@waterboards.ca.gov	
Organization Name:		SANTA ANA RWQCB (REGION 8)		Phone No:			
Address:		3737 MAIN STREET, SUITE 500					
17	1 of 2	WNW	0.41 / 2,181.58	1,165.35 / 9	MOBIL #18-HN5 847 W HIGHLAND AVE SAN BERNARDINO CA 92405	LUST	
Global ID:		T0607100131			CUF Case:		YES
Case Type:		LUST Cleanup Site			Begin Date:		1988-10-21 00:00:00
Status:		Completed - Case Closed			How Discovered:		Tank Closure
Status Date:		1997-09-18 00:00:00			Stop Method:		
RB Case No:		083601158T			County:		San Bernardino
LOC Case No:		90130			Latitude:		34.135528
Lead Agency:		SAN BERNARDINO COUNTY			Longitude:		-117.301924
Case Worker:		CB			File Location:		Local Agency
Local Agency:		SAN BERNARDINO COUNTY					
Potential Media Of Concern:		Gasoline					
Potential Media Affected:		Soil					
How Discovered Description:							
Stop Description:							
Cal Water Watershed Name:		Santa Ana River - Upper Santa Ana River - Bunker Hill (801.52)					
DWR Groundwater Subbasin Name:		Upper Santa Ana Valley - Bunker Hill (8-2.06)					
Site History:							
Status History							
Status:		Open - Site Assessment		Status Date:		1988-10-21 00:00:00	
Status:		Completed - Case Closed		Status Date:		1997-09-18 00:00:00	
Status:		Open - Remediation		Status Date:		1992-12-22 00:00:00	
Status:		Open - Case Begin Date		Status Date:		1988-10-21 00:00:00	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Status:	Open - Site Assessment	Status Date:	1991-02-12 00:00:00
Status:	Open - Site Assessment	Status Date:	1991-05-15 00:00:00

### Activities

Action Type:	Other
Action:	Leak Stopped
Date:	1988-10-21 00:00:00

Action Type:	Other
Action:	Leak Discovery
Date:	1988-10-21 00:00:00

Action Type:	Other
Action:	Leak Reported
Date:	1989-01-11 00:00:00

### Contacts

Contact Type:	Regional Board Caseworker	City:	RIVERSIDE
Contact Name:	ROSE SCOTT	Email:	rose.scott@waterboards.ca.gov
Organization Name:	SANTA ANA RWQCB (REGION 8)	Phone No:	9513206375
Address:	3737 MAIN STREET, SUITE 500		

Contact Type:	Local Agency Caseworker	City:	SAN BERNARDINO
Contact Name:	CURTIS BRUNDAGE	Email:	cbrundage@sbcfire.org
Organization Name:	SAN BERNARDINO COUNTY	Phone No:	
Address:	620 S. E STREET		

<a href="#">17</a>	2 of 2	WNW	0.41 / 2,181.58	1,165.35 / 9	JIM'S MOBIL STATION 847 W HIGHLAND AVE SAN BERNARDINO CA 92405	LUST
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Global ID:	T0607100585	CUF Case:	NO
Case Type:	LUST Cleanup Site	Begin Date:	1999-01-12 00:00:00
Status:	Completed - Case Closed	How Discovered:	Other Means
Status Date:	1999-06-23 00:00:00	Stop Method:	
RB Case No:	083603500T	County:	San Bernardino
LOC Case No:	99080	Latitude:	34.135528
Lead Agency:	SAN BERNARDINO COUNTY	Longitude:	-117.301924
Case Worker:		File Location:	Local Agency
Local Agency:			
Potential Media Of Concern:	Gasoline		
Potential Media Affected:	Soil		
How Discovered Description:			
Stop Description:			
Cal Water Watershed Name:	Santa Ana River - Upper Santa Ana River - Bunker Hill (801.52)		
DWR Groundwater Subbasin Name:	Upper Santa Ana Valley - Bunker Hill (8-2.06)		
Site History:			

### Status History

Status:	Completed - Case Closed	Status Date:	1999-06-23 00:00:00
Status:	Open - Case Begin Date	Status Date:	1999-01-12 00:00:00
Status:	Open - Site Assessment	Status Date:	1999-01-12 00:00:00

### Activities

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Action Type:</b>		Other				
<b>Action:</b>		Leak Discovery				
<b>Date:</b>		1999-01-12 00:00:00				
<b>Action Type:</b>		Other				
<b>Action:</b>		Leak Reported				
<b>Date:</b>		1999-05-20 00:00:00				
<b>Action Type:</b>		ENFORCEMENT				
<b>Action:</b>		Closure/No Further Action Letter				
<b>Date:</b>		1999-06-23 00:00:00				

#### Contacts

<b>Contact Type:</b>	Regional Board Caseworker	<b>City:</b>	RIVERSIDE
<b>Contact Name:</b>	NANCY OLSON-MARTIN	<b>Email:</b>	nolson-martin@waterboards.ca.gov
<b>Organization Name:</b>	SANTA ANA RWQCB (REGION 8)	<b>Phone No:</b>	
<b>Address:</b>	3737 MAIN STREET, SUITE 500		

<a href="#">18</a>	1 of 2	NNW	0.42 / 2,231.66	1,182.66 / 27	WILSON II ELEMENTARY SCHOOL 25TH STREET / F STREET SAN BERNARDINO CA 92405	ENVIROSTOR
<b>Estor/EPA ID:</b>		60000045	<b>Funding:</b>		SCHOOL DISTRICT	
<b>Site Type:</b>		SCHOOL	<b>County:</b>		SAN BERNARDINO	
<b>Site Code:</b>		404554	<b>Assembly District:</b>		40	
<b>Ntnl Priority List:</b>		NO	<b>Senate District:</b>		23	
<b>Acres:</b>		8.3 ACRES	<b>Latitude:</b>		34.1387	
<b>Special Program:</b>			<b>Longitude:</b>		-117.2975	
<b>Address Desc:</b>		25TH STREET / F STREET				
<b>Address Desc 2:</b>		25th Street / F Street				
<b>Clean Up Status:</b>		CERTIFIED / OPERATION & MAINTENANCE AS OF 9/5/2013				
<b>Clean Up Oversight Agencies:</b>						
<b>School District:</b>		SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT				
<b>Program Type:</b>		DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY				
<b>Past Caused Contamination:</b>		RESIDENTIAL AREA				
<b>APN:</b>		NONE SPECIFIED				
<b>Potential Media Affected:</b>		SOIL				
<b>Site History:</b>						

The approximately 8.3-acre proposed school site formerly consisted of single family residences and vacant lots. Surrounding properties include single-family residences to the north, east and west and Arrow View Junior High School to the south. The Site has been used as residential since the 1940s. The residential structures have been demolished at the Site. During environmental investigations, lead and OCPs were detected in the soil above acceptable levels. On May 19, 2010, DTSC determined a removal action is necessary based on the findings of the Preliminary Endangerment Assessment (PEA) conducted for the Site.

According to the PEA, chemicals of potential concern (COPCs) on the Site were lead (2,078 mg/kg maximum concentration) and the organochlorine pesticides (OCPs) 4,4'-DDD (210 ug/kg), 4,4'-DDE (1,400 ug/kg), 4,4'-DDT (2,100 ug/kg), Aldrin (51 ug/kg), Chlordane (24,000 ug/kg), Dieldrin (25,000 ug/kg), Endrin (440 ug/kg), Heptachlor (580 ug/kg) and Heptachlor-epoxide (290 ug/kg). The PEA recommended 'further action' on this Site.

The 30-day public comment period for the RAW began on October 1, 2010 and ended on November 1, 2010. DTSC considered and responded to the comments and approved the RAW on 11/15/2010. The RAW specifies removal action objectives, evaluates alternatives, and describes the alternative proposed for the Site. The objective of the RAW is to mitigate potential risk to human health and the environment from soil impacted with lead from lead-based paint and organochlorine pesticides (OCPs) from termiticide applications. The proposed removal alternative in the RAW include: 1) soil segregation, sampling and classifying as hazardous or non-hazardous; 2) the transport of up to 120 truckloads (2,742 cubic yards) of contaminated soil classified as hazardous to a State approved disposal facility; 3) relocation and backfilling of up to 10,865 tons of existing soil classified as non hazardous at the Site; 4) the installation of a cap of at least two feet of engineered-clean fill to cover the affected soils or concrete foundation; 5) the placement of a Land Use Covenant (LUC) on the property to prohibit activities that may disturb the cap without prior DTSC approval; and 6) operation and maintenance of the cap pursuant to a DTSC-approved plan. After implementation of the RAW, the District submitted the RACR on 1/17/2013. After several revisions, the RACR was approved on 5/29/2013.

DTSC and the District executed O&M Agreement and LUC on August 8, 2013. The LUC was recorded with the County of San Bernardino on August 22, 2013. On September 5, 2013, DTSC certified the Site for building a School.

Annual LUC inspection is currently ongoing.

#### Potential Contaminants:



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
LEAD						
ORGANOCHLORINE PESTICIDES (8081 OCPS)						
POLYCHLORINATED BIPHENYLS (PCBS)						

#### Facility Information

**Program Type:** SCHOOL CLEANUP  
**Status:** CERTIFIED / OPERATION & MAINTENANCE - LAND USE RESTRICTIONS  
**Summary Link:** [http://www.envirostor.dtsc.ca.gov/public/profile\\_report?global\\_id=60000045](http://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=60000045)

#### Completed Activities

**Activity Type:** Completed Activities  
**Area Name:**  
**Sub Area:**  
**Date Completed:** 5/29/2013  
**Document Type:** Removal Action Completion Report  
**Doc Link:** [http://www.envirostor.dtsc.ca.gov/public/final\\_documents2?global\\_id=60000045&doc\\_id=60258182](http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&doc_id=60258182)  
**Comments:**

**Activity Type:** Completed Activities  
**Area Name:**  
**Sub Area:**  
**Date Completed:** 3/16/2011  
**Document Type:** Correspondence  
**Doc Link:** [http://www.envirostor.dtsc.ca.gov/public/final\\_documents2?global\\_id=60000045&enforcement\\_id=60264089](http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&enforcement_id=60264089)  
**Comments:**

**Activity Type:** Completed Activities  
**Area Name:**  
**Sub Area:**  
**Date Completed:** 8/8/2013  
**Document Type:** Land Use Restriction  
**Doc Link:** [http://www.envirostor.dtsc.ca.gov/public/final\\_documents2?global\\_id=60000045&enforcement\\_id=60271091](http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&enforcement_id=60271091)  
**Comments:** DTSC signed the document and forwarded to the District for filing with the San Bernardino County Recorder's Office.

**Activity Type:** Completed Activities  
**Area Name:**  
**Sub Area:**  
**Date Completed:** 7/22/2004  
**Document Type:** Site Inspections/Visit (Non LUR)  
**Doc Link:**  
**Comments:**

**Activity Type:** Completed Activities  
**Area Name:**  
**Sub Area:**  
**Date Completed:** 8/25/2004  
**Document Type:** Site Inspections/Visit (Non LUR)  
**Doc Link:**  
**Comments:**

**Activity Type:** Completed Activities  
**Area Name:**  
**Sub Area:**  
**Date Completed:** 9/30/2010  
**Document Type:** Public Notice  
**Doc Link:** [http://www.envirostor.dtsc.ca.gov/public/final\\_documents2?global\\_id=60000045&doc\\_id=60254491](http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&doc_id=60254491)  
**Comments:**

**Activity Type:** Completed Activities  
**Area Name:**  
**Sub Area:**  
**Date Completed:** 7/16/2014  
**Document Type:** Operations and Maintenance Report

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Doc Link:</b>					<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=60337325">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=60337325</a>	
<b>Comments:</b>						
<b>Activity Type:</b>			Completed Activities			
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>			8/8/2013			
<b>Document Type:</b>			Operation & Maintenance Order/Agreement			
<b>Doc Link:</b>					<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=60271092">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=60271092</a>	
<b>Comments:</b>						
<b>Activity Type:</b>			Completed Activities			
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>			11/16/2011			
<b>Document Type:</b>			Correspondence			
<b>Doc Link:</b>					<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=60284728">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=60284728</a>	
<b>Comments:</b>						
<b>Activity Type:</b>			Completed Activities			
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>			10/13/2004			
<b>Document Type:</b>			Phase 1			
<b>Doc Link:</b>					<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=6007317">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=6007317</a>	
<b>Comments:</b>					Phase 1 approved for further action (Phase 1 Addendum) to investigate structures onsite, pole mounted transformer locations.	
<b>Activity Type:</b>			Completed Activities			
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>			6/1/2009			
<b>Document Type:</b>			Environmental Oversight Agreement			
<b>Doc Link:</b>					<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=6013719">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=6013719</a>	
<b>Comments:</b>					Signed agreement sent (FedEx) to District.	
<b>Activity Type:</b>			Completed Activities			
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>			8/28/2014			
<b>Document Type:</b>			Annual Oversight Cost Estimate			
<b>Doc Link:</b>					<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=60377849">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=60377849</a>	
<b>Comments:</b>						
<b>Activity Type:</b>			Completed Activities			
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>			8/19/2016			
<b>Document Type:</b>			Land Use Restriction Monitoring Report			
<b>Doc Link:</b>					<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=60374993">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=60374993</a>	
<b>Comments:</b>						
<b>Activity Type:</b>			Completed Activities			
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>			11/13/2006			
<b>Document Type:</b>			4.14 Request			
<b>Doc Link:</b>					<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=6013734">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=6013734</a>	
<b>Comments:</b>					DTSC accepted the 4.14 form. A deliverable of the Addendum will be scheduled to keep the project active until the District is ready to complete the investigation process.	
<b>Activity Type:</b>			Completed Activities			
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>			9/29/2010			
<b>Document Type:</b>			Fact Sheets			
<b>Doc Link:</b>					<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=60254492">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=60254492</a>	
<b>Comments:</b>						

<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				
Activity Type: Area Name: Sub Area: Date Completed: Document Type: Doc Link: Comments:		Completed Activities				



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Document Type:</b>		Annual Oversight Cost Estimate				
<b>Doc Link:</b>		<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=60401116">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=60401116</a>				
<b>Comments:</b>		Annual Cost Estimate emailed and mailed to BP.				
<b>Activity Type:</b>		Completed Activities				
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>		9/8/2016				
<b>Document Type:</b>		Annual Oversight Cost Estimate				
<b>Doc Link:</b>		<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=60412540">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=60412540</a>				
<b>Comments:</b>						
<b>Activity Type:</b>		Completed Activities				
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>		8/14/2015				
<b>Document Type:</b>		Land Use Restriction Monitoring Report				
<b>Doc Link:</b>		<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=60366129">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=60366129</a>				
<b>Comments:</b>						
<b>Activity Type:</b>		Completed Activities				
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>		5/20/2010				
<b>Document Type:</b>		Preliminary Endangerment Assessment Report				
<b>Doc Link:</b>		<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=6013799">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=6013799</a>				
<b>Comments:</b>						
<b>Activity Type:</b>		Completed Activities				
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>		6/12/2017				
<b>Document Type:</b>		Land Use Restriction Monitoring Report				
<b>Doc Link:</b>		<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=60374997">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;doc_id=60374997</a>				
<b>Comments:</b>		DTSC approved the Report.				
<b>Activity Type:</b>		Completed Activities				
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>		11/15/2010				
<b>Document Type:</b>		CEQA - Notice of Exemption				
<b>Doc Link:</b>		<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=60254197">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=60000045&amp;enforcement_id=60254197</a>				
<b>Comments:</b>						
<b><u>Future Activities</u></b>						
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Document Type:</b>		5 Year Review Reports				
<b>Due Date:</b>		2019				
<b>Activity Type:</b>		Future Activities				
<b><u>Land Use Restrictions</u></b>						
<b>Covenant:</b>		<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?cmd=radocuments&amp;global_id=60000045&amp;enforcement_id=60271091">http://www.envirostor.dtsc.ca.gov/public/final_documents2?cmd=radocuments&amp;global_id=60000045&amp;enforcement_id=60271091</a>				
<b>Area:</b>						
<b>Sub Area:</b>						
<b>Date Recorded:</b>		8/8/2013				
<b>Site Management Requirements:</b>		ACTIVITIES PROHIBITED WHICH DISTURB THE REMEDY AND MONITORING SYSTEMS WITHOUT APPROVAL ASPHALT COVER NOT TO BE DISTURBED WITHOUT APPROVAL CHECK FOR CRACKS IN FOUNDATION ELDER CARE CENTER PROHIBITED HOSPITAL USE PROHIBITED LAND USE COVENANT NO EXCAVATION OF CONTAMINATED SOILS WITHOUT AGENCY REVIEW AND APPROVAL				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
					NO EXCAVATION OR ACTIVITIES WHICH DISTURB THE SOIL BELOW A SPECIFIED DEPTH (SEE COVENANT FOR DEPTH) WITHOUT AGENCY REVIEW AND APPROVAL OF A SOIL MANAGEMENT PLAN NO GROUNDWATER EXTRACTION AT ANY DEPTH WITHOUT APPROVAL NO OIL OR GAS EXTRACTION AT ANY DEPTH NOTIFY AFTER CHANGE OF PROPERTY OWNER NOTIFY PRIOR TO CHANGE IN LAND USE NOTIFY PRIOR TO DEVELOPMENT NOTIFY PRIOR TO SUBSURFACE WORK PERFORM H&S PLAN PRIOR TO SUBSURFACE WORK RAISING OF FOOD PROHIBITED REQUIRES SURFACE COVERS RESIDENCE USE PROHIBITED	

<a href="#">18</a>	2 of 2	NNW	0.42 / 2,231.66	1,182.66 / 27	WILSON II ELEMENTARY SCHOOL 25TH STREET / F STREET SAN BERNARDINO CA 92405	LUR
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**Envirostor ID:** 60000045 **County:** SAN BERNARDINO  
**Latitude:** 34.1387 **Senate District:** 23  
**Longitude:** -117.2975  
**Site Name:** WILSON II ELEMENTARY SCHOOL  
**Address:** 25TH STREET / F STREET  
**Zip:** 92405  
**City:** SAN BERNARDINO  
**Site History:**

The approximately 8.3-acre proposed school site formerly consisted of single family residences and vacant lots. Surrounding properties include single-family residences to the north, east and west and Arrow View Junior High School to the south. The Site has been used as residential since the 1940s. The residential structures have been demolished at the Site. During environmental investigations, lead and OCPs were detected in the soil above acceptable levels. On May 19, 2010, DTSC determined a removal action is necessary based on the findings of the Preliminary Endangerment Assessment (PEA) conducted for the Site.

According to the PEA, chemicals of potential concern (COPCs) on the Site were lead (2,078 mg/kg maximum concentration) and the organochlorine pesticides (OCPs) 4,4'-DDD (210 ug/kg), 4,4'-DDE (1,400 ug/kg), 4,4'-DDT (2,100 ug/kg), Aldrin (51 ug/kg), Chlordane (24,000 ug/kg), Dieldrin (25,000 ug/kg), Endrin (440 ug/kg), Heptachlor (580 ug/kg) and Heptachlor-epoxide (290 ug/kg). The PEA recommended 'further action' on this Site.

The 30-day public comment period for the RAW began on October 1, 2010 and ended on November 1, 2010. DTSC considered and responded to the comments and approved the RAW on 11/15/2010. The RAW specifies removal action objectives, evaluates alternatives, and describes the alternative proposed for the Site. The objective of the RAW is to mitigate potential risk to human health and the environment from soil impacted with lead from lead-based paint and organochlorine pesticides (OCPs) from termiticide applications. The proposed removal alternative in the RAW include: 1) soil segregation, sampling and classifying as hazardous or non-hazardous; 2) the transport of up to 120 truckloads (2,742 cubic yards) of contaminated soil classified as hazardous to a State approved disposal facility; 3) relocation and backfilling of up to 10,865 tons of existing soil classified as non hazardous at the Site; 4) the installation of a cap of at least two feet of engineered-clean fill to cover the affected soils or concrete foundation; 5) the placement of a Land Use Covenant (LUC) on the property to prohibit activities that may disturb the cap without prior DTSC approval; and 6) operation and maintenance of the cap pursuant to a DTSC-approved plan. After implementation of the RAW, the District submitted the RACR on 1/17/2013. After several revisions, the RACR was approved on 5/29/2013.

DTSC and the District executed O&M Agreement and LUC on August 8, 2013. The LUC was recorded with the County of San Bernardino on August 22, 2013. On September 5, 2013, DTSC certified the Site for building a School.

Annual LUC inspection is currently ongoing.

#### Facilities Details

<b>Site Type 1:</b>	SCHOOL CLEANUP	<b>Funding:</b>	SCHOOL DISTRICT
<b>Site Type 2:</b>	SCHOOL	<b>Area:</b>	PROJECT WIDE
<b>Site Code:</b>	404554	<b>Sub Area:</b>	
<b>Special Program:</b>		<b>Date Recorded:</b>	8/8/2013
<b>National Priorities List:</b>	NO	<b>Assembly District:</b>	40
<b>Acres:</b>	8.3 ACRES		
<b>Status:</b>	CERTIFIED / OPERATION & MAINTENANCE		
<b>Cleanup Status:</b>	CERTIFIED / OPERATION & MAINTENANCE AS OF 9/5/2013		
<b>APN:</b>	NONE SPECIFIED		
<b>Summary Link:</b>	<a href="http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=60000045&amp;starttab=landuserestrictions">http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=60000045&amp;starttab=landuserestrictions</a>		
<b>CI Up Oversight AGCS:</b>	DTSC - SITE CLEANUP PROGRAM - LEAD		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Potential Cont. of Concern:</b>		LEAD; ORGANOCHLORINE PESTICIDES (8081 OCPS): Aldrin, Chlordane, DDD, DDE, DDT, Dieldrin, Endrin, Heptachlor; POLYCHLORINATED BIPHENYLS (PCBS)				
<b>Past Use(s) Caused Contaminants:</b>		RESIDENTIAL AREA				
<b>Potential Media Affected:</b>		SOIL				
<b>School District:</b>		SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT				
<b>Covenant Link:</b>		<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents.asp?cmd=radocuments&amp;global_id=60000045&amp;enforcement_id=60271091">http://www.envirostor.dtsc.ca.gov/public/final_documents.asp?cmd=radocuments&amp;global_id=60000045&amp;enforcement_id=60271091</a>				
<b>Completed Activities</b>						
<b>Activity Type:</b>	Completed Activities			<b>Date Completed:</b>	6/12/2009	
<b>Sub Area:</b>				<b>Area Name:</b>		
<b>Document Type:</b>	Fieldwork					
<b>Doc Link:</b>						
<b>Comments:</b>	DTSC, the District and consultant discussed the sampling results and the approach to the removal during a conference call.					
<b>Activity Type:</b>	Completed Activities			<b>Date Completed:</b>	3/24/2009	
<b>Sub Area:</b>				<b>Area Name:</b>		
<b>Document Type:</b>	Technical Workplan					
<b>Doc Link:</b>						
<b>Comments:</b>	Approved Technical Memorandum via email.					
<b>Activity Type:</b>	Completed Activities			<b>Date Completed:</b>	7/22/2004	
<b>Sub Area:</b>				<b>Area Name:</b>		
<b>Document Type:</b>	Site Inspections/Visit (Non LUR)					
<b>Doc Link:</b>						
<b>Comments:</b>						
<b>Activity Type:</b>	Completed Activities			<b>Date Completed:</b>	9/8/2016	
<b>Sub Area:</b>				<b>Area Name:</b>		
<b>Document Type:</b>	Annual Oversight Cost Estimate					
<b>Doc Link:</b>	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60412540">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60412540</a>					
<b>Comments:</b>						
<b>Activity Type:</b>	Completed Activities			<b>Date Completed:</b>	7/22/2014	
<b>Sub Area:</b>				<b>Area Name:</b>		
<b>Document Type:</b>	Land Use Restriction - Site Inspection/Visit					
<b>Doc Link:</b>	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60337327">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60337327</a>					
<b>Comments:</b>						
<b>Activity Type:</b>	Completed Activities			<b>Date Completed:</b>	5/29/2013	
<b>Sub Area:</b>				<b>Area Name:</b>		
<b>Document Type:</b>	Removal Action Completion Report					
<b>Doc Link:</b>	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60258182">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60258182</a>					
<b>Comments:</b>						
<b>Activity Type:</b>	Completed Activities			<b>Date Completed:</b>	12/3/2009	
<b>Sub Area:</b>				<b>Area Name:</b>		
<b>Document Type:</b>	School Cleanup Agreement					
<b>Doc Link:</b>	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=6017559">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=6017559</a>					
<b>Comments:</b>						
<b>Activity Type:</b>	Completed Activities			<b>Date Completed:</b>	10/13/2004	
<b>Sub Area:</b>				<b>Area Name:</b>		
<b>Document Type:</b>	Phase 1					
<b>Doc Link:</b>	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=6007317">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=6007317</a>					
<b>Comments:</b>	Phase 1 approved for further action (Phase 1 Addendum) to investigate structures onsite, pole mounted transformer locations.					
<b>Activity Type:</b>	Completed Activities			<b>Date Completed:</b>	6/12/2017	
<b>Sub Area:</b>				<b>Area Name:</b>		
<b>Document Type:</b>	Land Use Restriction Monitoring Report					
<b>Doc Link:</b>	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60374997">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60374997</a>					
<b>Comments:</b>	DTSC approved the Report.					
<b>Activity Type:</b>	Completed Activities			<b>Date Completed:</b>	9/5/2013	



<b>Map Key</b>	<b>Number of Records</b>	<b>Direction</b>	<b>Distance (mi/ft)</b>	<b>Elev/Diff (ft)</b>	<b>Site</b>	<b>DB</b>
<b>Sub Area:</b> <b>Document Type:</b> <b>Doc Link:</b> <b>Comments:</b>		Remedy Constructed <a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60332743">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60332743</a>		<b>Area Name:</b>		
<b>Activity Type:</b> <b>Sub Area:</b> <b>Document Type:</b> <b>Doc Link:</b> <b>Comments:</b>		Completed Activities  Removal Action Workplan <a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=6028486">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=6028486</a>		<b>Date Completed:</b> <b>Area Name:</b>		9/30/2010
<b>Activity Type:</b> <b>Sub Area:</b> <b>Document Type:</b> <b>Doc Link:</b> <b>Comments:</b>		Completed Activities  Annual Oversight Cost Estimate <a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60377849">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60377849</a>		<b>Date Completed:</b> <b>Area Name:</b>		8/28/2014
<b>Activity Type:</b> <b>Sub Area:</b> <b>Document Type:</b> <b>Doc Link:</b> <b>Comments:</b>		Completed Activities  Operations and Maintenance Report <a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60337325">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60337325</a>		<b>Date Completed:</b> <b>Area Name:</b>		7/16/2014
<b>Activity Type:</b> <b>Sub Area:</b> <b>Document Type:</b> <b>Doc Link:</b> <b>Comments:</b>		Completed Activities  Public Notice <a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60254491">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60254491</a>		<b>Date Completed:</b> <b>Area Name:</b>		9/30/2010
<b>Activity Type:</b> <b>Sub Area:</b> <b>Document Type:</b> <b>Doc Link:</b> <b>Comments:</b>		Completed Activities  Environmental Oversight Agreement <a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=6013719">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=6013719</a> Signed agreement sent (FedEx) to District.		<b>Date Completed:</b> <b>Area Name:</b>		6/1/2009
<b>Activity Type:</b> <b>Sub Area:</b> <b>Document Type:</b> <b>Doc Link:</b> <b>Comments:</b>		Completed Activities  Site Inspections/Visit (Non LUR)		<b>Date Completed:</b> <b>Area Name:</b>		8/25/2004
<b>Activity Type:</b> <b>Sub Area:</b> <b>Document Type:</b> <b>Doc Link:</b> <b>Comments:</b>		Completed Activities  Annual Oversight Cost Estimate <a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60431705">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60431705</a>		<b>Date Completed:</b> <b>Area Name:</b>		9/1/2017
<b>Activity Type:</b> <b>Sub Area:</b> <b>Document Type:</b> <b>Doc Link:</b> <b>Comments:</b>		Completed Activities  Land Use Restriction Monitoring Report <a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60366129">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60366129</a>		<b>Date Completed:</b> <b>Area Name:</b>		8/14/2015
<b>Activity Type:</b> <b>Sub Area:</b> <b>Document Type:</b> <b>Doc Link:</b> <b>Comments:</b>		Completed Activities  Correspondence <a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60264089">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60264089</a>		<b>Date Completed:</b> <b>Area Name:</b>		3/16/2011
<b>Activity Type:</b> <b>Sub Area:</b> <b>Document Type:</b> <b>Doc Link:</b> <b>Comments:</b>		Completed Activities  Operation & Maintenance Order/Agreement <a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60271092">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60271092</a>		<b>Date Completed:</b> <b>Area Name:</b>		8/8/2013
<b>Activity Type:</b> <b>Sub Area:</b> <b>Document Type:</b> <b>Doc Link:</b>		Completed Activities  Land Use Restriction <a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60271091">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60271091</a>		<b>Date Completed:</b> <b>Area Name:</b>		8/8/2013

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Comments:		DTSC signed the document and forwarded to the District for filing with the San Bernardino County Recorder's Office.				
Activity Type:	Completed Activities			Date Completed:	11/16/2011	
Sub Area:				Area Name:		
Document Type:	Correspondence					
Doc Link:	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60284728">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60284728</a>					
Comments:						
Activity Type:	Completed Activities			Date Completed:	11/15/2010	
Sub Area:				Area Name:		
Document Type:	CEQA - Notice of Exemption					
Doc Link:	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60254197">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60254197</a>					
Comments:						
Activity Type:	Completed Activities			Date Completed:	9/30/2010	
Sub Area:				Area Name:		
Document Type:	Community Profile					
Doc Link:	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60254494">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60254494</a>					
Comments:						
Activity Type:	Completed Activities			Date Completed:	8/19/2016	
Sub Area:				Area Name:		
Document Type:	Land Use Restriction Monitoring Report					
Doc Link:	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60374993">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60374993</a>					
Comments:						
Activity Type:	Completed Activities			Date Completed:	9/17/2015	
Sub Area:				Area Name:		
Document Type:	Annual Oversight Cost Estimate					
Doc Link:	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60401116">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;enforcement_id=60401116</a>					
Comments:						
Activity Type:	Completed Activities			Date Completed:	9/29/2010	
Sub Area:				Area Name:		
Document Type:	Fact Sheets					
Doc Link:	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60254492">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=60254492</a>					
Comments:						
Activity Type:	Completed Activities			Date Completed:	5/20/2010	
Sub Area:				Area Name:		
Document Type:	Preliminary Endangerment Assessment Report					
Doc Link:	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=6013799">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=6013799</a>					
Comments:						
Activity Type:	Completed Activities			Date Completed:	11/13/2006	
Sub Area:				Area Name:		
Document Type:	4.14 Request					
Doc Link:	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=6013734">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=60000045&amp;doc_id=6013734</a>					
Comments:						
DTSC accepted the 4.14 form. A deliverable of the Addendum will be scheduled to keep the project active until the District is ready to complete the investigation process.						
<u>Future Activites</u>						
Activity Type:	Future Activities			Due Date:	2019	
Sub Area:				Area Name:		
Document Type:	5 Year Review Reports					
<u>Land Use Restrictions</u>						
Area:				Date Recorded:	8/8/2013	
Sub Area:						
Site Management Req.:	ASPHALT COVER NOT TO BE DISTURBED WITHOUT APPROVAL; REQUIRES SURFACE COVERS; ELDER CARE CENTER PROHIBITED; NO EXCAVATION OF CONTAMINATED SOILS WITHOUT AGENCY REVIEW AND APPROVAL; RAISING OF FOOD PROHIBITED; CHECK FOR CRACKS IN FOUNDATION; NO GROUNDWATER EXTRACTION AT ANY DEPTH WITHOUT APPROVAL; HOSPITAL USE PROHIBITED; PERFORM H&S PLAN PRIOR TO SUBSURFACE WORK; LAND USE COVENANT: NOTIFY PRIOR TO					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Covenant:</b>		DEVELOPMENT; NO EXCAVATION OR ACTIVITIES WHICH DISTURB THE SOIL BELOW A SPECIFIED DEPTH (SEE COVENANT FOR DEPTH) WITHOUT AGENCY REVIEW AND APPROVAL OF A SOIL MANAGEMENT PLAN; NOTIFY AFTER CHANGE OF PROPERTY OWNER; NOTIFY PRIOR TO SUBSURFACE WORK; NOTIFY PRIOR TO CHANGE IN LAND USE; NO OIL OR GAS EXTRACTION AT ANY DEPTH; ACTIVITIES PROHIBITED WHICH DISTURB THE REMEDY AND MONITORING SYSTEMS WITHOUT APPROVAL; RESIDENCE USE PROHIBITED; http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?cmd=radocuments&global_id=60000045&enforcement_id=60271091				

<a href="#">19</a>	1 of 2	SSE	0.77 / 4,074.28	1,108.01 / -48	LINCOLN II NORTH ELEMENTARY SCHOOL ARROWHEAD AVE./BASELINE ST. SAN BERNARDINO CA 92405	ENVIROSTOR
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<b>Estor/EPA ID:</b>	36000003	<b>Funding:</b>	SCHOOL DISTRICT
<b>Site Type:</b>	SCHOOL	<b>County:</b>	SAN BERNARDINO
<b>Site Code:</b>	404547	<b>Assembly District:</b>	40
<b>Ntnl Priority List:</b>	NO	<b>Senate District:</b>	23
<b>Acres:</b>	11 ACRES	<b>Latitude:</b>	34.1223
<b>Special Program:</b>	VOLUNTARY CLEANUP PROGRAM	<b>Longitude:</b>	-117.2908
<b>Address Desc:</b>	ARROWHEAD AVE./BASELINE ST.		
<b>Address Desc 2:</b>	Arrowhead Ave./Baseline St.		
<b>Clean Up Status:</b>	INACTIVE - NEEDS EVALUATION AS OF 1/26/2006		
<b>Clean Up Oversight Agencies:</b>			
<b>School District:</b>	SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT		
<b>Program Type:</b>	DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY		
<b>Past Caused Contamination:</b>	UNKNOWN		
<b>APN:</b>	NONE SPECIFIED		
<b>Potential Media Affected:</b>	NONE SPECIFIED		
<b>Potential Contaminants:</b>			

NONE SPECIFIED

#### Site History:

An industrial property utilized for a gas station, dry cleaners and other light industrial usage.

#### Facility Information

<b>Program Type:</b>	SCHOOL EVALUATION
<b>Status:</b>	INACTIVE - NEEDS EVALUATION
<b>Summary Link:</b>	<a href="http://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=36000003">http://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=36000003</a>

#### Completed Activities

<b>Activity Type:</b>	Completed Activities
<b>Area Name:</b>	
<b>Sub Area:</b>	
<b>Date Completed:</b>	12/8/2005
<b>Document Type:</b>	Inactive Status Letter
<b>Doc Link:</b>	
<b>Comments:</b>	

<b>Activity Type:</b>	Completed Activities
<b>Area Name:</b>	
<b>Sub Area:</b>	
<b>Date Completed:</b>	6/17/2005
<b>Document Type:</b>	Inactive Status Letter
<b>Doc Link:</b>	
<b>Comments:</b>	

<b>Activity Type:</b>	Completed Activities
<b>Area Name:</b>	
<b>Sub Area:</b>	
<b>Date Completed:</b>	6/29/2004



Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<b>Document Type:</b>		Phase 1				
<b>Doc Link:</b>		<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=36000003&amp;doc_id=6004578">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=36000003&amp;doc_id=6004578</a>				
<b>Comments:</b>						
<b>Activity Type:</b>		Completed Activities				
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>		8/19/2004				
<b>Document Type:</b>		Environmental Oversight Agreement				
<b>Doc Link:</b>		<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=36000003&amp;enforcement_id=6004575">http://www.envirostor.dtsc.ca.gov/public/final_documents2?global_id=36000003&amp;enforcement_id=6004575</a>				
<b>Comments:</b>						
<b>Activity Type:</b>		Completed Activities				
<b>Area Name:</b>						
<b>Sub Area:</b>						
<b>Date Completed:</b>		3/4/2005				
<b>Document Type:</b>		Preliminary Endangerment Assessment Workplan				
<b>Doc Link:</b>						
<b>Comments:</b>						

<a href="#">19</a>	2 of 2	SSE	0.77 / 4,074.28	1,108.01 / -48	LINCOLN II NORTH ELEMENTARY SCHOOL ARROWHEAD AVE./BASELINE ST. SAN BERNARDINO CA 92405	SCH
<b>ESTOR/EPA ID:</b>		36000003				
<b>Site Code:</b>		404547				
<b>Status:</b>		INACTIVE - NEEDS EVALUATION				
<b>Cleanup Status:</b>		INACTIVE - NEEDS EVALUATION AS OF 1/26/2006				
<b>Program Type:</b>		SCHOOL EVALUATION				
<b>Site Type:</b>		SCHOOL				
<b>National Priorities List:</b>		NO				
<b>CI Up Oversight Agencies:</b>		DTSC - SITE CLEANUP PROGRAM - LEAD AGENCY				
<b>County:</b>		SAN BERNARDINO				
<b>Special Program:</b>		VOLUNTARY CLEANUP PROGRAM				
<b>Funding:</b>		SCHOOL DISTRICT				
<b>APN:</b>		NONE SPECIFIED				
<b>Past Use Caused Contam:</b>		UNKNOWN				
<b>Potential Contam of Cncrn:</b>						
<b>Potential Media Affected:</b>		NONE SPECIFIED				
<b>Acres:</b>		11 ACRES				
<b>School District:</b>		SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT				
<b>Summary Link:</b>		<a href="http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=36000003">http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=36000003</a>				
<b>Assembly District:</b>		40				
<b>Senate District:</b>		23				
<b>Latitude:</b>		34.1223				
<b>Longitude:</b>		-117.2908				
<b>SITE HISTORY:</b>						

An industrial property utilized for a gas station, dry cleaners and other light industrial usage.

#### Completed Activities

<b>Date Completed:</b>	8/19/2004	<b>Area Name:</b>	
<b>Document Type:</b>	Environmental Oversight Agreement	<b>Sub Area:</b>	
<b>Doc Link:</b>	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36000003&amp;enforcement_id=6004575">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36000003&amp;enforcement_id=6004575</a>		
<b>Comments:</b>			
<b>Date Completed:</b>	6/17/2005	<b>Area Name:</b>	
<b>Document Type:</b>	Inactive Status Letter	<b>Sub Area:</b>	
<b>Doc Link:</b>			
<b>Comments:</b>			
<b>Date Completed:</b>	3/4/2005	<b>Area Name:</b>	
<b>Document Type:</b>	Preliminary Endangerment Assessment Workplan	<b>Sub Area:</b>	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<hr/>						
<b>Doc Link:</b>						
<b>Comments:</b>						
<b>Date Completed:</b>	12/8/2005				<b>Area Name:</b>	
<b>Document Type:</b>	Inactive Status Letter				<b>Sub Area:</b>	
<b>Doc Link:</b>						
<b>Comments:</b>						
<b>Date Completed:</b>	6/29/2004				<b>Area Name:</b>	
<b>Document Type:</b>	Phase 1				<b>Sub Area:</b>	
<b>Doc Link:</b>	<a href="http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36000003&amp;doc_id=6004578">http://www.envirostor.dtsc.ca.gov/public/final_documents2.asp?global_id=36000003&amp;doc_id=6004578</a>					
<b>Comments:</b>						

## Unplottable Summary

Total: 3 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
EMISSIONS	MT. VIEW CEMETARY OF SAN BERNARDINO	302 HIGHLAND AVE	SAN BERNARDINO CA	92404	861222020
HAZNET	SAN BERNARDINO CITY USD/HIGH SCHOOL	SE CRNR OF PENNSYLVANIA & BASELINE	SAN BERNARDINO CA	924110000	826268285
RCRA SQG	EXPRESS PRINTING	396 HIGHLAND AVE	SAN BERNARDINO CA	92405	810611176



# Unplottable Report

**Site:** MT. VIEW CEMETARY OF SAN BERNA  
302 HIGHLAND AVE SAN BERNARDINO CA 92404

EMISSIONS

## 1987 Criteria Data

<b>Facility ID:</b>	8660	<b>CERR Code:</b>	
<b>Facility SIC Code:</b>	7261	<b>TOGT:</b>	
<b>CO:</b>	36	<b>ROGT:</b>	
<b>Air Basin:</b>	SC	<b>COT:</b>	
<b>District:</b>	SC	<b>NOXT:</b>	
<b>COID:</b>	SBD	<b>SOXT:</b>	
<b>DISN:</b>	SOUTH COAST AQMD	<b>PMT:</b>	0
<b>CHAPIS:</b>		<b>PM10T:</b>	0

## 1987 Toxic Data

<b>Facility ID:</b>	8660	<b>COID:</b>	SBD
<b>Facility SIC Code:</b>	7261	<b>DISN:</b>	SOUTH COAST AQMD
<b>CO:</b>	36	<b>CHAPIS:</b>	
<b>Air Basin:</b>	SC	<b>CERR Code:</b>	
<b>District:</b>	SC		
<b>TS:</b>			
<b>Health Risk Asmt:</b>			
<b>Non-Cancer Chronic Haz Ind:</b>			
<b>Non-Cancer Acute Haz Ind:</b>			

**Site:** SAN BERNARDINO CITY USD/HIGH SCHOOL  
SE CRNR OF PENNSYLVANIA & BASELINE SAN BERNARDINO CA 924110000

HAZNET

<b>SIC Code:</b>		<b>Mailing City:</b>	SAN BERNARDINO
<b>NAICS Code:</b>		<b>Mailing State:</b>	CA
<b>EPA ID:</b>	CAC001396456	<b>Mailing Zip:</b>	924110000
<b>Create Date:</b>	5/7/1998	<b>Region Code:</b>	4
<b>Fac Act Ind:</b>	No	<b>Owner Name:</b>	SAN BERNARDINO CITY USD
<b>Inact Date:</b>	10/25/2000	<b>Owner Addr 1:</b>	956 W 9TH ST
<b>County Code:</b>	36	<b>Owner Addr 2:</b>	
<b>County Name:</b>	San Bernardino	<b>Owner City:</b>	SAN BERNARDINO
<b>Mail Name:</b>	BUILDING SERVICES	<b>Owner State:</b>	CA
<b>Mailing Addr 1:</b>	956 W 9TH ST	<b>Owner Zip:</b>	924110000
<b>Mailing Addr 2:</b>		<b>Owner Phone:</b>	9093811100
<b>Owner Fax:</b>			

## Contact Information

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<b>Contact Name:</b>	BOB LEON-MAINTENANCE MGR
<b>Street Address 1:</b>	956 W 9TH ST
<b>Street Address 2:</b>	
<b>City:</b>	SAN BERNARDINO
<b>State:</b>	CA
<b>Zip:</b>	924110000
<b>Phone:</b>	9093886100

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## Tanner Information

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<b>Generator EPA ID:</b>	CAC001396456
<b>Generator County Code:</b>	36
<b>Generator County:</b>	San Bernardino

**TSD EPA ID:** CAD009007626  
**TSD County Code:** 19  
**TSD County:** Los Angeles  
**State Waste Code:** 151  
**State Waste Code Desc.:** Asbestos containing waste  
**Method Code:** D80  
**Method Description:** Disposal, landfill  
**Tons:** 0.8428  
**Year:** 1998  
**--**

**Site:** **EXPRESS PRINTING**  
**396 HIGHLAND AVE SAN BERNARDINO CA 92405**

RCRA SQG

**EPA Handler ID:** CAR000071324  
**Land Type Code:** P  
**Land Type Desc:** Private  
**Federal Waste Generator Code:** 2  
**Gen Status Univ:** SQG  
**Gen Status Univ Desc:** Small Quantity Generator  
**Importer Activity:** No  
**Mixed Waste Generator:** No  
**Transporter Activity:** No  
**Transfer Facility:** No  
**Recycler Activity:** No  
**Onsite Burner Exemption:** No  
**Furnace Exemption:** No  
**Underground Inject Activity:** No  
**Receives Waste from Offsite:** No  
**TSD Type:** -----  
**TSD Activity:** No  
**Corrective Action Univ:** No  
**Action has been Imposed:** No  
**Action under 3004 (U)/(V):** No  
**Institutional Control Indicator:** N  
**Used Oil Transporter:**  
**Used Oil Transfer Facility:**  
**Used Oil Processor:**  
**Used Oil Refiner:**  
**Used Oil Burner:**  
**Used Oil Market Burner:**  
**Used Oil Spec Marketer:**  
**Activity Location:** CA  
**County Code:** CA071  
**County Name:** SAN BERNARDINO  
**Contact Name:** DONALD SPOCK  
**Contact Phone No and Exten:** 909-883-0766  
**Contact Email:**  
**Contact Address:** 396 HIGHLAND AVE , SAN BERNARDINO , CA, 92405 , US  
**Mailing Address:** 396 HIGHLAND AVE , SAN BERNARDINO , CA, 92405 , US

**Violation/Evaluation Summary**

**Note:** As of Jan 24 2018, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

**Handler Details**

<b>Source Type:</b>	N	<b>Used Oil Transporter:</b>	No
<b>Receive Date:</b>	20000424	<b>UO Transfer Fac:</b>	No
<b>Non Notifier:</b>		<b>Used Oil Processor:</b>	No
<b>Acknowledge Flag:</b>		<b>Used Oil Refiner:</b>	No
<b>Acknowledge Date:</b>	20000425	<b>Used Oil Burner:</b>	No
<b>Accessibility:</b>		<b>UO Market Burner:</b>	No
<b>Land Type:</b>	P	<b>UO Spec Marketer:</b>	No
<b>Fed Waste Gen Own:</b>	HQ	<b>Current Site Name:</b>	EXPRESS PRINTING
<b>Fed Waste Gen Cd:</b>	2	<b>Location Street No:</b>	
<b>Fed Waste Gen Desc:</b>	Small Quantity Generator	<b>Location Street 1:</b>	396 HIGHLAND AVE

**ST Waste Gen Own:**  
**State Waste Gen Cd:**  
**Short Term Gen:** No  
**Importer Activity:** No  
**Mixed Waste Gen:** No  
**Transporter:** No  
**Transfer Facility:** No  
**TSD Activity:** No  
**Recycler Activity:** No  
**Onsite Burn Exempt:** No  
**Furnace Exemption:** No  
**Underground Inject:** No  
**Off Site Receipt:** No  
**Waste Dest Fac:** No  
**Subpart K College:**  
**Subpart K Hospital:**  
**Subpart K Non Profit:**  
**Subpart K Withdraw:**  
**Include Ntnl Rprt:**  
**Reporting Cycle:**  
**LQHUW:** No  
**Trader Importer:**  
**Trader Exporter:**  
**Slab Importer:**  
**Slab Exporter:**  
**Current Record:** Yes  
**Location Country:** US  
**State District Owner:**

**Location Street 2:**  
**Location City:** SAN BERNARDINO  
**Location State:** CA  
**Location Zip Code:** 92405  
**County Code:** CA071  
**State District:**  
**Mailing Street No:**  
**Mailing Street 1:** 396 HIGHLAND AVE  
**Mailing Street 2:**  
**Mailing City:** SAN BERNARDINO  
**Mailing State:** CA  
**Mailing Zip Code:** 92405  
**Mailing Country:** US  
**Contact First Name:** DONALD  
**Contact Middle Initial:**  
**Contact Last Name:** SPOCK  
**Contact Street No:**  
**Contact Street 1:** 396 HIGHLAND AVE  
**Contact Street 2:**  
**Contact City:** SAN BERNARDINO  
**Contact State:** CA  
**Contact Zip:** 92405  
**Contact Country:** US  
**Contact Phone:** 909-883-0766  
**Contact Phone Ext:**  
**Contact Fax:**  
**Contact Email Addr:**  
**Contact Title:**

#### Hazardous Waste Details

**Haz Waste Cd Owner:** HQ  
**Haz Waste Cd:** D001  
**BR Waste Code Active Status:** Yes  
**Waste Code Active Status:** Yes  
**Waste Code Desc:** IGNITABLE WASTE

**Source Type:** N  
**Code Type:** D

**Haz Waste Cd Owner:** HQ  
**Haz Waste Cd:** D039  
**BR Waste Code Active Status:** Yes  
**Waste Code Active Status:** Yes  
**Waste Code Desc:** TETRACHLOROETHYLENE

**Source Type:** N  
**Code Type:** D

**Haz Waste Cd Owner:** HQ  
**Haz Waste Cd:** D000  
**BR Waste Code Active Status:** No  
**Waste Code Active Status:** No  
**Waste Code Desc:** DESCRIPTION

**Source Type:** N  
**Code Type:** D

**Haz Waste Cd Owner:** HQ  
**Haz Waste Cd:** D011  
**BR Waste Code Active Status:** Yes  
**Waste Code Active Status:** Yes  
**Waste Code Desc:** SILVER

**Source Type:** N  
**Code Type:** D

#### Owner/Operator Details

**Owner/Operator Ind:** CO  
**Name:** EXPRESS PRINTING  
**Street No:**  
**Street 1:** 396 HIGHLAND AVE  
**Street 2:**  
**City:** SAN BERNARDINO  
**State:** CA  
**Source Type:** N

**Country:**  
**Zip Code:** 92405  
**Phone:** 909-883-0766  
**Type:** P  
**Date Became Current:**  
**Date Ended Current:**



## Appendix: Database Descriptions

*Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13, Section 8.1.8 Sources of Standard Source Information:*

*"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."*

### Standard Environmental Record Sources

#### Federal

##### National Priority List:

NPL

National Priorities List (Superfund)-NPL: EPA's (United States Environmental Protection Agency) list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action.

**Government Publication Date: Feb 6, 2018**

##### National Priority List - Proposed:

PROPOSED NPL

Includes sites proposed (by the EPA, the state, or concerned citizens) for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

**Government Publication Date: Feb 6, 2018**

##### Deleted NPL:

DELETED NPL

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

**Government Publication Date: Feb 6, 2018**

##### SEMS List 8R Active Site Inventory:

SEMS

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

**Government Publication Date: Dec 11, 2017**

##### SEMS List 8R Archive Sites:

SEMS ARCHIVE

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

**Government Publication Date: Dec 11, 2017**

##### Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS:

CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

**Government Publication Date: Oct 25, 2013**

**CERCLIS - No Further Remedial Action Planned:**[CERCLIS NFRAP](#)

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

**Government Publication Date: Oct 25, 2013**

**CERCLIS Liens:**[CERCLIS LIENS](#)

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA).

**Government Publication Date: Jan 30, 2014**

**RCRA CORRACTS-Corrective Action:**[RCRA CORRACTS](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

**Government Publication Date: Jan 24, 2018**

**RCRA non-CORRACTS TSD Facilities:**[RCRA TSD](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

**Government Publication Date: Jan 24, 2018**

**RCRA Generator List:**[RCRA LQG](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

**Government Publication Date: Jan 24, 2018**

**RCRA Small Quantity Generators List:**[RCRA SQG](#)

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

**Government Publication Date: Jan 24, 2018**

**RCRA Conditionally Exempt Small Quantity Generators List:**[RCRA CESQG](#)

RCRA Info is the EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Conditionally Exempt Small Quantity Generators (CESQG) generate 100 kilograms or less per month of hazardous waste or one kilogram or less per month of acutely hazardous waste.

**Government Publication Date: Jan 24, 2018**

**RCRA Non-Generators:**[RCRA NON GEN](#)

RCRA Info is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

**Government Publication Date: Jan 24, 2018**

**Federal Engineering Controls-ECs:**

FED ENG

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

**Government Publication Date:** Jan 20, 2016

**Federal Institutional Controls- ICs:**

FED INST

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency ) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

**Government Publication Date:** Jan 20, 2016

**Emergency Response Notification System:**

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

**Government Publication Date:** 1982-1986

**Emergency Response Notification System:**

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

**Government Publication Date:** 1987-1989

**Emergency Response Notification System:**

ERNS

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories. This database is made available by the United States Environmental Protection Agency (EPA).

**Government Publication Date:** Feb 8, 2017

**The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:**

FED BROWNFIELDS

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

**Government Publication Date:** Feb 20, 2018

**FEMA Underground Storage Tank Listing:**

FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

**Government Publication Date:** Dec 31, 2017

**LIEN on Property:**

SEMS LIEN

The EPA Superfund Enterprise Management System (SEMS) provides LIEN information on properties under the EPA Superfund Program.

**Government Publication Date:** Dec 11, 2017

**State****State Response Sites:**

RESPONSE

A list of identified confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. This database is state equivalent NPL.

**Government Publication Date:** Sep 22, 2017

**EnviroStor Database:**

ENVIROSTOR

The EnviroStor Data Management System is made available by the Department of Toxic Substances Control (DTSC). Includes Corrective Action sites, Tiered Permit sites, Historical Sites and Evaluation/Investigation sites. This database is state equivalent CERCLIS.

**Government Publication Date:** Dec 21, 2017

**Delisted EnviroStor Database:**

[DELISTED ENVS](#)

Sites removed from the list of facilities made available by the EnviroStor Data Management System, Department of Toxic Substances Control (DTSC).

**Government Publication Date:** Sep 22, 2017

**Solid Waste Information System (SWIS):**

[SWF/LF](#)

The Solid Waste Information System (SWIS) database made available by the Department of Resources Recycling and Recovery (CalRecycle) contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites.

**Government Publication Date:** Jan 31, 2018

**EnviroStor Hazardous Waste Facilities:**

[HWP](#)

A list of hazardous waste facilities including permitted, post-closure and historical facilities found in the Department of Toxic Substances Control (DTSC) EnviroStor database.

**Government Publication Date:** Jan 30, 2018

**Land Disposal Sites:**

[LDS](#)

Land Disposal Sites in GeoTracker, the State Water Resources Control Board (SWRCB)'s data management system. The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units. Waste management units include waste piles, surface impoundments, and landfills.

**Government Publication Date:** Dec 04, 2017

**Leaking Underground Fuel Tank Reports:**

[LUST](#)

List of Leaking Underground Storage Tanks within the Cleanup Sites data in GeoTracker database. GeoTracker is the State Water Resources Control Board's (SWRCB) data management system for managing sites that impact groundwater, especially those that require groundwater cleanup (Underground Storage Tanks, Department of Defense and Site Cleanup Program) as well as permitted facilities such as operating Underground Storage Tanks. The Leak Prevention Program that overlooks LUST sites is the SWRCB in California's Environmental Protection Agency.

**Government Publication Date:** Dec 27, 2017

**Delisted Leaking Storage Tanks:**

[DELISTED LST](#)

List of Leaking Underground Storage Tanks (LUST) cleanup sites removed from GeoTracker, the State Water Resources Control Board (SWRCB)'s database system, as well as sites removed from the SWRCB's list of UST Case closures.

**Government Publication Date:** Jan 31, 2018

**Permitted Underground Storage Tank (UST) in GeoTracker:**

[UST](#)

List of Permitted Underground Storage Tank (UST) sites made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA).

**Government Publication Date:** Mar 11, 2018

**Proposed Closure of Underground Storage Tank Cases:**

[UST CLOSURE](#)

List of UST cases that are being considered for closure by either the California Environmental Protection Agency, State Water Resources Control Board or the Executive Director that have been posted for a 60-day public comment period.

**Government Publication Date:** Jan 31, 2018

**Historical Hazardous Substance Storage Information Database:**

[HHSS](#)

The Historical Hazardous Substance Storage database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon self-reported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker.

**Government Publication Date:** Aug 27, 2015

**Aboveground Storage Tanks:**

[AST](#)

A statewide list from 2009 of aboveground storage tanks (ASTs) made available by the Cal FIRE Office of the State Fire Marshal (OSFM). This list is no longer maintained or updated by the Cal FIRE OSFM.



**Delisted Storage Tanks:**

DELISTED TNK

This database contains a list of storage tank sites that were removed by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA) and the Cal FIRE Office of State Fire Marshal (OSFM).

Government Publication Date: Mar 11, 2018

**California Environmental Reporting System (CERS) Tanks:**

CERS TANK

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Jan 4, 2018

**Delisted Environmental Reporting System (CERS) Hazardous Waste Sites:**

DELISTED HAZ

This database contains a list of sites that were removed from the California Environmental Protection Agency (CalEPA) in the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator.

Government Publication Date: Jan 4, 2018

**Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions:**

LUR

The Department of Toxic Substances Control (DTSC) Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents land use restrictions that are active. Some sites have multiple land use restrictions.

Government Publication Date: Sep 12, 2017

**Hazardous Waste Management Program Facility Sites with Deed / Land Use Restrictions:**

HLUR

The Department of Toxic Substances Control (DTSC) Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Government Publication Date: Feb 18, 2018

**Deed Restrictions and Land Use Restrictions:**

DEED

List of Deed Restrictions, Land Use Restrictions and Covenants in GeoTracker made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency. A deed restriction (land use covenant) may be required to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

Government Publication Date: Jan 11, 2018

**Voluntary Cleanup Program:**

VCP

List of sites in the Voluntary Cleanup Program made available by the Department of Toxic Substances and Control (DTSC). The Voluntary Cleanup Program was designed to respond to lower priority sites. Under the Voluntary Cleanup Program, DTSC enters site-specific agreements with project proponents for DTSC oversight of site assessment, investigation, and/or removal or remediation activities, and the project proponents agree to pay DTSC's reasonable costs for those services.

Government Publication Date: Sep 7, 2017

**GeoTracker Cleanup Sites Data:**

CLEANUP SITES

A list of cleanup sites in the state of California made available by The State Water Resources Control Board (SWRCB) of the California Environmental Protection Agency (EPA). SWRCB tracks leaking underground storage tank cleanups as well as other water board cleanups.

Government Publication Date: Dec 27, 2017

**California Environmental Reporting System (CERS) Hazardous Waste Sites:**

CERS HAZ

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Jan 4, 2018

**Delisted California Environmental Reporting System (CERS) Tanks:**

[DELISTED CTNK](#)

This database contains a list of Aboveground Petroleum Storage and Underground Storage Tank sites that were removed from in the California Environmental Protection Agency (CalEPA) Regulated Site Portal.

**Government Publication Date:** Jan 4, 2018

**Historical Hazardous Substance Storage Container Information - Facility Summary:**

[HIST TANK](#)

The State Water Resources Control Board maintained the Hazardous Substance Storage Containers listing and inventory in the 1980s. This facility summary lists historic tank sites where the following container types were present: farm motor vehicle fuel tanks; waste tanks; sumps; pits, ponds, lagoons, and others; and all other product tanks. This set, published in May 1988, lists facility and owner information, as well as the number of containers. This data is historic and will not be updated.

**Government Publication Date:** May 27, 1988

**Tribal**

**Leaking Underground Storage Tanks (LUSTs) on Indian Lands:**

[INDIAN LUST](#)

LUSTs on Tribal/Indian Lands in Region 9, which includes California.

**Government Publication Date:** Apr 13, 2017

**Underground Storage Tanks (USTs) on Indian Lands:**

[INDIAN UST](#)

USTs on Tribal/Indian Lands in Region 9, which includes California.

**Government Publication Date:** Apr 13, 2017

**Delisted Tribal Leaking Storage Tanks:**

[DELISTED ILST](#)

Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.

**Government Publication Date:** Aug 3, 2017

**Delisted Tribal Underground Storage Tanks:**

[DELISTED IUST](#)

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

**Government Publication Date:** Aug 3, 2017

**County**

**Delisted County Records:**

[DELISTED COUNTY](#)

Records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

**Government Publication Date:** Mar 6, 2018

**San Bernardino County CUPA List:**

[SANBERN CUPA](#)

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in San Bernardino County. This list is made available by San Bernardino County Fire Department which is the CUPA for all areas of the County except the city of Victorville.

**Government Publication Date:** Jan 23, 2018

**Additional Environmental Record Sources**

**Federal**

**Facility Registry Service/Facility Index:**

[FINDS/FRS](#)

The US Environmental Protection Agency (EPA)'s Facility Registry System (FRS) is a centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, data collected from EPA's Central Data Exchange registrations and data management personnel.

**Government Publication Date:** Dec 12, 2017

**Toxics Release Inventory (TRI) Program:**

TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

**Government Publication Date:** Dec 31, 2016

**Hazardous Materials Information Reporting System:**

HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

**Government Publication Date:** Sep 11, 2017

**National Clandestine Drug Labs:**

NCDL

The U.S. Department of Justice ("the Department") provides this data as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumps. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy.

**Government Publication Date:** Dec 21, 2017

**Inventory of Open Dumps, June 1985:**

ODI

The Resource Conservation and Recovery Act (RCRA of the Act) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

**Government Publication Date:** Jun 1985

**EPA Report on the Status of Open Dumps on Indian Lands:**

IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

**Government Publication Date:** Dec 31, 1998

**Toxic Substances Control Act:**

TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

**Government Publication Date:** Jun 30, 2017

**Hist TSCA:**

HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

**Government Publication Date:** Dec 31, 2006

**FTTS Administrative Case Listing:**

FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

**Government Publication Date:** Jan 19, 2007

**FTTS Inspection Case Listing:**

FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

**Potentially Responsible Parties List:**

PRP

Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.

Government Publication Date: Oct 10, 2017

**State Coalition for Remediation of Drycleaners Listing:**

SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Government Publication Date: Nov 08, 2017

**Integrated Compliance Information System (ICIS):**

ICIS

The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.

Government Publication Date: Nov 18, 2016

**Drycleaner Facilities:**

FED DRYCLEANERS

A list of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Sep 14, 2016

**Delisted Drycleaner Facilities:**

DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: Sep 14, 2016

**Formerly Used Defense Sites:**

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.

Government Publication Date: Nov 22, 2016

**Material Licensing Tracking System (MLTS):**

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: Sep 13, 2016

**Historic Material Licensing Tracking System (MLTS) sites:**

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

**Mines Master Index File:**

MINES

The Master Index File (MIF) contains mine identification numbers issued by the Department of Labor Mine Safety and Health Administration (MSHA) for mines active or opened since 1971. Note that addresses may or may not correspond with the physical location of the mine itself.

Government Publication Date: Jul 31, 2017

**Alternative Fueling Stations:**

ALT FUELS



List of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE). The National Renewable Energy Laboratory (NREL) obtains information about new stations from trade media, Clean Cities coordinators, a Submit New Station form on the Station Locator website, and through collaborating with infrastructure equipment and fuel providers, original equipment manufacturers (OEMs), and industry groups.

**Government Publication Date:** Feb 6, 2018

**Superfund Decision Documents:**

**SUPERFUND ROD**

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

**Government Publication Date:** Jan 9, 2018

**Registered Pesticide Establishments:**

**SSTS**

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

**Government Publication Date:** Mar 1, 2018

**Polychlorinated Biphenyl (PCB) Notifiers:**

**PCB**

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

**Government Publication Date:** Nov 30, 2017

**State**

**EnviroStor Inspection, Compliance, and Enforcement:**

**INSP COMP ENF**

A list of permitted facilities with inspections and enforcements tracked in the Department of Toxic Substance Control (DTSC) EnviroStor.

**Government Publication Date:** Nov 24, 2017

**Clandestine Drug Lab Sites:**

**CDL**

The Department of Toxic Substances Control (DTSC) maintains a listing of drug lab sites. DTSC is responsible for removal and disposal of hazardous substances discovered by law enforcement officials while investigating illegal/ clandestine drug laboratories.

**Government Publication Date:** Jun 30, 2017

**School Property Evaluation Program Sites:**

**SCH**

A list of sites registered with The Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup (SPEC) Division. SPEC is responsible for assessing, investigating and cleaning up proposed school sites. The Division ensures that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school.

**Government Publication Date:** Sep 20, 2017

**California Hazardous Material Incident Report System (CHMIRS):**

**CHMIRS**

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS). This list has been made available by the California Office of Emergency Services (OES).

**Government Publication Date:** Aug 21, 2017

**Sites Listed in the Solid Waste Assessment Test (SWAT) Program Report:**

**SWAT**

In a 1993 Memorandum of Understanding, the State Water Resources Control Board (SWRCB) agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board (CIWMB). This report summarizes the work completed to date on the SWAT Program, and addresses both the impacts that leakage from solid waste disposal sites (SWDS) may have upon waters of the State and the actions taken to address such leakage.

**Government Publication Date:** Dec 31, 1995

**Hazardous Waste Manifest Data:**

HAZNET

A list of hazardous waste manifests received each year by Department of Toxic Substances Control (DTSC). The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

**Government Publication Date:** Oct 24, 2016

**Solid Waste Disposal Sites with Waste Constituents Above Hazardous Waste Levels:**

SWRCB SWF

This is a list of solid waste disposal sites identified by California State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit.

**Government Publication Date:** Sep 20, 2006

**Hazardous Waste and Substances Site List - Site Cleanup:**

HWSS CLEANUP

The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements in providing information about the location of hazardous materials release sites. This list is published by California Department of Toxic Substance Control.

**Government Publication Date:** Feb 1, 2018

**List of Hazardous Waste Facilities Subject to Corrective Action:**

DTSC HWF

This is a list of hazardous waste facilities identified in Health and Safety Code (HSC) § 25187.5. These facilities are those where Department of Toxic Substances Control (DTSC) has taken or contracted for corrective action because a facility owner/operator has failed to comply with a date for taking corrective action in an order issued under HSC § 25187, or because DTSC determined that immediate corrective action was necessary to abate an imminent or substantial endangerment.

**Government Publication Date:** Jul 18, 2016

**Historical Hazardous Waste Manifest Data:**

HIST MANIFEST

A list of historic hazardous waste manifests received by the Department of Toxic Substances Control (DTSC) from year the 1980 to 1992. The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

**Government Publication Date:** Dec 31, 1992

**Historical California Hazardous Material Incident Report System (CHMIRS):**

HIST CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS) prior to 1993. This list has been made available by the California Office of Emergency Services (OES).

**Government Publication Date:** Jan 1, 1993

**Historical Cortese List:**

HIST CORTESE

List of sites which were once included on the Cortese list. The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements for providing information about the location of hazardous sites.

**Government Publication Date:** Nov 13, 2008

**Cease and Desist Orders and Cleanup and Abatement Orders:**

CDO/CAO

The California Environment Protection Agency "Cortese List" of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO). This list contains many CDOs and CAOs that do NOT concern the discharge of wastes that are hazardous materials. Many of the listed orders concern, as examples, discharges of domestic sewage, food processing wastes, or sediment that do not contain hazardous materials, but the Water Boards' database does not distinguish between these types of orders.

**Government Publication Date:** Feb 16, 2012

**Drycleaner Facilities:**

DRYCLEANERS

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial, linen supply, commercial laundry, dry cleaning and pressing machines - Coin Operated Laundry and Dry Cleaning. This is provided by the Department of Toxic Substance Control.

**Government Publication Date:** Jan 18, 2018

**Delisted Drycleaners:**

DELISTED DRYC

Sites removed from the list of drycleaner related facilities that have EPA ID numbers, made available by the California Department of Toxic Substance Control.

**Government Publication Date:** Jan 18, 2018

**Waste Discharge Requirements:**[WASTE DISCHG](#)

List of sites in California State Water Resources Control Board (SWRCB) Waste Discharge Requirements (WDRs) Program in California, made available by the SWRCB via GeoTracker. The WDR program regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

**Government Publication Date: Oct 3, 2017**

**Toxic Pollutant Emissions Facilities:**[EMISSIONS](#)

A list of criteria and toxic pollutant emissions data for facilities in California made available by the California Environmental Protection Agency - Air Resources Board (ARB). Risk data may be based on previous inventory submittals. The toxics data are submitted to the ARB by the local air districts as requirement of the Air Toxics "Hot Spots" Program. This program requires emission inventory updates every four years.

**Government Publication Date: Dec 31, 2015**

**Tribal**

***No Tribal additional environmental record sources available for this State.***

**County**

***No County additional environmental databases were selected to be included in the search.***

# Definitions

**Database Descriptions:** This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

**Detail Report:** This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

**Distance:** The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

**Direction:** The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

**Elevation:** The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

**Executive Summary:** This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

**Map Key:** The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

**Unplottables:** These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.





## Property Information

Order Number: 20180323119p  
Date Completed: March 24, 2018  
Project Number: 18-16-106-01  
Project Property: SBCUSD - San Bernadino HS Classrooms M1-M4  
1850 N E St San Bernardino CA 92405  
Coordinates:  
Latitude: 34.132794  
Longitude: -117.295505  
UTM Northing: 3776919.48691 Meters  
UTM Easting: 472753.209871 Meters  
UTM Zone: UTM Zone 11S  
Elevation: 1,156.07 ft  
Slope Direction: S

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The ERIS **Physical Setting Report - PSR** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

### Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

## Topographic Information



## Current USGS Topo

**Quadrangle(s): San Bernardino North, CA; San Bernardino South, CA**

Source: USGS 7.5 Minute Topographic Map

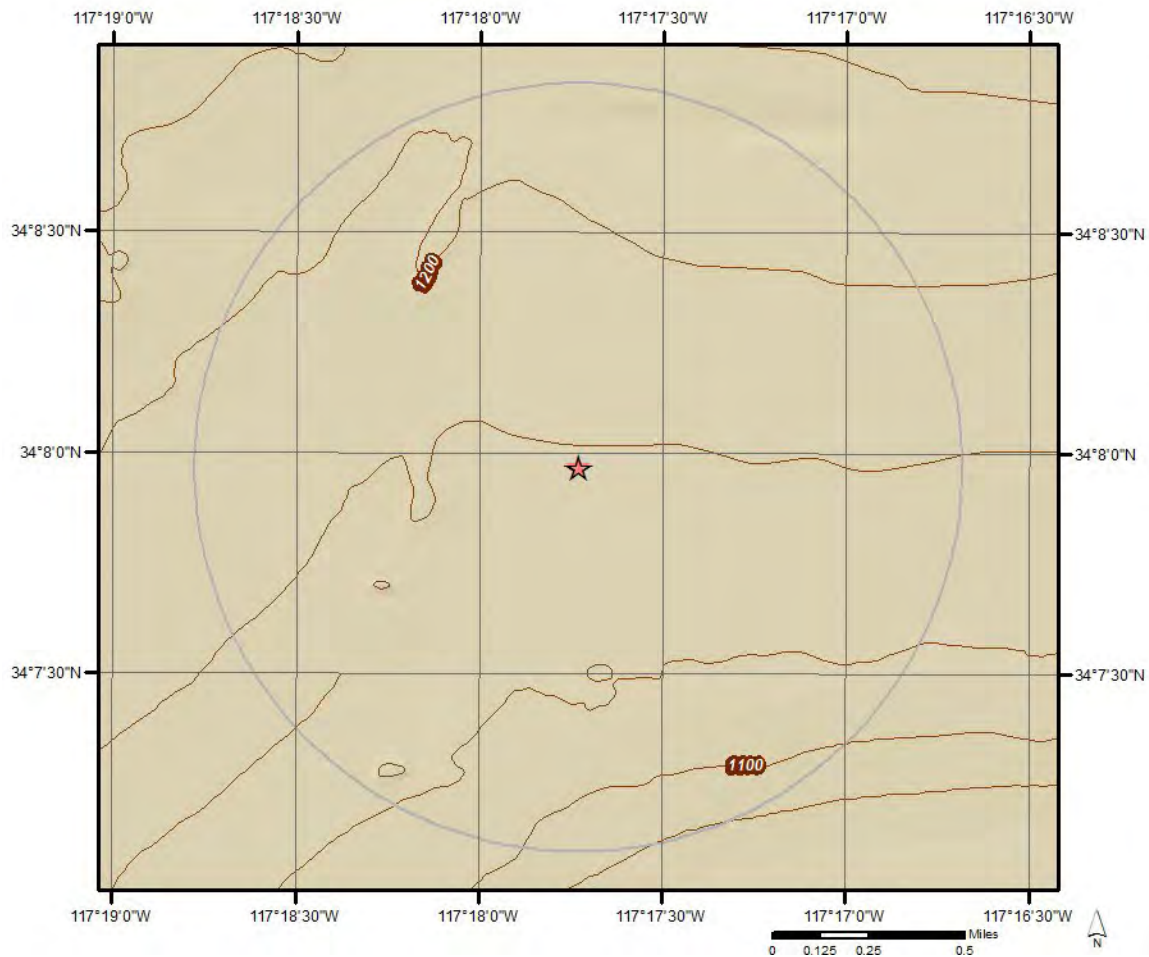


## Topographic Information

The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

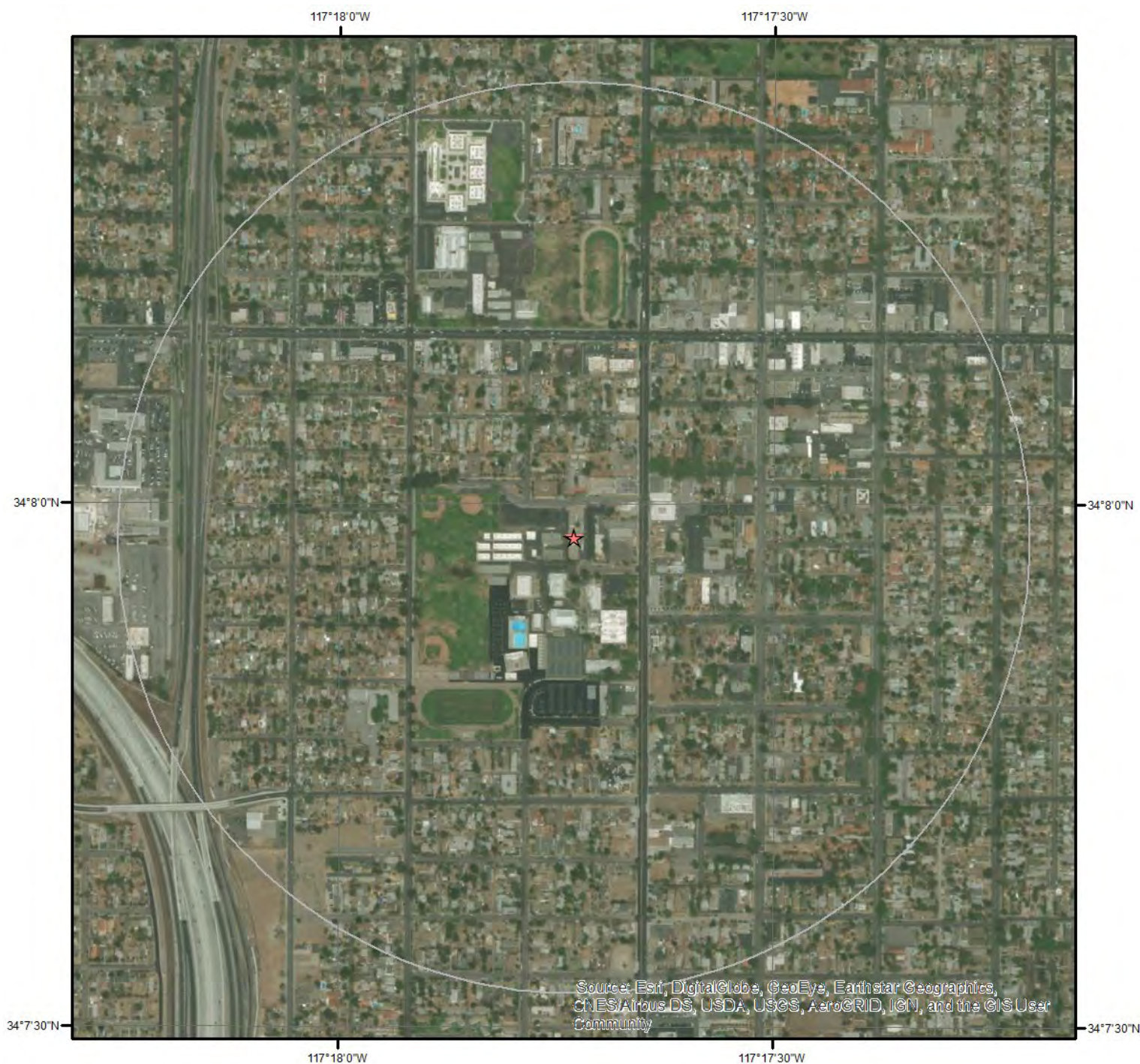
Topographic information at project property:

Elevation: 1,156.07 ft  
Slope Direction: S





# Hydrologic Information



## Wetland

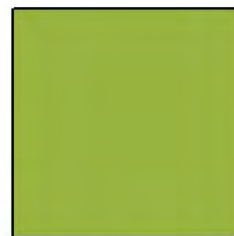
0 0.05 0.1 0.2 Miles



This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

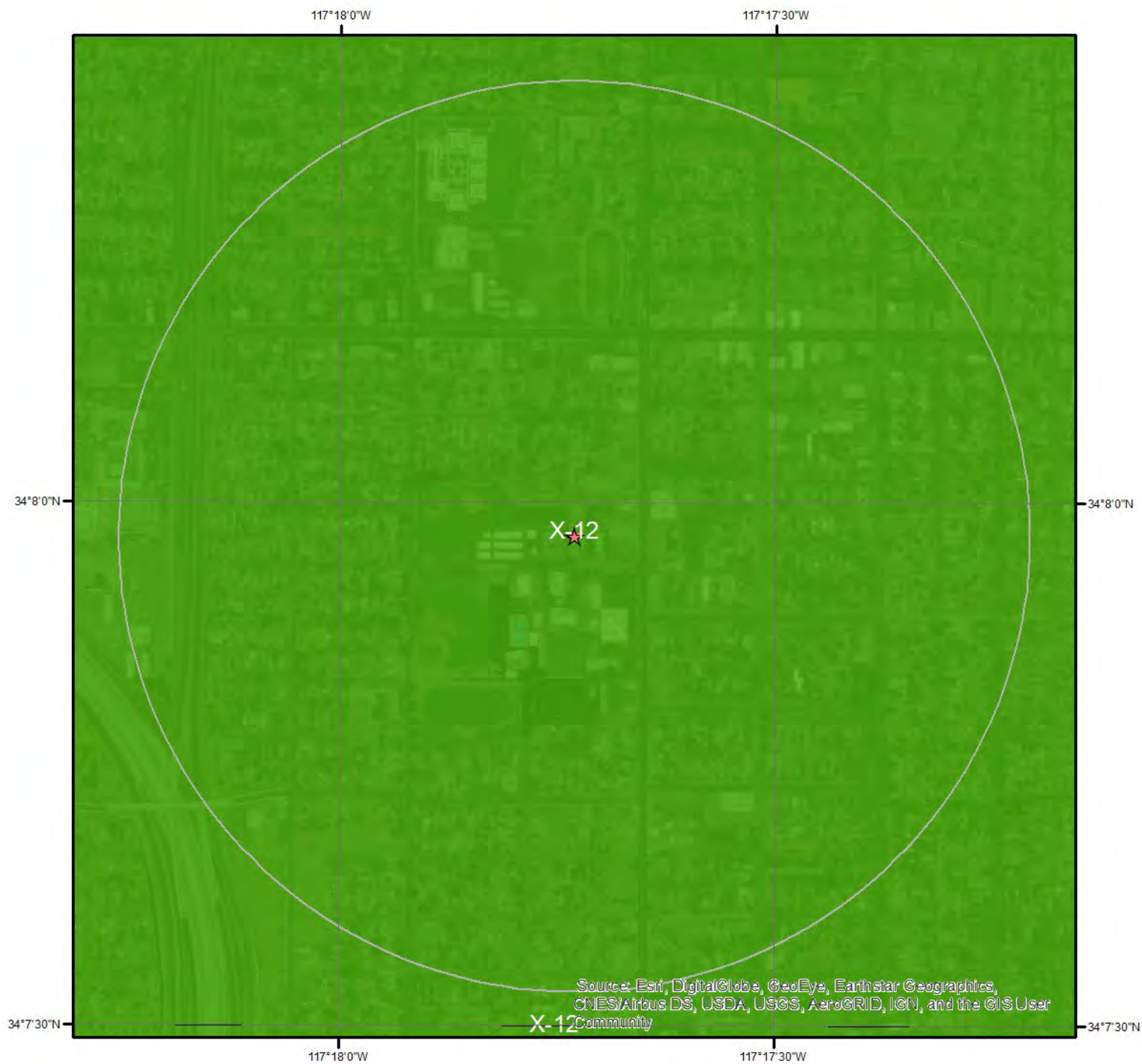
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland

- Freshwater Pond
- Lake
- Other
- Riverine





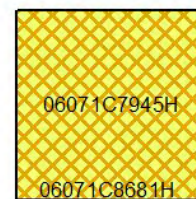
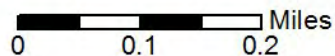
Hydrologic Information



Flood Hazard Zones

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

	A		AO		X
	A99		V		OPEN WATER
	AE		VE		NOT POPULATED
	AH		D		AREA NOT INCLUDED



## Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below.

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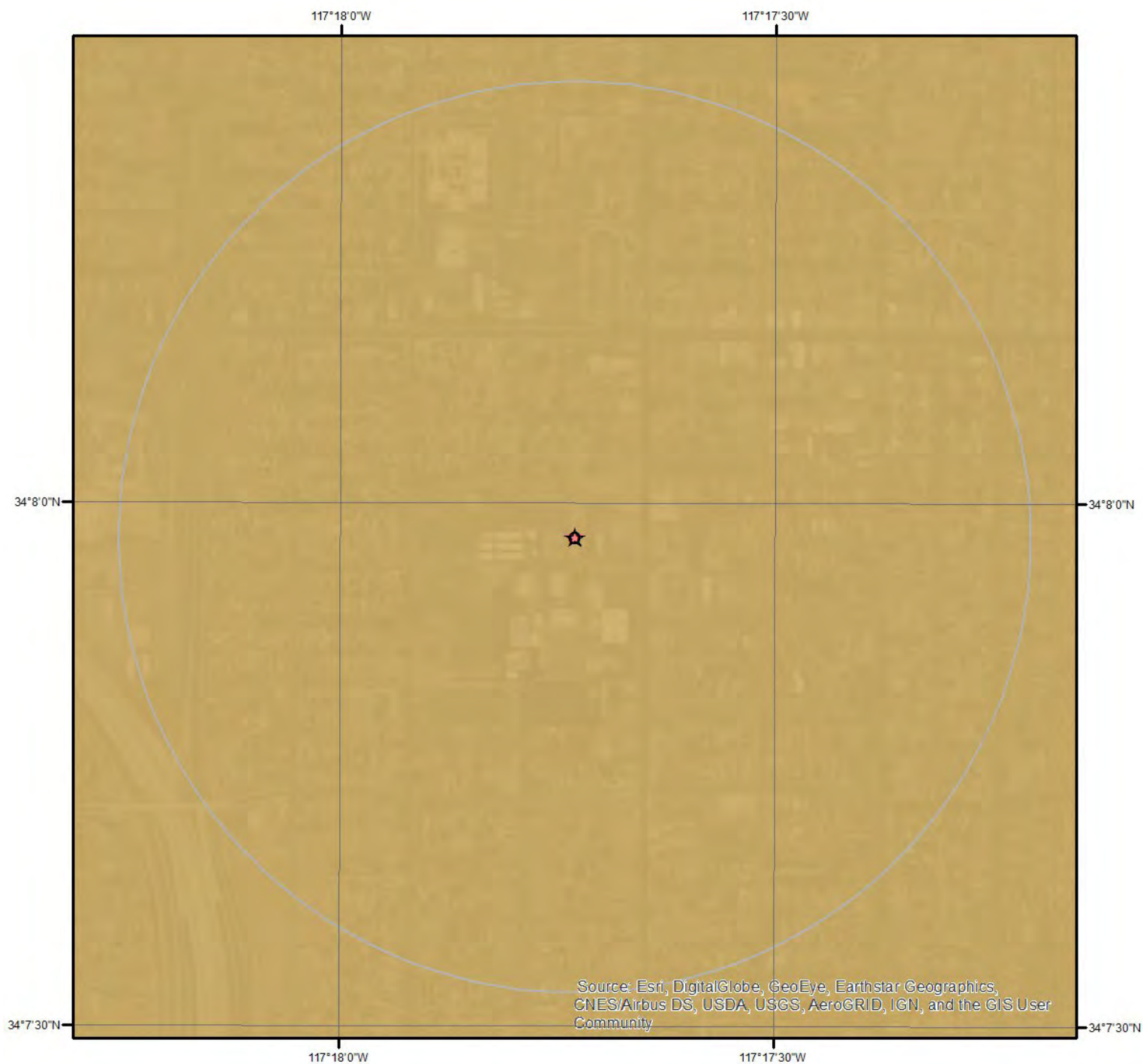
Available FIRM Panels in area:	06071C7945H(effective:2008-08-28)
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### Flood Zone X-12

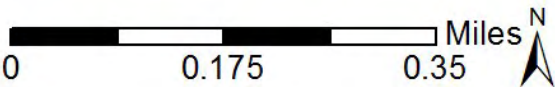
Zone:	X
Zone subtype:	AREA OF MINIMAL FLOOD HAZARD

**Geologic Information**



**Geologic Units**

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.



## Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

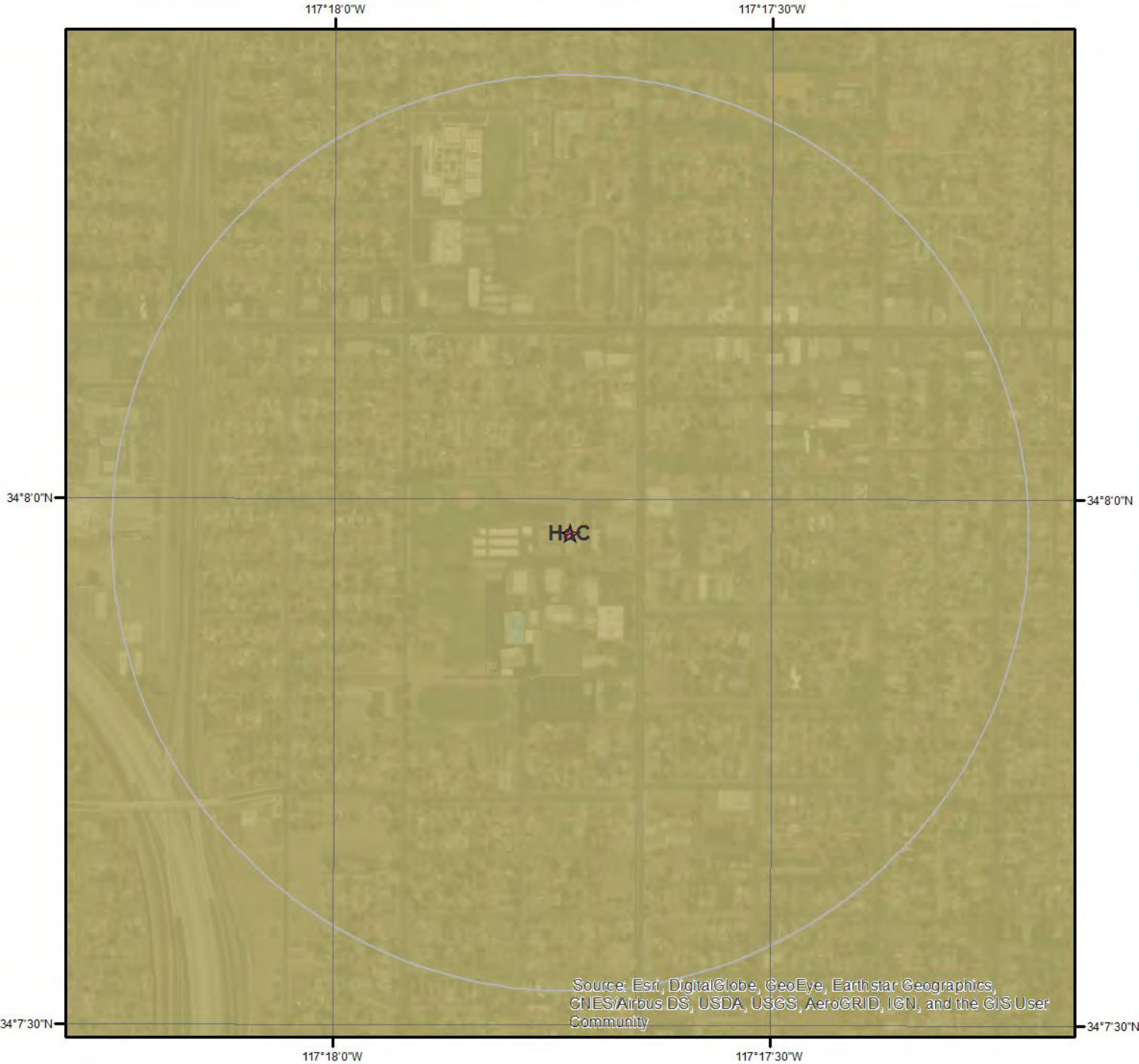
---

### Geologic Unit Q

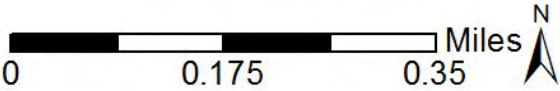
Unit Name:	Quaternary alluvium and marine deposits
Unit Age:	Pliocene to Holocene
Primary Rock Type:	alluvium
Secondary Rock Type:	terrace
Unit Description:	Alluvium, lake, playa, and terrace deposits; unconsolidated and semi-consolidated. Mostly nonmarine, but includes marine deposits near the coast.



Soil Information



SSURGO Soils



This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.



## Soil Information

The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

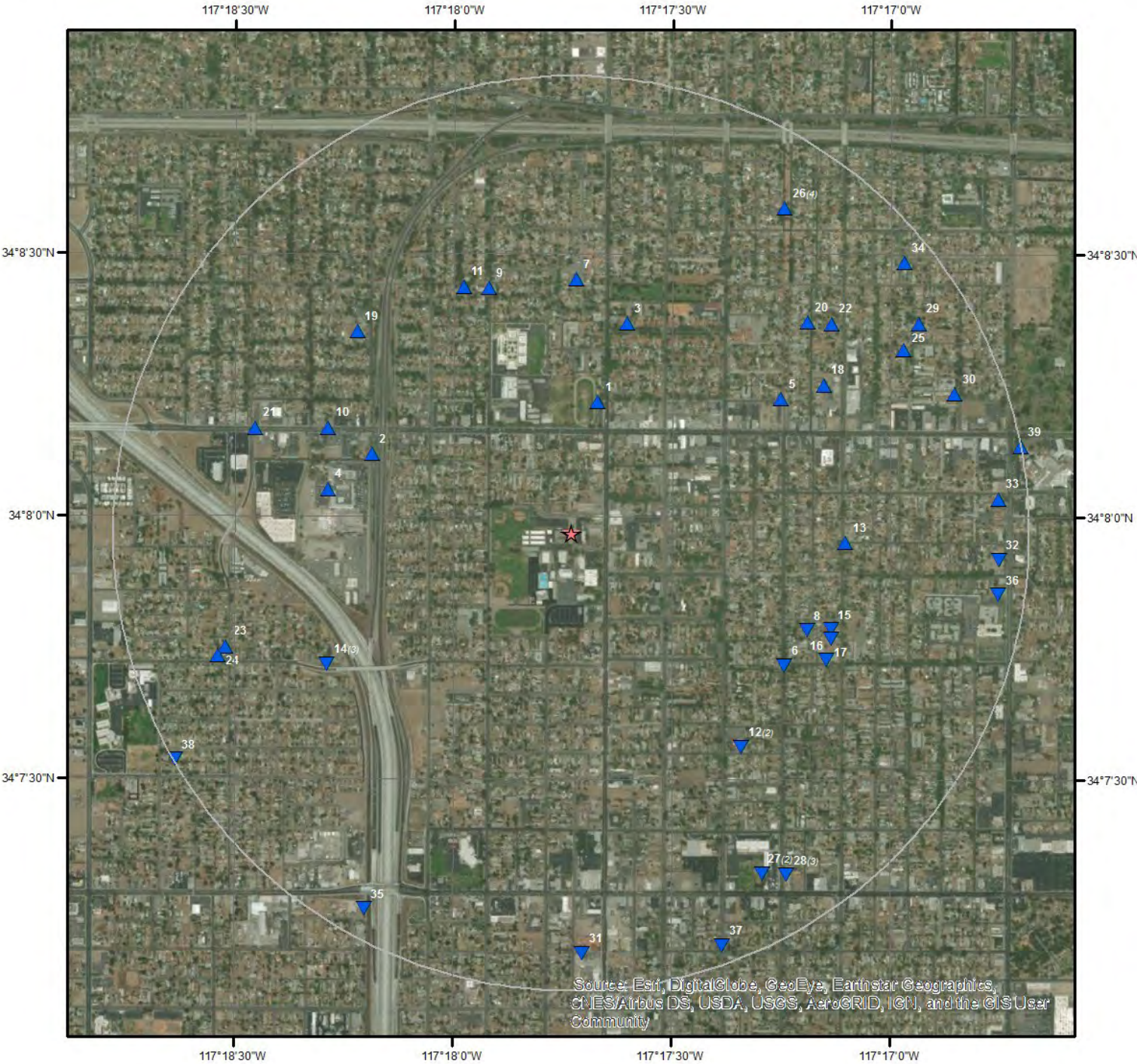
---

### Map Unit HaC

Map Unit Name:	Hanford coarse sandy loam, 2 to 9 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.
Major components are printed below	
Hanford(85%)	
horizon H1(0cm to 30cm)	Sandy loam
horizon H2(30cm to 152cm)	Coarse sandy loam
horizon H2(30cm to 152cm)	Fine sandy loam
horizon H2(30cm to 152cm)	Sandy loam

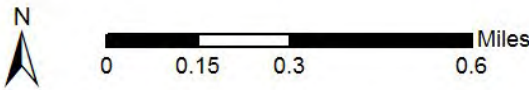


Wells and Additional Sources



Wells & Additional Sources

- ▲ Sites with Higher Elevation
- Sites with Same Elevation
- ▼ Sites with Lower Elevation
- Sites with Unknown Elevation



## Wells and Additional Sources Summary

### Federal Sources

#### Public Water Systems Violations and Enforcement Data

Map Key	ID	Distance (ft)	Direction
No records found			

#### Safe Drinking Water Information System (SDWIS)

Map Key	ID	Distance (ft)	Direction
No records found			

#### USGS National Water Information System

Map Key	Monitoring Loc Identifier	Distance (ft)	Direction
1	USGS-340813117173701	1,544.69	NNE
2	USGS-340807117180801	2,469.89	WNW
3	USGS-340822117173301	2,507.23	NNE
4	USGS-340803117181401	2,846.20	W
5	USGS-340813117171501	2,875.40	ENE
7	USGS-340827117174001	2,928.89	N
9	USGS-340826117175201	2,983.50	NNW
10	USGS-340810117181401	3,051.71	WNW
13	USGS-340757117170301	3,166.65	E
15	USGS-340747117170501	3,197.15	ESE
16	USGS-340746117170501	3,233.74	ESE
17	USGS-340745117170501	3,293.00	ESE
18	USGS-340815117170601	3,380.58	ENE
19	USGS-340821117181001	3,386.61	NW
21	USGS-340810117182401	3,837.58	WNW
22	USGS-340822117170501	3,853.86	NE
23	USGS-340745117182801	4,189.84	WSW
24	USGS-340744117182901	4,301.93	WSW
25	USGS-340819117165501	4,383.80	ENE
28	USGS-340719117171101	4,664.81	SSE
28	USGS-340719117171103	4,664.81	SSE
28	USGS-340719117171102	4,664.81	SSE
29	USGS-340822117165301	4,681.08	ENE
30	USGS-340814117164801	4,710.75	ENE
31	USGS-340710117173901	4,854.27	S
32	USGS-340755117164201	4,939.14	E
33	USGS-340802117164201	4,946.00	E
34	USGS-340829117165501	4,952.04	NE
35	USGS-340715117180901	4,956.58	SSW
36	USGS-340751117164201	4,980.51	E
38	USGS-340732117183501	5,269.13	WSW
39	USGS-340808117163901	5,278.93	E

### State Sources

#### Oil and Gas Wells

Map Key	ID	Distance (ft)	Direction
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## Wells and Additional Sources Summary

No records found

### Public Water Supply Wells

Map Key	WCR No	Distance (ft)	Direction
6	WCR1991-020432	2,898.20	ESE
14	WCR2004-016523	3,195.56	WSW
14	WCR2001-014303	3,195.56	WSW
14	WCR2004-016524	3,195.56	WSW
26	WCR1950-001631	4,486.07	NNE
26	WCR1964-001561	4,486.07	NNE
26	WCR1967-001627	4,486.07	NNE
26	WCR1956-001412	4,486.07	NNE
37	WCR1997-010526	5,072.13	SSE

### Water Wells

Map Key	Site Code	Distance (ft)	Direction
8	341297N1172865W001	2,947.61	ESE
11	341406N1172996W001	3,098.10	NNW
12	341260N1172890W001	3,159.35	SE
12	341260N1172890W002	3,159.35	SE
20	341395N1172865W001	3,656.81	NE
27	341220N1172882W002	4,505.89	SSE
27	341220N1172882W001	4,505.89	SSE

### Well Investigation Program Case List

Map Key	ID	Distance (ft)	Direction
No records found			

# Wells and Additional Sources Detail Report

## USGS National Water Information System

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	NNE	0.29	1,544.69	1,177.35	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	SAN BERNARDINO
Construction Date:		Latitude:	34.1369549
Source Map Scale:	24000	Longitude:	-117.2944878
Monitoring Loc Name:	001N004W27N001S		
Monitoring Loc Identifier:	USGS-340813117173701		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1175.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5.		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	WNW	0.47	2,469.89	1,167.05	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	91	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	91	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO

## Wells and Additional Sources Detail Report

Construction Date:	19210101	Latitude:	34.1352883
Source Map Scale:		Longitude:	-117.3030992
Monitoring Loc Name:	001N004W33B003S		
Monitoring Loc Identifier:	USGS-340807117180801		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1164.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	NNE	0.47	2,507.23	1,190.69	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	756	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	785	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19500101	Latitude:	34.1394548
Source Map Scale:	24000	Longitude:	-117.2933767
Monitoring Loc Name:	001N004W27M001S		
Monitoring Loc Identifier:	USGS-340822117173301		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

## Wells and Additional Sources Detail Report

Horizontal Collection Mthd: Interpolated from MAP.  
 Horiz Coord Refer System: NAD83  
 Vertical Measure: 1189.00  
 Vertical Measure Unit: feet  
 Vertical Accuracy: .1  
 Vertical Accuracy Unit: feet  
 Vertical Collection Mthd: Level or other surveyed method.  
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	W	0.54	2,846.20	1,166.15	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	555	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	555	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19150101	Latitude:	34.1341772
Source Map Scale:		Longitude:	-117.3047659
Monitoring Loc Name:	001N004W33B002S		
Monitoring Loc Identifier:	USGS-340803117181401		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1164.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	ENE	0.54	2,875.40	1,182.84	FED USGS



## Wells and Additional Sources Detail Report

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	998	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	1000	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:		Latitude:	34.1370556
Source Map Scale:	24000	Longitude:	-117.2875
Monitoring Loc Name:	001N004W27P001S		
Monitoring Loc Identifier:	USGS-340813117171501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:			
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from Digital MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1182		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	N	0.55	2,928.89	1,192.67	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	717	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	749	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19560101	Latitude:	34.1408436
Source Map Scale:	24000	Longitude:	-117.2953212
Monitoring Loc Name:	001N004W27M002S		
Monitoring Loc Identifier:	USGS-340827117174001		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		

## Wells and Additional Sources Detail Report

Drainage Area:  
 Drainage Area Unit:  
 Contrib Drainage Area:  
 Contrib Drainage Area Unit:  
 Horizontal Accuracy: 1  
 Horizontal Accuracy Unit: seconds  
 Horizontal Collection Mthd: Interpolated from MAP.  
 Horiz Coord Refer System: NAD83  
 Vertical Measure: 1192.00  
 Vertical Measure Unit: feet  
 Vertical Accuracy: .1  
 Vertical Accuracy Unit: feet  
 Vertical Collection Mthd: Level or other surveyed method.  
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	NNW	0.57	2,983.50	1,188.66	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:	423	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:		Latitude:	34.1405659
Source Map Scale:	24000	Longitude:	-117.2986546
Monitoring Loc Name:	001N004W28J002S		
Monitoring Loc Identifier:	USGS-340826117175201		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1185.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	.1		
Vertical Accuracy Unit:	feet		

## Wells and Additional Sources Detail Report

Vertical Collection Mthd: Level or other surveyed method.  
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	WNW	0.58	3,051.71	1,174.48	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	99	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	99	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19190101	Latitude:	34.1361216
Source Map Scale:		Longitude:	-117.3047659
Monitoring Loc Name:	001N004W28Q002S		
Monitoring Loc Identifier:	USGS-340810117181401		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1171.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
13	E	0.60	3,166.65	1,156.08	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	177	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	177	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO

## Wells and Additional Sources Detail Report

Construction Date:	19130101	Latitude:	34.1325107
Source Map Scale:		Longitude:	-117.285043
Monitoring Loc Name:	001N004W34B002S		
Monitoring Loc Identifier:	USGS-340757117170301		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1151.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	ESE	0.61	3,197.15	1,142.52	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	1000	Aquifer Type:	Mixed (confined and unconfined) multiple aquifers
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	1005	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:		Latitude:	34.129733
Source Map Scale:	24000	Longitude:	-117.2855985
Monitoring Loc Name:	001N004W34G004S		
Monitoring Loc Identifier:	USGS-340747117170501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		



## Wells and Additional Sources Detail Report

Horizontal Collection Mthd: Interpolated from MAP.  
 Horiz Coord Refer System: NAD83  
 Vertical Measure: 1140  
 Vertical Measure Unit: feet  
 Vertical Accuracy: 5  
 Vertical Accuracy Unit: feet  
 Vertical Collection Mthd: Interpolated from topographic map.  
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	ESE	0.61	3,233.74	1,141.28	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	700	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	700	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19480101	Latitude:	34.1294552
Source Map Scale:	24000	Longitude:	-117.2855985
Monitoring Loc Name:	001N004W34G001S		
Monitoring Loc Identifier:	USGS-340746117170501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1142.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	.1		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Level or other surveyed method.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
17	ESE	0.62	3,293.00	1,137.27	FED USGS

## Wells and Additional Sources Detail Report

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	1000	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	1005	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19910313	Latitude:	34.1287778
Source Map Scale:	24000	Longitude:	-117.28575
Monitoring Loc Name:	001N004W34G003S		
Monitoring Loc Identifier:	USGS-340745117170501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	.5		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Mapping grade GPS unit (handheld accuracy range 12 to 40 ft)		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1137		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from Digital Elevation Model		
Vert Coord Refer System:	NAVD88		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	ENE	0.64	3,380.58	1,187.53	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	119	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	119	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19200101	Latitude:	34.1375105
Source Map Scale:		Longitude:	-117.2858764
Monitoring Loc Name:	001N004W27Q002S		
Monitoring Loc Identifier:	USGS-340815117170601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		

## Wells and Additional Sources Detail Report

Drainage Area:  
 Drainage Area Unit:  
 Contrib Drainage Area:  
 Contrib Drainage Area Unit:  
 Horizontal Accuracy: 1  
 Horizontal Accuracy Unit: seconds  
 Horizontal Collection Mthd: Interpolated from MAP.  
 Horiz Coord Refer System: NAD83  
 Vertical Measure: 1187.00  
 Vertical Measure Unit: feet  
 Vertical Accuracy: 20  
 Vertical Accuracy Unit: feet  
 Vertical Collection Mthd: Interpolated from topographic map.  
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	NW	0.64	3,386.61	1,182.66	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	115	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	115	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19200101	Latitude:	34.139177
Source Map Scale:		Longitude:	-117.3036548
Monitoring Loc Name:	001N004W28Q001S		
Monitoring Loc Identifier:	USGS-340821117181001		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1178.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		

## Wells and Additional Sources Detail Report

Vertical Collection Mthd: Interpolated from topographic map.  
Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	WNW	0.73	3,837.58	1,179.81	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	111	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	111	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19200101	Latitude:	34.1361215
Source Map Scale:		Longitude:	-117.3075438
Monitoring Loc Name:	001N004W28P001S		
Monitoring Loc Identifier:	USGS-340810117182401		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1177.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	NE	0.73	3,853.86	1,197.32	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	123	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	123	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO



## Wells and Additional Sources Detail Report

Construction Date:		Latitude:	34.1394548
Source Map Scale:		Longitude:	-117.2855986
Monitoring Loc Name:	001N004W27K001S		
Monitoring Loc Identifier:	USGS-340822117170501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1195.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	WSW	0.79	4,189.84	1,162.75	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	550	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	550	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:		Latitude:	34.1291774
Source Map Scale:		Longitude:	-117.3086549
Monitoring Loc Name:	001N004W33F001S		
Monitoring Loc Identifier:	USGS-340745117182801		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

## Wells and Additional Sources Detail Report

Horizontal Collection Mthd: Interpolated from MAP.  
 Horiz Coord Refer System: NAD83  
 Vertical Measure: 1160.00  
 Vertical Measure Unit: feet  
 Vertical Accuracy: 20  
 Vertical Accuracy Unit: feet  
 Vertical Collection Mthd: Interpolated from topographic map.  
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	WSW	0.81	4,301.93	1,162.59	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	184	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	184	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19130101	Latitude:	34.1288996
Source Map Scale:		Longitude:	-117.3089327
Monitoring Loc Name:	001N004W33E001S		
Monitoring Loc Identifier:	USGS-340744117182901		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1182.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	ENE	0.83	4,383.80	1,194.25	FED USGS

## Wells and Additional Sources Detail Report

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	139	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	139	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19150101	Latitude:	34.1386215
Source Map Scale:		Longitude:	-117.2828207
Monitoring Loc Name:	001N004W27R001S		
Monitoring Loc Identifier:	USGS-340819117165501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1193.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	SSE	0.88	4,664.81	1,104.89	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	1100	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	1264	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:		Latitude:	34.1219555
Source Map Scale:	24000	Longitude:	-117.2872652
Monitoring Loc Name:	001N004W34Q001S		
Monitoring Loc Identifier:	USGS-340719117171101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		

## Wells and Additional Sources Detail Report

Drainage Area:  
 Drainage Area Unit:  
 Contrib Drainage Area:  
 Contrib Drainage Area Unit:  
 Horizontal Accuracy: 1  
 Horizontal Accuracy Unit: seconds  
 Horizontal Collection Mthd: Interpolated from MAP.  
 Horiz Coord Refer System: NAD83  
 Vertical Measure: 1100  
 Vertical Measure Unit: feet  
 Vertical Accuracy: 10  
 Vertical Accuracy Unit: feet  
 Vertical Collection Mthd: Interpolated from topographic map.  
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	SSE	0.88	4,664.81	1,104.89	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	540	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	1264	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	199409	Latitude:	34.1219555
Source Map Scale:	24000	Longitude:	-117.2872652
Monitoring Loc Name:	001N004W34Q003S		
Monitoring Loc Identifier:	USGS-340719117171103		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	5		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1100.52		
Vertical Measure Unit:	feet		
Vertical Accuracy:	.10		
Vertical Accuracy Unit:	feet		



## Wells and Additional Sources Detail Report

Vertical Collection Mthd: Level or other surveyed method.  
Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	SSE	0.88	4,664.81	1,104.89	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	800	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	1264	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	199409	Latitude:	34.1219555
Source Map Scale:	24000	Longitude:	-117.2872652
Monitoring Loc Name:	001N004W34Q002S		
Monitoring Loc Identifier:	USGS-340719117171102		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	5		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1100.52		
Vertical Measure Unit:	feet		
Vertical Accuracy:	.10		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Level or other surveyed method.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
29	ENE	0.89	4,681.08	1,198.94	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	135	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	135	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO

## Wells and Additional Sources Detail Report

Construction Date:	19170101	Latitude:	34.1394548
Source Map Scale:		Longitude:	-117.2822652
Monitoring Loc Name:	001N004W27J001S		
Monitoring Loc Identifier:	USGS-340822117165301		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1196.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	ENE	0.89	4,710.75	1,185.88	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	149	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	149	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19210101	Latitude:	34.1372327
Source Map Scale:		Longitude:	-117.2808762
Monitoring Loc Name:	001N004W27R002S		
Monitoring Loc Identifier:	USGS-340814117164801		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

## Wells and Additional Sources Detail Report

Horizontal Collection Interpolated from MAP.  
 Mthd:  
 Horiz Coord Refer NAD83  
 System:  
 Vertical Measure: 1184.00  
 Vertical Measure Unit: feet  
 Vertical Accuracy: 20  
 Vertical Accuracy Unit: feet  
 Vertical Collection Mthd: Interpolated from topographic map.  
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
31	S	0.92	4,854.27	1,094.23	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	460	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	778	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19350101	Latitude:	34.1194556
Source Map Scale:	24000	Longitude:	-117.2950432
Monitoring Loc Name:	001S004W03D001S		
Monitoring Loc Identifier:	USGS-340710117173901		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1096.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	10		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	E	0.94	4,939.14	1,153.03	FED USGS

## Wells and Additional Sources Detail Report

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	140	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	140	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19130101	Latitude:	34.1319551
Source Map Scale:		Longitude:	-117.2792094
Monitoring Loc Name:	001N004W34H001S		
Monitoring Loc Identifier:	USGS-340755117164201		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1152.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	E	0.94	4,946.00	1,164.87	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	191	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	191	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19130101	Latitude:	34.1338995
Source Map Scale:		Longitude:	-117.2792095
Monitoring Loc Name:	001N004W34A001S		
Monitoring Loc Identifier:	USGS-340802117164201		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		



## Wells and Additional Sources Detail Report

Drainage Area:  
 Drainage Area Unit:  
 Contrib Drainage Area:  
 Contrib Drainage Area Unit:  
 Horizontal Accuracy: 1  
 Horizontal Accuracy Unit: seconds  
 Horizontal Collection Mthd: Interpolated from MAP.  
 Horiz Coord Refer System: NAD83  
 Vertical Measure: 1163.00  
 Vertical Measure Unit: feet  
 Vertical Accuracy: 20  
 Vertical Accuracy Unit: feet  
 Vertical Collection Mthd: Interpolated from topographic map.  
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
34	NE	0.94	4,952.04	1,209.40	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	142	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	142	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19220101	Latitude:	34.1413992
Source Map Scale:		Longitude:	-117.2828207
Monitoring Loc Name:	001N004W27J002S		
Monitoring Loc Identifier:	USGS-340829117165501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1208.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		

## Wells and Additional Sources Detail Report

Vertical Collection Mthd: Interpolated from topographic map.  
Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	SSW	0.94	4,956.58	1,121.92	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	236	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	236	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19010101	Latitude:	34.1208444
Source Map Scale:		Longitude:	-117.3033769
Monitoring Loc Name:	001S004W04B001S		
Monitoring Loc Identifier:	USGS-340715117180901		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1120.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	10		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
36	E	0.94	4,980.51	1,146.83	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	140	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	140	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO

## Wells and Additional Sources Detail Report

Construction Date:	19130101	Latitude:	34.1308441
Source Map Scale:		Longitude:	-117.2792094
Monitoring Loc Name:	001N004W34H002S		
Monitoring Loc Identifier:	USGS-340751117164201		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1145.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
38	WSW	1.00	5,269.13	1,155.55	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	207	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	207	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:	19130101	Latitude:	34.1255664
Source Map Scale:		Longitude:	-117.3105994
Monitoring Loc Name:	001N004W33M002S		
Monitoring Loc Identifier:	USGS-340732117183501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

## Wells and Additional Sources Detail Report

Horizontal Collection Mthd: Interpolated from MAP.  
 Horiz Coord Refer System: NAD83  
 Vertical Measure: 1153.00  
 Vertical Measure Unit: feet  
 Vertical Accuracy: 20  
 Vertical Accuracy Unit: feet  
 Vertical Collection Mthd: Interpolated from topographic map.  
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	E	1.00	5,278.93	1,173.92	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	California Coastal Basin aquifers
Well Depth:	432	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	432	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	SAN BERNARDINO
Construction Date:		Latitude:	34.1355661
Source Map Scale:		Longitude:	-117.278376
Monitoring Loc Name:	001N004W35D001S		
Monitoring Loc Identifier:	USGS-340808117163901		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18070203		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	1172.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	20		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

### Public Water Supply Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	ESE	0.55	2,898.20	1,136.27	PWSW



## Wells and Additional Sources Detail Report

WCR No:	WCR1991-020432	Decimal Latitude:	34.128600
Legacy Log No:	350755	Decimal Longitude:	-117.287360
Permit Date:		Meth of Determ LL:	Derived from TRS
Permit No:		LL Accuracy:	Centroid of Section
Own Assign Well No:		Horizontal Datum:	
Name of Well Owner:		Ground Surf Elev:	
Planned Former Use:	Water Supply Public	Elevation Accuracy:	
APN:		Elev Determine Meth:	
Date Work Ended:	9/30/1991 0:00:00	Vertical Datum:	
Received Date:		Township:	01N
Well Location:	17th Street & Sierra Way	Range:	04W
City:	San Bernardino	Section:	34
County Name:	San Bernardino	Baseline Meridian:	San Bernardino
Total Drill Depth:		Township Internal:	
Total Complete Dep:	1000.000000	Range Internal:	
Top Perforated Int:	210	Section Internal:	
Bottom Perf Intvl:	990	Tract Internal:	
Casing Diameter:	20	Sequence Internal:	
Drilling Method:	Reverse Circulation	Baseline Merid Int:	
Fluid:	Not Available at Conversion	Decimal Lat Int:	
Static Water Level:	178	Decimal Long Int:	
Total Draw Down:		Meth of Det LL Int:	
Test Type:		LL Accuracy Intern:	
Pump Test Length:		Horiz Datum Int:	
Well Yield:	4000	Grnd Surf Elev Int:	
Well Yield Unit:	GPM	Ele Accuracy Int:	
GW Basin:		Elev Det Meth Int:	
Mat Type Summary:		Vertical Datum Int:	
Attachment Info:			
Region Office:	DWR Southern Region Office		
Local Permit Agency:			
Record Type:	WellCompletion/New/Production or Monitoring/NA		
Workflow Status:			
Other Observations:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	WSW	0.61	3,195.56	1,152.53	PWSW

WCR No:	WCR2004-016523	Decimal Latitude:	34.128620
Legacy Log No:	e015314	Decimal Longitude:	-117.304800
Permit Date:		Meth of Determ LL:	Derived from TRS
Permit No:		LL Accuracy:	Centroid of Section
Own Assign Well No:	EPA-109	Horizontal Datum:	
Name of Well Owner:		Ground Surf Elev:	
Planned Former Use:	Water Supply Public	Elevation Accuracy:	

## Wells and Additional Sources Detail Report

APN:	0144-221-28	Elev Determine Meth:	
Date Work Ended:	6/30/2004 0:00:00	Vertical Datum:	
Received Date:		Township:	01N
Well Location:	980 W Home Avenue	Range:	04W
City:	San Bernardino	Section:	33
County Name:	San Bernardino	Baseline Meridian:	San Bernardino
Total Drill Depth:		Township Internal:	
Total Complete Dep:	860.000000	Range Internal:	
Top Perforated Int:	260	Section Internal:	
Bottom Perf Intvl:	820	Tract Internal:	
Casing Diameter:	20	Sequence Internal:	
Drilling Method:	Reverse Circulation	Baseline Merid Int:	
Fluid:	Not Available at Conversion	Decimal Lat Int:	
Static Water Level:	209	Decimal Long Int:	
Total Draw Down:		Meth of Det LL Int:	
Test Type:		LL Accuracy Intern:	
Pump Test Length:		Horiz Datum Int:	
Well Yield:	22000	Grnd Surf Elev Int:	
Well Yield Unit:	GPM	Ele Accuracy Int:	
GW Basin:		Elev Det Meth Int:	
Mat Type Summary:		Vertical Datum Int:	
Attachment Info:			
Region Office:	DWR Southern Region Office		
Local Permit Agency:			
Record Type:	WellCompletion/New/Production or Monitoring/NA		
Workflow Status:			
Other Observations:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	WSW	0.61	3,195.56	1,152.53	PWSW

WCR No:	WCR2001-014303	Decimal Latitude:	34.128620
Legacy Log No:	747056	Decimal Longitude:	-117.304800
Permit Date:		Meth of Determ LL:	Derived from TRS
Permit No:		LL Accuracy:	Centroid of Section
Own Assign Well No:	108	Horizontal Datum:	
Name of Well Owner:		Ground Surf Elev:	
Planned Former Use:	Water Supply Public	Elevation Accuracy:	
APN:	0145-193-13-0	Elev Determine Meth:	
Date Work Ended:	9/12/2001 0:00:00	Vertical Datum:	
Received Date:		Township:	01N
Well Location:	1306 G Street	Range:	04W
City:	San Bernardino	Section:	33
County Name:	San Bernardino	Baseline Meridian:	San Bernardino
Total Drill Depth:		Township Internal:	
Total Complete Dep:	1010.000000	Range Internal:	

## Wells and Additional Sources Detail Report

Top Perforated Int:	510	Section Internal:	
Bottom Perf Intvl:	1000	Tract Internal:	
Casing Diameter:	20	Sequence Internal:	
Drilling Method:	Reverse Circulation	Baseline Merid Int:	
Fluid:	Not Available at Conversion	Decimal Lat Int:	
Static Water Level:	185	Decimal Long Int:	
Total Draw Down:		Meth of Det LL Int:	
Test Type:		LL Accuracy Intern:	
Pump Test Length:		Horiz Datum Int:	
Well Yield:	3500	Grnd Surf Elev Int:	
Well Yield Unit:	GPM	Ele Accuracy Int:	
GW Basin:		Elev Det Meth Int:	
Mat Type Summary:		Vertical Datum Int:	
Attachment Info:			
Region Office:	DWR Southern Region Office		
Local Permit Agency:			
Record Type:	WellCompletion/New/Production or Monitoring/NA		
Workflow Status:			
Other Observations:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
14	WSW	0.61	3,195.56	1,152.53	PWSW

WCR No:	WCR2004-016524	Decimal Latitude:	34.128620
Legacy Log No:	e015509	Decimal Longitude:	-117.304800
Permit Date:		Meth of Determ LL:	Derived from TRS
Permit No:		LL Accuracy:	Centroid of Section
Own Assign Well No:	EPA-110	Horizontal Datum:	
Name of Well Owner:		Ground Surf Elev:	
Planned Former Use:	Water Supply Public	Elevation Accuracy:	
APN:	0144-201-50	Elev Determine Meth:	
Date Work Ended:	6/30/2004 0:00:00	Vertical Datum:	
Received Date:		Township:	01N
Well Location:	1335 Garner Avenue	Range:	04W
City:	San Bernardino	Section:	33
County Name:	San Bernardino	Baseline Meridian:	San Bernardino
Total Drill Depth:		Township Internal:	
Total Complete Dep:	865.000000	Range Internal:	
Top Perforated Int:	225	Section Internal:	
Bottom Perf Intvl:	850	Tract Internal:	
Casing Diameter:	20	Sequence Internal:	
Drilling Method:	Reverse Circulation	Baseline Merid Int:	
Fluid:	Not Available at Conversion	Decimal Lat Int:	
Static Water Level:	196	Decimal Long Int:	
Total Draw Down:		Meth of Det LL Int:	
Test Type:		LL Accuracy Intern:	

## Wells and Additional Sources Detail Report

Pump Test Length:	Horiz Datum Int:
Well Yield: 2485	Grnd Surf Elev Int:
Well Yield Unit: GPM	Ele Accuracy Int:
GW Basin:	Elev Det Meth Int:
Mat Type Summary:	Vertical Datum Int:
Attachment Info:	
Region Office: DWR Southern Region Office	
Local Permit Agency:	
Record Type: WellCompletion/New/Production or Monitoring/NA	
Workflow Status:	
Other Observations:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	NNE	0.85	4,486.07	1,213.43	PWSW

WCR No: WCR1950-001631	Decimal Latitude: 34.143110
Legacy Log No: 36-2708	Decimal Longitude: -117.287380
Permit Date:	Meth of Determ LL: Derived from TRS
Permit No:	LL Accuracy: Centroid of Section
Own Assign Well No:	Horizontal Datum:
Name of Well Owner:	Ground Surf Elev:
Planned Former Use: Water Supply Public	Elevation Accuracy:
APN:	Elev Determine Meth:
Date Work Ended: 6/22/1950 0:00:00	Vertical Datum:
Received Date:	Township: 01N
Well Location: BETWEEN 25TH & 27TH STS ON NORTH E	Range: 04W
City: RANCHO SAN BERNARDIN	Section: 27
County Name: San Bernardino	Baseline Meridian: San Bernardino
Total Drill Depth:	Township Internal:
Total Complete Dep: 785.000000	Range Internal:
Top Perforated Int: 460	Section Internal:
Bottom Perf Intvl: 756	Tract Internal:
Casing Diameter: 20	Sequence Internal:
Drilling Method: Cable Tool	Baseline Merid Int:
Fluid: Not Available at Conversion	Decimal Lat Int:
Static Water Level:	Decimal Long Int:
Total Draw Down:	Meth of Det LL Int:
Test Type:	LL Accuracy Intern:
Pump Test Length:	Horiz Datum Int:
Well Yield: 2300	Grnd Surf Elev Int:
Well Yield Unit: GPM	Ele Accuracy Int:
GW Basin:	Elev Det Meth Int:
Mat Type Summary:	Vertical Datum Int:
Attachment Info:	
Region Office: DWR Southern Region Office	
Local Permit Agency:	



## Wells and Additional Sources Detail Report

Record Type: WellCompletion/New/Production or Monitoring/NA  
 Workflow Status:  
 Other Observations:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	NNE	0.85	4,486.07	1,213.43	PWSW

WCR No:	WCR1964-001561	Decimal Latitude:	34.143110
Legacy Log No:	88732	Decimal Longitude:	-117.287380
Permit Date:		Meth of Determ LL:	Derived from TRS
Permit No:		LL Accuracy:	Centroid of Section
Own Assign Well No:		Horizontal Datum:	
Name of Well Owner:		Ground Surf Elev:	
Planned Former Use:	Water Supply Public	Elevation Accuracy:	
APN:		Elev Determine Meth:	
Date Work Ended:	11/19/1964 0:00:00	Vertical Datum:	
Received Date:		Township:	01N
Well Location:	HIGHLAND & E ST	Range:	04W
City:		Section:	27
County Name:	San Bernardino	Baseline Meridian:	San Bernardino
Total Drill Depth:		Township Internal:	
Total Complete Dep:	958.000000	Range Internal:	
Top Perforated Int:	494	Section Internal:	
Bottom Perf Intvl:	828	Tract Internal:	
Casing Diameter:	20	Sequence Internal:	
Drilling Method:	Cable Tool	Baseline Merid Int:	
Fluid:	Not Available at Conversion	Decimal Lat Int:	
Static Water Level:		Decimal Long Int:	
Total Draw Down:		Meth of Det LL Int:	
Test Type:		LL Accuracy Intern:	
Pump Test Length:		Horiz Datum Int:	
Well Yield:	3056	Grnd Surf Elev Int:	
Well Yield Unit:	GPM	Ele Accuracy Int:	
GW Basin:		Elev Det Meth Int:	
Mat Type Summary:		Vertical Datum Int:	
Attachment Info:			
Region Office:	DWR Southern Region Office		
Local Permit Agency:			
Record Type:	WellCompletion/New/Production or Monitoring/NA		
Workflow Status:			
Other Observations:			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	NNE	0.85	4,486.07	1,213.43	PWSW

WCR No:	WCR1967-001627	Decimal Latitude:	34.143110
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## Wells and Additional Sources Detail Report

Legacy Log No: 39741	Decimal Longitude: -117.287380
Permit Date:	Meth of Determ LL: Derived from TRS
Permit No:	LL Accuracy: Centroid of Section
Own Assign Well No:	Horizontal Datum:
Name of Well Owner:	Ground Surf Elev:
Planned Former Use: Water Supply Public	Elevation Accuracy:
APN:	Elev Determine Meth:
Date Work Ended: 8/2/1967 0:00:00	Vertical Datum:
Received Date:	Township: 01N
Well Location: LEROY ST, 30TH ST	Range: 04W
City:	Section: 27
County Name: San Bernardino	Baseline Meridian: San Bernardino
Total Drill Depth:	Township Internal:
Total Complete Dep: 693.000000	Range Internal:
Top Perforated Int: 400	Section Internal:
Bottom Perf Intvl: 664	Tract Internal:
Casing Diameter: 20	Sequence Internal:
Drilling Method:	Baseline Merid Int:
Fluid:	Decimal Lat Int:
Static Water Level:	Decimal Long Int:
Total Draw Down:	Meth of Det LL Int:
Test Type:	LL Accuracy Intern:
Pump Test Length:	Horiz Datum Int:
Well Yield: 3700	Grnd Surf Elev Int:
Well Yield Unit: GPM	Ele Accuracy Int:
GW Basin:	Elev Det Meth Int:
Mat Type Summary:	Vertical Datum Int:
Attachment Info:	
Region Office: DWR Southern Region Office	
Local Permit Agency:	
Record Type: WellCompletion/New/Production or Monitoring/NA	
Workflow Status:	
Other Observations:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	NNE	0.85	4,486.07	1,213.43	PWSW

WCR No: WCR1956-001412	Decimal Latitude: 34.143110
Legacy Log No: 3009	Decimal Longitude: -117.287380
Permit Date:	Meth of Determ LL: Derived from TRS
Permit No:	LL Accuracy: Centroid of Section
Own Assign Well No:	Horizontal Datum:
Name of Well Owner:	Ground Surf Elev:
Planned Former Use: Water Supply Public	Elevation Accuracy:
APN:	Elev Determine Meth:
Date Work Ended: 1/6/1956 0:00:00	Vertical Datum:

## Wells and Additional Sources Detail Report

Received Date:	Township: 01N
Well Location: WEST OF ACACIA ST, SOUTH OF 28TH ST, 27T	Range: 04W
City: San Bernardino	Section: 27
County Name: San Bernardino	Baseline Meridian: San Bernardino
Total Drill Depth:	Township Internal:
Total Complete Dep: 749.000000	Range Internal:
Top Perforated Int: 477	Section Internal:
Bottom Perf Intvl: 717	Tract Internal:
Casing Diameter: 20	Sequence Internal:
Drilling Method: Cable Tool	Baseline Merid Int:
Fluid: Not Available at Conversion	Decimal Lat Int:
Static Water Level:	Decimal Long Int:
Total Draw Down:	Meth of Det LL Int:
Test Type:	LL Accuracy Intern:
Pump Test Length:	Horiz Datum Int:
Well Yield: 2000	Grnd Surf Elev Int:
Well Yield Unit: GPM	Ele Accuracy Int:
GW Basin:	Elev Det Meth Int:
Mat Type Summary:	Vertical Datum Int:
Attachment Info:	
Region Office: DWR Southern Region Office	
Local Permit Agency:	
Record Type: WellCompletion/New/Production or Monitoring/NA	
Workflow Status:	
Other Observations:	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	SSE	0.96	5,072.13	1,084.32	PWSW

WCR No: WCR1997-010526	Decimal Latitude:
Legacy Log No: 441011	Decimal Longitude:
Permit Date:	Meth of Determ LL:
Permit No:	LL Accuracy:
Own Assign Well No:	Horizontal Datum:
Name of Well Owner:	Ground Surf Elev:
Planned Former Use: Water Supply Public	Elevation Accuracy:
APN: 140-064-13	Elev Determine Meth:
Date Work Ended: 5/23/1997 0:00:00	Vertical Datum:
Received Date:	Township: 01S
Well Location: 1108 N ARROWHEAD	Range: 04W
City: San Bernardino	Section:
County Name: San Bernardino	Baseline Meridian:
Total Drill Depth:	Township Internal:
Total Complete Dep: 1080.000000	Range Internal:
Top Perforated Int: 500	Section Internal:
Bottom Perf Intvl: 1070	Tract Internal:

## Wells and Additional Sources Detail Report

Casing Diameter:	16	Sequence Internal:
Drilling Method:		Baseline Merid Int:
Fluid:		Decimal Lat Int:
Static Water Level:		Decimal Long Int:
Total Draw Down:		Meth of Det LL Int:
Test Type:		LL Accuracy Intern:
Pump Test Length:		Horiz Datum Int:
Well Yield:	2500	Grnd Surf Elev Int:
Well Yield Unit:	GPM	Ele Accuracy Int:
GW Basin:		Elev Det Meth Int:
Mat Type Summary:		Vertical Datum Int:
Attachment Info:		
Region Office:	DWR Southern Region Office	
Local Permit Agency:		
Record Type:	WellCompletion/New/Production or Monitoring/NA	
Workflow Status:		
Other Observations:		

### Water Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	ESE	0.56	2,947.61	1,142.24	WATER WELLS

Site Code:	341297N1172865W001	County Name:	San Bernardino
State Well No:	01N04W34G004S	Latitude:	34.1297
CASGEM Station ID:	26857	Longitude:	-117.2865
Station Use Desc:	Unknown	Basin ID:	204
Loc Well Designate:		Basin CD:	8-002.06
Total Depth (ft):		Basin Desc:	Bunker Hill
Is Voluntary Rprt:	Yes	Basin Region Code:	8
Completion Rpt No:		Basin Region Desc:	North Lahontan
Loc Method:	Unknown	Basin Region Actv:	Y
Loc Accuracy:	Unknown	Basin Region Order:	8

#### --Details--

Meas Date:	9/30/1991 0:00:00	Elevation ID:	1591335
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:	5	Elev Meas Mtd Order:	7
Meas Issue Code:	4	Elev Meas Mtd Cd:	UNK
Meas Issue Desc:	Pumped recently	Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:	Y	Elev Accuracy Actv:	Y
Meas Issue Class:	Questionable	Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:	5	Org ID:	1
GS Elevation:	1142.56	Org Name:	Department of Water Resources
RP Elevation:	1142.56	Coop Agcy Org ID:	5167
RP Reading:	178	Coop Org Name:	United States Geological Survey



## Wells and Additional Sources Detail Report

Casgem Reading:	N	Comments:
WS Reading:	0	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	NNW	0.59	3,098.10	1,187.68	WATER WELLS

Site Code:	341406N1172996W001	County Name:	San Bernardino
State Well No:	01N04W28J002S	Latitude:	34.1406
CASGEM Station ID:	2392	Longitude:	-117.2996
Station Use Desc:	Unknown	Basin ID:	204
Loc Well Designate:		Basin CD:	8-002.06
Total Depth (ft):		Basin Desc:	Bunker Hill
Is Voluntary Rprt:	Yes	Basin Region Code:	8
Completion Rpt No:		Basin Region Desc:	North Lahontan
Loc Method:	Unknown	Basin Region Actv:	Y
Loc Accuracy:	Unknown	Basin Region Order:	8

--Details--

Meas Date:	10/1/1970 0:00:00	Elevation ID:	1591333
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1187.61	Org Name:	Department of Water Resources
RP Elevation:	1187.61	Coop Agcy Org ID:	5167
RP Reading:	244	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	SE	0.60	3,159.35	1,123.48	WATER WELLS

Site Code:	341260N1172890W001	County Name:	San Bernardino
State Well No:		Latitude:	34.126
CASGEM Station ID:	46662	Longitude:	-117.289
Station Use Desc:	Observation	Basin ID:	204
Loc Well Designate:	MW-10A	Basin CD:	8-002.06
Total Depth (ft):	380	Basin Desc:	Bunker Hill
Is Voluntary Rprt:	No	Basin Region Code:	8
Completion Rpt No:		Basin Region Desc:	North Lahontan
Loc Method:	Surveyed to a benchmark	Basin Region Actv:	Y
Loc Accuracy:	Unknown	Basin Region Order:	8

## Wells and Additional Sources Detail Report

--Details--

Meas Date:	10/16/2013 0:00:00	Elevation ID:	1874379
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	226.5	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		

Meas Date:	6/22/2016 0:00:00	Elevation ID:	2201417
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	4	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	248	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		

Meas Date:	12/15/2014 0:00:00	Elevation ID:	2112849
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	232.1	Coop Org Name:	San Bernardino Valley Municipal

## Wells and Additional Sources Detail Report

Water District

Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	6/22/2015 0:00:00	Elevation ID:	2146012
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	243.15	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	12/16/2015 0:00:00	Elevation ID:	2179894
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	245.1	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	6/23/2014 0:00:00	Elevation ID:	1992838
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District

## Wells and Additional Sources Detail Report

RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	232.5	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	3/16/2015 0:00:00	Elevation ID:	2119200
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	234	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	12/19/2016 0:00:00	Elevation ID:	2224371
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	4	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	246.38	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	3/20/2017 0:00:00	Elevation ID:	2240505
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	4	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	1 Ft
Meas Issue Tp Ord:		Org ID:	5153



## Wells and Additional Sources Detail Report

GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	242.9	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	5/16/2012 0:00:00	Elevation ID:	57349
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	220.8	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	3/11/2014 0:00:00	Elevation ID:	1975929
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	219.2	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	9/15/2014 0:00:00	Elevation ID:	2029365
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y

## Wells and Additional Sources Detail Report

Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	238.9	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	11/28/2011 0:00:00	Elevation ID:	37461
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	216	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	12/19/2011 0:00:00	Elevation ID:	56016
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	216.1	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	2/16/2012 0:00:00	Elevation ID:	57321
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest

## Wells and Additional Sources Detail Report

Meas Issue Actv:		Elev Accuracy Actv:	tenth of a foot
Meas Issue Class:		Elev Accuracy Cd:	Y
Meas Issue Tp Ord:		Org ID:	0.1 Ft
GS Elevation:	1128	Org Name:	5153
RP Elevation:	1127.77	Coop Agcy Org ID:	San Bernardino Valley Municipal Water District
RP Reading:	216.5	Coop Org Name:	5153
Casgem Reading:	Y	Comments:	San Bernardino Valley Municipal Water District
WS Reading:	0		
Meas Date:	10/20/2015 0:00:00	Elevation ID:	2170423
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	245.63	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	6/19/2017 0:00:00	Elevation ID:	2257257
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	4	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	249.53	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	10/17/2012 0:00:00	Elevation ID:	2153401
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1

## Wells and Additional Sources Detail Report

Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	228.6	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	5/15/2013 0:00:00	Elevation ID:	1874365
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	217	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	4/18/2012 0:00:00	Elevation ID:	57363
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	213.8	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	9/26/2016 0:00:00	Elevation ID:	2213464
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement



## Wells and Additional Sources Detail Report

Meas Accuracy ID:	4	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	253.5	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		

Meas Date:	1/25/2012 0:00:00	Elevation ID:	57307
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	215.9	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		

Meas Date:	3/21/2012 0:00:00	Elevation ID:	57335
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.77	Coop Agcy Org ID:	5153
RP Reading:	215.2	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
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## Wells and Additional Sources Detail Report

12	SE	0.60	3,159.35	1,123.48	WATER WELLS
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Site Code:	341260N1172890W002	County Name:	San Bernardino
State Well No:		Latitude:	34.126
CASGEM Station ID:	46663	Longitude:	-117.289
Station Use Desc:	Observation	Basin ID:	204
Loc Well Designate:	MW-10B	Basin CD:	8-002.06
Total Depth (ft):	520	Basin Desc:	Bunker Hill
Is Voluntary Rprt:	No	Basin Region Code:	8
Completion Rpt No:		Basin Region Desc:	North Lahontan
Loc Method:	Surveyed to a benchmark	Basin Region Actv:	Y
Loc Accuracy:	Unknown	Basin Region Order:	8

--Details--

Meas Date:	11/28/2011 0:00:00	Elevation ID:	37462
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	224.4	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		

Meas Date:	12/19/2011 0:00:00	Elevation ID:	56017
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	223	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		

## Wells and Additional Sources Detail Report

Meas Date:	12/16/2015 0:00:00	Elevation ID:	2179895
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	255.4	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	9/26/2016 0:00:00	Elevation ID:	2213465
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	4	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	271	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	5/15/2013 0:00:00	Elevation ID:	1874366
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	229.7	Coop Org Name:	San Bernardino Valley Municipal Water District

## Wells and Additional Sources Detail Report

Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	10/17/2012 0:00:00	Elevation ID:	2153402
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	243	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	6/23/2014 0:00:00	Elevation ID:	1992839
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	235.3	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	3/16/2015 0:00:00	Elevation ID:	2119201
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153



## Wells and Additional Sources Detail Report

RP Reading:	244.5	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	10/16/2013 0:00:00	Elevation ID:	1874380
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	238.9	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	10/20/2015 0:00:00	Elevation ID:	2170424
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	257.04	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	6/22/2016 0:00:00	Elevation ID:	2201418
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	4	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal

## Wells and Additional Sources Detail Report

RP Elevation:	1127.84	Coop Agcy Org ID:	5153	Water District
RP Reading:	264.7	Coop Org Name:	San Bernardino Valley Municipal	Water District
Casgem Reading:	Y	Comments:		
WS Reading:	0			
Meas Date:	3/21/2012 0:00:00	Elevation ID:	57336	
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement	
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y	
Meas Issue ID:		Elev Meas Mtd Order:	1	
Meas Issue Code:		Elev Meas Mtd Cd:	ES	
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot	
Meas Issue Actv:		Elev Accuracy Actv:	Y	
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft	
Meas Issue Tp Ord:		Org ID:	5153	
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal	Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153	
RP Reading:	224.5	Coop Org Name:	San Bernardino Valley Municipal	Water District
Casgem Reading:	Y	Comments:		
WS Reading:	0			
Meas Date:	1/25/2012 0:00:00	Elevation ID:	57308	
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement	
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y	
Meas Issue ID:		Elev Meas Mtd Order:	1	
Meas Issue Code:		Elev Meas Mtd Cd:	ES	
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot	
Meas Issue Actv:		Elev Accuracy Actv:	Y	
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft	
Meas Issue Tp Ord:		Org ID:	5153	
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal	Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153	
RP Reading:	223.5	Coop Org Name:	San Bernardino Valley Municipal	Water District
Casgem Reading:	Y	Comments:		
WS Reading:	0			
Meas Date:	2/16/2012 0:00:00	Elevation ID:	57322	
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement	
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y	
Meas Issue ID:		Elev Meas Mtd Order:	1	
Meas Issue Code:		Elev Meas Mtd Cd:	ES	
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot	
Meas Issue Actv:		Elev Accuracy Actv:	Y	
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft	

## Wells and Additional Sources Detail Report

Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	228.5	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	6/22/2015 0:00:00	Elevation ID:	2146013
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	257.95	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	12/19/2016 0:00:00	Elevation ID:	2224372
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	4	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	252.1	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	3/20/2017 0:00:00	Elevation ID:	2240506
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	4	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest foot

## Wells and Additional Sources Detail Report

Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	251.54	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	6/19/2017 0:00:00	Elevation ID:	2257258
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	4	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	266.9	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	12/15/2014 0:00:00	Elevation ID:	2112850
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	239	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	5/16/2012 0:00:00	Elevation ID:	57350
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES



## Wells and Additional Sources Detail Report

Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	237.2	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	3/11/2014 0:00:00	Elevation ID:	1975930
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	226.6	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	9/15/2014 0:00:00	Elevation ID:	2029366
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	256	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		
Meas Date:	4/18/2012 0:00:00	Elevation ID:	57364
Meas Method ID:	1	Elev Meas Mtd Desc:	Electric sounder measurement
Meas Accuracy ID:	1	Elev Meas Mtd Actv:	Y

## Wells and Additional Sources Detail Report

Meas Issue ID:		Elev Meas Mtd Order:	1
Meas Issue Code:		Elev Meas Mtd Cd:	ES
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy to nearest tenth of a foot
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	0.1 Ft
Meas Issue Tp Ord:		Org ID:	5153
GS Elevation:	1128	Org Name:	San Bernardino Valley Municipal Water District
RP Elevation:	1127.84	Coop Agcy Org ID:	5153
RP Reading:	227.3	Coop Org Name:	San Bernardino Valley Municipal Water District
Casgem Reading:	Y	Comments:	
WS Reading:	0		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	NE	0.69	3,656.81	1,196.35	WATER WELLS

Site Code:	341395N1172865W001	County Name:	San Bernardino
State Well No:	01N04W27K001S	Latitude:	34.1395
CASGEM Station ID:	26852	Longitude:	-117.2865
Station Use Desc:	Unknown	Basin ID:	204
Loc Well Designate:		Basin CD:	8-002.06
Total Depth (ft):		Basin Desc:	Bunker Hill
Is Voluntary Rprt:	Yes	Basin Region Code:	8
Completion Rpt No:		Basin Region Desc:	North Lahontan
Loc Method:	Unknown	Basin Region Actv:	Y
Loc Accuracy:	Unknown	Basin Region Order:	8

### --Details--

Meas Date:	10/12/1919 0:00:00	Elevation ID:	1591322
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	94.4	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		

Meas Date:	9/1/1915 0:00:00	Elevation ID:	1591305
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y

## Wells and Additional Sources Detail Report

Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	69.6	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	3/12/1919 0:00:00	Elevation ID:	1591316
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	84.3	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	2/17/1921 0:00:00	Elevation ID:	1591329
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	95.9	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	7/27/1915 0:00:00	Elevation ID:	1591304
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK

## Wells and Additional Sources Detail Report

Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	63.7	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	6/19/1920 0:00:00	Elevation ID:	1591326
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:	2	Elev Meas Mtd Order:	7
Meas Issue Code:	1	Elev Meas Mtd Cd:	UNK
Meas Issue Desc:	Pumping	Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:	Y	Elev Accuracy Actv:	Y
Meas Issue Class:	Questionable	Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:	2	Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	89.7	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	6/3/1921 0:00:00	Elevation ID:	1591331
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	98.1	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	5/10/1915 0:00:00	Elevation ID:	1591301
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y



## Wells and Additional Sources Detail Report

Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	61.4	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	9/22/1915 0:00:00	Elevation ID:	1591306
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	71.7	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	3/16/1916 0:00:00	Elevation ID:	1591309
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	53.8	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	11/2/1916 0:00:00	Elevation ID:	1591310
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1

## Wells and Additional Sources Detail Report

GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	75.7	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	2/8/1920 0:00:00	Elevation ID:	1591323
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	92.7	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	4/19/1915 0:00:00	Elevation ID:	1591300
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	62.1	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	4/16/1919 0:00:00	Elevation ID:	1591317
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167

## Wells and Additional Sources Detail Report

RP Reading:	84.6	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	11/16/1920 0:00:00	Elevation ID:	1591328
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	97.4	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	7/2/1921 0:00:00	Elevation ID:	1591332
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:	2	Elev Meas Mtd Order:	7
Meas Issue Code:	1	Elev Meas Mtd Cd:	UNK
Meas Issue Desc:	Pumping	Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:	Y	Elev Accuracy Actv:	Y
Meas Issue Class:	Questionable	Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:	2	Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	103.7	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	5/30/1919 0:00:00	Elevation ID:	1591319
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	86.6	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	

## Wells and Additional Sources Detail Report

WS Reading: 0

Meas Date:	5/28/1915 0:00:00	Elevation ID:	1591302
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	60.1	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		

Meas Date:	12/31/1916 0:00:00	Elevation ID:	1591311
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	75.7	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		

Meas Date:	3/4/1918 0:00:00	Elevation ID:	1591313
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	79	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		



## Wells and Additional Sources Detail Report

Meas Date:	5/7/1919 0:00:00	Elevation ID:	1591318
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	86.2	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		

Meas Date:	7/3/1919 0:00:00	Elevation ID:	1591320
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	90	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		

Meas Date:	7/14/1915 0:00:00	Elevation ID:	1591303
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	63.4	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		

Meas Date:	10/18/1915 0:00:00	Elevation ID:	1591307
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown

## Wells and Additional Sources Detail Report

Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	74	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	6/18/1917 0:00:00	Elevation ID:	1591312
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	73.3	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	5/14/1920 0:00:00	Elevation ID:	1591325
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	86.1	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	7/16/1920 0:00:00	Elevation ID:	1591327
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7

## Wells and Additional Sources Detail Report

Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	92.9	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	6/9/1918 0:00:00	Elevation ID:	1591314
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	78.4	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	8/23/1919 0:00:00	Elevation ID:	1591321
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	93.7	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	3/25/1920 0:00:00	Elevation ID:	1591324
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown

## Wells and Additional Sources Detail Report

Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	90.1	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	3/30/1921 0:00:00	Elevation ID:	1591330
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	96	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	11/3/1915 0:00:00	Elevation ID:	1591308
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1197.58	Org Name:	Department of Water Resources
RP Elevation:	1197.58	Coop Agcy Org ID:	5167
RP Reading:	68.4	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		
Meas Date:	12/5/1918 0:00:00	Elevation ID:	1591315
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown



## Wells and Additional Sources Detail Report

Meas Issue Tp Ord:	Org ID:	1
GS Elevation: 1197.58	Org Name:	Department of Water Resources
RP Elevation: 1197.58	Coop Agcy Org ID:	5167
RP Reading: 84.8	Coop Org Name:	United States Geological Survey
Casgem Reading: N	Comments:	
WS Reading: 0		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	SSE	0.85	4,505.89	1,104.95	WATER WELLS

Site Code: 341220N1172882W002	County Name: San Bernardino
State Well No: 01N04W34Q003S	Latitude: 34.122
CASGEM Station ID: 26858	Longitude: -117.2882
Station Use Desc: Unknown	Basin ID: 204
Loc Well Designate:	Basin CD: 8-002.06
Total Depth (ft):	Basin Desc: Bunker Hill
Is Voluntary Rprt: Yes	Basin Region Code: 8
Completion Rpt No:	Basin Region Desc: North Lahontan
Loc Method: Unknown	Basin Region Actv: Y
Loc Accuracy: Unknown	Basin Region Order: 8

--Details--

Meas Date: 3/5/1996 0:00:00	Elevation ID: 1591337
Meas Method ID: 7	Elev Meas Mtd Desc: Unknown
Meas Accuracy ID: 5	Elev Meas Mtd Actv: Y
Meas Issue ID:	Elev Meas Mtd Order: 7
Meas Issue Code:	Elev Meas Mtd Cd: UNK
Meas Issue Desc:	Elev Accuracy Desc: Water level accuracy is unknown
Meas Issue Actv:	Elev Accuracy Actv: Y
Meas Issue Class:	Elev Accuracy Cd: Unknown
Meas Issue Tp Ord:	Org ID: 1
GS Elevation: 1103.06	Org Name: Department of Water Resources
RP Elevation: 1103.06	Coop Agcy Org ID: 5167
RP Reading: 127.56	Coop Org Name: United States Geological Survey
Casgem Reading: N	Comments:
WS Reading: 0	

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	SSE	0.85	4,505.89	1,104.95	WATER WELLS

Site Code: 341220N1172882W001	County Name: San Bernardino
State Well No: 01N04W34Q002S	Latitude: 34.122
CASGEM Station ID: 2398	Longitude: -117.2882
Station Use Desc: Unknown	Basin ID: 204
Loc Well Designate:	Basin CD: 8-002.06
Total Depth (ft):	Basin Desc: Bunker Hill

## Wells and Additional Sources Detail Report

Is Voluntary Rprt:	Yes	Basin Region Code:	8
Completion Rpt No:		Basin Region Desc:	North Lahontan
Loc Method:	Unknown	Basin Region Actv:	Y
Loc Accuracy:	Unknown	Basin Region Order:	8

### --Details--

Meas Date:	3/5/1996 0:00:00	Elevation ID:	1591336
Meas Method ID:	7	Elev Meas Mtd Desc:	Unknown
Meas Accuracy ID:	5	Elev Meas Mtd Actv:	Y
Meas Issue ID:		Elev Meas Mtd Order:	7
Meas Issue Code:		Elev Meas Mtd Cd:	UNK
Meas Issue Desc:		Elev Accuracy Desc:	Water level accuracy is unknown
Meas Issue Actv:		Elev Accuracy Actv:	Y
Meas Issue Class:		Elev Accuracy Cd:	Unknown
Meas Issue Tp Ord:		Org ID:	1
GS Elevation:	1103.06	Org Name:	Department of Water Resources
RP Elevation:	1103.06	Coop Agcy Org ID:	5167
RP Reading:	127.88	Coop Org Name:	United States Geological Survey
Casgem Reading:	N	Comments:	
WS Reading:	0		

## Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for *SAN BERNARDINO* County: **2**

*Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L*

*Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L*

*Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L*

---

### Federal Area Radon Information for *SAN BERNARDINO* County

No Measures/Homes:	17
Geometric Mean:	0.5
Arithmetic Mean:	0.7
Median:	0.7
Standard Deviation:	1
Maximum:	2.9
% >4 pCi/L:	0
% >20 pCi/L:	0
Notes on Data Table:	TABLE 1. Screening indoor radon data from the EPA/State Residential Radon Survey of California conducted during 1989-90. Data represent 2-7 day charcoal canister measurements from the lowest level of each home tested.

## **Federal Sources**

### **FEMA National Flood Hazard Layer**

**FEMA FLOOD**

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

### **Indoor Radon Data**

**INDOOR RADON**

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

### **Public Water Systems Violations and Enforcement Data**

**PWSV**

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SDWIS may correspond either with the physical location of the water system, or with a contact address.

### **Radon Zone Level**

**RADON ZONE**

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

### **Safe Drinking Water Information System (SDWIS)**

**SDWIS**

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

### **Soil Survey Geographic database**

**SSURGO**

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

### **U.S. Fish & Wildlife Service Wetland Data**

**US WETLAND**

The U.S. Fish & Wildlife Service Wetland layer represents the approximate location and type of wetlands and deepwater habitats in the United States.

### **USGS Current Topo**

**US TOPO**

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

### **USGS Geology**

**US GEOLOGY**

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

### **USGS National Water Information System**

**FED USGS**

The U.S. Geological Survey (USGS)'s National Water Information System (NWIS) is the nation's principal repository of water resources data. This database includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data.

## **State Sources**

### **Oil and Gas Wells**

**OGW**

A list of Oil and Gas well locations. This is provided by California's Department of Conservation Division of



## Appendix

Oil, Gas and Geothermal Resources.

### **Public Water Supply Wells**

**PWSW**

List of community water supply wells in California. This data was made available by California Department of Water Resources, Division of Statewide Integrated Water Management, who indicates that the management of the data in an ongoing project, and some county data is not represented. Location information is provided using the Public Land Survey System (PLSS) and is subject to the accuracy limitations inherent to the PLSS system.

### **Water Wells**

**WATER WELLS**

A list of water wells maintained by the Department of Water Resources (DWR) Water Data Library.

### **Well Investigation Program Case List**

**WIP**

The Well Investigation Program (WIP) was developed by the State Water Resources Control Board (SWRCB) to locate, assess and remediate sources of solvent contamination impacting drinking water wells. This list contains WIP cases (active and historical) for the San Gabriel and San Fernando Valley area and was provided by the Los Angeles Regional Water Quality Control Board.

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## **Phase II Environmental Site Assessment Report**

**San Bernardino High School  
Classroom M3  
1805 North E Street  
San Bernardino, California**

**Converse Project No. 18-16-106-03  
May 12, 2021**

### **Prepared For:**

**San Bernardino City Unified School District  
956 West 9th Street  
San Bernardino, California 92411**

### **Prepared By:**

**Converse Consultants  
717 South Myrtle Avenue  
Monrovia, California 91016**





# Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

May 12, 2021

Mr. Matt Fulton  
San Bernardino City Unified School District  
956 West 9<sup>th</sup> Street  
San Bernardino, California 92411

**Subject: PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT**  
San Bernardino High School - Classroom M3  
1805 North E Street  
San Bernardino, California  
Converse Project No. 18-16-106-03

Mr. Fulton:

Converse Consultants (Converse) is pleased to submit the attached report that summarizes the activities and the results of a *Phase II Environmental Site Assessment (Phase II ESA)* that was conducted at the referenced property.

We appreciate the opportunity to be of service. Should you have any questions or comments regarding this report, please contact Michael Van Fleet at (909) 796-0544 or Laura Tanaka at (626) 930-1261.

## CONVERSE CONSULTANTS

Michael Van Fleet, PG  
Senior Geologist



Laura Tanaka  
Principal Environmental Scientist

Dist.: 1/Addressee via Electron Mail  
cc: 1/Laura Breuer and Nellie Karbaum via Electron Mail



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Appendix A – Application for Authorization to Use

Appendix B – Analytical Reports



# 1.0 Introduction

---

This *Phase II Environmental Site Assessment (ESA)* report has been prepared by Converse Consultants (Converse), on behalf of the San Bernardino City Unified School District (SBCUSD), for the sampling conducted at San Bernardino High School, Classroom M3, 1805 North E Street, San Bernardino, California (Site). Converse was retained by SBCUSD (*User*) to conduct the *Phase II ESA* at the Site (See Figure 1, Site Location Map). The scope of this assessment was completed in general accordance with the proposal dated March 29, 2021.

Converse generally followed the standard practices of the American Society for Testing Materials (ASTM) Designation: E1903-19 *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process* (ASTM, E 1903-19). The purpose of conducting the assessment in accordance with ASTM E1903-19 is to acquire and evaluate information sufficient to achieve the objective(s) set forth by the *User* and Converse.

Converse completed a Phase I ESA, dated May 31, 2018, for the Site. The assessment identified no evidence of recognized environmental conditions (RECs) in connection with the Site except for the following:

- The clarifier currently located to the east of Building M3.
- The spray paint booth located to the northeast of Building M3.
- Former machine shop/auto body shop operations located within Building M3.

The objectives of this assessment were to:

- Evaluate three (3) RECs in connection with the Site that were identified during the prior Converse Phase I ESA.
- Identify if potential target analytes are present at concentrations greater than threshold criteria.



## 2.0 Background

---

### 2.1 *Site Description and Features*

Details in the following sections regarding the Site and surrounding areas were obtained from the 2018 Converse Phase I ESA.

#### 2.1.1 *Current Uses of the Site*

The Site, which is a portion of San Bernardino High School (SBHS), is owned by the SBCUSD and is developed with the former auto-body shop on campus.

#### 2.1.2 *Location and Legal Description*

The Site is located on the northwest corner of West 19th Street and south of West 20<sup>th</sup> Street, on the northeast corner of the SBHS campus. The Site is located approximately 0.06 miles west of North E Street and 0.5 miles northeast of the Interstate 215 (San Bernardino Freeway).

The San Bernardino County Assessor's Parcel Number (APN) for the Site is 0145-05-508. The legal description of the Site is described as the following:

SIBLEY AND ALLISON SUB S 100 FT LOT 7 AND ALL LOT 8 BLK A AND E 1/2 ALLEY VAC ADJ ON W LYING SLY OF ST AND PTN N 35 FT 19TH ST VAC ADJ ON S EX ST

#### 2.1.3 *Site and Vicinity General Characteristics*

The Site is located on a single 0.86 acre parcel located on the northeast corner of the SBHS campus.

### 2.2 *Physical Setting*

#### 2.2.1 *Topography*

The Site is located approximately 1,156 feet above mean sea level with surface topography sloping towards the south (United States Geological Survey [USGS] Topographic Map, San Bernardino - North, California, 2015).





### *2.2.2 Geology*

The Site is underlain by marine and non-marine (continental) rocks of the Pleistocene-Holocene age (Division of Mines and Geology, Geologic Map of California, 2010).

### *2.2.3 Hydrogeology*

According to information obtained from the Regional Water Quality Control Board (RWQCB) Geotracker website, for a site located approximately 0.5 miles east, groundwater in the vicinity of the Site is expected to be encountered at a depth of 75 feet below grade and flow in a southerly direction.

## **2.3 Site History and Land Use**

According to historical sources, the Site was undeveloped from as early as 1896. By the early 1940s, the Site was developed with the current Site buildings and a smaller building located on the southeast corner of the Site. The Site appeared to be a part of the San Bernardino High School and was occupied by a "machine shop" and a "nursery" building. By 1973, the smaller building located on the southeast corner (occupied by the nursery) was no longer visible. The Site appeared to be developed in its current configuration from the early 1970s through the present.

## **2.4 Adjacent Property Land Use**

- North: West 20<sup>th</sup> Street followed by a multi-family residential building (560 W 20<sup>th</sup> Street).
- Northeast: West 20<sup>th</sup> Street followed by the 99 Cents Bargain Corner (1976 N E Street).
- Northwest: West 20<sup>th</sup> Street followed by a multi-family residential building (1959 North F Street).
- South: West 19<sup>th</sup> Street followed by the rest of the SBHS campus (1850 N E Street).
- Southeast: SBHS campus (1850 N E Street).
- Southwest: Remaining areas of the SBHS campus (1850 N E Street).
- East: Residential (540 19<sup>th</sup> Street), and parking lot.
- West: The remaining areas of the SBHS campus (1850 N E Street).



## **2.5 Summary of Previous Assessment Reports**

*Converse Consultants, Phase I Environmental Site Assessment Report, San Bernardino High School Classrooms M1-M4, 1850 North E Street, San Bernardino, California, May 31, 2018.*

The report identified the following RECs in connection with the Site:

- The clarifier currently located to the east of Building M3.
- The spray paint booth located to the northeast of Building M3.
- Former machine shop/auto body shop operations located within Building M3.

Converse recommended a Phase II investigation be performed.



## 3.0 Work Performed and Rationale

---

### 3.1 Scope of Assessment

A conceptual model was developed in order to screen the Site.

#### 3.1.1 Target Analytes

Target analytes include volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH) and metals in the shallow subsurface soil and/or soil vapor due to the former machine shop/auto body shop operations, clarifier and spray paint booth.

#### 3.1.2 Target Analytes First Entered the Environment

The target analytes would have first entered the environment by surface spills or releases to the surface soil, or leaks in the clarifier.

#### 3.1.3 Environmental Media and Locations Most Likely to Have the Highest Concentrations of Target Analytes

The environmental media most likely to have the highest concentrations of the target analytes are soil and soil vapor.

This *Phase II* ESA consisted of the following primary elements:

- A total of seven (7) borings (B1 through B7) were completed.
  - Four (4) borings (B1, B2, B6, and B7) were completed to depths of 15 feet beneath ground surface (bgs).
  - Two (2) borings (B3 and B4) were completed to depths of 8 feet bgs.
  - One (1) boring (B5) was completed to a depth of 16 feet bgs.
- Soil samples were collected from the following depths:
  - 2, 5, and 10 feet bgs from borings B1, B2, B6 and B7;
  - 2 and 5 feet bgs from boring B3; 2, 4, 6,
  - 8 feet bgs from boring B4; and
  - 2, 4, 8, 12, and 16 feet bgs from boring B5.
- Soil vapor samples were collected from depths of 5-feet bgs from boring B1, B2, B5, B6, and B7.



- Analysis of soil and soil vapor samples as follows:
  - Select soil samples from each boring were analyzed in accordance with EPA Method 8260B for VOCs, EPA Method 8015M for TPH, and EPA Method 6010/7471A for metals.
  - All soil vapor samples were analyzed in accordance with EPA Method 8260B for VOCs.

### **3.2 Soil Sample Collection**

Underground Services Alert (Dig Alert) was notified a minimum of 72 hours prior to commencing drilling activities.

On April 23, 2021, a total of seven (7) borings were completed by Strongarm Environmental. The upper 4 feet of each boring were advanced using a hand auger to clear for utilities.

The lower portion of five (5) borings (B1, B2, B5, B6, and B7) was completed utilizing direct-push (Geoprobe) drilling methods. However, due to overhead obstructions, borings B3 and B4 were completed entirely using a hand-auger.

Boring locations were as follows:

- Borings B1 and B2 were completed in the vicinity of the spray booth.
- Boring B3 was completed within a hazardous materials storage area located beneath the overhang on the east side of the building (south of the spray booth).
- Borings B4 and B5 were completed near the inlet and outlet of the in-ground clarifier, respectively.
- Boring B6 was completed in the area of a former automotive lift.
- Boring B7 was completed in the interior of building M4, near a confluence of in ground drains.

Soil cores were continuously collected during the drilling process (where possible). Portions of the soils were collected into sealable plastic bags for lithologic description and screened for VOCs using a photo-ionization detector (PID). It is noted that no VOC concentrations were detected with the PID.

Soil samples for laboratory analysis were transferred from the bucket of the auger into laboratory-supplied sample jars, or were cut from the acetate sleeves at the appropriate depths. Encore sample containers were used to collect subsamples of soil from each sleeve in accordance with EPA Method 5035 for analysis for VOCs and gasoline range TPH.





### **3.4 Soil Vapor Sample Collection**

Following the collection of soil samples, temporary soil vapor probes were set at depths of 5 feet bgs in the five (5) borings that were completed with the Geoprobe (B1, B2, B5, B6, and B7). Soil vapor probes were constructed using a six-inch stainless steel vapor implant connected to ¼-inch Teflon tubing. The implants were surrounded by an approximate 1-foot sand pack that extended slightly above and below the implant. The remainder of each borehole was filled with hydrated bentonite granules.

After installation, the probes were allowed to equilibrate for approximately 2 hours before purging and sampling.

Prior to sampling, the probes were purged of approximately 1 liter of air using a syringe. After purging, samples were collected using 1-liter summa canisters. Purging and sampling were conducted at flow rates of approximately 200 milliliters per minute. Soil vapor sampling was completed in general accordance with the Advisory-Active Soil Gas Investigations by the California Department of Toxic Substances Control (DTSC) and RWQCB, dated July 2015.

### **3.5 Field Quality Assurance/Quality Control**

The following are some of the quality assurance and quality control measures that were taken to evaluate the quality of the data generated:

- Standard EPA sample handling protocol including chain-of-custody control were followed.
- New dedicated sampling equipment (acetate sleeves, Encore containers, and Teflon tubing) were used for the collection of samples.
- Reusable sampling equipment (cutting shoe) was decontaminated between uses.
- A shut-in test was conducted prior to the collection of soil vapor samples to evaluate the integrity of the fitting.

### **3.6 Chemical Analytical Methods**

All samples were submitted under chain of custody documentation to Jones Environmental in Santa Fe Springs, California. Jones Environmental is certified by the State of California Environmental Laboratory Accreditation Program (ELAP) for the analyses conducted.



Select samples soil from each boring location were analyzed for: VOCs and Oxygenates in accordance with EPA Method 8260B; TPH using EPA Method 8015M; and metals using EPA Method 6010/7471A.

All soil vapor samples were analyzed for VOCs and Oxygenates in accordance with EPA Method 8260B.



## 4.0 Presentation and Evaluation of Results

---

### 4.1 *Subsurface Conditions*

During drilling activities, subsurface soils were observed to be generally consistent across the Site. Soil types generally consisted of brown sandy silts in the upper 5 feet, and fine-grained sands with minor amounts of silt and medium-grained sands between 5 and the maximum depth assessed of 15 feet bgs.

No stained or odorous soils were observed. Groundwater was not encountered in any of the borings to maximum depths of 16 feet.

### 4.2 *Analytical Results*

A summary of the results is provided below. Analytical results were compared to the San Francisco Bay RWQCB's Environmental Screening Levels (ESLs), and screening levels (SLs) based on the Department of Toxic Substances Control (DTSC) Human Health Risk Assessment (HHRA) Note 3. The results for metals were also compared to State and Federal hazardous waste screening levels. Copies of the laboratory analytical reports are included in Appendix B.

#### 4.2.1 *Soil Samples*

Lead was reported in all 20 samples at concentrations ranging from 1.7 to 471 milligrams per kilogram (mg/kg). With the exception of one (1) sample, all reported concentrations are less than the DTSC SL for lead in a residential land use scenario of 80 mg/kg. The concentration reported in sample B5-2 (471 mg/kg) exceeds the SLs for both residential and commercial SLs of 80 mg/kg, and 320 mg/kg, respectively. It is noted that the sample collected from boring B5 at a depth of 4 feet bgs had a reported lead concentration of 3.4 mg/kg, which is similar to other reported concentrations across the borings.

All other reported metals concentrations were less than their respective screening levels for both residential and commercial land use scenarios. All reported values were less than their respective hazardous waste disposal criteria.

A concentration of TPH in the heavy oil range was reported in one (1) sample (B4-2) at a concentration of 42.1 mg/kg, which is less than the screening level for a residential land use scenario of 12,000 mg/kg.



Concentrations of VOCs and TPH in the gasoline and diesel ranges were not reported in any of the samples analyzed.

Tabulated data for soil samples is presented in Table 1.

#### *4.2.2 Soil Vapor Samples*

A total of three (3) VOCs were detected in one or more of the five (5) soil vapor samples: carbon tetrachloride, toluene, and tetrachloroethylene (PCE). Tabulated soil vapor sample data is presented in Table 2.

With the exception of PCE, the maximum concentrations of reported VOCs detected were below their ESLs and SLs for both residential and commercial land uses.

- Concentrations of PCE were reported in soil vapor samples B6-5 and B7-5 at 18 and 15 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ), respectively. The reported concentration in sample B7-5 is less than or equal to the ESLs and SLs for both residential and commercial land uses scenarios. The concentration of 18  $\mu\text{g}/\text{m}^3$  in sample B6-5 exceeds the residential ESL of 15  $\mu\text{g}/\text{m}^3$ , but is less than the DTSC screening level for a residential land use of 460  $\mu\text{g}/\text{m}^3$ , as well as the commercial ESL and SL values of 67 and 2,000  $\mu\text{g}/\text{m}^3$ , respectively.

### **4.3 Data Quality Assurance/Quality Control**

#### *4.3.1 Hold Times*

All soil and soil vapor samples were transported to the laboratory under chain-of-custody documentation and were analyzed within appropriate hold times.

#### *4.3.2 Laboratory Quality Assurance*

The laboratories provided data to estimate precision, accuracy, and bias. The laboratory reports indicated that the method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives for soil, sub-slab, and soil vapor.

#### *4.3.3 Reporting Limits*

Reporting Limits (RLs) for soil and soil vapor samples were provided by the laboratory.

The RLs for VOCs in soil ranged from 1.0 to 50 mg/kg.





The RLs for TPH ranged from 0.2 to 10 mg/kg.

The PQLs for metals were 0.020 to 1.0 mg/kg. A dilution factor (DF) of 1 was applied to all the soil samples.

The RLs for VOCs in soil vapor samples ranged from 8 to 400  $\mu\text{g}/\text{m}^3$ .



## 5.0 Interpretation and Conclusions

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### 5.1 *RECs and Potential Release Area(s)*

The Converse ESA identified the following RECs in connection with the Site:

- The clarifier currently located to the east of Building M3.
- The spray paint booth located to the northeast of Building M3.
- Former machine shop/auto body shop operations located within Building M3.

### 5.2 *Conceptual Model Validation/Adequacy of Investigations*

It is our opinion that the field and analytical data validated the conceptual model.

### 5.3 *Absence, Presence, Degree, Extent of Target Analytes*

**Soil:** With the exception of reported concentrations of lead in one (1) sample at a depth of 2 feet bgs, all reported metals concentrations were below their respective screening levels for a residential land use scenario. Although the reported lead concentration in sample B5-2 exceeds both residential and commercial screening levels, the reported concentration at the same location from a depth of 4 feet bgs is below screening levels for a residential land use scenario, indicating that elevated lead concentrations in soil are limited to shallow soils in the vicinity of boring B5.

A detectable concentration of heavy-oil range TPH was reported in only one (1) sample (B4-2), at a concentration below the screening level for residential land use.

No VOCs or concentrations of TPH in the gasoline and diesel ranges were reported in the soil samples.

**Soil Vapor:** Three (3) VOCs (PCE, carbon tetrachloride, and toluene) were reported in one (1) or more samples. PCE was the only detected compound reported at a concentration in excess of the respective screening levels for residential land use. The reported PCE concentration in samples B6-5 of 18  $\mu\text{g}/\text{m}^3$  exceeds the ESL of 15  $\mu\text{g}/\text{m}^3$  for a residential land use scenario. However, it is noted that this concentration is less than the DTSC SL for a residential land use of 460  $\mu\text{g}/\text{m}^3$ , as well as the commercial ESL and SL values of 67 and 2,000  $\mu\text{g}/\text{m}^3$ , respectively. The impacts from PCE are therefore considered to be relatively minor and limited.



## **5.4 Other Concerns**

### **5.4.1 Significant Assumptions**

No significant assumptions were made during this assessment.

### **5.4.2 Limitations and Exceptions**

Soil vapor probes were not installed in the boring that could not be completed with the Geoprobe, since a minimum wait time of 48-hours would have been required prior to collecting samples from probes installed in boring completed by hand augering. No other limitations or exceptions were encountered during this investigation.

### **5.4.3 Special Terms and Conditions**

No special terms or conditions need to be noted in this *Phase II ESA* report.

## **5.5 Conclusions/Objectives Met**

Converse has performed a *Phase II ESA* at a portion of SBHS in conformance with the scope and limitations of ASTM, E1903-19 and the following objectives:

- Evaluate three (3) RECs in connection with the Site that were identified during the prior Converse Phase I ESA.
- Identify if potential target analytes are present at concentrations greater than threshold criteria.

Based on the findings of this assessment Converse concludes the following:

- Lead was reported in excess of both residential and commercial screening levels in the sample from 2 feet bgs at location B5. Lead impacted soils appear to be limited to less than 4 feet bgs based on analytical results. Lead was not detected at elevated concentrations from boring B4 which is located approximately 10 feet northeast of boring B5 indicating that lead impacted soils are likely limited to the immediate vicinity of boring B5. The maximum reported lead concentration is less than the hazardous waste threshold for total lead (TTLC) of 1,000 mg/kg, but supplemental testing is warranted to determine if soluble concentrations may exceed other hazardous waste thresholds.
- All reported concentrations of metals other than lead were less than their respective screening levels for both residential and commercial land use scenarios, as well as their respective hazardous waste disposal criteria.



- Soils are not significantly impacted with TPH or VOCs. TPH in the heavy oil range was reported in only one (1) sample, and the concentration is less than the screening level for a residential land use. Concentrations of VOCs and TPH in the gasoline and diesel ranges were not reported in any of the samples analyzed.
- A total of three (3) VOCs were detected in soil vapor samples; carbon tetrachloride, toluene, and PCE.
  - The maximum concentrations of carbon tetrachloride and toluene are less than their respective screening levels for residential land use; therefore, are not considered to be of significant concern.
  - PCE was reported in two (2) samples (B6-5 and B7-5) at concentrations equal to or slightly in excess of the ESL screening level for residential land use of 15  $\mu\text{g}/\text{m}^3$ . It is noted that the concentration of 18  $\mu\text{g}/\text{m}^3$  in sample B6-5 is less than the DTSC SL for a residential land use of 460  $\mu\text{g}/\text{m}^3$ , as well as the commercial ESL and SL values of 67 and 2,000  $\mu\text{g}/\text{m}^3$ , respectively. The impacts from PCE are therefore considered to be relatively minor and limited.





## 6.0 Recommendations

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Based on the findings of this assessment, further action is warranted with regards to elevated concentrations of lead in soil and PCE in soil vapor.

It is recommended that the lead-impacted soil in the vicinity of boring B5 be excavated and removed from the Site. Supplemental testing will be required to evaluate the extents of the contamination, and to profile the waste for disposal.

The maximum reported concentration of PCE in soil vapor at location B6 poses a potential vapor intrusion risk and may require further action. It is understood that the existing structures are planned to be demolished, and the scope of additional actions may depend on future planned use in the area of boring B6. The additional scope/action could include:

- No action if no structures are to be constructed in the area of B6.
- Retesting following any excavation or grading activities.
- Conducting a health risk evaluation, or;
- Possibly incorporating mitigation measures into the building plans to limit vapor intrusion.



## 7.0 Reliance

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This report is for the sole benefit and exclusive use of the SBCUSD in accordance with the terms and conditions that were presented in the proposal dated March 29, 2021, under which these services have been provided. The preparation of this report has been in accordance with generally accepted environmental practices. No other warranty, either express or implied, is made. This report should not be regarded as a guarantee that no further contamination beyond that which could be detected within the scope of this assessment is present at the Site.

This report should not be regarded as a guarantee that no further contamination, beyond that which could be detected within the scope of this assessment, is present at the Site. Converse makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this assessment. It is not possible to absolutely confirm that no hazardous materials and/or substances exist at the Site. If none are identified as part of a limited scope of work, such a conclusion should not be construed as a guaranteed absence of such materials, but merely the results of the evaluation of the Site at the time of the assessment. Also, events may occur after the Site visit, which may result in contamination of the Site. Additional information, which was not found or available to Converse at the time of report preparation, may result in a modification of the conclusions and recommendations presented.

Any reliance on this report by Third Parties shall be at the Third Party's sole risk. Should the SBCUSD wish to identify any additional relying parties not previously identified, a completed Application of Authorization to Use (see following page) must be submitted to Converse Consultants.



## 8.0 References and Sources of Information

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California State Department of Toxic Substances Control (DTSC) and California Regional Water Quality Control Board (RWQCB), Los Angeles Region, Advisory-Active Soil Gas Investigations, July 2015.

Converse Consultants, Phase I Environmental Site Assessment Report, San Bernardino High School Classrooms M1-M4, San Bernardino, California, May 31, 2018.

Department of Toxic Substances Control (DTSC), Human Health Risk Evaluation (HHRA) Note 3, Table 3, June 2020.

San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels (ESLs), Generic Tables, 2019.

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## Figures

# Figures





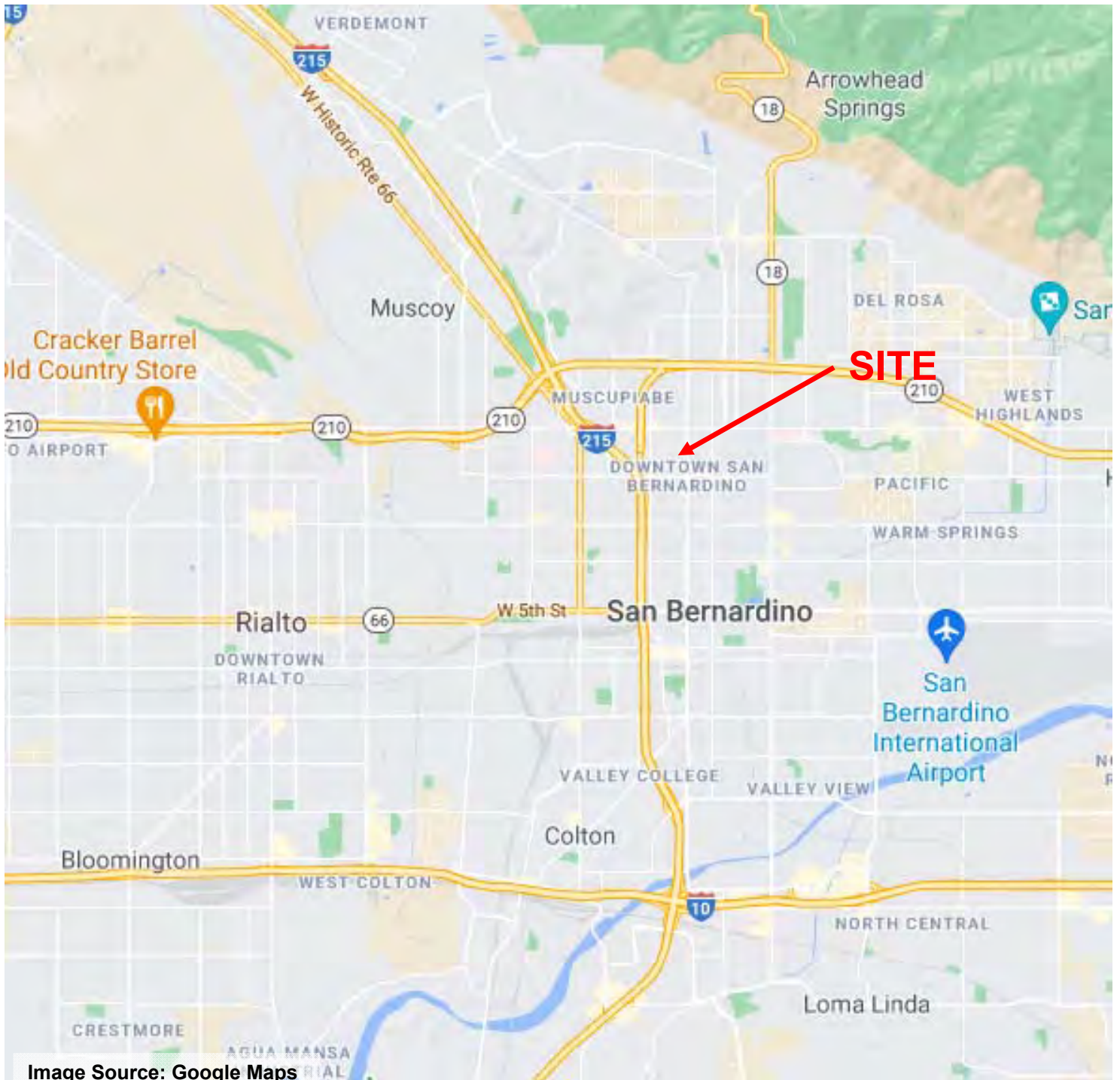


Image Source: Google Maps

## SITE LOCATION MAP



San Bernardino City Unified School District  
San Bernardino High School – Classroom M3  
1805 North E Street  
San Bernardino, California

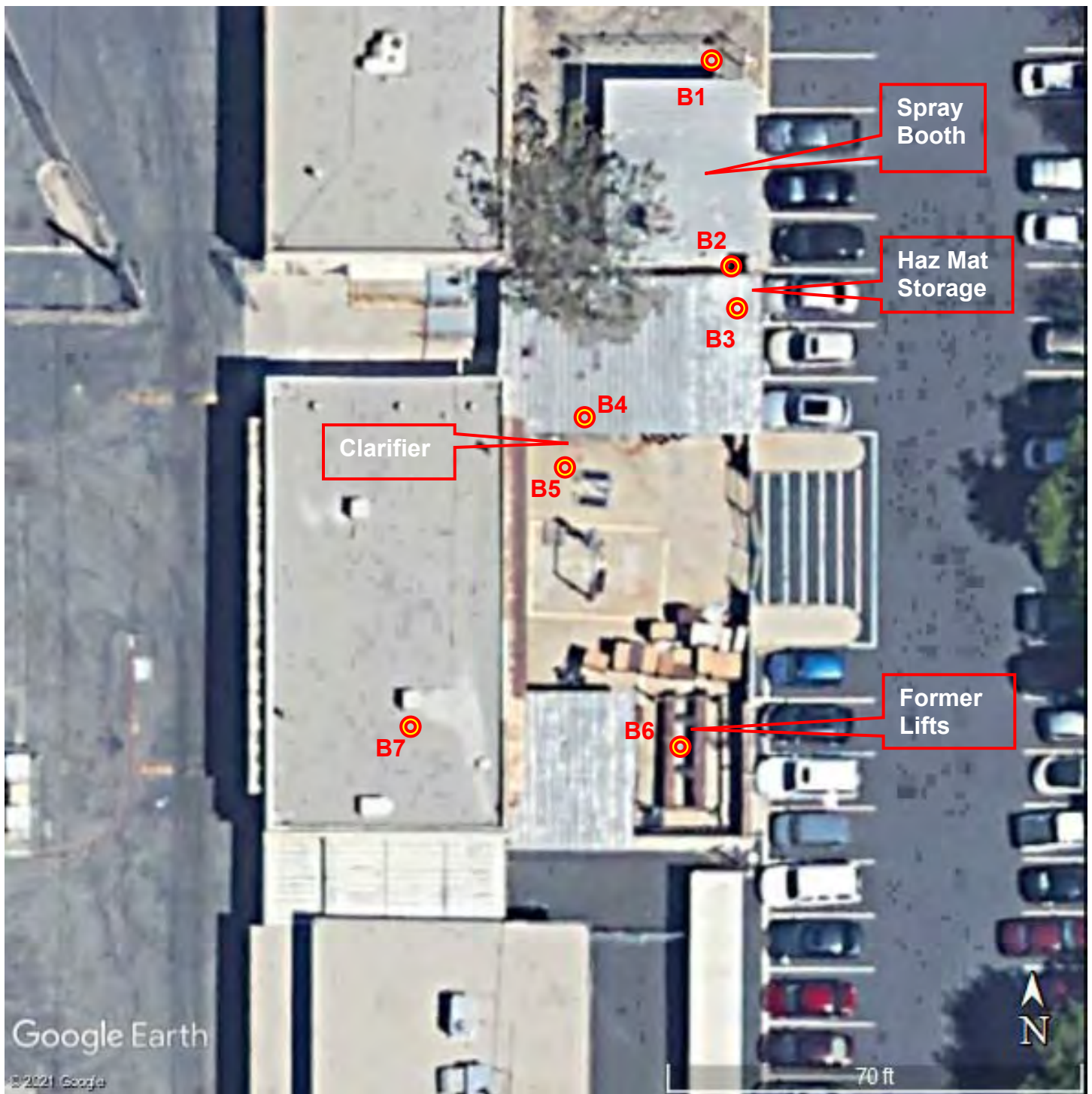
Project No:

18-16-106-03



**Converse Consultants**

FIGURE 1



## SAMPLE LOCATION MAP



San Bernardino City Unified School District  
 San Bernardino High School – Classroom M3  
 1805 North E Street  
 San Bernardino, California

Project No:

18-16-106-03



**Converse Consultants**

FIGURE 2

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Tables

# Tables



Table 1  
Summary of Analytical Results - Soil  
SBCUSD - San Bernardino High School  
1850 North E Street  
San Bernardino, California

Sample ID	Sample Date	Metals (mg/kg)												TPH (mg/kg)			VOCs (mg/kg)
		Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Vanadium	Zinc	All Other Metals	Gasoline	Diesel	Oil	All VOCs
B1-2	4/23/21	ND	36.3	1.2	9.9	5.8	11.1	1.9	0.029	5.1	24.6	27.0	ND	ND	ND	ND	ND
B1-5	4/23/21	ND	48.7	1.7	13.7	8.0	15.7	2.6	0.038	7.2	34.2	35.2	ND	ND	ND	ND	ND
B1-10	4/23/21	ND	28.4	0.9	8.8	4.9	8.1	1.7	0.025	4.5	20.2	24.3	ND	ND	ND	ND	ND
B2-2	4/23/21	ND	49.2	1.6	13.2	7.9	15.7	2.7	ND	7.1	33.2	36.8	ND	ND	ND	ND	ND
B2-5	4/23/21	ND	46.7	1.6	13.8	7.8	15.7	2.4	0.021	7.3	33.8	36.8	ND	ND	ND	ND	ND
B2-10	4/23/21	ND	62.9	2.1	18.3	9.6	16.5	2.5	0.025	9.2	41.6	44.9	ND	ND	ND	ND	ND
B3-2	4/23/21	ND	45.0	1.5	11.9	7.5	13.9	2.3	0.025	6.4	31.6	37.6	ND	ND	ND	ND	ND
B3-5	4/23/21	ND	54.9	1.9	15.2	8.8	16.0	2.8	ND	7.9	38.7	39.9	ND	ND	ND	ND	ND
B4-2	4/23/21	ND	72.2	2.2	17.5	10.4	23.6	9.7	0.024	9.5	43	45.8	ND	ND	ND	42.1	ND
B4-4	4/23/21	ND	64.7	2.0	16.4	9.4	21.6	10.3	0.021	8.7	40.9	43.4	ND	ND	ND	ND	ND
B4-8	4/23/21	ND	66.1	2.4	17.5	10.9	18.4	3.4	0.033	9.3	46.7	58.4	ND	ND	ND	ND	ND
B5-2	4/23/21	ND	51.3	1.8	11.4	6.3	19.7	471	ND	6.0	27.0	87.7	ND	ND	ND	ND	ND
B5-4	4/23/21	ND	43.3	1.5	12.4	7.1	15.1	3.4	ND	6.6	32.0	34.2	ND	ND	ND	ND	ND
B5-8	4/23/21	ND	39.6	1.5	11.8	7.1	12.2	2.3	ND	6.2	31.0	33.1	ND	ND	ND	ND	ND
B6-2	4/23/21	ND	44.2	1.6	11.8	7.1	13.4	13.0	0.024	6.3	30.9	42.9	ND	ND	ND	ND	ND
B6-5	4/23/21	ND	44.0	1.5	13.1	7.8	15.6	2.8	0.022	7.1	33.0	36.1	ND	ND	ND	ND	ND
B6-10	4/23/21	ND	59.7	2.0	17.1	9.9	15.6	3.0	ND	8.9	41.2	45.3	ND	ND	ND	ND	ND
B7-2	4/23/21	ND	33.3	1.2	8.8	5.7	10.0	2.6	0.029	4.9	24.0	29.7	ND	ND	ND	ND	ND
B7-5	4/23/21	ND	46.6	1.6	13.5	7.6	15.7	2.7	ND	7.0	33.9	35.3	ND	ND	ND	ND	ND
B7-10	4/23/21	ND	59.9	1.9	14.8	9.0	15.0	2.5	ND	7.8	37.6	46.0	ND	ND	ND	ND	ND
Screening Levels	Residential	0.067	15,000	71	120,000	23	3,100	80	1.0	820	390	23,000	--	430	260	12,000	--
	Commercial	0.31	220,000	780	1,800,000	350	47,000	320	4.4	11,000	5,800	350,000	--	2,000	1,200	180,000	--
Regulatory Thresholds	TTLc	500	10,000	100	2,500	8,000	2,500	1,000	20	2,000	2,400	5,000	--	--	--	--	--
	STLC*	5	100	1	5	80	25	5	0.2	20	24	250	--	--	--	--	--
	TCLP*	5	100	1	5	--	--	5	0.2	--	--	--	--	--	--	--	--

Hilighting indicates value in excess of screening level

mg/kg = Milligrams per Kilogram

mg/L = Milligrams per Liter

ND = Not Detected

NA = Not Analyzed

TPH = Total Petroleum Hydrocarbons

VOCs = Volatile Organic Compounds

TTLc = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

TCLP = Toxicity Characteristic Leaching Procedure

\* STCL and TCLP values in units of mg/L



**Table 2**  
**Summary of Analytical Results - Soil Vapor**  
 SBCUSD - San Bernardino High School  
 1850 North E Street  
 San Bernardino, California

Sample Location	Sample Depth (ft bgs)	Sample Date	Carbon Tetrachloride	Tetrachloroethene (PCE)	Toluene	All Other VOCs
B1	5	4/23/2021	ND	ND	18	ND
B2	5	4/23/2021	12	ND	56	ND
B5	5	4/23/2021	ND	ND	ND	ND
B6	5	4/23/2021	ND	18	ND	ND
B7	5	4/23/2021	ND	15	ND	ND
Maximum Concentration (ug/m <sup>3</sup> )			12	18	56	--
RWQCB ESL Screening Levels	Residential		16	15	10,000	--
	Commercial / Industrial		68	67	44,000	--
DTSC Screening Levels	Residential		470	460	310,000	--
	Commercial / Industrial		2,000	2,000	1,300,000	--

Exceeds residential ESL

All values in units of micrograms per cubic meter (ug/m<sup>3</sup>)

ft bgs = feet below ground surface

DSTC soil vapor screening levels calculated in accordanc with the vapor intrusion guidance by applying an attenuation factor (AF) of 0.001 to published screening levels for ambient air in HHRA Note 3.

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**Application for  
Authorization to Use**

# Appendix A





# Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

## Application for Authorization to Use

TO: Converse Consultants  
717 South Myrtle Avenue  
Monrovia, California 91016

Project Title & Date: \_\_\_\_\_

Project Address: \_\_\_\_\_

FROM: (Please identify name & address of person/entity applying for permission to use the referenced report.)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Applicant \_\_\_\_\_ hereby applies for permission to use  
the referenced report in order to:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Applicant wishes or needs to use the referenced report because:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*Applicant* also understands and agrees that the referenced document is a copyrighted document and shall remain the sole property of Converse Consultants. Unauthorized use or copying of the report is strictly prohibited without the express written permission of Converse Consultants. *Applicant* understands and agrees that Converse Consultants may withhold such permission at its sole discretion, or grant such permission upon agreement to Terms and Conditions, such as the payment of a re-use fee, amongst others.

Applicant Signature: \_\_\_\_\_

Applicant Name (print): \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



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## Analytical Reports

# Appendix B







714-449-9937  
562-646-1611  
805-399-0060

11007 FOREST PLACE  
SANTA FE SPRINGS, CA 90670  
WWW.JONESENV.COM

## JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** Converse Consultants  
**Client Address:** 717 S Myrtle Ave  
Monrovia, CA 91016

**Attn:** Mike VanFleet

**Project:** San Bernadino High School  
**Project Address:** 1805 North E Street  
San Bernadino, CA

**Report date:** 4/26/2021  
**Jones Ref. No.:** ST-17388  
**Client Ref. No.:** 18-16-106-03

**Date Sampled:** 4/23/2021  
**Date Received:** 4/23/2021  
**Date Analyzed:** 4/26/2021  
**Physical State:** Soil Gas

---

### ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates

**Approval:**

Annalise O'Toole  
Mobile Lab Manager



714-449-9937  
562-646-1611  
805-399-0060

11007 FOREST PLACE  
SANTA FE SPRINGS, CA 90670  
WWW.JONESENV.COM

## JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** Converse Consultants  
**Client Address:** 717 S Myrtle Ave  
Monrovia, CA 91016

**Report date:** 4/26/2021  
**Jones Ref. No.:** ST-17388  
**Client Ref. No.:** 18-16-106-03

**Attn:** Mike VanFleet  
**Project:** San Bernadino High School  
**Project Address:** 1805 North E Street  
San Bernadino, CA

**Date Sampled:** 4/23/2021  
**Date Received:** 4/23/2021  
**Date Analyzed:** 4/26/2021  
**Physical State:** Soil Gas

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	B1-5	B2-5	B5-5	B6-5	B7-5		
<u>Jones ID:</u>	ST-17388-01	ST-17388-02	ST-17388-03	ST-17388-04	ST-17388-05	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	12	µg/m3
Carbon tetrachloride	ND	12	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	12	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	12	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	16	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	10	µg/m3

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	B1-5	B2-5	B5-5	B6-5	B7-5		
<u>Jones ID:</u>	ST-17388-01	ST-17388-02	ST-17388-03	ST-17388-04	ST-17388-05	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	16	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	24	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	16	µg/m3
Tetrachloroethene	ND	ND	ND	<b>18</b>	<b>15</b>	8	µg/m3
Toluene	<b>48</b>	<b>56</b>	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	16	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	16	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recoveries:</u>						<u>QC Limits</u>	
Dibromofluoromethane	130%	125%	133%	133%	121%		60 - 140
Toluene-d <sub>8</sub>	97%	100%	94%	101%	103%		60 - 140
4-Bromofluorobenzene	99%	96%	93%	97%	99%		60 - 140
<u>Batch ID:</u>	D1-042621-01	D1-042621-01	D1-042621-01	D1-042621-01	D1-042621-01		

ND = Value below reporting limit



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## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

**Client:** Converse Consultants  
**Client Address:** 717 S Myrtle Ave  
Monrovia, CA 91016

**Report date:** 4/26/2021  
**Jones Ref. No.:** ST-17388  
**Client Ref. No.:** 18-16-106-03

**Attn:** Mike VanFleet  
**Project:** San Bernadino High School  
**Project Address:** 1805 North E Street  
San Bernadino, CA

**Date Sampled:** 4/23/2021  
**Date Received:** 4/23/2021  
**Date Analyzed:** 4/26/2021  
**Physical State:** Soil Gas

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	<b>METHOD</b>	<b>SAMPLING</b>		
	<b>BLANK</b>	<b>BLANK</b>		
<u>Jones ID:</u>	<b>042621- D1MB1</b>	<b>042621- D1SB1</b>	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>				
Benzene	ND	ND	8	µg/m3
Bromobenzene	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	8	µg/m3
Bromoform	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	12	µg/m3
sec-Butylbenzene	ND	ND	12	µg/m3
tert-Butylbenzene	ND	ND	12	µg/m3
Carbon tetrachloride	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	8	µg/m3
Chloroform	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	12	µg/m3
4-Chlorotoluene	ND	ND	12	µg/m3
Dibromochloromethane	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	8	µg/m3
Dibromomethane	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	16	µg/m3
1,3-Dichlorobenzene	ND	ND	16	µg/m3
1,4-Dichlorobenzene	ND	ND	16	µg/m3
Dichlorodifluoromethane	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	16	µg/m3
1,1-Dichloropropene	ND	ND	10	µg/m3



# JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

## EPA 8260B – Volatile Organics by GC/MS + Oxygenates

<u>Sample ID:</u>	METHOD BLANK	SAMPLING BLANK		
<u>Jones ID:</u>	042621- D1MB1	042621- D1SB1	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>				
cis-1,3-Dichloropropene	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	8	µg/m3
Freon 113	ND	ND	16	µg/m3
Hexachlorobutadiene	ND	ND	24	µg/m3
Isopropylbenzene	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	8	µg/m3
Methylene chloride	ND	ND	8	µg/m3
Naphthalene	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	8	µg/m3
Styrene	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	16	µg/m3
Tetrachloroethene	ND	ND	8	µg/m3
Toluene	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	16	µg/m3
1,1,1-Trichloroethane	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	8	µg/m3
Trichloroethene	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	16	µg/m3
1,2,3-Trichloropropane	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	16	µg/m3
o-Xylene	ND	ND	8	µg/m3
MTBE	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	400	µg/m3
<b><u>Dilution Factor</u></b>	1	1		
<b><u>Surrogate Recoveries:</u></b>			<b><u>QC Limits</u></b>	
Dibromofluoromethane	126%	130%	60 - 140	
Toluene-d <sub>8</sub>	102%	100%	60 - 140	
4-Bromofluorobenzene	105%	92%	60 - 140	
<b><u>Batch ID:</u></b>	D1-042621- 01	D1-042621- 01		

ND = Value below reporting limit



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## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

**Client:** Converse Consultants  
**Client Address:** 717 S Myrtle Ave  
Monrovia, CA 91016

**Report date:** 4/26/2021  
**Jones Ref. No.:** ST-17388  
**Client Ref. No.:** 18-16-106-03

**Attn:** Mike VanFleet

**Date Sampled:** 4/23/2021

**Date Received:** 4/23/2021

**Project:** San Bernadino High School  
**Project Address:** 1805 North E Street  
San Bernadino, CA

**Date Analyzed:** 4/26/2021

**Physical State:** Soil Gas

### EPA 8260B – Volatile Organics by GC/MS + Oxygenates

**Batch ID:** D1-042621-01

**Jones ID:** 042621-D1LCS1 042621-D1LCSD1 042621-D1CCV1

<u>Parameter</u>	LCS Recovery (%)	LCSD Recovery (%)	<u>RPD</u>	Acceptability Range (%)	<u>CCV</u>	Acceptability Range (%)
Vinyl chloride	126%	117%	7.6%	60 - 140	76% <sup>1</sup>	80 - 120
1,1-Dichloroethene	140%	132%	6.3%	60 - 140	93%	80 - 120
Cis-1,2-Dichloroethene	120%	121%	1.0%	70 - 130	96%	80 - 120
1,1,1-Trichloroethane	107%	96%	10.3%	70 - 130	94%	80 - 120
Benzene	103%	100%	3.2%	70 - 130	84%	80 - 120
Trichloroethene	106%	100%	5.7%	70 - 130	94%	80 - 120
Toluene	106%	109%	2.6%	70 - 130	91%	80 - 120
Tetrachloroethene	116%	110%	5.2%	70 - 130	100%	80 - 120
Chlorobenzene	90%	95%	5.5%	70 - 130	85%	80 - 120
Ethylbenzene	102%	104%	1.7%	70 - 130	94%	80 - 120
1,2,4 Trimethylbenzene	107%	105%	2.0%	70 - 130	116%	80 - 120

#### Surrogate Recovery:

Dibromofluoromethane	133%	123%		60 - 140	117%	60 - 140
Toluene-d <sub>8</sub>	97%	101%		60 - 140	98%	60 - 140
4-Bromofluorobenzene	98%	98%		60 - 140	103%	60 - 140

<sup>1</sup>Recovery outside of acceptable limits. LCS/LCSD recoveries and RPD were within QC limits, therefore data was accepted.

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample Duplicate

CCV = Continuing Calibration Verification

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%



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# Air Chain-of-Custody Record

Client: Converse

Project Name: San Bernardino High School

Project Address: 1805 North E Street

Email: mvanfleet@converseconsultants.com

Phone: 626 930-1200

Report To: m vanfleet Sampler: S Wagner

Date: 4/23/21

Client Project #: 18-16-106-03

Purge Rate: 200 cc/min

Shut In Test: Y / N

Jones Project #

ST-17388

Page

1

## Turn Around Requested:

☐ Immediate Attention

Rush:

☐ 24hr ☐ 48hr  
☐ 72hr ☐ 96hr

☒ Normal

## Tracer:

☐ n-pentane

☐ Helium

☐ \_\_\_\_\_

## Purge Number:

☐ 1 PV

☐ 3 PV

☐ 7 PV

☐ 10 PV

## Analysis Requested

TO-15	8260B	Magnehelic Reading (in/H <sub>2</sub> O)	Number of Containers
	X		
	X		
	X		
	X		
	X		

Sample ID	Date Collected	Purge Number	Purge Volume	Laboratory Sample ID	Canister ID	Canister Start Vacuum	Canister End Vacuum	Flow Rate (cc/min)	Sampling Start Time	Sampling End Time	TO-15	8260B	Magnehelic Reading (in/H <sub>2</sub> O)	Number of Containers
B1-5	4/23/21		1L	ST-17388-01	0176	30	5	200	1150	1200		X		
B2-5	4/23/21		1L	ST-17388-02	B2433	30	3	200	1156	1203		X		
B5-5	4/23/21		1L	ST-17388-03	1580	30+	15	200	1210	1225		X		
B6-5	4/23/21		1L	ST-17388-04	B2424	30+	15	200	1230			X		
B7-5	4/23/21		1L	ST-17388-05	151313	30	3	200	1300	13		X		

Relinquished By (Signature): [Signature] Date: 4/23/21

Company: Converse Time: 1522

Relinquished By (Signature): \_\_\_\_\_ Date: \_\_\_\_\_

Company: \_\_\_\_\_ Time: \_\_\_\_\_

Received By (Signature): [Signature] Date: 4-23-21

Company: Jones Env. Time: 1522

Received By Laboratory (Signature): \_\_\_\_\_ Date: \_\_\_\_\_

Company: \_\_\_\_\_ Time: \_\_\_\_\_

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth



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**JONES ENVIRONMENTAL  
LABORATORY RESULTS**

**Client:** Converse Consultants  
**Client Address:** 8333 Foothill Blvd., Suite 128  
Rancho Cucamonga, CA 91730

**Report date:** 4/29/2021  
**Jones Ref. No.:** ST-17389  
**Client Ref. No.:** 18-16-106-03

**Attn:** M. Van Fleet  
**Project:** San Bernardino High School  
**Project Address:** 1805 North E. St.  
San Bernardino, CA

**Date Sampled:** 4/23/2021  
**Date Received:** 4/23/2021  
**Date Analyzed:** 4/24/2021  
**Physical State:** Soil

---

**ANALYSES REQUESTED**

**Soil:**

1. EPA 8015M – Extended Range Hydrocarbons
2. EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics
3. EPA 6010B by 3050B and EPA 7471A – CAM 17 Metals

**Approval:**

Colby Wakeman  
QA/QC Manager





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## JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothills Blvd., Suite 128 Rancho Cucamongo, Ca 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. Van Fleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernadino High School	<b>Date Analyzed:</b>	4/26/2021
<b>Project Address:</b>	1805 North E Street San Bernadino, CA	<b>Physical State:</b>	Soil

### EPA 8015M - Extended Range Hydrocarbons

<u>Sample ID:</u>	B1-2	B1-5	B1-10	B2-2	B2-5		
<u>Jones ID:</u>	ST-17389-01	ST-17389-02	ST-17389-03	ST-17389-04	ST-17389-05	<u>Reporting Limit</u>	<u>Units</u>
<b>Carbon Chain Range</b>							
C10 - C11	ND	ND	ND	ND	ND	1.0	mg/kg
C12 - C13	ND	ND	ND	ND	ND	1.0	mg/kg
C14 - C15	ND	ND	ND	ND	ND	1.0	mg/kg
C16 - C17	ND	ND	ND	ND	ND	1.0	mg/kg
C18 - C19	ND	ND	ND	ND	ND	1.0	mg/kg
C20 - C23	ND	ND	ND	ND	ND	1.0	mg/kg
C24 - C27	ND	ND	ND	ND	ND	1.0	mg/kg
C28 - C31	ND	ND	ND	ND	ND	1.0	mg/kg
C32 - C35	ND	ND	ND	ND	ND	1.0	mg/kg
C36 - C39	ND	ND	ND	ND	ND	1.0	mg/kg
C40 - C43	ND	ND	ND	ND	ND	1.0	mg/kg
C13 - C22	ND	ND	ND	ND	ND	10.0	mg/kg
C23 - C40	ND	ND	ND	ND	ND	10.0	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recovery:</u>						<u>QC Limits</u>	
Hexacosane	107%	108%	106%	113%	109%	30 - 120	
<u>Batch:</u>	FID8	FID8	FID8	FID8	FID8		
	_042621_01	_042621_01	_042621_01	_042621_01	_042621_01		

ND = Value less than reporting limit



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## JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothills Blvd., Suite 128 Rancho Cucamongo, Ca 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. Van Fleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernadino High School	<b>Date Analyzed:</b>	4/26/2021
<b>Project Address:</b>	1805 North E Street San Bernadino, CA	<b>Physical State:</b>	Soil

### EPA 8015M - Extended Range Hydrocarbons

<u>Sample ID:</u>	B2-10	B5-2	B5-4	B5-8	B6-2		
<u>Jones ID:</u>	ST-17389-06	ST-17389-07	ST-17389-08	ST-17389-09	ST-17389-12	<u>Reporting Limit</u>	<u>Units</u>
<b>Carbon Chain Range</b>							
C10 - C11	ND	ND	ND	ND	ND	1.0	mg/kg
C12 - C13	ND	ND	ND	ND	ND	1.0	mg/kg
C14 - C15	ND	ND	ND	ND	ND	1.0	mg/kg
C16 - C17	ND	ND	ND	ND	ND	1.0	mg/kg
C18 - C19	ND	ND	ND	ND	ND	1.0	mg/kg
C20 - C23	ND	ND	ND	ND	ND	1.0	mg/kg
C24 - C27	ND	ND	ND	ND	ND	1.0	mg/kg
C28 - C31	ND	ND	ND	ND	ND	1.0	mg/kg
C32 - C35	ND	ND	ND	ND	ND	1.0	mg/kg
C36 - C39	ND	ND	ND	ND	ND	1.0	mg/kg
C40 - C43	ND	ND	ND	ND	ND	1.0	mg/kg
C13 - C22	ND	ND	ND	ND	ND	10.0	mg/kg
C23 - C40	ND	ND	ND	ND	ND	10.0	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recovery:</u>						<u>QC Limits</u>	
Hexacosane	109%	99%	102%	95%	106%	30 - 120	
<u>Batch:</u>	FID8 _042621 _01	FID8 _042621 _01	FID8 _042621 _01	FID8 _042621 _01	FID8 _042621 _01		

ND = Value less than reporting limit



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## JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothills Blvd., Suite 128 Rancho Cucamonga, Ca 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. Van Fleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernadino High School	<b>Date Analyzed:</b>	4/26/2021
<b>Project Address:</b>	1805 North E Street San Bernadino, CA	<b>Physical State:</b>	Soil

### EPA 8015M - Extended Range Hydrocarbons

<u>Sample ID:</u>	B6-5	B6-10	B7-2	B7-5	B7-10		
<u>Jones ID:</u>	ST-17389-13	ST-17389-14	ST-17389-15	ST-17389-16	ST-17389-17	<u>Reporting Limit</u>	<u>Units</u>
<b>Carbon Chain Range</b>							
C10 - C11	ND	ND	ND	ND	ND	1.0	mg/kg
C12 - C13	ND	ND	ND	ND	ND	1.0	mg/kg
C14 - C15	ND	ND	ND	ND	ND	1.0	mg/kg
C16 - C17	ND	ND	ND	ND	ND	1.0	mg/kg
C18 - C19	ND	ND	ND	ND	ND	1.0	mg/kg
C20 - C23	ND	ND	ND	ND	ND	1.0	mg/kg
C24 - C27	ND	ND	ND	ND	ND	1.0	mg/kg
C28 - C31	ND	ND	ND	ND	ND	1.0	mg/kg
C32 - C35	ND	ND	ND	ND	ND	1.0	mg/kg
C36 - C39	ND	ND	ND	ND	ND	1.0	mg/kg
C40 - C43	ND	ND	ND	ND	ND	1.0	mg/kg
C13 - C22	ND	ND	ND	ND	ND	10.0	mg/kg
C23 - C40	ND	ND	ND	ND	ND	10.0	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recovery:</u>						<u>QC Limits</u>	
Hexacosane	110%	87%	107%	108%	117%	30 - 120	
<u>Batch:</u>	FID8	FID8	FID8	FID8	FID8		
	_042621_01	_042621_01	_042621_01	_042621_01	_042621_01		

ND = Value less than reporting limit



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## JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothills Blvd., Suite 128 Rancho Cucamonga, Ca 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. Van Fleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernadino High School	<b>Date Analyzed:</b>	4/26/2021
<b>Project Address:</b>	1805 North E Street San Bernadino, CA	<b>Physical State:</b>	Soil

### EPA 8015M - Extended Range Hydrocarbons

<u>Sample ID:</u>	B3-2	B3-5	B4-2	B4-4	B4-8		
<u>Jones ID:</u>	ST-17389-18	ST-17389-19	ST-17389-20	ST-17389-21	ST-17389-22	<u>Reporting Limit</u>	<u>Units</u>
Carbon Chain Range							
C10 - C11	ND	ND	ND	ND	ND	1.0	mg/kg
C12 - C13	ND	ND	ND	ND	ND	1.0	mg/kg
C14 - C15	ND	ND	ND	ND	ND	1.0	mg/kg
C16 - C17	ND	ND	ND	ND	ND	1.0	mg/kg
C18 - C19	ND	ND	ND	ND	ND	1.0	mg/kg
C20 - C23	ND	ND	8.3	ND	ND	1.0	mg/kg
C24 - C27	ND	ND	12.8	ND	ND	1.0	mg/kg
C28 - C31	ND	ND	15.6	ND	ND	1.0	mg/kg
C32 - C35	ND	ND	8.7	ND	ND	1.0	mg/kg
C36 - C39	ND	ND	2.6	ND	ND	1.0	mg/kg
C40 - C43	ND	ND	ND	ND	ND	1.0	mg/kg
C13 - C22	ND	ND	ND	ND	ND	10.0	mg/kg
C23 - C40	ND	ND	42.1	ND	ND	10.0	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		
<u>Surrogate Recovery:</u>						<u>QC Limits</u>	
Hexacosane	110%	112%	78%	86%	108%	30 - 120	
<u>Batch:</u>	FID8	FID8	FID8	FID8	FID8		
	_042621_01	_042621_01	_042621_01	_042621_01	_042621_01		

ND = Value less than reporting limit





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## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothills Blvd., Suite 128 Rancho Cucamonga, Ca 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. Van Fleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernadino High School	<b>Date Analyzed:</b>	4/26/2021
<b>Project Address:</b>	1805 North E Street San Bernadino, CA	<b>Physical State:</b>	Soil

### EPA 8015M - Extended Range Hydrocarbons

<u>Sample ID:</u>	<b>METHOD</b>		
	<b>BLANK #1</b>		
<u>Jones ID:</u>	<b>MB1-042621FID8</b>	<u>Reporting Limit</u>	<u>Units</u>
<b>Carbon Chain Range</b>			
C10 - C11	ND	1.0	mg/kg
C12 - C13	ND	1.0	mg/kg
C14 - C15	ND	1.0	mg/kg
C16 - C17	ND	1.0	mg/kg
C18 - C19	ND	1.0	mg/kg
C20 - C23	ND	1.0	mg/kg
C24 - C27	ND	1.0	mg/kg
C28 - C31	ND	1.0	mg/kg
C32 - C35	ND	1.0	mg/kg
C36 - C39	ND	1.0	mg/kg
C40 - C43	ND	1.0	mg/kg
C13 - C22	ND	10.0	mg/kg
C23 - C40	ND	10.0	mg/kg
<u>Dilution Factor</u>	1		
<u>Surrogate Recovery:</u>		<u>QC Limits</u>	
Hexacosane	120%	30 - 120	

**Batch:** FID8  
\_042621 \_01

ND = Value less than reporting limit



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## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothills Blvd., Suite 128 Rancho Cucamonga, Ca 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. Van Fleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernadino High School	<b>Date Analyzed:</b>	4/26/2021
<b>Project Address:</b>	1805 North E Street San Bernadino, CA	<b>Physical State:</b>	Soil

**BATCH:** FID8\_042621\_01      **Prepared:** 4/26/2021      **Analyzed:** 4/26/2021

### EPA 8015M - Extended Range Hydrocarbons

	Result	Spike Level	% Recovery	% RPD	% Recovery Limits	Units
<b>LCS:</b>	LCS1-042621FID8	<b>SAMPLE SPIKED:</b>	CLEAN SOIL			
<b>Analyte:</b>						
Diesel (C10 - C28)	488	500	98%		60 - 140	mg/kg
<b>Surrogate Recovery:</b>						
Hexacosane			111%		30 - 120	
<b>LCSD:</b>	LCSD1-042621FID8	<b>SAMPLE SPIKED:</b>	CLEAN SOIL			
<b>Analyte:</b>						
Diesel (C10 - C28)	490	500	98%	0.4%	60 - 140	mg/kg
<b>Surrogate Recoveries:</b>						
Hexacosane			104%		30 - 120	
<b>CCV:</b>	CCV1-042621FID8					
<b>Analyte:</b>						
Diesel (C10 - C28)	1060	1000	106%		80 - 120	mg/kg

LCS = Laboratory Control Sample  
LCSD= Laboratory Control Sample Duplicate  
CCV = Continuing Calibration Verification  
RPD = Relative Percent Difference



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## JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. Van Fleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/24/2021
<b>Project Address:</b>	1805 North E. St. San Bernardino, CA	<b>Physical State:</b>	Soil

### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	B1-2	B1-5	B1-10	B2-2	B2-5		
<u>Jones ID:</u>	ST-17389-01	ST-17389-02	ST-17389-03	ST-17389-04	ST-17389-05	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<b><u>Sample ID:</u></b>	<b>B1-2</b>	<b>B1-5</b>	<b>B1-10</b>	<b>B2-2</b>	<b>B2-5</b>		
<b><u>Jones ID:</u></b>	<b>ST-17389-01</b>	<b>ST-17389-02</b>	<b>ST-17389-03</b>	<b>ST-17389-04</b>	<b>ST-17389-05</b>	<b><u>Reporting Limit</u></b>	<b><u>Units</u></b>
<b>Analytes:</b>							
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	0.20	mg/kg
<b>TIC:</b>							
Ethanol	ND	ND	ND	ND	ND	50.0	µg/kg
<b><u>Dilution Factor</u></b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>		
<b><u>Surrogate Recoveries:</u></b>						<b><u>QC Limits</u></b>	
Dibromofluoromethane	116%	116%	115%	112%	113%	60 - 140	
Toluene-d <sub>8</sub>	102%	94%	98%	100%	100%	60 - 140	
4-Bromofluorobenzene	109%	106%	109%	105%	105%	60 - 140	
<b><u>Batch:</u></b>	VOC1-042421-01	VOC1-042421-01	VOC1-042421-01	VOC1-042421-01	VOC1-042421-01		

ND = Value less than reporting limit





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## JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. Van Fleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/24/2021
<b>Project Address:</b>	1805 North E. St. San Bernardino, CA	<b>Physical State:</b>	Soil

### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	B2-10	B5-2	B5-4	B5-8	B6-2		
<u>Jones ID:</u>	ST-17389-06	ST-17389-07	ST-17389-08	ST-17389-09	ST-17389-12	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<b>Sample ID:</b>	<b>B2-10</b>	<b>B5-2</b>	<b>B5-4</b>	<b>B5-8</b>	<b>B6-2</b>		
<b>Jones ID:</b>	<b>ST-17389-06</b>	<b>ST-17389-07</b>	<b>ST-17389-08</b>	<b>ST-17389-09</b>	<b>ST-17389-12</b>	<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>							
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	0.20	mg/kg
<b>TIC:</b>							
Ethanol	ND	ND	ND	ND	ND	50.0	µg/kg
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
Dibromofluoromethane	114%	113%	115%	108%	112%	60 - 140	
Toluene-d <sub>8</sub>	101%	100%	102%	102%	95%	60 - 140	
4-Bromofluorobenzene	110%	107%	109%	109%	110%	60 - 140	
<b>Batch:</b>	VOC1-042421-01	VOC1-042421-01	VOC1-042421-01	VOC1-042421-01	VOC1-042421-01		

ND = Value less than reporting limit



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## JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. Van Fleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/24/2021
<b>Project Address:</b>	1805 North E. St. San Bernardino, CA	<b>Physical State:</b>	Soil

### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	B6-5	B6-10	B7-2	B7-5	B7-10		
<u>Jones ID:</u>	ST-17389-13	ST-17389-14	ST-17389-15	ST-17389-16	ST-17389-17	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<b>Sample ID:</b>	<b>B6-5</b>	<b>B6-10</b>	<b>B7-2</b>	<b>B7-5</b>	<b>B7-10</b>		
<b>Jones ID:</b>	<b>ST-17389-13</b>	<b>ST-17389-14</b>	<b>ST-17389-15</b>	<b>ST-17389-16</b>	<b>ST-17389-17</b>	<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>							
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	0.20	mg/kg
<b>TIC:</b>							
Ethanol	ND	ND	ND	ND	ND	50.0	µg/kg
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
Dibromofluoromethane	110%	113%	112%	115%	109%	60 - 140	
Toluene-d <sub>8</sub>	98%	96%	97%	99%	93%	60 - 140	
4-Bromofluorobenzene	104%	107%	103%	111%	102%	60 - 140	
<b>Batch:</b>	VOC1-042421-01	VOC1-042421-01	VOC1-042421-01	VOC1-042421-01	VOC1-042421-01		

ND = Value less than reporting limit





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## JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. Van Fleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/24/2021
<b>Project Address:</b>	1805 North E. St. San Bernardino, CA	<b>Physical State:</b>	Soil

### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	B3-2	B3-5	B4-2	B4-4	B4-8		
<u>Jones ID:</u>	ST-17389-18	ST-17389-19	ST-17389-20	ST-17389-21	ST-17389-22	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Benzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
Bromoform	ND	ND	ND	ND	ND	1.0	µg/kg
n-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
sec-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
tert-Butylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	µg/kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Chloroform	ND	ND	ND	ND	ND	1.0	µg/kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromochloromethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	µg/kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<b>Sample ID:</b>	<b>B3-2</b>	<b>B3-5</b>	<b>B4-2</b>	<b>B4-4</b>	<b>B4-8</b>		
<b>Jones ID:</b>	<b>ST-17389-18</b>	<b>ST-17389-19</b>	<b>ST-17389-20</b>	<b>ST-17389-21</b>	<b>ST-17389-22</b>	<b>Reporting Limit</b>	<b>Units</b>
<b>Analytes:</b>							
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	µg/kg
Ethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Freon 11	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 12	ND	ND	ND	ND	ND	5.0	µg/kg
Freon 113	ND	ND	ND	ND	ND	5.0	µg/kg
Hexachlorobutadiene	ND	ND	ND	ND	ND	1.0	µg/kg
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
4-Isopropyltoluene	ND	ND	ND	ND	ND	1.0	µg/kg
Methylene chloride	ND	ND	ND	ND	ND	1.0	µg/kg
Naphthalene	ND	ND	ND	ND	ND	1.0	µg/kg
n-Propylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Styrene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Tetrachloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
Toluene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	µg/kg
Trichloroethene	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	µg/kg
Vinyl chloride	ND	ND	ND	ND	ND	1.0	µg/kg
m,p-Xylene	ND	ND	ND	ND	ND	2.0	µg/kg
o-Xylene	ND	ND	ND	ND	ND	1.0	µg/kg
Methyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	ND	ND	ND	ND	5.0	µg/kg
Di-isopropylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-amylmethylether	ND	ND	ND	ND	ND	5.0	µg/kg
tert-Butylalcohol	ND	ND	ND	ND	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	ND	ND	ND	ND	0.20	mg/kg
<b>TIC:</b>							
Ethanol	ND	ND	ND	ND	ND	50.0	µg/kg
<b>Dilution Factor</b>	1	1	1	1	1		
<b>Surrogate Recoveries:</b>						<b>QC Limits</b>	
Dibromofluoromethane	113%	113%	109%	114%	111%	60 - 140	
Toluene-d <sub>8</sub>	97%	100%	94%	101%	99%	60 - 140	
4-Bromofluorobenzene	102%	109%	102%	109%	101%	60 - 140	
<b>Batch:</b>	VOC1-042421-01	VOC1-042421-01	VOC1-042421-01	VOC1-042421-01	VOC1-042421-01		

ND = Value less than reporting limit



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## JONES ENVIRONMENTAL LABORATORY RESULTS

**Client:** Converse Consultants  
**Client Address:** 8333 Foothill Blvd., Suite 128  
Rancho Cucamonga, CA 91730

**Report date:** 4/29/2021  
**Jones Ref. No.:** ST-17389  
**Client Ref. No.:** 18-16-106-03

**Attn:** M. Van Fleet

**Date Sampled:** 4/23/2021

**Project:** San Bernardino High School  
**Project Address:** 1805 North E. St.  
San Bernardino, CA

**Date Received:** 4/23/2021

**Date Analyzed:** 4/24/2021

**Physical State:** Soil

### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<u>Sample ID:</u>	<u>METHOD</u>		
	<b>BLANK #1</b>		
<b>Jones ID:</b>	<b>042421- V1MB1</b>		
<b>Analytes:</b>		<b><u>Reporting Limit</u></b>	<b><u>Units</u></b>
Benzene	ND	1.0	µg/kg
Bromobenzene	ND	1.0	µg/kg
Bromodichloromethane	ND	1.0	µg/kg
Bromoform	ND	1.0	µg/kg
n-Butylbenzene	ND	1.0	µg/kg
sec-Butylbenzene	ND	1.0	µg/kg
tert-Butylbenzene	ND	1.0	µg/kg
Carbon tetrachloride	ND	1.0	µg/kg
Chlorobenzene	ND	1.0	µg/kg
Chloroform	ND	1.0	µg/kg
2-Chlorotoluene	ND	1.0	µg/kg
4-Chlorotoluene	ND	1.0	µg/kg
Dibromochloromethane	ND	1.0	µg/kg
1,2-Dibromo-3-chloropropane	ND	1.0	µg/kg
1,2-Dibromoethane (EDB)	ND	1.0	µg/kg
Dibromomethane	ND	1.0	µg/kg
1,2- Dichlorobenzene	ND	1.0	µg/kg
1,3-Dichlorobenzene	ND	1.0	µg/kg
1,4-Dichlorobenzene	ND	1.0	µg/kg
1,1-Dichloroethane	ND	1.0	µg/kg
1,2-Dichloroethane	ND	1.0	µg/kg
1,1-Dichloroethene	ND	1.0	µg/kg
cis-1,2-Dichloroethene	ND	1.0	µg/kg
trans-1,2-Dichloroethene	ND	1.0	µg/kg
1,2-Dichloropropane	ND	1.0	µg/kg
1,3-Dichloropropane	ND	1.0	µg/kg
2,2-Dichloropropane	ND	1.0	µg/kg
1,1-Dichloropropene	ND	1.0	µg/kg
cis-1,3-Dichloropropene	ND	1.0	µg/kg

# JONES ENVIRONMENTAL LABORATORY RESULTS

## EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

<b><u>Sample ID:</u></b>	<b>METHOD</b>		
	<b>BLANK #1</b>		
<b><u>Jones ID:</u></b>	<b>042421- VIMB1</b>	<b><u>Reporting Limit</u></b>	<b><u>Units</u></b>
<b>Analytes:</b>			
trans-1,3-Dichloropropene	ND	1.0	µg/kg
Ethylbenzene	ND	1.0	µg/kg
Freon 11	ND	5.0	µg/kg
Freon 12	ND	5.0	µg/kg
Freon 113	ND	5.0	µg/kg
Hexachlorobutadiene	ND	1.0	µg/kg
Isopropylbenzene	ND	1.0	µg/kg
4-Isopropyltoluene	ND	1.0	µg/kg
Methylene chloride	ND	1.0	µg/kg
Naphthalene	ND	1.0	µg/kg
n-Propylbenzene	ND	1.0	µg/kg
Styrene	ND	1.0	µg/kg
1,1,1,2-Tetrachloroethane	ND	1.0	µg/kg
1,1,2,2-Tetrachloroethane	ND	1.0	µg/kg
Tetrachloroethene	ND	1.0	µg/kg
Toluene	ND	1.0	µg/kg
1,2,3-Trichlorobenzene	ND	1.0	µg/kg
1,2,4-Trichlorobenzene	ND	1.0	µg/kg
1,1,1-Trichloroethane	ND	1.0	µg/kg
1,1,2-Trichloroethane	ND	1.0	µg/kg
Trichloroethene	ND	1.0	µg/kg
1,2,3-Trichloropropane	ND	1.0	µg/kg
1,2,4-Trimethylbenzene	ND	1.0	µg/kg
1,3,5-Trimethylbenzene	ND	1.0	µg/kg
Vinyl chloride	ND	1.0	µg/kg
m,p-Xylene	ND	2.0	µg/kg
o-Xylene	ND	1.0	µg/kg
Methyl-tert-butylether	ND	5.0	µg/kg
Ethyl-tert-butylether	ND	5.0	µg/kg
Di-isopropylether	ND	5.0	µg/kg
tert-amylmethylether	ND	5.0	µg/kg
tert-Butylalcohol	ND	50.0	µg/kg
Gasoline Range Organics (C4-C12)	ND	0.20	mg/kg
<b>TIC:</b>			
Ethanol	ND	50.0	µg/kg
<b><u>Dilution Factor</u></b>	<b>1</b>		
<b><u>Surrogate Recoveries:</u></b>		<b><u>QC Limits</u></b>	
Dibromofluoromethane	112%	60 - 140	
Toluene-d <sub>8</sub>	100%	60 - 140	
4-Bromofluorobenzene	106%	60 - 140	

**Batch:** VOC1-042421-01

ND = Value less than reporting limit





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## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

**Client:** Converse Consultants  
**Client Address:** 8333 Foothill Blvd., Suite 128  
Rancho Cucamonga, CA 91730

**Attn:** M. Van Fleet

**Project:** San Bernardino High School  
**Project Address:** 1805 North E. St.  
San Bernardino, CA

**Report date:** 4/29/2021  
**Jones Ref. No.:** ST-17389  
**Client Ref. No.:** 18-16-106-03

**Date Sampled:** 4/23/2021  
**Date Received:** 4/23/2021  
**Date Analyzed:** 4/24/2021  
**Physical State:** Soil

### EPA 8260B by 5035 – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

GC#:		VOC1-042421-01				
Jones ID:		042421-V1LCS1	042421-V1LCSD1		042421-V1CCV1	
		LCS	LCSD			
Parameter	Recovery (%)	Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	131%	131%	0.5%	60 - 140	91%	80 - 120
1,1-Dichloroethene	114%	124%	8.3%	60 - 140	78%	80 - 120
Cis-1,2-Dichloroethene	108%	111%	3.0%	70 - 130	120%	80 - 120
1,1,1-Trichloroethane	102%	112%	9.6%	70 - 130	118%	80 - 120
Benzene	103%	110%	7.0%	70 - 130	119%	80 - 120
Trichloroethene	107%	117%	8.8%	70 - 130	119%	80 - 120
Toluene	109%	116%	6.5%	70 - 130	118%	80 - 120
Tetrachloroethene	108%	120%	10.2%	70 - 130	119%	80 - 120
Chlorobenzene	111%	114%	3.0%	70 - 130	116%	80 - 120
Ethylbenzene	109%	118%	7.8%	70 - 130	118%	80 - 120
1,2,4 Trimethylbenzene	116%	120%	3.7%	70 - 130	106%	80 - 120
Gasoline Range Organics (C4-C12)	109%	116%	6.2%	70 - 130		
<b>Surrogate Recovery:</b>						
Dibromofluoromethane	107%	109%		60 - 140	108%	80 - 120
Toluene-d <sub>8</sub>	97%	101%		60 - 140	106%	80 - 120
4-Bromofluorobenzene	108%	109%		60 - 140	120%	80 - 120

LCS = Laboratory Control Sample

LCSD = Laboratory Control Sample Duplicate

CCV = Continuing Calibration Verification

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%



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## JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. VanFleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/28-29/2021
<b>Project Address:</b>	1805 North E Street San Bernardino, CA	<b>Physical State:</b>	Soil

### EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

<u>Sample ID:</u>	B1-2	B1-5	B1-10	B2-2	B2-5		
<u>Jones ID:</u>	ST-17389-01	ST-17389-02	ST-17389-03	ST-17389-04	ST-17389-05	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Silver, Ag	ND	ND	ND	ND	ND	0.5	mg/kg
Arsenic, As	ND	ND	ND	ND	ND	5.0	mg/kg
Barium, Ba	36.3	48.7	28.4	49.2	46.7	0.5	mg/kg
Beryllium, Be	ND	ND	ND	ND	ND	0.5	mg/kg
Cadmium, Cd	1.2	1.7	0.9	1.6	1.6	0.5	mg/kg
Cobalt, Co	5.8	8.0	4.9	7.9	7.8	0.5	mg/kg
Chromium, Cr	9.9	13.7	8.8	13.2	13.8	0.5	mg/kg
Copper, Cu	11.1	15.7	8.1	15.7	15.7	0.5	mg/kg
Molybdenum, Mo	ND	ND	ND	ND	ND	0.5	mg/kg
Nickel, Ni	5.1	7.2	4.5	7.1	7.3	0.5	mg/kg
Lead, Pb	1.9	2.6	1.7	2.7	2.4	0.5	mg/kg
Antimony, Sb	ND	ND	ND	ND	ND	5.0	mg/kg
Selenium, Se	ND	ND	ND	ND	ND	5.0	mg/kg
Thallium, Tl	ND	ND	ND	ND	ND	5.0	mg/kg
Vanadium, V	24.6	34.2	20.2	33.2	33.8	0.5	mg/kg
Zinc, Zn	27.0	35.2	24.3	36.8	36.8	1.0	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		

**Batch:** I21042801 I21042801 I21042801 I21042801 I21042801

### EPA 7471A - Mercury by Cold Vapor Atomic Absorption

<u>Sample ID:</u>	B1-2	B1-5	B1-10	B2-2	B2-5		
<u>Jones ID:</u>	ST-17389-01	ST-17389-02	ST-17389-03	ST-17389-04	ST-17389-05	<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	0.029	0.038	0.025	ND	0.021	0.020	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		
<b>Batch:</b>	H21042801	H21042801	H21042801	H21042801	H21042801		

ND = Value less than reporting limit



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## JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. VanFleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/28-29/2021
<b>Project Address:</b>	1805 North E Street San Bernardino, CA	<b>Physical State:</b>	Soil

### EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

<u>Sample ID:</u>	B2-10	B5-2	B5-4	B5-8	B6-2		
<u>Jones ID:</u>	ST-17389-06	ST-17389-07	ST-17389-08	ST-17389-09	ST-17389-12	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Silver, Ag	ND	ND	ND	ND	ND	0.5	mg/kg
Arsenic, As	ND	ND	ND	ND	ND	5.0	mg/kg
Barium, Ba	<b>62.9</b>	<b>51.3</b>	<b>43.3</b>	<b>39.6</b>	<b>44.2</b>	0.5	mg/kg
Beryllium, Be	ND	ND	ND	ND	ND	0.5	mg/kg
Cadmium, Cd	<b>2.1</b>	<b>1.8</b>	<b>1.5</b>	<b>1.5</b>	<b>1.6</b>	0.5	mg/kg
Cobalt, Co	<b>9.6</b>	<b>6.3</b>	<b>7.1</b>	<b>7.1</b>	<b>7.1</b>	0.5	mg/kg
Chromium, Cr	<b>18.3</b>	<b>11.4</b>	<b>12.4</b>	<b>11.8</b>	<b>11.8</b>	0.5	mg/kg
Copper, Cu	<b>16.5</b>	<b>19.7</b>	<b>15.1</b>	<b>12.2</b>	<b>13.4</b>	0.5	mg/kg
Molybdenum, Mo	ND	ND	ND	ND	ND	0.5	mg/kg
Nickel, Ni	<b>9.2</b>	<b>6.0</b>	<b>6.6</b>	<b>6.2</b>	<b>6.3</b>	0.5	mg/kg
Lead, Pb	<b>2.5</b>	<b>471</b>	<b>3.4</b>	<b>2.3</b>	<b>13.0</b>	0.5	mg/kg
Antimony, Sb	ND	ND	ND	ND	ND	5.0	mg/kg
Selenium, Se	ND	ND	ND	ND	ND	5.0	mg/kg
Thallium, Tl	ND	ND	ND	ND	ND	5.0	mg/kg
Vanadium, V	<b>41.6</b>	<b>27.0</b>	<b>32.0</b>	<b>31.0</b>	<b>30.9</b>	0.5	mg/kg
Zinc, Zn	<b>44.9</b>	<b>87.7</b>	<b>34.2</b>	<b>33.1</b>	<b>42.9</b>	1.0	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		

**Batch:** I21042801 I21042801 I21042801 I21042801 I21042801

### EPA 7471A - Mercury by Cold Vapor Atomic Absorption

<u>Sample ID:</u>	B2-10	B5-2	B5-4	B5-8	B6-2		
<u>Jones ID:</u>	ST-17389-06	ST-17389-07	ST-17389-08	ST-17389-09	ST-17389-12	<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	<b>0.025</b>	ND	ND	ND	<b>0.024</b>	0.020	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		
<b>Batch:</b>	H21042801	H21042801	H21042801	H21042801	H21042801		

ND = Value less than reporting limit



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## JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. VanFleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/28-29/2021
<b>Project Address:</b>	1805 North E Street San Bernardino, CA	<b>Physical State:</b>	Soil

### EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

<u>Sample ID:</u>	B6-5	B6-10	B7-2	B7-5	B7-10		
<u>Jones ID:</u>	ST-17389-13	ST-17389-14	ST-17389-15	ST-17389-16	ST-17389-17	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Silver, Ag	ND	ND	ND	ND	ND	0.5	mg/kg
Arsenic, As	ND	ND	ND	ND	ND	5.0	mg/kg
Barium, Ba	44.0	59.7	33.3	46.6	59.9	0.5	mg/kg
Beryllium, Be	ND	ND	ND	ND	ND	0.5	mg/kg
Cadmium, Cd	1.5	2.0	1.2	1.6	1.9	0.5	mg/kg
Cobalt, Co	7.8	9.9	5.7	7.6	9.0	0.5	mg/kg
Chromium, Cr	13.1	17.1	8.8	13.5	14.8	0.5	mg/kg
Copper, Cu	15.6	15.6	10.0	15.7	15.0	0.5	mg/kg
Molybdenum, Mo	ND	ND	ND	ND	ND	0.5	mg/kg
Nickel, Ni	7.1	8.9	4.9	7.0	7.8	0.5	mg/kg
Lead, Pb	2.8	3.0	2.6	2.7	2.5	0.5	mg/kg
Antimony, Sb	ND	ND	ND	ND	ND	5.0	mg/kg
Selenium, Se	ND	ND	ND	ND	ND	5.0	mg/kg
Thallium, Tl	ND	ND	ND	ND	ND	5.0	mg/kg
Vanadium, V	33.0	41.2	24.0	33.9	37.6	0.5	mg/kg
Zinc, Zn	36.1	45.3	29.7	35.3	46.0	1.0	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		

**Batch:** I21042801 I21042801 I21042801 I21042801 I21042801

### EPA 7471A - Mercury by Cold Vapor Atomic Absorption

<u>Sample ID:</u>	B6-5	B6-10	B7-2	B7-5	B7-10		
<u>Jones ID:</u>	ST-17389-13	ST-17389-14	ST-17389-15	ST-17389-16	ST-17389-17	<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	0.022	ND	0.029	ND	ND	0.020	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		
<b>Batch:</b>	H21042801	H21042801	H21042801	H21042801	H21042801		

ND = Value less than reporting limit





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## JONES ENVIRONMENTAL LABORATORY RESULTS

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. VanFleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/28-29/2021
<b>Project Address:</b>	1805 North E Street San Bernardino, CA	<b>Physical State:</b>	Soil

### EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

<u>Sample ID:</u>	B3-2	B3-5	B4-2	B4-4	B4-8		
<u>Jones ID:</u>	ST-17389-18	ST-17389-19	ST-17389-20	ST-17389-21	ST-17389-22	<u>Reporting Limit</u>	<u>Units</u>
<b>Analytes:</b>							
Silver, Ag	ND	ND	ND	ND	ND	0.5	mg/kg
Arsenic, As	ND	ND	ND	ND	ND	5.0	mg/kg
Barium, Ba	45.0	54.9	72.2	64.7	66.1	0.5	mg/kg
Beryllium, Be	ND	ND	ND	ND	ND	0.5	mg/kg
Cadmium, Cd	1.5	1.9	2.2	2.0	2.4	0.5	mg/kg
Cobalt, Co	7.5	8.8	10.4	9.4	10.9	0.5	mg/kg
Chromium, Cr	11.9	15.2	17.5	16.4	17.5	0.5	mg/kg
Copper, Cu	13.9	16.0	23.6	21.6	18.4	0.5	mg/kg
Molybdenum, Mo	ND	ND	ND	ND	ND	0.5	mg/kg
Nickel, Ni	6.4	7.9	9.5	8.7	9.3	0.5	mg/kg
Lead, Pb	2.3	2.8	9.7	10.3	3.4	0.5	mg/kg
Antimony, Sb	ND	ND	ND	ND	ND	5.0	mg/kg
Selenium, Se	ND	ND	ND	ND	ND	5.0	mg/kg
Thallium, Tl	ND	ND	ND	ND	ND	5.0	mg/kg
Vanadium, V	31.6	38.7	43.0	40.9	46.7	0.5	mg/kg
Zinc, Zn	37.6	39.9	45.8	43.4	58.4	1.0	mg/kg
<u>Dilution Factor</u>	1	1	1	1			

**Batch:** I21042801 I21042801 I21042701 I21042701 I21042701

### EPA 7471A - Mercury by Cold Vapor Atomic Absorption

<u>Sample ID:</u>	B3-2	B3-5	B4-2	B4-4	B4-8		
<u>Jones ID:</u>	ST-17389-18	ST-17389-19	ST-17389-20	ST-17389-21	ST-17389-22	<u>Reporting Limit</u>	<u>Units</u>
Mercury, Hg	0.025	ND	0.024	0.021	0.033	0.020	mg/kg
<u>Dilution Factor</u>	1	1	1	1	1		
<b>Batch:</b>	H21042801	H21042801	H21042701	H21042701	H21042701		

ND = Value less than reporting limit



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## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. VanFleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/28-29/2021
<b>Project Address:</b>	1805 North E Street San Bernardino, CA	<b>Physical State:</b>	Soil

**BATCH:** I21042801      **Prepared:** 4/28/2021      **Analyzed:** 4/29/2021

### EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

Analytes:	Result	Spike Level	% REC	% REC Limits	% RPD	Reporting Limit	Units
<b>METHOD BLANK:</b>	<b>I210428-MB1</b>						
Silver, Ag	ND					0.5	mg/kg
Arsenic, As	ND					5.0	mg/kg
Barium, Ba	ND					0.5	mg/kg
Beryllium, Be	ND					0.5	mg/kg
Cadmium, Cd	ND					0.5	mg/kg
Cobalt, Co	ND					0.5	mg/kg
Chromium, Cr	ND					0.5	mg/kg
Copper, Cu	ND					0.5	mg/kg
Molybdenum, Mo	ND					0.5	mg/kg
Nickel, Ni	ND					0.5	mg/kg
Lead, Pb	ND					0.5	mg/kg
Antimony, Sb	ND					5.0	mg/kg
Selenium, Se	ND					5.0	mg/kg
Thallium, Tl	ND					5.0	mg/kg
Vanadium, V	ND					0.5	mg/kg
Zinc, Zn	ND					1.0	mg/kg

ND= Not Detected



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## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. VanFleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/28-29/2021
<b>Project Address:</b>	1805 North E Street San Bernardino, CA	<b>Physical State:</b>	Soil

**BATCH:** I21042801      **Prepared:** 4/28/2021      **Analyzed:** 4/29/2021

### EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Spike Level	% REC	% RPD	% REC Limits	Units
<b>Analyses:</b>						
<b>LCS: I210428-LCS1</b>						
Barium, Ba	214	200	107%		80 - 120	mg/kg
Cobalt, Co	48.7	50.0	97%		80 - 120	mg/kg
Lead, Pb	52.7	50.0	105%		80 - 120	mg/kg
Selenium, Se	185	200	93%		80 - 120	mg/kg
Zinc, Zn	45.2	50.0	90%		80 - 120	mg/kg
<b>LCSD: I210428-LCSD1</b>						
Barium, Ba	214	200	107%		80 - 120	mg/kg
Cobalt, Co	49.1	50.0	98%	0.8%	80 - 120	mg/kg
Lead, Pb	53.0	50.0	106%	0.6%	80 - 120	mg/kg
Selenium, Se	188	200	94%	1.6%	80 - 120	mg/kg
Zinc, Zn	45.0	50.0	90%	0.4%	80 - 120	mg/kg
<b>CCV: I210428-CCV1</b>						
Barium, Ba	1.05	1.00	105%		90-110	mg/L
Cobalt, Co	1.04	1.00	104%		90-110	mg/L
Lead, Pb	1.08	1.00	108%		90-110	mg/L
Selenium, Se	1.09	1.00	109%		90-110	mg/L
Zinc, Zn	1.04	1.00	104%		90-110	mg/L

CCV = Continuing Calibration Verification

LCS = Laboratory Control Sample

LCSD= Laboratory Control Sample Duplicate

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. VanFleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/28-29/2021
<b>Project Address:</b>	1805 North E Street San Bernardino, CA	<b>Physical State:</b>	Soil

**BATCH:** I21042701      **Prepared:** 4/27/2021      **Analyzed:** 4/28/2021

### EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

Analytes:	Result	Spike Level	% REC	% REC Limits	% RPD	Reporting Limit	Units
<b>METHOD BLANK:</b>	<b>I210427-MB1</b>						
Silver, Ag	ND					0.5	mg/kg
Arsenic, As	ND					5.0	mg/kg
Barium, Ba	ND					0.5	mg/kg
Beryllium, Be	ND					0.5	mg/kg
Cadmium, Cd	ND					0.5	mg/kg
Cobalt, Co	ND					0.5	mg/kg
Chromium, Cr	ND					0.5	mg/kg
Copper, Cu	ND					0.5	mg/kg
Molybdenum, Mo	ND					0.5	mg/kg
Nickel, Ni	ND					0.5	mg/kg
Lead, Pb	ND					0.5	mg/kg
Antimony, Sb	ND					5.0	mg/kg
Selenium, Se	ND					5.0	mg/kg
Thallium, Tl	ND					5.0	mg/kg
Vanadium, V	ND					0.5	mg/kg
Zinc, Zn	ND					1.0	mg/kg

ND= Not Detected





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## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. VanFleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/28-29/2021
<b>Project Address:</b>	1805 North E Street San Bernardino, CA	<b>Physical State:</b>	Soil

**BATCH:** I21042701      **Prepared:** 4/27/2021      **Analyzed:** 4/28/2021

### EPA 6010B by 3050 - Title 22 CAM 17 Trace Metals by ICP-OES

	Result	Spike Level	% REC	% RPD	% REC Limits	Units
<b><u>Analyses:</u></b>						
<b>LCS:</b>	<b>I210427-LCS1</b>					
Barium, Ba	211	200	106%		80 - 120	mg/kg
Cobalt, Co	48.6	50.0	97%		80 - 120	mg/kg
Lead, Pb	52.5	50.0	105%		80 - 120	mg/kg
Selenium, Se	188	200	94%		80 - 120	mg/kg
Zinc, Zn	45.4	50.0	91%		80 - 120	mg/kg
<b>LCSD:</b> I210427-LCSD1						
Barium, Ba	211	200	106%		80 - 120	mg/kg
Cobalt, Co	48.7	50.0	97%	0.2%	80 - 120	mg/kg
Lead, Pb	52.9	50.0	106%	0.8%	80 - 120	mg/kg
Selenium, Se	191	200	96%	1.6%	80 - 120	mg/kg
Zinc, Zn	45.3	50.0	91%	0.2%	80 - 120	mg/kg
<b>CCV:</b> I210427-CCV1						
Barium, Ba	1.03	1.00	103%		90-110	mg/L
Cobalt, Co	1.02	1.00	102%		90-110	mg/L
Lead, Pb	1.06	1.00	106%		90-110	mg/L
Selenium, Se	1.07	1.00	107%		90-110	mg/L
Zinc, Zn	1.01	1.00	101%		90-110	mg/L

CCV = Continuing Calibration Verification

LCS = Laboratory Control Sample

LCSD= Laboratory Control Sample Duplicate

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%



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## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. VanFleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/28-29/2021
<b>Project Address:</b>	1805 North E Street San Bernardino, CA	<b>Physical State:</b>	Soil

**BATCH:** H21042801      **Prepared:** 4/28/2021      **Analyzed:** 4/28/2021

### EPA 7471A - Mercury by Cold Vapor Atomic Absorption

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
<b>METHOD BLANK:</b>	<b>H210428-MB1</b>						
Mercury, Hg	ND					0.020	mg/kg

<b>LCS:</b>	<b>H210428-LCS1</b>						
Mercury, Hg	0.85	1.00	85%		80 - 120		mg/kg

<b>LCSD:</b>	<b>H210428-LCSD1</b>						
Mercury, Hg	0.83	1.00	83%	2.4%	80 - 120		mg/kg

<b>CCV:</b>	<b>H210428-CCV1</b>						
Mercury, Hg	5.06	5.00	101%		90-110		µg/L

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

LCS = Laboratory Control Sample

LCSD= Laboratory Control Sample Duplicate

CCV = Continuing Calibration Verification

RPD = Relative Percent Difference



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## JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

<b>Client:</b>	Converse Consultants	<b>Report date:</b>	4/29/2021
<b>Client Address:</b>	8333 Foothill Blvd., Suite 128 Rancho Cucamonga, CA 91730	<b>Jones Ref. No.:</b>	ST-17389
		<b>Client Ref. No.:</b>	18-16-106-03
<b>Attn:</b>	M. VanFleet	<b>Date Sampled:</b>	4/23/2021
		<b>Date Received:</b>	4/23/2021
<b>Project:</b>	San Bernardino High School	<b>Date Analyzed:</b>	4/28-29/2021
<b>Project Address:</b>	1805 North E Street San Bernardino, CA	<b>Physical State:</b>	Soil

**BATCH:** H21042701      **Prepared:** 4/27/2021      **Analyzed:** 4/28/2021

### EPA 7471A - Mercury by Cold Vapor Atomic Absorption

Analytes:	Result	Spike Level	% REC	% RPD	% REC Limits	Reporting Limit	Units
<b>METHOD BLANK:</b>	<b>H210427-MB1</b>						
Mercury, Hg	ND					0.020	mg/kg

<b>LCS:</b>	<b>H210427-LCS1</b>						
Mercury, Hg	0.90	1.00	90%		80 - 120		mg/kg

<b>LCSD:</b>	<b>H210427-LCSD1</b>						
Mercury, Hg	0.93	1.00	93%	3.3%	80 - 120		mg/kg

<b>CCV:</b>	<b>H210427-CCV1</b>						
Mercury, Hg	4.56	5.00	91%		90-110		µg/L

ND= Not Detected

RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

LCS = Laboratory Control Sample

LCSD= Laboratory Control Sample Duplicate

CCV = Continuing Calibration Verification

RPD = Relative Percent Difference







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# Chain-of-Custody Record

Client Converse

Project Name San Bernardino High School

Project Address 1805 North E street  
San Bernardino, CA

Email

Phone

Report To M Van Fleet Sampler S Wagner

Date 4/23/21

Client Project # 18-16-106-03

Sample Container | Preservative  
Abbreviations

V - VOAS  
AS - Acetate Sleeve  
SS - Stainless Steel Sleeve  
BS - Brass Sleeve  
G - Glass Jar  
AB - Amber Bottle  
P - Plastic  
SOBI - Sodium Bisulfate  
MeOH - Methanol  
HCl - Hydrochloric Acid  
HNO3 - Nitric Acid  
O - Other (See Notes)

## Turn Around Requested:

- ☐ Immediate Attention  
☐ Rush 24 Hours  
☐ Rush 48 Hours  
☐ Rush 72 Hours  
☒ Normal

## Report Options

EDD \_\_\_\_\_  
EDF\* - 10% Surcharge \_\_\_\_\_

\*Global ID \_\_\_\_\_

LAB USE ONLY

Jones Project #

ST-17389

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Sample Condition as Received:

Chilled ☐ yes ☐ no  
Sealed ☐ yes ☐ no

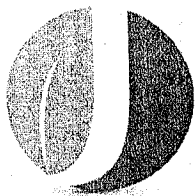
## Analysis Requested

Sample ID	Date	Sample Collection Time	Jones ID Lab Use Only	Preservative	Sample Container	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Free Product (FP)	Hold	Number of Containers	Notes & Special Instructions
B5-16	4/23/21	955	ST-17389-11	10 pads	1 per State 2 micron	S			HOLD
B6-2		1010	ST-17389-12				X	X	X
-5		1015	ST-17389-13				X	X	X
-10		1020	ST-17389-14				X	X	X
B7-2		1100	ST-17389-15				X	X	X
-5		1105	ST-17389-16				X	X	X
-10		1110	ST-17389-17				X	X	X
B3-2		1200	ST-17389-18				X	X	X
-5		1215	ST-17389-19				X	X	X
B4-2		1220	ST-17389-20				X	X	X

Relinquished By (Signature) <u>[Signature]</u>	Printed Name <u>Spencer Wagner</u>	Date <u>4/23/21</u>	Time <u>1522</u>	Received By (Signature) <u>[Signature]</u>	Printed Name <u>Juan Camacho</u>	Date <u>4-23-21</u>	Time <u>1522</u>	Total Number of Containers
Company <u>Converse</u>				Company <u>[Signature]</u>				
Relinquished By (Signature)	Printed Name	Date	Time	Received By Laboratory (Signature)	Printed Name	Date	Time	
Company				Company				

Client signature on this Chain of Custody form constitutes acknowledgment that the above analyses have been requested, and the information provided herein is correct and accurate





**JONES**  
ENVIRONMENTAL, INC.

714-449-9937  
562-646-1611

11007 FOREST PLACE  
SANTA FE SPRINGS, CA 90670  
WWW.JONESENV.COM

## SAMPLE RECEIPT FORM

Jones ID: ST-17389

CLIENT: Converse

DATE/TIME: 4-23-21 / 1523

PROJECT: 18-16-106-03

RECEIVED BY: JC

Delivered by: ☒ Client ☐ Jones Courier ☐ UPS / FedEx / USPS ☐ Other

### TEMPERATURE:

Temperature Cooler #1 19.0 °C ± 0.1°C

Temperature Cooler #2 \_\_\_\_\_ °C ± 0.1°C

Temp Criteria: 0 ≤ 6°C (NO frozen containers)

Criteria met? ☐ Yes

☒ No

If criteria is not met:

Sample(s) received on ice?

☐ Yes

☒ No\*

Sample(s) received chilled on same day of sampling?

☒ Yes

☐ No\*

Ambient Temperature: 20.1 °C

Checked by: JC

### SAMPLE CONDITION:

Chain of Custody (COC) received filled out completely-----

YES

NO\*

N/A

☒

☐

☐

Total number of containers received match COC-----

☒

☐

☐

Sample container label(s) consistent with COC-----

☒

☐

☐

Sample container(s) intact and in good condition-----

☒

☐

☐

Proper containers and sufficient volume for analyses requested on COC-----

☒

☐

☐

Proper preservative indicated on COC/containers for analyses requested -----

☒

☐

☐

Volatile analysis container(s) free of headspace (EPA 8260 water) -----

☐

☐

☒

Custody Seals Intact on Cooler/Sample-----

☐

☐

☒

### CONTAINER TYPE:

Solid:

VOAs: \_\_\_\_\_

Glass Jar: 11

Sleeve: 11

Other: \_\_\_\_\_

22 E<sub>n</sub> Core

Aqueous:

Amber Bottle: \_\_\_\_\_

VOAs: \_\_\_\_\_

Poly Bottle: \_\_\_\_\_

Air / Soil Gas:

Tedlar Bag: \_\_\_\_\_

6 hr

72 hr

5 Day

Summa:

(1L) \_\_\_\_\_ (6L) \_\_\_\_\_

### MILEAGE:

Round Trip Mileage: \_\_\_\_\_

Travel Time: \_\_\_\_\_

On Site Time: \_\_\_\_\_

\*Complete Non-Conformance if checked

Checked by: JC

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**SECTION 01 11 00  
SUMMARY OF WORK**

**PART 1 - GENERAL**

**1.01 SECTION INCLUDES**

- A. Summary of the Work of these Contract Documents for the construction of:

**PROJECT:** F21-04 SBHS – Bldg. M “Maker Space”

**Architect:** Davy Architecture

**Contact:** Jennifer Timmons

**Email:** jtimmons@davyarchitecture.com

**1.02 GENERAL**

- A. Work under this Contract includes furnishing all labor, materials, services and transportation which is required for completion of the Project at F21-04 SBHS – Bldg. M “Maker Space” Project in accordance with the Contract Documents.
- B. The Contract Time for completion shall be that shown in the Construction Progress Schedule.
- Once the CONTRACTOR has received a notice to proceed, the CONTRACTOR shall complete the work **within 360 Calendar Days** from receipt of the notice to proceed. It is expressly understood that time is of the essence.
- C. At the F21-04 SBHS – Bldg. M “Maker Space” Project, some of the work may be performed within a portion of an active school campus. All work shall be conducted in a manner that does not impact the health and safety of school staff, students, site workers and project personnel, adjacent property owners, and/or the general public. Contractor shall at all times employ safety practices and environmental controls which take into consideration the fact that work is being performed on an active school campus. All work shall be performed in a manner which maximizes safety.
- D. Contract Drawings: The Drawings provided with and identified in the Project Manual are the Drawings referenced in the Agreement.
1. The location, extent and configuration of the required construction and improvements are shown and noted on Drawings.
    - a. The Drawings are referenced in the Agreement.
    - b. An index of Drawings is included in the set of Drawings.
  2. Drawings are arranged into series according to design discipline. Such organization and all references to trades, subcontractor, specialty contractor or supplier shall not control the Contractor in dividing the

Work among subcontractors or in establishing the extent of the Work to be performed by any trade.

3. Where the terms "as shown", "as indicated", "as noted", "as detailed", "as scheduled", or terms of like meaning, are used in the Drawings or Specifications, it shall be understood that reference is being made to the Drawings referenced in the Agreement.
4. Where reference to the word "plans" is made anywhere in Drawings, Specifications and related Contract Documents, it shall be understood to mean the Drawings referenced in the Agreement.

- E. Contractor's Safety Performance Requirement: SBCUSD places safety and safe work practices at a premium, especially in regard to operations on active District campuses.
- F. All work shall be performed in a manner that minimizes impact to the environment, minimizes waste and maximizes the amount of salvageable material recovered throughout the project(s).

A. All work shall be performed in a manner that minimizes noise and vibration impacts to the adjacent classrooms, school operations and surrounding neighborhood. In some cases, loud or high vibration activities may have to be rescheduled to accommodate school instructional or testing activities. Such activities may require work on weekends, during holiday breaks, or other times when the campus is not occupied. Cost of rescheduling and of off hours' work shall be at Contractor's expense. Holiday break periods for the 2021-22 and 2022-23 school years are as follows:

• Summer Break	6/7/21 – 7/26/21
• Independence Day	7/5/21
• 1 <sup>st</sup> day school YR 21-22	8/2/21
• Labor Day	9/6/21
• Veterans Day	11/11/21
• Thanksgiving	11/22/21-11/26/21
• Winter Recess	12/20/21-1/7/22
• Dr. Martin Luther King Jr.	1/17/22
• Lincoln's Birthday	2/14/22
• Washington's Birthday	2/21/22
• Spring Break	3/21/22 – 4/1/22
• Memorial Day	5/30/22
• Summer Break	6/2/22 – 7/25/22
• 1 <sup>st</sup> day of school YR22-23	* 1 <sup>st</sup> Monday in August 2023

- G. All work shall be performed in a manner that protects existing infrastructure, landscaping, furnishings, equipment, and other structures or items designated to remain.
- H. All work shall be performed in a manner that meets the District's expectation for safe work execution, as well as adherence to schedule and project budget.

### 1.03 SUMMARY SCOPE OF WORK

The complete Scope of Work shall be as detailed in project contract documents, exhibits and attachments, project General Conditions, RFP documents and attachments, project drawings and specifications. A brief summary of the Scope of Work is provided below:

#### A. Scope of Work

Scope of Work for the F21-04 SBHS – Bldg. M “Maker Space” Project campus includes:

1. Demolition of three existing buildings including underground utilities. Site preparation and grading will include installation of new underground utilities, construction of three new structures of type VB construction (proposed buildings M1, M2, and M3), additional construction will consist of various site work including fencing, water retention basins, courtyards, plantings, and an exterior non-combustible canopy system.
2. Replacement of all existing fire alarm control panels at the admin building to comply with the DSA voice evac system for the new buildings (proposed buildings M1, M2, and M3). Remove the existing fire alarm system in its entirety and the installation of a new addressible fire alarm system in its place and additional devices for coverage to comply with the latest NFPA 2019 standard.
3. Provide new floor mounted transformer to feed new building (proposed buildings M1, M2, and M3).

#### B. COVID-19 Safety

All Contractor employees, subcontractors and visitors shall be required to comply with SBCUSD **COVID-19 Safety Plan** (see *RFP Division 00 Attachment 13 - COVID-19 Safety Plan*) prior to entering any SBCUSD campus, jobsite or work location

### 1.04 BIDDER'S INVESTIGATIONS

#### A. Bidder's Investigation:

Bidder shall visit site and become familiar with site conditions at the project site.

1. Bidder may, at Bidder's own expense and prior to bidding, make soil surveys and investigations Bidder considers necessary, following written notification to and approval by the District representative.
2. Bidder assumes risk that soil and underground conditions may be other than that indicated in soil investigation data.

#### B. Procedures:

1. Obtain authorization from authorized District Representative prior to start of borings or subsurface investigations.

2. Immediately upon completion of Bidder's subsurface investigation, return site areas affected by investigations to condition existing prior to start of Bidder subsurface investigations as directed by District Representative.

## **1.05 WORK COMPONENTS**

The following work components are required by the Contract, Technical Specifications and Bid Proposal Exhibits and text of this RFP:

### **A. Activities Prior to Start of On-site Work:**

1. Obtain ALL permits necessary to perform the scope of work.
2. Prepare and file all required notifications, including but not limited to South Coast Air Quality Management District (SCAQMD) Rule 1403 required notifications. SCAQMD Notifications must be filed at least 10 days before the start of work.
3. Submit and fully adhere to Contractor's health and safety plan in full compliance with CalOSHA, SCAQMD, and project specifications. Site work may not proceed until this plan is delivered to and accepted by District.
4. District has contracted a survey of asbestos, lead-based paint and other hazardous wastes to confirm presence of these materials. (See survey reports – Attached in Specifications).
5. Identify and procure the services of licensed waste haulers and properly permitted Waste Disposal/Management Facilities for the transportation and disposal of all material generated during hazardous materials abatement and demolition activities.
6. Submit a detailed work schedule for the project for review and acceptance by District.

### **B Hazardous Material Abatement and/or Mitigation:**

A hazardous materials survey was conducted. Findings are summarized in their report of date, JUNE 4, 2018 BY CONVERSE. Hazardous material abatement and/or mitigation activities are to include abatement of, but are not limited to, the following materials

1. Asbestos Containing Materials (ACMs)
2. Lead-Based Paint (LBP) and Lead containing items
3. Other Hazardous Materials:
  - a. Any and all existing fluorescent light bulbs that will be impacted by demolition and or renovation activities should be removed, disposed of or recycled as Mercury containing waste. All such light tubes should be handled and containerized properly, in a manner to prevent breaking and potentially releasing mercury.
4. Contractor shall be responsible for the all required employee training, regulatory agency notifications, jobsite signage as well as proper removal and disposal of any/all hazardous materials designated to be

removed or that are encountered in the course of the project(s).

5. Any/all hazardous materials abatement work completed while campus is occupied shall be completed between the hours of 4:00 p.m. and 7:00 a.m., or during holidays, weekends or other days when school is not in session.

### **C. Campus Systems to Remain Operational**

1. All campus systems and utilities shall remain operational throughout the project, including but not limited to:
  - a) Electrical service
  - b) Water
  - c) Irrigation
  - d) Storm drains
  - e) Sewer
  - f) Natural gas
  - g) Telephone
  - h) Data (Ethernet, Wi-Fi and or cable service)
  - i) Public Address System
  - j) Campus synchronized clocks & bells
  - k) Security system(s)
    - l) including cameras, sensors, and electronic strikes
2. Fire Alarm Systems shall remain operational.

In the event of any alarm condition, or if required for testing or fire drill procedures, Contractor shall allow District and/or fire personnel immediate access to fire alarm control panel(s).
3. Campus synchronized clock and bells system shall remain operational.

In the event that campus administration staff need to adjust clock or bell schedules, Contractor shall allow District personnel access to the bell system control panel(s).
4. The campus public address amplifier shall remain operational.
5. Data switches, equipment and data cabling from Electrical Room to other campus buildings shall remain operational throughout the duration of the project.

### **D. Demolition**

1. All employees engaged in selective demolition activities shall be instructed regarding the contents of the Contractor's Health & Safety Plan(s).
2. Any/all demolition shall be performed in a manner that emphasizes and maximizes the safety of students, staff, area residents as well as project personnel and support staff.



3. Demolition shall be performed in a manner that does not encroach upon or cause damage to adjacent properties and structures.
4. Demolition shall be performed in a manner that facilitates safe and efficient handling and load out of materials for disposal.
5. The sequence of Demolition, material stockpiling, loadout, transport, and disposal shall be performed in a manner that promotes a smooth workflow to meet schedule milestones.
6. Contactor shall take measures to protect in place adjacent trees and landscaping designated to remain.

#### **E. Construction**

1. All employees engaged in construction activities shall be instructed regarding the contents of the Contractor's Health & Safety Plan(s).
2. Any/all construction shall be performed in a manner that emphasizes and maximizes the safety of students, staff, area residents as well as project personnel and support staff.
3. Any/all construction shall be performed in full compliance with project plans, specifications, and documents.
4. Any/all construction shall be performed in full compliance with regulatory requirements.

### **1.06 SEQUENCING OF WORK**

- A. Proper regulatory notifications must be filed and Health & Safety plans be submitted, and permits be secured prior to commencing site work. Proof of filing of regulatory agency notifications will be required prior to start of work.
- B. Installation of perimeter fencing and screening must be completed prior to initiation of other site activities.
- C. Hazardous Materials Abatement work must be completed, inspected and approved by the District representative and/or District consultant prior to the start of any demolition.

### **1.07 PERMITS, LICENSES AND FEES**

#### **A. Permits:**

1. For Work included in the Contract, Contractor shall obtain all permits from authorities having jurisdiction including but not limited to City of San Bernardino, serving utility companies and other state and local regulatory agencies.
2. District will reimburse Contractor for amount charged for such permits, without mark-up.

#### **B. Licenses and certifications:**

1. Contractor shall obtain and pay all licenses and certifications associated with project demolition, abatement and construction activities, such as

business licenses, contractors' licenses and vehicle and equipment licenses.

2. All costs for licenses shall be included in the Contract Sum.

**C. Assessments:**

1. District will pay all assessments and utility service connection fees. Costs of assessments shall not be included in the Contract Sum.

**D. Test and Inspection Fees:**

1. Contractor shall pay all fees charged by authorities having jurisdiction and from serving utility companies and agencies, for tests and inspections conducted by those authorities, companies and agencies.
2. District will reimburse Contractor for actual amount of such fees, without mark-up.

**END OF SECTION**

**SECTION 01 11 14**  
**WORK SEQUENCE and PHASING**

**PART 1 - GENERAL**

**1.01 SECTION INCLUDES**

- A. Requirements for phasing of the Work include logistics, phasing, and completion of designated phases prior to commencement of subsequent phases.

**1.02 RELATED SECTIONS**

- A. Summary of the Work
- B. Project Coordination and Meetings
- C. Submittals
- D. Construction Progress Schedule
- E. Construction Facilities
- F. Temporary Controls
- G. Contract Closeout

**1.03 SUBMITTALS**

- A. Prior to commencement of the Work, CONTRACTOR shall prepare and submit to the DISTRICT a Project Logistics Plan, including a Logistics Site Plan, showing in detail the Contractor's Work Sequence/Phasing plan, in the same size and scale as the architectural site plan, including, but not limited to, the following, items:
  - 1. Truck access route to and from the Project site, in accordance with local ordinances.
  - 2. Location of any overhead wire restrictions for power, street lighting, signal, and/or cable.
  - 3. Local sidewalk access and street closure requirements.
  - 4. Protection of sidewalk pedestrians and vehicular traffic.
  - 5. Project site fencing and access gate locations.
  - 6. Construction parking.
  - 7. Material staging and/or delivery areas.
  - 8. Material storage areas.
  - 9. Temporary trailer locations.
  - 10. Temporary service location and proposed routing of all temporary utilities.
  - 11. Location of temporary and/or accessible fire protection
  - 12. Trash removal and location of dumpsters.
  - 13. Concrete pumping locations.
  - 14. Crane locations.
  - 15. Location of portable sanitary facilities.
  - 16. Mixer truck wash out locations.
  - 17. Traffic control signage.
  - 18. Perimeter and site lighting.
  - 19. Provisions for Storm Water Pollution Prevention Plan – SWPPP
  - 20. Stockpile and/or lay down areas.

21. Proposed methods of protecting remaining owner furnishings and equipment.
22. Areas for separately identified phases of the work.
23. Barriers to separate construction activities from on-going school operations and circulation.

#### 1.04 PHASING OF THE WORK --GENERAL

- A. Project will be constructed in separate phases, or milestone increments, as identified or described in this Section and other parts of the Contract Documents. The Logistics Plan must define and delineate Work to be completed in each designated phase.
- B. Each phase will be required to be completed according to the Milestones included in the approved Construction Progress Schedule, prior to the commencement of the next subsequent phase, unless exception is granted by the District. CONTRACTOR shall incorporate in the plan and coordinate the Work of separate work contracts or of DISTRICT relative to each separate phase of this Project.
- C. CONTRACTOR shall prepare the Construction Progress Schedule in order to complete the Work and related activities in accordance with the phasing requirements, and to meet both the Milestone and Contract Time requirements.
- D. CONTRACTOR shall install all necessary Work for utilities and services, including, but not limited to, power, lighting, signal, HVAC, drainage, and plumbing systems in phased Work before completion of the designated phase. All valves, pull boxes, stub outs, temporary valves or capping, and other Work necessary for phased completion and operation of all necessary systems shall be provided whether or not such Work is specifically identified in the Contract Documents.

#### 1.05 PHASING OF THE WORK – SPECIFIC

- A. CONTRACTOR shall prepare the Construction Progress Schedule including phased Milestones, under the following general headings:  
 Phase 1 Mobilization – (# of days) calendar days:  
 N/A  
 Phase 2 Utility Re-routing and Hazardous Materials Abatement – (# of days) calendar days:  
 N/A  
 Phase 3 Demolition – (# of days) calendar days:  
 N/A
- B. The Contract Time shall be that shown in the Construction Progress Schedule.

### END OF SECTION

## **SECTION 01 11 40 WORK RESTRICTIONS**

### **PART 1 – GENERAL**

#### **SECTION INCLUDES:**

Contractor's Use of Premises  
Access Roads  
Parking  
Work Hours  
Restrictions on Noise, Dust, and Odor Emissions  
Restrictions on Air Emissions of Toxic Chemicals  
Protection of Existing Utilities

#### **CONTRACTOR'S USE OF PREMISES:**

- A.** Contractor shall confine all operations, including the storage of materials, to the designated areas of the Project Site as shown in the Drawings, or as otherwise approved in writing by the Owner's Representative. Contractor shall be responsible for arranging for, and paying the costs of, any necessary off-site storage. No Impacted Materials shall be stored or stockpiled outside of the Project Site.
- B.** Contractor's use of the premises shall be limited to the Work being performed under the Specifications and Drawings.
- C.** Contractor shall be responsible for the security and safety of Contractor's equipment and facilities. Owner and the Owner's Representative shall not be liable for loss or damage of Contractor's tools, vehicles, equipment, or materials, whatever the cause. Such loss or damage shall not be sufficient reason for changes in the Project Schedule.
- D.** Contractor shall be responsible for any damage to roadways, facilities, (unless otherwise marked for removal), or structures on, or adjacent to, the site due to negligence, carelessness, actions, errors, or omissions on the part of the Contractor.

#### **ACCESS ROADS:**

- A.** Contractor vehicles shall enter and exit the site only at the location designated or as otherwise approved in writing by the Owner's Representative.
- B.** Contractor shall be responsible for obtaining any permits and paying any fees necessary for Contractor's use of public streets or roads.
- C.** Contractor shall abide by local, state, and federal regulations, including, but not limited to, any flaggers and signage for impeded traffic flow on public streets.
- D.** Contractor shall, at all times, provide for unimpeded access for emergency vehicles to the Project Site and nearby properties.



**PARKING:**

- A.** Contractor shall park construction vehicles and construction equipment only in areas designated for such purpose in accordance with Specifications.
- B.** Contractor employees shall park personal vehicles only in an employee parking area as designated by the Owner's Representative.
- C.** Vehicles shall not be parked in any locations where they impede traffic or access to areas where Work is being conducted.

**WORK HOURS:**

- A.** Normal Work Hours (for activities other than hazardous materials abatement) will be 7:00 a.m. to 5:00 p.m. Monday through Friday, or as determined in advance of Work between the Owner's Representative and Owner. Work hours established by any ordinance, law, or regulation shall supersede the requirements of this Specification.
- B.** Hazardous materials abatement activities shall not be conducted during normal school hours. Hazardous materials abatement activities shall occur on school holidays or weekends or, on school days, between the hours of 4:00 p.m. and 7:00 a.m.
- C.** Should alternate or extended work hours be approved, Contractor shall conduct all Work during daylight hours so that the Work can be conducted safely and the Owner's Representative can effectively observe the Work, or Contractor may furnish adequate lighting for activities conducted by prior written approval of the Owner's Representative. Contractor shall provide adequate lighting at all times, as deemed necessary by the Owner's Representative for safety reasons, provided that the Contractor can demonstrate that light levels in the Work area meet or exceed OSHA Regulations.
- D.** Contractor may conduct regular equipment maintenance during hours outside of the Normal Work Hours defined in this Section. The Contractor shall notify the Owner's Representative of such activities.
- E.** Contractor personnel shall not work on site alone.
- F.** Any variation from Normal Work Hours, or work on weekends or holidays shall be subject to approval by the Owner's Representative and Owner. Contractor shall submit notice to the Owner's Representative no less than 24 hours prior to requesting any necessary variation from Normal Work Hours, to allow for adequate review and coordination of staff. Contractor's notice to the Owner's Representative and Owner shall include Work activities to be conducted outside of Normal Work Hours, the hours and days that those activities shall be conducted, and the requested duration of the change in Normal Work Hours.
- G.** Emergency repairs of equipment outside of Normal Work Hours may be performed without 24-hour notice, but Contractor shall verbally notify the Owner's Representative prior to such emergency maintenance.

**RESTRICTIONS ON NOISE, DUST, AND ODOR EMISSIONS:**

- A.** Contractor is responsible for conducting all Work in accordance with all applicable Laws and Regulations concerning work hours, noise or sound levels including but not limited to the requirements of the City of San Bernardino. Work involving high noise or high vibration

levels may be restricted so as not to conflict with school testing and/or instructional activities.

- B.** Contractor is responsible for conducting all Work in accordance with all applicable Laws and Regulations concerning airborne dust emissions including but not limited to the requirements of SCAQMD and the City of San Bernardino.
- C.** Contractor is responsible for conducting all Work in accordance with all applicable Laws and Regulations concerning odor emissions including but not limited to the provisions of the City of San Bernardino.
- D.** Contractor shall control the Work at all times such that noise, dust, and odor measurements do not exceed the Action Levels in the Specifications, Contractor's Health and Safety Plan and or regulatory limits.
- E.** The Owner's Representative and Owner shall have authority to direct Contractor to stop Work or modify Work methods or activities as necessary to comply with the Health and Safety Plan, to prevent interruption to school testing or instructional activities, or should the Owner's Representative deem odor emissions, noise levels, or dust emissions be excessive.

#### **1.07. RESTRICTIONS ON AIR EMISSIONS OF HAZARDOUS OF TOXIC MATERIALS:**

- A.** Contractor shall be responsible for conducting all Work in accordance with Laws and Regulations concerning airborne emissions of hazardous dusts or toxic chemicals including but not limited to the requirements of SCAQMD, California DTSC and the City of San Bernardino.
- B.** Contractor shall control the Work at all times such that concentrations of airborne constituents measured at the perimeter of the work area are below the Action Levels set forth in the Health and Safety Plan and/or regulations.
- C.** The District and/or Owner's Representative shall have authority to direct the Contractor to stop Work or modify Work methods or activities as necessary to enforce compliance with the Action Levels for airborne emissions of toxic chemicals.

#### **1.08. PROTECTION OF EXISTING UTILITIES:**

- A.** Contractor shall contact and cooperate with utility companies to locate and mark all utilities (including pipelines, cables, power poles, and other structures) on the site prior to beginning the Work. Utility location shall be in compliance with Specifications, Drawings and Contract documents.
- B.** Contractor shall comply with the requirements of specific utility protection Laws or Regulations.
- C.** All utilities shall be protected from damage during construction, unless otherwise indicated to be removed or abandoned. If damaged, the utilities shall be repaired as required by the utility's Owner at the Contractor's expense.
- D.** If a utility is encountered or otherwise made known to the Contractor prior to beginning the Work, the Contractor shall promptly take necessary steps to assure that the utility is not damaged, and give written notice to the Owner's Representative. The Owner's Representative shall then review the conditions and determine the extent, if any, to which

a change is required in the Contract Documents to reflect and document the consequences of the existence of the utility.

- E.** Contractor will be aware of and plan to prevent damage to underground utilities that might be caused by walking heavy equipment across the site. The Contractor will prevent mitigation measures in their costs and work plan to prevent damage to underground utilities.

#### **END OF SECTION**

**SECTION 01 20 00  
PRICE AND PAYMENT PROCEDURES**

**PART 1 - GENERAL**

**1.01 SECTION INCLUDES**

- A. Payment Procedures
- B. Schedule of Values

**1.02 RELATED SECTIONS**

- 1. Construction Progress Schedule
- 2. Contract Closeout
- 3. Allowances

**1.03 SCHEDULE OF VALUES**

- A. Submit a Schedule of Values to the ARCHITECT for review and approval within 10 calendar days after the date of DISTRICT-CONTRACTOR Agreement. Submit in electronic Excel spreadsheet format.
- B. In the Schedule of Values, the Contract Sum shall be broken down into specific elements of the Work, as follows, coded in accordance with the DISTRICT'S coding structure.
  - 1. General Contractor's Overhead and Profit
  - 2. Site Mobilization
  - 3. Bonds and Insurance
  - 4. Field Supervision
  - 5. Project Close-Out (Section of General Requirements)
  - 6. Other General Conditions and General Requirements
  - 7. Demolition
  - 8. Site Clearing and Preparation
  - 9. Site Earthwork
  - 10. Site Improvements (Paving, etc.)
  - 11. Site Utilities
  - 12. Landscape Irrigation
  - 13. Landscape Planting
  - 14. Hazardous Materials Abatement
  - 15. HVAC Work

16. Plumbing
  17. Fire Protection Sprinklers
  18. Electrical Power Rerouting
  19. Electrical Site Lighting
  20. Fire Alarm and Smoke Detection Systems
  21. Electrical Communications and Security Systems
- C. On projects of more than one building, provide separate schedules for each building.
- D. The percent-complete values from the approved cost-loaded Construction Progress Schedule shall provide the basis for each Application for Payment. Before each Application, update the Progress Schedule with all approved Change Orders.

#### 1.04 APPLICATION FOR PAYMENT

- A. Submit Application for Payment to the ARCHITECT and IOR for review, in electronic format. Upon approval submit three (3) signed and original copies of each certified application. All copies shall be complete, including the updated Schedule of Values or Construction Progress Schedule, releases and similar attachments. Transmit each copy with a transmittal form listing attachments and recording appropriate information related to the application, in a manner acceptable to ARCHITECT
- B. Each certified Application for Payment shall be consistent with previous applications and payments as reviewed by ARCHITECT and IOR; paid for by OWNER.
- C. Payment Application Times: The period of Work covered by each Application for Payment is based on the payment date for each progress payment as specified in the General Conditions. The period covered by each Application for Payment is the previous month.
- D. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with the first certified Application for Payment include, but are not limited to, the following:
1. Certified Schedule of Values or Cost-Loaded Schedule
  2. Performance and payment bonds
  3. List of principal suppliers and fabricators
  4. Worker Compensation certificates
  5. Auto Insurance



6. Hazardous Material Insurance Certificates
  7. Construction Progress Schedule
  8. Submittal Schedule
  9. Emergency Contact List
  10. Copies of authorizations and licenses from governing authorities for performance of the Work
- E. Application for Payment at Substantial Completion: Following OWNER issuance of the certificate of Substantial Completion, submit an Application for Payment together with the following:
1. Occupancy permits and similar approvals by authorities having legal jurisdiction over the Work
  2. Removal of temporary facilities and services
  3. Testing, adjusting and balance records
  4. Removal of surplus materials, rubbish, and similar elements
  5. Meter readings
  6. Start-up performance reports
  7. OWNER training and orientations
  8. Change-over information related to OWNER occupancy, use, operation, and maintenance
  9. Final cleaning
  10. Ensure that incomplete Work is not accepted and will be completed without undue delay
  11. Advice on shifting insurance coverage
  12. List of defective Work, recognized as exceptions to certificate of Substantial Completion
  13. Change of door locks to OWNER system
- F. Final Payment Application: Administrative actions and submittals that must precede or coincide with submittal of the final Application for Payment include, but are not limited to, the following:
1. Completion of Contract Closeout requirements
  2. Project record and other closeout documents
  3. Completion of final punch list items
  4. Delivery of extra materials, products and or stock
  5. Identification of unsettled claims

6. Proof that taxes, fees, and similar obligations are paid
7. Evidence of payment and release of liens
8. Operating and maintenance instruction manuals
9. Consent of surety to final payment
10. Waivers and releases
11. Warranties, guarantees and maintenance agreements

G. Retention

1. Retention will be released no sooner than 35 days and not later than 60 days after Notice of Completion has been recorded with the County Recorder's Office.

**END OF SECTION**

**SECTION 01 25 13**  
**PRODUCT SUBSTITUTION PROCEDURES**

**1. PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Product options.
- B. Substitution procedures.

**1.2 DEFINITIONS**

- A. Requests for changes in products, materials, or equipment required by Contract Documents proposed by the Contractor prior to and after award of the Contract are considered requests for substitutions. The following are not considered substitutions:
  - 1. Revisions to Contract Documents requested by the Owner or Architect.
  - 2. Specified options of products, materials, and equipment included in Contract Documents.

**1.3 PRODUCT OPTIONS**

- A. Products Specified by Reference Standards or by Description Only: Any product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers with Provision for Substitution: Products of manufacturers named and meeting specifications with substitution of products or manufacturer only when submitted under provisions of this section.
- C. Products Specified by Naming One or More Manufacturers without Provision for Substitution: No substitution allowed.

**1.4 LIMITATIONS ON SUBSTITUTIONS SUBMITTED PRIOR TO THE RECEIPT OF BIDS**

- A. The Bid shall be based upon the standards of quality established by those items of equipment and/or materials which are specifically identified in the Contract Documents.
- B. Architect may consider requests for substitutions of specified equipment and/or materials only when requests are received by Architect prior to the date established for the receipt of bids as stipulated in Document 00 21 13 - Instructions to Bidders.
- C. Consideration by Architect of a substitution request will be made only if request is made in strict conformance with provisions of this section.
- D. Burden of proof of merit of requested substitution is the responsibility of the entity requesting the substitution.

- E. It is the sole responsibility of the entity requesting the substitution to establish proper content of submittal for requests for substitutions. Incomplete submittals will be rejected.
- F. Architect's decision on substitution requests are final and do not require documentation or justification.
- G. When substitution is not accepted, provide specified product.
- H. Substitute products shall not be included within the bid without written acceptance by Addendum.

## 1.5 LIMITATIONS ON SUBSTITUTIONS SUBMITTED AFTER THE AWARD OF THE CONTRACT

- A. The Contract is based upon the standards of quality established by those items of equipment and/or materials which are specifically identified in the Contract Documents.
- B. Consideration by Architect of substitution requests received after the established date of the receipt of bids or contract award will only be made when one or more of the following conditions are met and documented:
  - 1. Specified item fails to comply with regulatory requirements.
  - 2. Specified item has been discontinued.
  - 3. Specified item, through no fault of the Contractor, is unavailable in the time frame required to meet project schedule.
  - 4. Specified item, through subsequent information disclosure, will not perform properly or fit in designated space.
  - 5. Manufacturer declares specified product to be unsuitable for use intended or refuses to warrant installation of product.
  - 6. Substitution would be, in the sole judgement of the Architect, a substantial benefit to the Owner in terms of cost, time, energy conservation, or other consideration of merit.
- C. Notwithstanding the provisions of Article 1.4 of this section and the above, the Architect may consider a substitution request after the date of the receipt of bids or contract award, if in the sole discretion of the Architect, there appears to be just cause for such a request. The acceptance of such a late request does not waive any other requirement as stated herein.
- D. Consideration by Architect of a substitution request will be made only if request is made in strict conformance with provisions of this section.
- E. Substitutions will not be considered when they are indicated or implied on shop drawings or product data submittals without separate written request as required by provisions of this section.
- F. Review of shop drawings does not constitute acceptance of substitutions indicated or implied on shop drawings.
- G. Substitutions will not be considered when requested or submitted directly by subcontractor or supplier.
- H. Substitutions will not be considered as a result of the failure to pursue the work promptly or coordinate activities properly.



- I. Burden of proof of merit of requested substitution is the responsibility of the Contractor.
- J. It is the sole responsibility of the Contractor to establish proper content of submittal for requests for substitutions. Incomplete submittals will be rejected.
- K. Owner shall receive full benefit of any cost reduction as a result of any request for substitution.
- L. Architect's decision on substitution requests is final and does not require documentation or justification.
- M. When substitution is not accepted, provide specified product.
- N. Substitute products shall not be ordered or installed without written acceptance.

#### 1.6 REGULATORY REQUIREMENTS

- A. It shall be the responsibility of the entity requesting the substitution to obtain all regulatory approvals required for proposed substitutions.
- B. All regulatory approvals shall be obtained for proposed substitutions prior to submittal of substitution request to Architect.
- C. All costs incurred by the Owner in obtaining regulatory approvals for proposed substitutions to include the costs of the Architect and any authority having jurisdiction over the project shall be reimbursed to the Owner. Costs of these services shall be reimbursed regardless of final acceptance or rejection of substitution.
- D. Substitutions of materials or work procedures which affect the health, safety and welfare of the public shall have prior approval of the Division of the State Architect (DSA) field representative.

#### 1.7 SUBSTITUTION REPRESENTATION

- A. In submitting a request for substitution, the entity requesting the substitution makes the representation that he or she:
  - 1. Has investigated the proposed substitution and has determined that it meets or exceeds the quality level of the specified product.
  - 2. Will provide the same warranty or guarantee for the substitution as for the specified product.
  - 3. Will coordinate installation and make changes to other work which may be required for the work to be completed with no additional cost to the Owner.
  - 4. Waives claims for additional cost or time extension which may subsequently become apparent.

5. Will reimburse Owner for the cost of Architect's review or redesign services associated with substitution request.

#### 1.8 SUBMITTAL PROCEDURE

- A. Submit six copies of each request.
- B. Submit request with Architect's Substitution Request Form. Form may be obtained at the office of the Architect. Substitution requests received without request form will be returned unreviewed.
- C. Limit each request to one proposed substitution.
- D. Request to include sufficient data so that direct comparison of proposed substitution can be made.
- E. Provide complete documentation for each request. Documentation shall include the following information, as appropriate, as a minimum:
  1. Statement of cause for substitution request.
  2. Identify product by specification section and article number.
  3. Provide manufacturer's name, address, and phone number. List fabricators, suppliers, and installers as appropriate.
  4. List similar projects where proposed substitution has been used, dates of installation and names of Architect and Owner.
  5. List availability of maintenance services and replacement materials.
  6. Documented or confirmation of regulatory approval.
  7. Product data, including drawings and descriptions of products.
  8. Fabrication and installation procedures.
  9. Samples of proposed substitutions.
  10. Itemized comparison of significant qualities of the proposed substitution with those of the product specified. Significant qualities may include size, weight, durability, performance requirements and visual effects.
  11. Coordination information, including a list of changes or modifications needed to other items of work that will become necessary to accommodate proposed substitution.
  12. Statement on the substitutions effect on the construction schedule.

13. Cost information including a proposal of the net change, if any, in the Contract sum if the substitution is submitted after the receipt of bids or contract award.
  14. Certification that the substitution is equal to or better in every respect to that required by the Contract Documents and that substitution will perform adequately in the application intended.
  15. Waiver of right to additional payment or time that may subsequently become necessary because of failure of substitution to perform adequately.
- F. Inadequate warranty, vagueness of submittal, failure to meet specified requirements, or submittal of insufficient data will be cause for rejection of substitution request.

#### 1.9 ARCHITECT'S REVIEW

- A. Within 14 days of receipt of request for substitution, the Architect will accept or reject proposed substitution.
- B. If a decision on a substitution cannot be made within the time allocated, the product specified shall be used.
- C. There shall be no claim for additional time for review of proposed substitutions.
- D. Final acceptance of a substitution submitted prior to the date established for the receipt of bids will be in the form of an addendum.
- E. Final acceptance of a substitution submitted after the award of the contract will be in the form of a Change Order.

### 2. PART 2 PRODUCTS

Not Used.

### 3. PART 3 EXECUTION

Not Used.

END OF SECTION

**SECTION 01 26 00**  
**CONTRACT MODIFICATION PROCEDURES**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. This Section specifies administrative and procedural requirements for making modifications to the contract including:
  - 1. Change Orders
  - 2. Construction Change Documents (see General Conditions)
  - 3. Contract Credits
  - 4. Contract Additions
  - 5. Construction Change Directives
  - 6. Immediate Change Directives (see General Conditions)
  - 7. Instructions
- B. Modifications:
  - 1. Provide full written data required to evaluate contract modifications, including breakdown of labor, material, equipment and description of work with unit costs for each category.
  - 2. Maintain detailed records of work done on a time-and-material basis.
  - 3. Provide full documentation for all proposed Change Orders to the Architect for his review.
- C. Designate in writing the member of Contractor's organization:
  - 1. Who is authorized to accept changes in the Work.
  - 2. Who is responsible for informing others in the Contractor's employ of the authorization of changes in the Work.

**1.02 RELATED SECTIONS**

- A. Addenda: All issued Addendums
- B. Agreement: TheA amounts of unit prices if any as established in the Contract.
- C. General Conditions Article 7, Changes in the Work.
- D. Section 01 30 00 - Administrative Requirements for Submittal Procedures.
- E. Section 01 60 00 - Product Requirements

**1.03 REFERENCES**

- A. Change Order Requirements per Title 24 Part 1 CCR.
  - 1. Change Orders: Changes or alterations of the approved plans or specifications after a contract for the work has been awarded are to be made by means of Change Orders. State the reason for the change and provide supplementary drawings where necessary. Change Orders must be manually signed by the Architect or

- Engineer in general responsible charge of observation of the work or by the Architect or Engineer delegated responsibility for observation of the portion of the work affected by the Change Order.
2. Change Orders are required to bear the approval of the School Board or their authorized representative upon delegated authority.

#### **1.04 PRELIMINARY PROCEDURES**

- A. The Architect or School District may initiate changes by submitting a Request for Proposal. The request will include:
  1. Detailed description of the Change, Products, and location of the change in the Project. Changes may include additions and deletions from the Contract.
  2. Supplementary or revised Drawings and Specifications.
  3. The projected time span for making the change and a specific statement as to whether overtime work is, or is not, authorized.
  4. A specific period of time during which the requested price will be considered valid.
  5. Such request is for information only, and is not an instruction to execute the changes, nor to stop Work in progress.
- B. Contractor may initiate changes by submitting a written Change Order Request to the Architect or School District containing:
  1. Description of the proposed change.
  2. Statement of the reason for making the changes.
  3. Statement of the effect on the Contract Sum/ Contract Price and the Contract Time.
  4. Statement of the effect on the Work of separate contractors with breakdown of costs for labor, materials and equipment.
  5. Documentation supporting any change in Contract Sum/ Contract Price or Contract Time, as appropriate.

#### **1.05 CONSTRUCTION CHANGE DIRECTIVES**

- A. In lieu of Proposal Request, the School District through the Construction Manager may issue, a Construction Change Directive (also referred to as an Immediate Change Directive in the General Conditions) for Contractor to proceed with a change which shall state a basis for adjustment, if any, in the Contract Sum/ Contract Price or Contract Time, or both.
- B. Authorization will describe changes in the Work, both additions and deletions, with attachments of revised Contract Documents to define details of the change, and will designate the method of determining any change in the Contract Sum/ Contract Price and any change in Contract Time.
- C. The School District and Architect will sign and date the Construction Change Directive as authorization for the Contractor to proceed with the changes.
- D. Contractor may sign and date the Construction Change Directive to indicate agreement with the terms therein.



## **1.06 DOCUMENTATION OF PROPOSALS AND CLAIMS**

- A. Support each quotation for a lump-sum proposal, and for each unit price which has not previously been established, with sufficient substantiating data to allow the Engineer and School District to evaluate the quotation.
- B. On request provide additional data to support time and cost computations:
  - 1. Labor required in hours with unit costs.
  - 2. Equipment required.
  - 3. Products required in units
    - a. Recommended source of purchase and unit cost.
    - b. Quantities required
  - 4. Taxes, insurance and bonds.
  - 5. Credit for Work deleted from Contract, similarly documented.
  - 6. Overhead and profit.
  - 7. Justification for any change in Contract Time.
- C. Support each claim for additional costs, and for work done on a time and material basis, with documentation as required for a lump-sum proposal, plus additional information:
  - 1. Name of the School District's authorized agent who ordered the work, and date of the order.
  - 2. Dates and times work was performed, and by whom.
  - 3. Time record, summary of hours worked, and hourly rates paid.
  - 4. Receipts and invoices for:
    - a. Equipment used, listing dates and times of use.
    - b. Products used, listing of quantities.
    - c. Subcontracts
- D. Document requests for Substitution of Products as specified in Section 01 60 00.

## **1.07 CONSTRUCTION CREDITS**

- A. Work deleted and no work has been completed by the Contractor: Work deleted from the contract is to be credited back to the District and subtracted from the contract amount. Credits are to be included in Change Orders.
  - 1. Contractor shall credit back to the District total value for the work deleted from the contract. Cost of credits shall be determined by the amount stated in the Contractor's Schedule of Values.
  - 2. Where the value of credits cannot be determined from the Contractor's Schedule of values, total value of the credit is to be determined by the cost of materials, labor, overhead and profit, insurance, bonds, etc. All General Contractor, Subcontractor and Material Supplier levels of the Contract are to be included in the total value of credits back.
  - 3. No amount at any level of the contract shall be withheld from credits for overhead and profit, insurance, bonds, time delays, construction schedule changes and administrative expenses.

- B. Work deleted and a portion of the work has been completed by the Contractor: Work deleted from the contract is to be credited back to the District and subtracted from the contract amount. Credits are to be included in Change Orders.
  - 1. Contractor shall credit back to the District the total value of the work deleted from the contract less any work already completed on the credit item. Cost of credits shall be determined by the amount stated in the Contractor's Schedule of Values less any work already completed. Completed work may include cost of shop drawings, submittals, site preparation, partially completed work on the credit item or other expenses related to the item.
  - 2. Where the value of credits cannot be determined from the Contractor's Schedule of values, total value of the credit is to be determined by the cost of materials, labor, overhead and profit, insurance, bonds, etc. All General Contractor, Subcontractor and Material Supplier levels of the Contract are to be included in the total value of credits back.
  - 3. An amount equal to the percentage of work already completed on the deleted item may be withheld from credits back for overhead and profit, insurance, bonds, construction schedule adjustments and administrative expenses, as indicated in the General Conditions.

#### **1.08 PREPARATION OF CHANGE ORDERS**

- A. The Architect will prepare each Change Order.
- B. Change Order will describe changes in the Work, both additions and deletions, with attachments of revised Contract Documents to define details of the change.
- C. Change Order will provide an accounting of the adjustment in the Contract Sum/ Contract Price and in the Contract Time.

#### **1.09 LUMP-SUM/FIXED PRICE CHANGE ORDER**

- A. Content of Change Orders will be based on either:
  - 1. The School District's Proposal Request and Contractor's responsive Proposal as mutually agreed with the School District.
  - 2. Contractor's Proposal for a change, as recommended by the School District or their authorized agent.
- B. The School District, Division of the State Architect and Architect or Engineer in responsible charge will sign and date the Change Order as an authorization for the Contractor to proceed with the changes.
- C. The Contractor will sign and date the Change Order to indicate agreement with the terms therein.

## **1.10 UNIT PRICE CHANGE ORDER**

- A. Content of Change Orders will be based on either:
  - 1. The School District's definition of the scope of the required changes.
  - 2. Contractor's Proposal for a change, as recommended by the School District or Authorized Agent.
  - 3. Survey of completed work.
- B. The amounts of the unit prices to be:
  - 1. Those stated in the Agreement.
  - 2. Those mutually agreed upon between School District and Contractor.
- C. When quantities of each of the items affected by the Change Order can be determined prior to start of the work:
  - 1. The School District and Architect or Engineer in responsible charge will sign and date the Change Order as authorization for Contractor to proceed with the changes.
  - 2. Contractor is to sign and date the Change Order to indicate agreement with the terms therein.
- D. When quantities of the items cannot be determined prior to start of the work:
  - 1. The School District through the Architect will issue a Construction Change Directive directing the Contractor to proceed with the change on the basis of unit prices, and will cite the applicable unit prices.
  - 2. At completion of the change, the School District or its authorized agent will determine the cost of such work based on the unit prices and quantities used.
  - 3. The Contractor shall submit documentation to establish the number of units of each item and any claims for a change in Contract Time.
  - 4. The School District, Division of the State Architect and Architect or Engineer in responsible charge will sign and date the Change Order as authorization for the Contractor to proceed with the Changes.
  - 5. The Contractor will sign and date the Change Order to indicate agreement with the terms therein.

## **1.11 TIME AND MATERIALS CHANGE ORDER/CONSTRUCTION CHANGE DIRECTIVE:**

- A. The School District through the Architect will issue a Construction Change Directive directing Contractor to proceed with the changes
- B. At completion of the change, Contractor shall submit itemized accounting and supporting data as provided in the Article 1.6, "Documentation of Proposals and Claims," of this Section.
- C. The School District or its authorized representative will determine the allowable cost of such work, as provided in General Conditions and Supplementary Conditions.

- D. The School District, Division of the State Architect and Architect or Engineer in general responsible charge will sign and date the Change Order to authorize the change in Contract Sum/ Contract Price and in Contract Time.
- E. The Contractor will sign and date the Change Order to indicate agreement with the terms therewith.

#### **1.12 INSTRUCTIONS**

- A. Architect's Supplemental Instructions:
  - 1. Minor changes in the work shall be carried out in accordance with supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum/ Contract Price or Contract Time.
  - 2. The Architect will issue, sign, and date Supplemental Instructions.
  - 3. The Contractor will sign and date Supplemental Instructions to indicate acceptance of minor changes consistent with the Contract Documents and return signed copy to Architect.

#### **1.13 CORRELATION WITH CONTRACTOR'S SUBMITTALS**

- A. Periodically revise Schedule of Values and Request for Payment forms to record each change as a separate item of Work and to record the adjusted contract amounts.
- B. Periodically revise the Construction Schedule to reflect each change in Contract Time.
- C. Revise sub-schedules to show changes for other items of work affected by the changes.
- D. Upon completion of work under a Change Order, enter pertinent changes in Record Documents.

#### **1.14 FORMS**

- A. Submit Proposal Request typed on AIA Document G709. A Copy of this form may be obtained from the local American Institute of Architects, Chapter Office
- B. Submit Change Orders typed on the Change Order Form included in this Project Manual. Form is included in General Conditions and at the end of this Section.
- C. Submit Supplemental Instructions typed on the form provided by Architect, Requests for Interpretation (RFI's).
- D. Immediate Change Directive Form is included in the Supplementary General Conditions.

#### **END OF SECTION**

**SECTION 01 30 00**  
**ADMINISTRATIVE REQUIREMENTS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Preconstruction meeting.
- B. Site mobilization meeting.
- C. Progress meetings.
- D. Construction progress schedule.
- E. Progress photographs.
- F. Coordination drawings.
- G. Requests for Interpretation.
- H. Submittals for review, information, and project closeout.
- I. Number of copies of submittals.
- J. Submittal procedures.
- K. Labor Compliance Program

**1.02 RELATED REQUIREMENTS**

- A. Section 01 20 00 - Price and Payment Procedures:
  - 1. Proposal Requests, Construction Change Directives and Change Orders.
  - 2. Applications for Payment and the Schedule of Values.
- B. Section 01 32 16 - Construction Progress Schedule: Form, content, and administration of schedules.
- C. Section 01 40 00 - Quality Requirements: Test and inspection reports.
- D. Section 01 60 00 - Product Requirements: Requests for substitutions of materials, products, equipment and systems.
- E. Section 01 70 00 - Execution and Closeout Requirements: Additional coordination requirements.
  - 1. Requirements for preparation and submission of operation and maintenance data.
  - 2. Lien and bonding company releases, keys, inspection records from authorities having jurisdiction and insurance documents.
  - 3. Submittals for occupancy, Acceptance and Final Payment.
- F. Section 01 78 00 - Closeout Submittals: Project record documents.
  - 1. Procedures for submitting warranty and guarantee documentation.
- I. Divisions 2 through 33 Sections (as applicable): Procedures for specific submittals specified in those Sections to be made at Contract closeout.

**1.03 REFERENCE STANDARDS**

- A. AIA G810 - Transmittal Letter; 2001.



## **1.04 DEFINITIONS**

- A. Action Submittals: Written and graphic information that requires responsive action by Construction Manager and Architect or other responsible design professional.
- B. Informational Submittals: Written information that does not require responsive action by Construction Manager and Architect or other responsible design professional.
- C. Unsolicited Submittals: Action or informational submittals not required by the Contract Documents or not requested by the reviewer. Unsolicited submittals may be returned with notation "not reviewed."
- D. Product Data: Standard published information ("catalog cuts") and specially prepared data for the Work of the Contract, including standard illustrations, schedules, brochures, diagrams, performance charts, instructions and other information to illustrate a portion of the Work.
- E. Request for Interpretation (RFI): A document submitted by the Contractor requesting clarification of a portion of the Contract Documents, hereinafter referred to as an RFI.
- F. Samples: Physical examples that demonstrate the materials, finishes, features, workmanship and other characteristics of a portion of the Work. Accepted samples shall serve as quality basis for evaluating the Work.
- G. Shop Drawings, Product Data and Samples: Instruments prepared and submitted by Contractor, for Contractor's benefit, to communicate to Architect the Contractor's understanding of the design intent, for review and comment by Architect on the conformance of the submitted information to the general intent of the design. Shop drawings, product data and samples are not Contract Documents.
- H. Shop Drawings: Drawings, diagrams, schedules and illustrations, with related notes, specially prepared for the Work of the Contract, to illustrate a portion of the Work.
- I. Other Submittals: Technical data, test reports, calculations, surveys, certifications, special warranties and guarantees, operation and maintenance data, extra stock and other submitted information and products shall not be considered as Contract Documents but shall be information from Contractor to Architect to illustrate a portion of the Work for confirmation of understanding of design intent.

## **PART 2 PRODUCTS - NOT USED**

## **PART 3 EXECUTION**

### **3.01 PROGRESS PHOTOGRAPHS**

- A. Submit photographs with each application for payment, taken not more than 3 days prior to submission of application for payment.
- B. Maintain one set of all photographs at project site for reference; same copies as submitted, identified as such.
- C. Photography Type: Digital; electronic files.
- D. Provide photographs of site and construction throughout progress of Work produced by an experienced photographer, acceptable to Architect.
- E. In addition to periodic, recurring views, take photographs of each of the following events:
  - 1. Completion of site clearing.
  - 2. Excavations in progress.

3. Foundation removals in progress and upon completion.
  4. Final completion, minimum of ten (10) photos.
- F. Views:
1. Provide non-aerial photographs from four cardinal views at each specified time, until Date of Substantial Completion.
  2. Consult with Architect for instructions on views required.
  3. Provide factual presentation.
  4. Provide correct exposure and focus, high resolution and sharpness, maximum depth of field, and minimum distortion.
  5. Point of View Sketch: Provide sketch identifying point of view of each photograph.
- G. Digital Photographs: 24 bit color, minimum resolution of 2584 x 1936 ("5 megapixel"), in JPG format; provide files unaltered by photo editing software.
1. Delivery Medium: Via email (for individual photos) and with project record photos on DVD.
  2. File Naming: Include project identification, date and time of view, and view identification.
  3. Point of View Sketch: Include digital copy of point of view sketch with each electronic submittal; include point of view identification in each photo file name.
  4. PDF File: Assemble all photos into printable pages in PDF format, with 2 to 3 photos per page, each photo labeled with file name; one PDF file per submittal.
  5. Photo CD(s): Provide 1 copy including all photos cumulative to date and PDF file(s), with files organized in separate folders by submittal date.
  6. Hard Copy: Printed hardcopy (grayscale) of PDF file and point of view sketch.

### **3.02 CONTRACTOR'S REQUESTS FOR INTERPRETATION (RFI)**

- A. Contractor shall comply with procedures specified herein to make a Request for Interpretation (RFI).
1. Prior to submitting a written RFI, when possible, the Contractor shall have a verbal conversation with the Architect to discuss the item in question.
- B. The Contractor shall request that the Architect make an interpretation of the requirements of the Contract Documents for resolution of the following:
1. Inability to determine from the Contract Documents the exact material, process, or system to be installed;
  2. Or when the elements of construction are required to occupy the same space (interference);
  3. Or when an item of Work is described differently at more than one place in the Contract Documents; .
- C. Submission of RFIs: RFIs shall be prepared and submitted on form acceptable to Architect.
1. Forms shall be completely filled in, and if prepared by hand, shall be fully legible after copying by xerographic process.
  2. Each RFI shall be limited to a single discrete subject.
  3. Each RFI shall be given a discrete, consecutive number.

4. Each page of the RFI and each attachment to the RFI shall bear the Project name, Architect's Project number, date, RFI number and a descriptive title.
  5. Contractor shall sign all RFIs attesting to good faith effort to determine from the Contract Documents the information requested for interpretation.
  6. Make submission of RFIs to Architect.
  7. RFI may be submitted by email as a PDF attachment or through an electronic service if agreed to in advance by all parties.
- D. Subcontractor-Initiated and Supplier-Initiated RFIs:
1. RFIs from subcontractors and material suppliers shall be submitted through, be reviewed by and be attached to an RFI prepared, signed and submitted by Contractor.
    - a. RFIs submitted directly by subcontractors or material suppliers will be returned unanswered to the Contractor.
  2. Contractor shall review all subcontractor- and supplier-initiated RFIs and take actions to resolve issues of coordination, sequencing and layout of the Work.
    - a. RFIs submitted to request clarification of issues related to means, methods, techniques and sequences of construction or for establishing trade jurisdictions and scopes of subcontracts will be returned without interpretation.
      - 1) Such issues are solely the Contractor's responsibility.
    - b. Contractor shall be responsible for delays resulting from the necessity to resubmit an RFI due to insufficient or incorrect information presented in the RFI.
- E. Requested Information:
1. Contractor shall carefully study the Contract Documents to ensure that information sufficient for interpretation of requirements of the Contract Documents is not already included. RFIs that request interpretation of requirements clearly indicated in the Contract Documents will be returned without interpretation.
  2. In all cases in which RFIs are issued to request clarification of issues related to
  3. In all cases, the Contractor shall furnish all information required for the Architect to analyze and/or understand the circumstances causing the RFI and prepare a clarification or direction as to how the Contractor shall proceed for RFIs issued to request clarification of issues related to:
    - a. Means, methods, techniques and sequences of construction, for example
    - b. Pipe and duct routing, clearances;
    - c. Specific locations of Work shown diagrammatically;
    - d. Apparent interferences and similar items.
  4. If information included with this type RFI by the Contractor is insufficient, the RFI will be returned unanswered.
- F. Unacceptable Uses for RFIs: RFIs shall not be used for the following purposes:
1. To request approval of submittals.
  2. To request approval of substitutions. See Section 01 60 00 - Product Requirements.
  3. To request changes that entail change in Contract Time and Contract Sum. (Comply with provisions of the Conditions of the Contract), as discussed in detail during pre-construction conference).

4. To request different methods of performing Work than those indicated in the Contract Drawings and Specifications (comply with provisions of the Conditions of the Contract).
- G. Disputed Requirements: In the event the Contractor believes that a clarification by the Architect results in additional cost or time, Contractor shall not proceed with the Work indicated by the RFI until authorized to proceed by the District and claims, if any, are resolved in accordance with provisions in the Conditions of the Contract.
- H. RFI Log: Contractor shall prepare and maintain a log of RFIs, and at any time requested by the Architect or District, the Contractor shall furnish copies of the log showing all outstanding RFIs.
- I. Review Time: Architect will return RFIs to Contractor and District within ten calendar days of receipt.
  1. RFIs received after 12:00 noon shall be considered received on the next regular working day for the purpose of establishing the start of the response period.
  2. Architect will endeavor to respond in a timely fashion to RFIs, in less than the allotted time. Some RFI's could take longer depending on third party responses.

## **END OF SECTION**

## **SECTION 01 31 00**

### **PROJECT COORDINATION AND MEETINGS**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Coordination and Coordination Drawings.
- B. Pre-construction meeting.
- C. Progress meetings.
- D. Pre-installation meetings.

##### **1.02 RELATED SECTIONS**

- A. Construction Progress Schedule.
- B. Work Sequence and Phasing.
- C. Labor Compliance Program (LCP Coordination).
- D. Submittal Procedures.
- E. Closeout Procedures.
- F. Field Engineering.

##### **1.02 COORDINATION**

- A. Coordinate scheduling, submittals and work of the various portions of the Contract Documents to assure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- B. When separate or multiple-prime contracts exist, work cooperatively with the DISTRICT and all other CONTRACTORS, subcontractors, suppliers and other entities working on any portion of the Project.
- C. Work closely with the DISTRICT to coordinate work and to maintain the Construction Progress Schedule.
- D. Verify that utility-requirements of equipment to be installed are compatible with building utilities. Coordinate work of various Sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment, as well as work of utility companies.
- E. Coordinate space requirements and installation of mechanical and electrical work which are indicated diagrammatically on drawings. Follow routing shown for pipes, ducts and conduit, as closely as practicable; place runs parallel with line of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance and for repairs.



- F. In finished areas, except as otherwise indicated, conceal pipes, ducts and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.
- G. In locations where several elements of mechanical and electrical work must be sequenced and positioned with precision in order to fit into available space, prepare Coordination Drawings showing the actual conditions required for the installation prior to purchasing, fabricating or installing the elements required to be coordinated. Submit Coordination Drawings to DISTRICT.
- H. Closing up of walls, partitions or furred spaces, backfilling and other covering up operations shall not proceed until all enclosed or covered work and inspections have been completed. Verify before proceeding.
- I. Coordinate completion and cleanup of work of separate sections in preparation for substantial completion, including portions of work designated for DISTRICT's full and/or partial occupancy).
- J. After DISTRICT occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, in a manner to minimize disruption of DISTRICT's activities.

#### 1.03 PRE-CONSTRUCTION MEETING

- A. The DISTRICT will schedule a pre-construction meeting immediately after receipt of the Notice of Award.
- B. Mandatory attendance includes DISTRICT Representative, INSPECTOR OF RECORD (IOR), Testing Laboratory Representative, ARCHITECT, CONTRACTOR and CONTRACTORS Job Superintendents, and major sub-contractors.
- C. Optional Attendance includes Architect's consultants, subcontractors and utility company representatives.
- D. The DISTRICT Representative will preside at the conference, and will record meeting minutes and distribute copies in a timely manner.
- E. Agenda:
  - 1. Execution of Agreement between DISTRICT and CONTRACTOR.
  - 2. Issue Notice to Proceed.
  - 3. Submission of executed bonds and insurance certificates.
  - 4. Distribution of Contract Documents, Notice of Award, Forms, sample Schedule of Values.
  - 5. Submission of list of subcontractors, list of products.
  - 6. Designation of responsible personnel representing the parties.
  - 7. Procedures for processing of field decisions, submittals, substitutions, applications for payments, proposal requests, change orders, construction directives, and contract closeout procedures.
  - 8. Preliminary Construction Progress Schedule.
  - 9. Critical work sequencing.

10. Submittals, substitutions.
11. Procedures and forms for preparation and maintenance of project record/as-built documents
12. Use of the Project site and parking availability
13. Temporary facilities
14. Equipment deliveries and priorities
15. Safety procedures
16. Security
17. Housekeeping
18. Working hours
19. Labor Compliance Officer presentation
20. Insurance Services including OCIP
21. Environmental Health & Safety
22. Review of Logistics Plan
23. Progress payments
24. Communications procedures
25. Fingerprinting requirements
26. Construction permits
27. Inspections and tests
28. SWPPP
29. Project meetings

#### 1.04 PROGRESS MEETINGS

- A. CONTRACTOR shall schedule and administer progress meetings throughout progress of the work at regular intervals, typically weekly, or more frequently if needed.
- B. CONTRACTOR shall make arrangements for meetings, prepare agenda and preside at meetings, record minutes and distribute copies.
- C. Attendance required: DISTRICT, Architect, IOR, CONTRACTOR.
- D. Agenda:
  1. Review minutes of previous meetings.
  2. Review work progress.
  3. Field observations, problems and decisions.
  4. Identification of problems which impede planned progress.
  5. Review of submittals' status and schedule of submittals.
  6. Review of off-site fabrication progress and delivery schedules.
  7. Maintenance of Progress Schedule.
  8. Corrective measures to regain projected schedules.
  9. Planned progress during succeeding work period.
  10. Coordination of projected progress.
  11. Maintenance of quality and workmanship standards.
  12. Proposed changes and effect on progress schedule and coordination.
  13. Other business appropriate to the status of the Project.

## 1.05 PRE-INSTALLATION MEETING

- A. When required in individual Specification Sections, convene a pre-installation meeting prior to commencing work of the Section.
- B. Require attendance of parties directly affecting, or affected by, work of the specific section, including but not limited to the ARCHITECT, IOR, CONTRACTOR, and affected sub-contractors, manufacturers and fabricators.
- C. Notify DISTRICT and ARCHITECT at least five (5) days in advance of meeting date.
- D. Prepare agenda, preside at conference, record minutes and distribute copies within three (3) days after conference to participants
- E. Review and discuss pre-installation conditions, preparation, installation procedures, coordination with related work, and orientation of Maintenance and Operations personnel.

### END OF SECTION

## **SECTION 01 32 16**

### **CONSTRUCTION PROGRESS SCHEDULE**

#### **PART 1 - GENERAL**

##### **1.01 SUMMARY**

- A. Provide a Construction Progress Schedule ("schedule") for the entire Work, including all necessary and related sub-schedules.
- B. Provide updates of the Schedule and periodic reports as required.

##### **1.02 RELATED SECTIONS**

- A. Summary of the Work
- B. Work Sequence and Phasing
- C. Price and Payment Procedures
- D. Project Coordination and Meetings
- E. Submittals
- F. Testing and Inspection
- G. Contract Closeout

##### **1.03 FORM AND CONTENT OF SCHEDULES**

- A. Schedule shall be in the form of a computer-generated Critical Path Method (CPM) network in Precedence Diagram Mode (PDM) showing all construction activities required to complete the Work of the Project within the Contract Time and any DISTRICT-defined Milestones.
- B. Schedule shall include but not be limited to the following:
  - 1. Complete sequence, with start and completion dates, of each and every activity of construction or element of the construction process.
  - 2. Phases of construction, with start and completion Milestones, as well as any other Milestones defined by the DISTRICT.
  - 3. Critical submittals, including DISTRICT and ARCHITECT review and approval periods, including 15 workdays for the first submittal (10 days for resubmittal), 21 days when the ARCHITECT's Consultants must review, and 30 days for review of submittals of Structural Steel, Door Hardware, and Steel Doors and Frames.
  - 4. Procurement, manufacture and/or fabrication; testing and delivery to the Project site of special long-lead-time material and equipment.
  - 5. Operational start-up, test and balance, performance testing, and training of operators for systems and equipment; for Substantial Completion and for Final Completion.

6. Temporary facilities; construction of mock-ups, prototypes and/or samples; punch list; interfaces with Separate Work Contracts; and regulatory agency approvals and permits required for performance of the Work.
  7. Deferred Approvals by the Department of the State Architect (DSA), allowing a minimum of ninety (90) days for all Deferred Approval items.
  8. DISTRICT interfaces and owner-furnished equipment, either installed by CONTRACTOR (OF CI) or by OWNER (OF OI).
  9. Decision dates for products specified by allowances, selection of finishes, and other ARCHITECT- or DISTRICT-furnished schedules or decisions.
- C. Schedule shall be updated periodically as specified to show progress of each activity and all changes since the previous submission, including:
1. Major changes in scope.
  2. Activities modified since previous updating.
  3. Revised projections due to changes.
  4. Other identifiable changes.

#### 1.04 QUALITY ASSURANCE

- A. Scheduler: Contractor's personnel or consultant specializing in CPM scheduling shall have five (5) years minimum experience in scheduling construction work of the size and complexity comparable to this Project, including use of Primavera P6 or other as approved by DISTRICT, and shall have use of computer facilities with high-speed Internet access. DISTRICT must approve the Scheduler's resume, experience, and demonstrated skills.
- B. Contractor's Administrative Personnel: Two years minimum experience in using and monitoring CPM schedules on comparable projects.

#### 1.05 SCHEDULE SUBMITTALS

- A. CONTRACTOR shall submit Construction Progress Schedules as follows:
  1. Preliminary Schedule: Submit a preliminary Baseline Schedule within fourteen days after Notice of Award. DISTRICT will review the Preliminary Schedule and return comments within ten workdays.
  2. Initial Schedule: Revise the preliminary Schedule and resubmit within ten days, to provide the Project's Baseline Schedule.
  3. Monthly Schedule Update: While retaining the Baseline Schedule, revise copies to show actual construction progress to date, and submit at scheduled monthly dates, or as otherwise required by the DISTRICT.
  4. In the event that the progress of the Work or the sequencing of the activities of the Work differs significantly from that indicated in the Baseline Schedule, the Contractor shall submit a Recovery Schedule to the DISTRICT, demonstrating the Contractor's plan to recover lost time,



achieve all contractual milestones, and complete the work within the Contract Time. Appropriate recovery actions include, but are not limited to, assignments of additional labor or equipment, shift or overtime work, expediting of submittals or deliveries, overlapping of activities, or sequencing changes to increase activity concurrence. An accompanying narrative shall describe the cause of the problems and the actions planned by the Contractor to recover the schedule. The DISTRICT will review the Recovery Schedule and provide comments, leading to approval of the schedule.

- B. CONTRACTOR shall include with schedule submittals a written narrative report sufficiently comprehensive to explain the basis and determination of CONTRACTOR's approach to the Work, including but not limited to: activity durations; manpower flow; average crew sizes; equipment requirements; production rates; potential problem areas; permits; all necessary coordination with authorities, utilities suppliers, Separate Work Contracts, and other parties; and long lead delivery items requiring more than thirty (30) days from the date of order to delivery on the Project site. Report shall define problem areas, anticipated delays, or other factors having an impact on the Schedule.

#### 1.06 SCHEDULE REQUIREMENTS

- A. Schedule shall represent CONTRACTOR's plan to complete the Work within the Milestones and/or Contract Time. However:
  - 1. A schedule extending beyond the Milestones and/or Contract Time will not be acceptable.
  - 2. A schedule indicating Work completed in less than the Milestones and/or Contract Time will not be acceptable. CONTRACTOR shall indicate any available float.
  - 3. A schedule found unacceptable by the DISTRICT shall be revised by CONTRACTOR and resubmitted within five (5) days.
- B. Schedule shall be in sufficient detail to assure adequate planning and execution of Work, including but not limited to:
  - 1. Start and completion of all items of Work and their major components, and all designated dates identified as Milestones by DISTRICT.
  - 2. Construction activity durations shall be limited to no more than two reporting periods, with exception of fabrication and procurement activities, unless approved otherwise by DISTRICT. Activity durations shall be total of actual workdays to perform and complete that activity and shall not include consideration of weather impact on the activity.
  - 3. Activities for procurement, delivery, and installation of equipment, materials and other supplies, including time for submittals, reviews and re-submittals. Include decision dates for selection of finishes.

4. Time for fabrication and delivery of manufactured products for the Work, showing interdependence of procurement and construction activities.
5. Identify each activity with applicable CSI Specification Division number, and coordinate with the CONTRACTOR's approved "Schedule of Values." Include adequate breakdown of activities for the Mechanical and Electrical elements of the work, to enable accurate monitoring and to assure full coordination with DISTRICT operating personnel.
6. Each activity shall be capable of being cost and resource-loaded with the resulting cost total equal to the Contract Amount
7. Activities shall include all associated interface activities contained within the Contract Documents including, but not limited to, DISTRICT maintenance-and-operations activities
8. Each activity shall be defined to permit reasonable monitoring and evaluation of progress in performance of the Work.
9. Activities shall include:
  - a. A description of what is to be accomplished and where.
  - b. Workday duration.
  - c. Responsibility code identifying the performing party for each individual activity.
  - d. Area of Work coded on each Work activity.
  - e. Phase of Work coded on each Work activity.
10. Network shall show continuous flow from left to right.
11. Network shall be capable of multiple sorts as required for DISTRICT review.
12. Program shall be capable of compiling monetary value of completed and partially completed activities, of accepting revised completion dates and re-computation of all dates and float.
13. Contractor shall not sequester float through strategies such as extending activity durations estimates to consume available float, using preferential logic, using extensive or insufficient crew or resource loading, or by using float-suppression techniques, special lead or lag logic restraints, or imposed dates.
14. Identify days per week and shifts per day worked; also, non-work days and holidays.
15. Identify activities that constitute controlling operations, i.e., Milestones or Critical Path.

16. DISTRICT may require additional coding of activities.

- C. Notwithstanding acceptance of the Schedule, failure to identify and/or include any element of the Contract into the Schedule shall not release CONTRACTOR from obligation of completing all required Work in accordance with the Contract Completion Date or any Milestones.
- D. Submittal of the Schedule shall constitute CONTRACTOR's confirmation that the Schedule meets the requirements of the Contract Documents, and the Work will be executed in the sequence indicated in the Schedule.

#### 1.07 COST LOADING OF SCHEDULE

- A. The Contract Schedule shall contain sufficient detail and information so that the CONTRACTOR can cost load the schedule in accordance with the District's coding structure.
- B. Power, security, telephone, PA/intercom, data, clock, video, fire alarm, and HVAC controls cabling shall not be scheduled together in an activity.
- C. The CONTRACTOR shall assign a cost value to each activity consisting of the sum of labor, material, equipment, overhead, profit, and general conditions costs allocable to that activity. The sum of all such values assigned shall equal the Contract total.
- D. Unless authorized by the DISTRICT, no site-related activity shall have a value exceeding \$100,000. The CONTRACTOR shall not cost load procurement and submittal related activities, unless authorized by the DISTRICT.
- E. For site-stored materials that are eligible for payment as provided by the Contract Documents, the Contractor may load the value of the materials on a one-day delivery activity. Payment for uninstalled materials is limited to major pieces of equipment with a cost value in excess of \$10,000. If the Work includes items covered by allowances, the Contractor shall include one activity in the schedule for each allowance that is loaded with the cost of that allowance. The scheduling of the allowance activities shall reflect the Contractor's best estimate of the duration and sequence of the Work.
- F. Upon District approval of a Change Order, the Contractor shall add separate cost-loaded activities to the Contract Schedule for each Change Order individually. If the DISTRICT so determines, the Contractor must further divide each Change Order as necessary to comply with the District's cost coding system.

#### 1.08 REQUIREMENTS FOR UPDATING AND REVIEW

- A. Prepare updated Schedule by one of following methods:
  - 1. When updating current Schedule with actual Work progress only (non logic changes), status current Schedule with actual start and finish dates, remaining durations, and percent completion of cost and resource loaded activities and submit to DISTRICT and ARCHITECT for review.

2. When updating current Schedule with logic changes, Construction Directives, Change Orders, delay / disruption activities, or recovery plans, prepare an explanatory description or computer-generated fragnet for DISTRICT and ARCHITECT review.
  3. When Work is associated with a Change Order, the adjustments shall be resource-loaded with material unit quantities, corresponding cost account, resources account codes, activity description, accepted costs and time adjustments. The activity ID number shall identify the number of the Change Order.
- B. CONTRACTOR shall attend weekly and monthly Schedule review meetings in order to accomplish the following:
1. Discuss actual activity start and/or completion dates and any applicable variances, forecast activity start and/or completion dates and any applicable variances, progress of all activities underway at the time of the review, and to plan remedial action to mitigate schedule variances.
  2. Identify activities modified by CONTRACTOR since last update.
  3. Indicate changes that may be required to maintain the Milestones and Date of Completion.
- C. Submit updated schedules:
1. With each Application for Payment.
  2. After Milestones, changes in scope, major delays, or other significant points in the construction process.
- 1.09 FAILURE TO COMPLY WITH REQUIREMENTS
- A. If CONTRACTOR fails to comply with the specified requirements, DISTRICT reserves the right to engage an independent scheduling consultant and/or provide its own expertise to fulfill these requirements, and shall be entitled to recover by assessment all incurred costs for the services from the CONTRACTOR.
- B. Submittal of any Schedule is subject to review and acceptance by ARCHITECT and/or DISTRICT. DISTRICT retains the right to withhold progress payments in whole or part until CONTRACTOR submits a Schedule acceptable to DISTRICT.
- 1.10 RECORD DOCUMENTS
- A. Prior to Final Completion of the Work, CONTRACTOR shall submit as-built report and time-scaled network diagram reflecting as-built Project critical paths.

#### **END OF SECTION**

## **SECTION 01 33 00**

### **SUBMITTAL PROCEDURES**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Submittal Procedures
- B. Shop Drawing Submittals
- C. Product Data Submittals
- D. Samples Submittals
- E. Manufacturers' Instruction Submittals
- F. Manufacturers' Certificate Submittals
- G. Coordination Drawing Submittals
- H. DSA Deferred Approvals

##### **1.02 SUBMITTAL PROCEDURES**

- A. Provide submittals wherever required by other sections of this Specification. Transmit ONE (1) electronic copy, and hard copy as requested, of each submittal directly to the ARCHITECT/IOR/DISTRICT/CM on forms prescribed by the ARCHITECT, with a copy of the transmittal form to the DISTRICT. Clearly identify each item submitted. Sequentially number the transmittal forms. For re-submittals use original submittal number with an alphabetic suffix.
  - 1. Include ARCHITECT's job number as it appears on Contract Documents, and all information required by the prescribed form.
  - 2. Include state agency application or approval number.
  - 3. Bind drawing and data submittals sturdily, clearly label covers.
- B. Identify Project, CONTRACTOR, subcontractor or supplier; pertinent Drawing sheet and detail number(s) and specification Section number, as well as name and telephone number of individual who may be contacted for further information.
- C. Determine and verify all field dimensions and conditions, materials, catalog numbers and similar data.
- D. Provide space for CONTRACTOR and ARCHITECT review stamps.
- E. Apply CONTRACTOR's dated stamp with CONTRACTOR's original signature or initials, certifying that review, verification of Products, field dimensions, adjacent construction Work and coordination of information is in accordance with the requirements of the Work and Contract Documents. Stamped signatures or initials are not acceptable.
- F. Identify clearly, on the submittal and the transmittal form, any changes or variations from the Contract Documents. State effect of changes on Construction Progress Schedule and changes required in other Work or products (including "no effect"). Any change not so noted, even though stamped reviewed, will not



be considered approved. Specific written approval by the ARCHITECT must be provided for any deviation from the Contract Documents.

- G. Revise and resubmit submittals as required; identify all changes made since previous submittal.
- H. Coordinate as required with all trades and all public agencies involved.
- I. Unless otherwise specifically authorized by ARCHITECT, make all submittals in groups containing all associated items. ARCHITECT may reject partial submittals as not complying with the provisions of this section.

#### 1.03 SCHEDULES FOR SUBMITTALS

- A. Schedule submittals in accordance with the Construction Progress Schedule, far enough in advance of scheduled dates of installation to provide required time for the review and approval process, including possible revision and resubmittal and for placing orders and securing delivery.
- B. Within thirty (30) days from the Notice of Award, or in accordance with the Project Schedule, whichever is sooner, submit to the ARCHITECT and the DISTRICT for review and acceptance a "Schedule for Submission of Shop Drawings, Product Data, and Samples" ("Submittal Schedule") listing all submittals with planned dates of submission and return approved.
- C. Submittal Schedule will be incorporated into the Construction Progress Schedule. Update and submit revised schedule not less often than monthly.
- D. Allow in the Submittal Schedule sixteen (16) days after receipt for the ARCHITECT's review, both for initial submittals and for resubmittals; more for complex changes.

#### 1.04 SHOP DRAWINGS

- A. Shop Drawings shall include fabrications and installation drawings, setting diagrams, schedules, patterns, templates and similar drawings. Include the following information:
  - 1. Dimensions.
  - 2. Identification of products and materials included.
  - 3. Compliance with specified standards.
  - 4. Notation of coordination requirements.
  - 5. Notation of dimensions established by field measurement.
- B. Sheet Size: Except for templates, patterns and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2-inch x 11 inch, but not larger than 30-inch x 42 inch.
- C. Stamp: Each page of shop drawings shall bear the CONTRACTOR's stamp, which shall signify the CONTRACTOR's representation that he has determined and verified materials, field measurements and field construction criteria related

thereto, or will do so, and has checked and coordinated the information contained in the shop drawings. Each stamp shall be accompanied by a wet signature or initial of an employee of the CONTRACTOR who may be contacted for information. Stamped signatures or initials are not acceptable.

- D. Review Process: Make initial submittal of one (1) electronic copy and hard copy as required by AOR of each shop drawing. Comments or corrections will be noted on the reproducible and returned to the CONTRACTOR. If resubmittal is required, CONTRACTOR shall identify all changes made since the previous submittal and resubmit in the same manner. ARCHITECT will stamp or note drawings as follows:

1. "NO EXCEPTION TAKEN" indicating that construction or fabrication may proceed.
2. "MAKE CORRECTIONS NOTED" indicating that no resubmittal is required contingent upon corrections being made.
3. "REJECTED" or "REVISE & RESUBMIT" indicating that corrections shall be made and drawings resubmitted for review.

After the final review, the CONTRACTOR shall copy and distribute the stamped drawings to the ARCHITECT.

- E. The ARCHITECT will review shop drawings for conformance with the requirements of the Contract Documents. The ARCHITECT's favorable review of a separate item shall not indicate acceptance of an assembly in which the item functions.
- F. The ARCHITECT's review of shop drawings shall not relieve the CONTRACTOR of responsibility for any deviation from the requirements of the Contract Documents unless the CONTRACTOR has informed the ARCHITECT in writing of such deviation at the time of submission and the ARCHITECT has given written acceptance to the specific deviation. The ARCHITECT's favorable review shall not relieve the CONTRACTOR from responsibility for errors or omissions in the shop drawings.
- G. No portion of work requiring shop drawings shall be commenced until the shop drawings have been returned with a favorable review by the ARCHITECT.
- H. ARCHITECT's CAD Drawings: The CONTRACTOR may request the use of the ARCHITECT's computer-generated drawings for use in preparing shop drawings. If the ARCHITECT approves this request, any costs incurred must be paid by the CONTRACTOR to the ARCHITECT. The CONTRACTOR must assume all liability for the accuracy and completeness of the shop drawings so prepared, and must hold the ARCHITECT harmless. The request must be in writing to the ARCHITECT, specifying the format and media requested.

## 1.05 PRODUCT DATA

- A. Product Data includes manufacturers' standard drawings, catalogs, certificates of conformance, substantiating calculations, and similar relevant data as specified in individual Specification sections.
- B. Submit six (6) copies loose-leaf in binders, to facilitate copying of individual sheets. Provide the CONTRACTOR's stamp on the cover sheet of each submittal.
- C. Mark each copy to identify applicable products, models, options and other data. Supplement manufacturers' standard data to provide information unique to this Project.
- D. Review process, corrections, final distribution, and other conditions shall be similar to that for Shop Drawings.

## 1.06 MANUFACTURER'S CERTIFICATES

- A. When specified in individual specification sections, submit manufacturers' certificates to ARCHITECT for review in quantities specified for Product Data.
- B. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits and certifications as appropriate.
- C. Certificates may be recent or previous test results on material or product, but must be acceptable to ARCHITECT.
- D. Review process, corrections, final distribution, and other conditions shall be similar to that for Shop Drawings.

## 1.07 COORDINATION DRAWINGS

- A. The CONTRACTOR shall prepare and submit for review Coordination Drawings of all major spaces. Coordination Drawings indicate routing, locations, sizes, types and numbers of components for each class of work in concealed spaces where potential conflict may occur between structures, mechanical, electrical, fire sprinklers, communications and ceiling suspension systems. They include both plans and section drawings. (See also the General Requirements Section "PROJECT COORDINATION & MEETINGS.")
- B. Show all systems components, including plan locations of all ceiling penetrations and surface-mounted items. Provide cross sections wherever necessary to indicate proper support of ceilings and non-interference with work of other sections of the specifications. Cross sections shall indicate coordination required and proposed solutions for routing of elements where potential conflict exists.
- C. Drawings shall be based on field measurements, shop drawings and product data. They shall be prepared early enough to allow time to identify and resolve conflicts without delaying the progress of the Work. Conflicts shall be brought to ARCHITECT's attention immediately, together with CONTRACTOR's recommendations for resolution.

- D. Submit the Coordination Drawings in a scale of not less than 1/8" = 1' - 0," with necessary sections and profiles at an appropriate, clearly readable enlarged scale. Submit the coordinated drawings as one reproducible and two prints.
- E. The ARCHITECT will review the submittals, make appropriate notations and comments to ensure the solutions meet the intent of the Contract Documents, and then return to CONTRACTOR for implementation.
- F. It shall be the responsibility of the CONTRACTOR to assure that all fabricators and installers of work involved in the Coordination Drawings be informed, consulted and advised in sufficient advance time to arrive at solutions where no extension of contract time or extra cost to the DISTRICT will be involved.

#### 1.08 DSA DEFERRED APPROVALS

- A. Installation of deferred approval items shall not be started until detailed plans, specifications and engineering calculations have been accepted and signed by the ARCHITECT or Engineer in responsible charge of design and signed by a California registered ARCHITECT or Professional Engineer who has been delegated responsibility covering the work shown on a particular plan or specification, and the design has been approved by the Division of the State Architect (DSA). Deferred approval items for this project are the following:
  - 1. n/a
- B. Deferred approval drawings and specifications become part of the approved documents for the project when they have been approved by the Division of the State ARCHITECT.
- C. Submit electronic files and hard copies of each drawing as required by AOR and DISTRICT.
- D. Submit color electronic copies of calculations, product data and test reports and hardcopies as required by AOR.
- E. Identify and specify all supports, fasteners, spacing, penetrations, etc. for each of the deferred approval items, including calculations for each and all fasteners.
- F. Submit documents to the ARCHITECT for review prior to submitting to the Division of the State Architect. Submission shall be made within 30 days of the award of contract.
- G. Documents shall bear the stamp and signature of the Structural, Mechanical, or Electrical Engineer licensed in the State of California who is responsible for the Work shown on the documents.
- H. ARCHITECT will submit the documents as appropriate to the Project Structural, Mechanical and Electrical Engineers for review. Their review shall only be for conformance with the design intent shown in the Contract Documents.

- J. After review by ARCHITECT, forward submittal to the Division of the State Architect for approval, with copy of the transmittal to the DISTRICT.
- K. Respond to review comments made by the Division of the State Architect and revise and resubmit submittal to DSA for final approval. Provide copies of the DSA-approved documents to the ARCHITECT and the DISTRICT.

**END OF SECTION**



**SECTION 01 33 00 – 1**  
**SUPPLEMENTAL SUBMITTAL PROCEDURES**  
(For Projects involving demolition and/or hazardous materials abatement)

**PART 1 – GENERAL**

**1.01 SECTION INCLUDES:**

- A.** Supplemental Submittal Procedures
- B.** Requests for Information
- C.** Startup Submittals
- D.** Outline of Contractor's Technical Execution Plan

**1.02 SUPPLEMENTAL SUBMITTAL PROCEDURES:**

A. Contractor shall prepare and transmit two copies of each of the following Submittals to the CM:

- 1.** Contractor shall submit the initial Project Schedule as discussed in this Section.
- 2.** Contractor shall submit the Contractor's Health & Safety Plan (HASP) as discussed in this Section.
- 3.** Contractor shall submit a Technical Execution Plan (Work Plan) as discussed in this Section.
- 4.** Contractor shall submit Contractor's Daily Construction Report electronically by 10:00 A.M. the next Working day. Daily report shall include:
  - a.** Summary of day's activities.
  - b.** Summary of corrective actions that were taken to improve site safety, security, and erosion and sediment control BMPs.
  - c.** Summary of materials imported and exported
  - d.** Listing of equipment that was mobilized or demobilized
  - e.** Summary of any safety issues.
  - f.** Any "Near Miss" observations for the day.
  - g.** Summary of Daily Safety Meeting
  - h.** Summary of day's weather conditions
  - i.** Total number of personnel onsite for the day
  - j.** Listing of personnel onsite
  - k.** Listing of subcontractors onsite
  - l.** Listing of visitors onsite

5. Contractor shall submit weight tickets, Bill of Lading documents, generators initial waste manifest copies and any other form of shipping documents on a daily basis as specified in other Sections of the Specifications.
  6. Contractor shall submit a two week look-ahead schedule at each weekly construction meeting.
  7. Contractor shall submit biweekly revisions and updates of Progress Schedule and Technical Execution Plan as required by the CM.
  8. Contractor shall submit monthly Health and Safety reports, as specified in Specifications Section 01-45-15 – Health and Safety Requirements.
  9. Contractor shall submit weekly safety reports.
  10. Contractor shall submit equipment inspection logs on a daily basis. To be included in the Daily Construction Report.
  11. Additional submittals as described in the Specifications.
- B.** Contractor shall transmit each Submittal to the CM at the Project Site. Each submittal will be reviewed and returned with one of the following Classifications:
1. *No exceptions taken*; Contractor may proceed with the work.
  2. *Conformed as Noted*: Contractor may proceed with the work subject to the comments and/or notes on the Submittal. Re-submittal is not required.
  3. *Revise and Resubmit*: Contractor may not proceed with the work. Re-submittal is required for certain items.
  4. *Rejected*
- C.** Contractor shall develop a submittal register for review at weekly progress meetings. Register shall be based on submittals listed in the Submittal Summary following this section, requirements throughout the Specifications and additional items as deemed necessary by the Construction Manager or Engineer. In the event a submittal is not listed in the Submittal Summary it does not relieve the Contractor from the responsibility to provide such submittal.
- D.** Contractor shall submit copies (with all signatures affixed) of all waste manifests, weigh tickets, Certificates of Destruction, and other shipping documentation.
- E.** Contractor shall transmit each Submittal with a cover letter signed by Contractor's Project Superintendent. Contractor shall, by signing each Submittal, certify that Contractor has reviewed the Submittal, and that the submitted information conforms to the requirements of the Work and these Specifications.
- F.** Contractor shall sequentially number the transmittals (e.g., Submittal No. 001). Contractor shall number revised Submittals with original number and a sequential alphabetic suffix (e.g., Submittal No. 001a).
- G.** Each Submittal shall include Project title, Contractor, Subcontractor or Supplier, title of Submittal, Specifications Section number and, if applicable, Drawing number.

- H. Submittals that do not conform to the requirements of the Specifications shall be returned with a notation of deficiencies. Contractor shall revise to correct noted deficiencies and resubmit. When revised for resubmission, Contractor shall identify all changes made since previous submission.
- I. Submittals must be submitted to the Engineer prior to the execution of work that requires approval of submittal(s) associated with that work.
- J. The Engineer shall be allowed an ample amount of time to review, supply comment, and provide additional review and approval of all submittals.
- K. Submittals not required by the Specifications shall not be recognized or processed.

### **1.03 REQUESTS FOR INFORMATION:**

- A. Contractor shall submit all Requests for Information (RFI) to the Engineer in writing. Requests for information shall be numbered sequentially and shall include the related Specifications Section number or Drawing number.
- B. RFIs shall be used for the purposes of providing clarification, proposing an alternative procedure or method, and providing a platform for discussion with regards to any changes in the work or proposed changes in the work.
- C. The Engineer will provide any revisions to the Specifications or Drawings in writing.
- D. Contractor shall request written confirmation of any interpretations or clarifications provided verbally by the Engineer.

### **1.04 STARTUP SUBMITTALS:**

- A. This paragraph specifies Submittals that Contractor shall prepare and transmit prior to commencing the Work at the Project Site. Additional Submittals are specified in other Sections of these Specifications.
  - 1. Contractor shall submit the initial Project Schedule. The Project Schedule shall identify milestones and shall be consist with the Contractors TEP with regards to Abatement and Demolition sequence. The Project Schedule shall be prepared using Microsoft Project software.
  - 2. Contractor shall submit the Contractor's HASP as specified in Specifications Section 01415 – Health and Safety Requirements, including documentation of worker's OSHA training and medical monitoring and the name and qualifications of the full-time Site Safety and Health Officer.
  - 3. Technical Execution Plan: Certain elements of the Work require the Contractor to provide detailed written information for review, comment, and approval by the Engineer prior to the execution of the work. Prior to commencing any work on the site, Contractor shall submit a draft Technical Execution Plan (TEP), conforming to the outline specified in Paragraph 1.05, for the Engineer's review and comment. Contractor shall revise the draft TEP as requested by the Engineer and submit a final TEP, subject to the Engineer's review, approval, and acceptance, prior to commencing Work. Any material changes in the Work, process, staffing, major equipment or materials will require a TEP amendment and review and approval by the Engineer.

4. Contractor shall file required notifications of abatement and/or demolition activities with appropriate regulatory agencies prior to initiation of regulated site activities. Copies of all such notifications shall be submitted to Engineer concurrent with Contractor's submittal to said regulatory agencies.
5. Contractor shall provide for Engineer's approval the name and qualifications of Subcontractors providing any sampling, laboratory analyses, geotechnical, material testing or surveying services as required in the Specifications and/or contract documents.

#### **1.05 OUTLINE OF CONTRACTOR'S TECHNICAL EXECUTION PLAN**

- A.** Contractor shall prepare and submit a Proposed Technical Execution Plan to the Engineer at least 10 days prior to the planned start of site work. The Technical Execution Plan shall, at a minimum, include the following sections:

**1. Project Coordination.**

- a. Detailed Project staffing plan showing staffing levels for each task and phase of Work. Note: No undocumented workers are allowed to work on site.
- b. Resume of key project staff including proposed Project Superintendent(s).
- c. List of all proposed subcontractors, including hazardous material abatement companies, transportation companies, and disposal facilities.
- d. List of major equipment and materials.
- e. List of Permits and Approvals to be obtained by Contractor, including contact names, titles, and phone numbers.

**2. Progress Schedule.**

- a. Include Contractor's initial Baseline Project Schedule, including line items for all major project work elements.

**3. Construction Facilities and Temporary Controls.**

- a. Locations, sizes, and requirements for utility services.
- b. Layout of Work Zones
- c. Proposed design of Abatement Enclosures and Decontamination Stations.
- d. Decontamination Methods and Equipment.

Procedures to prevent contamination of clean areas.

Vehicle decontamination and inspection procedures.

Procedures for collection, treatment, and disposal or discharge of decontamination residuals and used PPE.

**4. Erosion and Sediment Control**

- a. Proposed detail description and design of Erosion and Sediment controls to be used during demolition activities.
  - b. The Contractor shall implement storm water best management practices in general conformance with the requirements of the California Storm Water Quality Association (CASQA) Storm water Best Management Practice Handbook, Revised August 2011.
- 5. Site Security Requirements.
  - a. Detailed plan describing site security measures to be used during working and non-working hours to prevent unauthorized access to the property.
- 6. Notifications and Permits.
  - a. List of all required Permits and Notifications.
  - b. Proof of submittal of required notifications to appropriate regulatory agencies (Demolition and abatement notifications, etc.)
  - c. Description of information and assistance required for Contractor to obtain above-referenced notifications and permits.
- 7. Asbestos and Lead Paint Abatement and Regulated Waste Work Plan. (If applicable)
  - a. Identify proposed asbestos and lead paint abatement subcontractor to be used, if work will not be performed by Contractor. Include detailed work procedures to be used in the removal and demolition of the asbestos containing material, lead paint material, and universal waste. Contractor shall review the Asbestos Specifications and Hazardous Materials Survey Report provided in the Appendices. The work plan will identify proposed asbestos, lead paint, and regulated waste disposal and recycling facilities. Included within the plan written certification as specified herein that employees have received appropriate training regarding hazards of asbestos and lead paint exposure, respirator use, personnel decontamination, procedures and OSHA regulations. The Contractor shall provide proof of appropriate licenses to perform the Work. Additional information to be submitted from Asbestos abatement contractor are:
  - b. Equipment List;
  - c. Proof of Worker Training and required Medical Examinations;
  - d. Proof of employee respirator fit testing, and
  - e. Contractor and subcontractor's Respiratory Protection Plans.
- 8. Building Demolition Plan.
  - a. Proposed sequence of demolition work.
  - b. Planned methods and equipment to be used for demolition activities.



- c. Procedures and measures to ensure that workers as well as unauthorized personnel, both during and outside of working hours are safely away from the buildings especially during active demolition.
        - d. Description of utility termination process.
        - e. Proposed methods of protecting in place specified utilities.
        - f. Proposed debris and salvage stockpile locations.
        - g. Equipment and procedures to be employed to control dust and noise.
        - h. Dust and noise monitoring procedures.
- 9. Stockpile Management and Loading.
  - a. Show on-site truck routes and loading areas for off-site transportation.
  - b. Truck loading areas, staging areas for incoming empty trucks.
  - c. Coordination of demolition, stockpiling, and loading.
- 10. Off-site Transportation and Traffic Control Plan.
  - a. Provide an estimate, by day, of the expected quantities of material to be shipped from the site. Describe the number of trucks to be used, the expected turn-around-times, and the expected number of trips per day.
  - b. If onsite truck scales are employed, describe locations and equipment to be used to weigh haul trucks. Include frequency for obtaining true weight of trucks.
  - c. Provide a Traffic Control Plan showing how trucks will enter and exit the site, the location of flaggers and signs, designated haul route to and from the off-site disposal facilities with posted speed limits, warnings, etc., and incident reporting procedures for trucking related incidents. The Traffic Control Plan shall establish truck staging area located in area approved by District representative and/or as detailed in contract documents.
  - d. Provide a plan for verifying the accuracy of weight scales if employed.
  - e. Describe procedures to inspect trucks and loads before leaving the site to ensure nothing falls off the truck on roads and highways.
- 11. Site Cleanup
  - a. Describe the method for site clean-up activities and disposal of materials (fine debris, trash, etc.). This includes, but will not be limited to, preventing cross contamination of waste streams and quality control procedures to ensure hazardous materials are not mixed with nonhazardous materials; Describe dust mitigation during site clean-up activities.
- 12. Site Specific Health and Safety Plan (HASP).
  - a. Provide a HASP, including measures to be taken for operational and worker safety, protection of the general public, and measures to control

exposure to airborne dusts, asbestos, lead-based paint, as well as hazards related to demolition activities.

- b.** Contractor's HASP shall designate a qualified, dedicated Site Safety and Health Officer (SSHO) to be present on the Project site during the Work.

**13.** Disposal and Recycling Facilities.

- a.** List of proposed disposal and recycling facilities to be used and their daily capacities for this project.

**END OF SECTION**

## **SECTION 01 35 16**

### **ALTERATION PROJECT PROCEDURES**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Products and installation for patching and extending Work.
- B. Transitions and adjustments.
- C. Repair of damaged surfaces, finishes and cleaning.

#### **PART 2 PRODUCTS**

##### **2.01 PRODUCTS FOR PATCHING AND EXTENDING WORK**

- A. New Materials: As specified in product Sections; match existing products and work for patching and extending work.
- B. Type and Quality of Existing Products: Determine by inspection, and testing products where necessary, referring to existing work as a standard.

#### **PART 3 EXECUTION**

##### **3.01 EXAMINATION**

- A. Verify that demolition is complete and areas are ready for installation of new Work.
- B. Beginning of renovation work means acceptance of existing conditions.

##### **3.02 PREPARATION**

- A. Move, cut, or remove items as necessary for access to alterations and renovation work. Replace and restore at completion.
- B. Remove unsuitable material not marked for salvage, such as rotted wood, corroded metals and deteriorated masonry and concrete. Replace materials as specified for finished work.
- C. Remove debris and abandoned items from area and from concealed spaces.
- D. Prepare surface and remove surface finishes to provide for proper installation of new work and finishes.
- E. Close openings in exterior surfaces to protect existing work and salvage items from weather and extremes of temperature and humidity. Insulate ductwork and piping to prevent condensation in exposed areas.

### 3.03 INSTALLATION

- A. Coordinate work of alterations and renovations to expedite completion sequentially and to accommodate District occupancy.
- B. Remove, cut and patch work in a manner to minimize damage and to provide a means of restoring products and finishes to original or specified condition.
- C. Refinish visible existing surfaces to remain in renovated rooms and spaces, to specified condition for each material with a neat transition to adjacent finishes.
- D. Restore existing and remaining plumbing, heating, ventilating and air conditioning, electrical and fire alarm systems to full operating condition and advise ARCHITECT of any deficiencies discovered during the course of the work.
- E. Install products as specified in individual Sections.

### 3.04 TRANSITIONS

- A. Where new work abuts or aligns with existing, perform a smooth and even transition. Patched work shall match existing adjacent work in texture and appearance.
- B. When finished surfaces are cut so that a smooth transition with new work is not possible, terminate existing surface along a straight line at a natural line of division and make recommendation to ARCHITECT for a satisfactory resolution.

### 3.05 ADJUSTMENTS

- A. Where removal of partitions or walls results in adjacent spaces becoming one, rework floors, walls and ceilings to a smooth plane without breaks, steps or bulkheads.
- B. Where a change of plane of 1/4 inch or more occurs, request instructions from ARCHITECT.
- C. Trim existing doors as necessary to clear new floor finish. Refinish trim as required.
- D. Fit work at penetrations in fire-rated assemblies as specified in "Cutting and Patching" section.

### 3.06 REPAIR OF DAMAGED SURFACES

- A. Patch or replace portions of existing surfaces which are damaged, lifted, discolored or showing other imperfections.
- B. Repair substrate prior to patching finish.

### 3.07 FINISHES

- A. Finish surfaces as specified in individual product Sections.
- B. Finish patches to produce uniform finish and texture over entire area. When finish cannot be matched, refinish entire surface to nearest intersections.

### 3.08 CLEANING

- A. Conform to "Contract Closeout" requirements.

**END OF SECTION**



**SECTION 014000 - QUALITY REQUIREMENTS****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, other Division 1 Specifications Sections to this Section.

**1.2 SUMMARY**

- A. This Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Documents requirements.
  - 1. Specific quality control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
  - 2. Specify tests, inspections, and related actions do not limit Contractor's quality control procedures that facilitate compliance with the Contract Document requirements.
- C. Related sections include the following:
  - 1. Division 1 section "Cutting and Patching" for repair and restoration of construction disturbed by testing and inspecting activities.

**1.3 SUBMITTALS**

- A. Schedule of Tests and Inspections: Prepare in tabular form and include the following:
  - 1. Specification Section number and title.
  - 2. Description of test and inspection.
  - 3. Time schedule or time span for tests and inspections.
  - 4. Entity responsible for performing tests and inspections.
  - 5. Requirements for obtaining samples.

**1.4 QUALITY ASSURANCE**

- A. Testing and inspections required by DSA will be performed by an independent testing laboratory selected and employed by the District, and approved by DSA.

- B. Testing and inspection services which are performed shall be in accordance with requirements of CCR Title 12 Part 1, Administrative Regulations, and as specified herein. Testing and inspection services shall verify that work meets the requirements of the Contract Documents.
- C. In general, tests and inspections for structural materials shall include all items enumerated on the Structural Test and Inspections list for this project as prepared and distributed by the Architect.
- D. Test reports shall be signed by Registered Engineer licensed in the State of California.
- E. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality assurance service to Architect, Inspector of Record (IOR) and District with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspector work complies with or deviates from the Contract Documents.
  - 1. Notify Architect, the IOR and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.
  - 2. Submit a certified written report of each test, inspection, and similar quality control service to Architect, IOR and District, with copy to Contractor and to authorities having jurisdiction.
  - 3. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Document.
  - 4. Retest and reinspect corrected work.
  - 5. Cooperate with Architect, IOR and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
  - 6. Do not release, revoke, alter, or increase requirements of the Contract Documents or approve or accept any portion of the Work.
  - 7. Do not perform any duties of Contractor.
  - 8. Test or inspection report shall bear the official File Number and Application Number assigned to this project by DSA.
- F. Testing Laboratory shall distribute one copy of each test and inspection report to each of the following:
  - 1. District
  - 2. Project Inspector
  - 3. Architect
  - 5. Contractor
- G. Test reports shall include all tests made, regardless of whether such tests indicate that the material is satisfactory or unsatisfactory. Samples taken but not tested shall also be reported. Records of special sampling operation as required shall also be reported. The reports shall show that the material or materials were sampled and tested in accordance with the requirements of CCR Title 24 Part 1 Administrative regulations, Part 2 California Building Code, and with the approved specifications. They shall also

**QUALITY REQUIREMENTS****01 40 00 - 2****SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
BUILDING "M" MAKERS SPACE**

state definitely whether or not the material or materials tested comply with requirements.

I. Verification of Test Reports

1. Each testing agency shall submit to the RE a verified report in duplicate covering all of the tests which are required to be made by that agency during the progress of the project. Such report shall be furnished each time that work on the project is suspended, covering the tests up to that time, and at the completion of the project, covering all tests.

J. Reporting Test Failures:

1. Immediately upon Testing Laboratory determination of a test failure, the Laboratory will telephone the results of test to District, Architect, and Project Inspector. On the same day, Laboratory will send written test results to those named on the above distribution list and the DSA District Structural Engineer.

1.5 PAYMENTS

- A. Costs of initial testing and inspection, except as specifically modified herein, or specified otherwise in technical sections, will be paid for by the District. Initial tests and inspections are defined as the first tests and inspections as herein specified.
- B. In the event a test or inspection indicates failure of a material or procedure to meet requirements of Contract Documents, costs for retesting and reinspection will be paid by the Contractor.
- C. Additional tests and inspections not herein specified but requested by District, IOR or Architect, will be paid for by the District, unless results of such tests and inspections are found to be not in compliance with contract documents.
- D. Costs for additional tests or inspections required because of change in materials being provided or change of source or supply will be paid by the Contractor.
- E. Costs for tests or inspections which are required to correct deficiencies will be paid by the Contractor.
- F. Cost of testing which is required solely for the convenience of Contractor in his scheduling and performance of work will be paid by the District and back charged to the Contractor.
- G. Overtime costs for inspections performed outside the regular workday hours, including weekends and holidays, will be paid for by the Contractor.
- H. Testing Laboratory will separate and identify on the invoices, the costs covering all testing and inspections which are to be back charged to the Contractor as specified

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above.

1. Testing Laboratory will furnish to District a cost estimate breakdown covering initial tests and inspections required by Contract Documents. Estimate will include number of tests, man hours required for tests, field and plant inspections, travel time, and costs.
- I. Should it be considered necessary or advisable by the District at any time before final acceptance of the entire work to make an examination of work already completed by removing or tearing out the completed work, the Contractor shall, on request, promptly furnish necessary facilities, labor or his subcontractor, he/she shall be responsible for all expenses of such examinations and of satisfactory reconstruction. If, however, such work is found to meet the requirements of the Contract, the additional cost of labor and material necessarily involved in the examination and replacement shall be reimbursed to the Contractor.

#### **1.6 QUALITY CONTROL**

- A. Contractor Services: Cooperate with agencies performing required tests, inspections, and similar quality control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
  1. Access to the work.
  2. Incidental labor and facilities necessary to facilitate tests and inspections.
  3. Adequate quantities of representative samples of materials that require testing and inspection. Assist agency in obtaining samples.
  4. Facilities for storage and field curing of test samples.
  5. Preliminary design mix proposed for use for material mixes that required control by testing agency.
  6. Security and protection for samples and for testing and inspecting equipment at project site.
  7. Selection of the material required to be tested will be by the laboratory or the District's Representative and not by the Contractor.
- B. Contractor shall notify the Testing Agency a minimum of 3 working days in advance of the manufacture of material to be supplied by them under the Contractor Documents, which must be terms of the Contract be tested, in order that the Agency may arrange for the testing of such material at the source of supply.
  1. Material shipped by the Contractor from the source of supply before having satisfactorily passed such testing and inspection or before the receipt of notice from the Owner's Representative that such testing and inspection will not be required, shall not be incorporated in the Project.
- C. Coordination: Coordinate sequence of activities to accommodate required quality assurance and quality control services with a minimum of delay and to avoid necessity

#### **QUALITY REQUIREMENTS**

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of removing and replacing construction to accommodate testing and inspecting.

1. Schedule time for tests, inspections, obtaining samples, and similar activities.
- D. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality control services required by the Contract Documents. Submit schedule within 30 days from date established for the Notice to Proceed.
1. Distribution: Distribute schedule to Architect, testing agencies, Project Inspector, and each party involved in performance of portions of the Work where tests and inspections are required.
  2. Unless otherwise specified, Contractor shall notify Testing laboratory a minimum of 10 working days in advance of all required tests, and a minimum of 2 working days in advance of all required inspections. Extra laboratory expenses resulting from a failure to notify the Laboratory will be paid by the Owner and back charged to the Contractor.
  3. Contractor shall give sufficient advance notice to Testing Laboratory in the event of cancellation or time extension of a scheduled test or inspection. Charges due to insufficient advance notice of cancellations or time extension will be paid for by the Owner and back charged to the Contractor.

#### **1.7 INSPECTOR OF RECORD**

- A. A DSA approved Inspector of Record (IOR) (Project Inspector) employed by the District in accordance with the requirements of CCR Title 24 Part 1, Administrative Regulations, will be assigned to the work.
- B. The Contractor shall notify the IOR a minimum of two working days in advance of execution of all work that required inspection.
- C. The work of construction in all stages of progress shall be subject to the personal continuous observation of the IOR. The IOR shall have free access to any or all parts of the work at any time. The Contractor shall furnish the Inspector reasonable facilities for obtaining such information as may be necessary to be fully informed respecting the progress and manner of the work and the character of the materials. Inspections of the work shall not relieve the Contractor from any obligation to comply with the Contract requirements.

PART 2 - PRODUCTS (Not used)

PART 3 - EXECUTION

#### **QUALITY REQUIREMENTS**

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**3.1 REPAIR AND PROTECTION**

- A. General: on completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
  - 1. Comply with the Contract Documents requirements for Division 1 Section "Cutting and Patching".
- B. Protect construction exposed by or for quality control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality control services.

**3.2 TESTS AND INSPECTIONS**

- A. Testing and inspections will be as required in the DSA testing and inspection form which will be provided to the contractor.

**3.3 EARTHWORK**

- A. The Geotechnical Engineer of record or a Geotechnical Engineer selected by the District will provide continuous inspection of fill and will field test fill and earth backfill as placed and compacted, and inspect excavations and subgrade before concrete is placed and provide periodic inspection of open excavations, embankments, and other cuts or vertical surfaces of earth. The Geotechnical Engineer will submit a report indicating that they have observed and tested fills and that in their opinion the fills were placed in accordance with the project specifications. Deliver Report to Resident Engineer and Architect.
- B. Contractor shall remove unsatisfactory material, reroll, adjust moisture, place new material, or in the case of excavations, provide proper protective measures, perform other operations necessary, as directed by the Geotechnical Engineer whose decisions and directions will be considered final.
- D. Soils Test and Inspection Procedure:
  - 1. Allow sufficient time for testing, and evaluation of results before material to be incorporated into the project is needed. The Geotechnical Engineer shall be sole and final judge of suitability of all materials to be imported to the project.
  - 2. Laboratory compaction tests to be used will be in accordance with ASTM D 1557.
  - 3. Field density tests will be made in accordance with ASTM D 1556.
  - 4. Number of test will be determined by Geotechnical Engineer. Materials in question may not be used pending test results.

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5. Excavation and embankment inspection procedure. Geotechnical Engineer will visually or otherwise examine such areas for bearing values, cleanliness and suitability.

6. Earthwork Test Reports: In order to avoid misinterpretations by the reviewing agencies, all retest results shall be reported on the same sheet, immediately following the previous failure test to which it is related, retests shall be clearly noted as such.

### **3.4 ASPHALTIC CONCRETE PAVING**

- A. Asphaltic concrete mix design proposed by the Contractor shall be submitted to the Architect for review, Proposed mix may be tested for conformance with the specifications, including grading, asphalt content and stability.
- B. At the Geotechnical Engineer's option, one sample of the mix shall be taken during each day's paving operation and tested for asphalt content and gradation.
- C. At the Geotechnical Engineer's option, continuous inspection of the paving operation shall be provided. Testing Laboratory shall check for proper thickness, proper mix temperatures, proper rolling procedures and general workmanship.

3.5 Perform additional tests that may be required by individual Specification Sections.

3.6 Perform structural tests and inspections in accordance with the current CBC.

**END OF SECTION 014000**

## **QUALITY REQUIREMENTS**

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**SECTION 014200 - REFERENCES****PART 1 - GENERAL****1.1 DEFINITIONS**

- A. General: Basic Contract definitions are included in the Conditions of the Contract.
- B. "Approved": When used to convey Architect's action on Contractor's submittals, applications, and requests, "approved" is limited to Architect's duties and responsibilities as stated in the Conditions of the Contract.
- C. "Directed": A command or instruction by Architect. Other terms including "requested," "authorized," "selected," "required," and "permitted" have the same meaning as "directed."
- D. "Indicated": Requirements expressed by graphic representations or in written form on Drawings, in Specifications, and in other Contract Documents. Other terms including "shown," "noted," "scheduled," and "specified" have the same meaning as "indicated."
- E. "Regulations": Laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, and rules, conventions, and agreements within the construction industry that control performance of the Work.
- F. "Furnish": Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.
- G. "Install": Operations at Project site including unloading, temporarily storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.
- H. "Provide": Furnish and install, complete and ready for the intended use.
- I. "Project Site": Space available for performing construction activities. The extent of Project site is shown on Drawings and may or may not be identical with the description of the land on which Project is to be built.

**1.2 INDUSTRY STANDARDS**

- A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.

**REFERENCES****01 42 00 - 1****SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
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- B. Publication Dates: Comply with standards in effect as of date of the Contract Documents unless otherwise indicated.
- C. Copies of Standards: Each entity engaged in construction on Project should be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents.
1. Where copies of standards are needed to perform a required construction activity, obtain copies directly from publication source.
  2. Applicable codes and standards as indicated in the drawings.
- D. Abbreviations and Acronyms for Standards and Regulations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the organizations responsible for the standards and regulations in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

ADAAG Americans with Disabilities Act (ADA)  
Architectural Barriers Act (ABA)

CFR Code of Federal Regulations

DOD Department of Defense Military Specifications and Standards

DSCC Defense Supply Center Columbus (See FS)

FED-STD Federal Standard (See FS)

FS Federal Specification

FTMS Federal Test Method Standard (See FS)

MIL (See MILSPEC)

MIL-STD (See MILSPEC)

MILSPEC Military Specification and Standards

UFAS Uniform Federal Accessibility Standards

### 1.3 ABBREVIATIONS AND ACRONYMS

- A. Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities indicated in Thomson Gale's "Encyclopedia of Associations" or in Columbia Books' "National Trade & Professional Associations of the U.S."

### REFERENCES

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**SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
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- B. Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

AA	Aluminum Association, Inc. (The)
AAADM	American Association of Automatic Door Manufacturers
AABC	Associated Air Balance Council
AAMA	American Architectural Manufacturers Association
AASHTO	American Association of State Highway and Transportation Officials
AATCC	American Association of Textile Chemists and Colorists (The)
ABAA	Air Barrier Association of America
ABMA	American Bearing Manufacturers Association
ACI	ACI International (American Concrete Institute)
ACPA	American Concrete Pipe Association
AEIC	Association of Edison Illuminating Companies, Inc. (The)
AF&PA	American Forest & Paper Association
AGA	American Gas Association
AGC	Associated General Contractors of America (The)
AHA	American Hardboard Association (Now part of CPA)
AHAM	Association of Home Appliance Manufacturers
AI	Asphalt Institute
AIA	American Institute of Architects (The)
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
AITC	American Institute of Timber Construction
ALCA	Associated Landscape Contractors of America

**REFERENCES****01 42 00 - 3**

**SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
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(Now PLANET - Professional Landcare Network)

ALSC	American Lumber Standard Committee, Incorporated
AMCA	Air Movement and Control Association International, Inc.
ANSI	American National Standards Institute
AOSA	Association of Official Seed Analysts, Inc.
APA	APA - The Engineered Wood Association
APA	Architectural Precast Association
API	American Petroleum Institute
ARI	Air-Conditioning & Refrigeration Institute
ARMA	Asphalt Roofing Manufacturers Association
ASCE	American Society of Civil Engineers
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
ASME	ASME International
ASSE	American Society of Sanitary Engineering
ASTM	ASTM International (American Society for Testing and Materials International)
AWCI	AWCI International (Association of the Wall and Ceiling Industry International)
AWCMA	American Window Covering Manufacturers Association (Now WCSC)
AWI	Architectural Woodwork Institute
AWPA	American Wood-Preservers' Association
AWS	American Welding Society
AWWA	American Water Works Association
BHMA	Builders Hardware Manufacturers Association
BIA	Brick Industry Association (The)
BICSI	BICSI

**REFERENCES**

**01 42 00 - 4**

**SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
BUILDING "M" MAKERS SPACE**

BIFMA	BIFMA International (Business and Institutional Furniture Manufacturer's Association International)
BISSC	Baking Industry Sanitation Standards Committee
CCC	Carpet Cushion Council
CDA	Copper Development Association
CEA	Canadian Electricity Association
CFFA	Chemical Fabrics & Film Association, Inc.
CGA	Compressed Gas Association
CIMA	Cellulose Insulation Manufacturers Association
CISCA	Ceilings & Interior Systems Construction Association
CISPI	Cast Iron Soil Pipe Institute
CLFMI	Chain Link Fence Manufacturers Institute
CPA	Composite Panel Association
CPPA	Corrugated Polyethylene Pipe Association
CRI	Carpet & Rug Institute (The)
CRSI	Concrete Reinforcing Steel Institute
CSA	CSA International (Formerly: IAS - International Approval Services)
CSI	Cast Stone Institute
CSI	Construction Specifications Institute (The)
CSSB	Cedar Shake & Shingle Bureau
CTI	Cooling Technology Institute (Formerly: Cooling Tower Institute)
DHI	Door and Hardware Institute
EIA	Electronic Industries Alliance
EIMA	EIFS Industry Members Association
EJCDC	Engineers Joint Contract Documents Committee

**REFERENCES****01 42 00 - 5****SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
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EJMA	Expansion Joint Manufacturers Association, Inc.
ESD	ESD Association
FIBA	Federation Internationale de Basketball Amateur (The International Basketball Federation)
FIVB	Federation Internationale de Volleyball (The International Volleyball Federation)
FMG	FM Global (Formerly: FM - Factory Mutual System)
FMRC	Factory Mutual Research (Now FMG)
FRSA	Florida Roofing, Sheet Metal & Air Conditioning Contractors Association, Inc.
FSA	Fluid Sealing Association
FSC	Forest Stewardship Council
GA	Gypsum Association
GANA	Glass Association of North America
GRI	(Now GSI)
GS	Green Seal
GSI	Geosynthetic Institute
HI	Hydraulic Institute
HI	Hydronics Institute
HMMA	Hollow Metal Manufacturers Association (Part of NAAMM)
HPVA	Hardwood Plywood & Veneer Association
HPW	H. P. White Laboratory, Inc.
IAS	International Approval Services (Now CSA International)
IBF	International Badminton Federation
ICEA	Insulated Cable Engineers Association, Inc.
ICRI	International Concrete Repair Institute, Inc.

**REFERENCES****01 42 00 - 6****SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
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IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers, Inc. (The)
IESNA	Illuminating Engineering Society of North America
IEST	Institute of Environmental Sciences and Technology
IGCC	Insulating Glass Certification Council
IGMA	Insulating Glass Manufacturers Alliance
ILI	Indiana Limestone Institute of America, Inc.
ISO	International Organization for Standardization
ISSFA	International Solid Surface Fabricators Association
ITS	Intertek
ITU	International Telecommunication Union
KCMA	Kitchen Cabinet Manufacturers Association
LMA	Laminating Materials Association (Now part of CPA)
LPI	Lightning Protection Institute
MBMA	Metal Building Manufacturers Association
MFMA	Maple Flooring Manufacturers Association, Inc.
MFMA	Metal Framing Manufacturers Association
MH	Material Handling (Now MHIA)
MHIA	Material Handling Industry of America
MIA	Marble Institute of America
MPI	Master Painters Institute
MSS	Manufacturers Standardization Society of The Valve and Fittings Industry Inc.
NAAMM	National Association of Architectural Metal Manufacturers
NACE	NACE International (National Association of Corrosion Engineers International)

**REFERENCES****01 42 00 - 7****SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
BUILDING “M” MAKERS SPACE**

NADCA	National Air Duct Cleaners Association
NAGWS	National Association for Girls and Women in Sport
NAIMA	North American Insulation Manufacturers Association
NBGQA	National Building Granite Quarries Association, Inc.
NCAA	National Collegiate Athletic Association (The)
NCMA	National Concrete Masonry Association
NCPI	National Clay Pipe Institute
NCTA	National Cable & Telecommunications Association
NEBB	National Environmental Balancing Bureau
NECA	National Electrical Contractors Association
NeLMA	Northeastern Lumber Manufacturers' Association
NEMA	National Electrical Manufacturers Association
NETA	InterNational Electrical Testing Association
NFHS	National Federation of State High School Associations
NFPA	NFPA (National Fire Protection Association)
NFRC	National Fenestration Rating Council
NGA	National Glass Association
NHLA	National Hardwood Lumber Association
NLGA	National Lumber Grades Authority
NOFMA	NOFMA: The Wood Flooring Manufacturers Association (Formerly: National Oak Flooring Manufacturers Association)
NRCA	National Roofing Contractors Association
NRMCA	National Ready Mixed Concrete Association
NSF	NSF International (National Sanitation Foundation International)
NSSGA	National Stone, Sand & Gravel Association

**REFERENCES****01 42 00 - 8****SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
BUILDING "M" MAKERS SPACE**



NTMA	National Terrazzo & Mosaic Association, Inc. (The)
NTRMA	National Tile Roofing Manufacturers Association (Now TRI)
NWWDA	National Wood Window and Door Association (Now WDMA)
OPL	Omega Point Laboratories, Inc. (Acquired by ITS - Intertek)
PCI	Precast/Prestressed Concrete Institute
PDCA	Painting & Decorating Contractors of America
PDI	Plumbing & Drainage Institute
PGI	PVC Geomembrane Institute
PLANET	Professional Landcare Network (Formerly: ACLA - Associated Landscape Contractors of America)
PTI	Post-Tensioning Institute
RCSC	Research Council on Structural Connections
RFCI	Resilient Floor Covering Institute
RIS	Redwood Inspection Service
RTI	(Formerly: NTRMA - National Tile Roofing Manufacturers Association) (Now TRI)
SAE	SAE International
SDI	Steel Deck Institute
SDI	Steel Door Institute
SEFA	Scientific Equipment and Furniture Association
SGCC	Safety Glazing Certification Council
SIA	Security Industry Association
SIGMA	Sealed Insulating Glass Manufacturers Association (Now IGMA)
SJI	Steel Joist Institute
SMA	Screen Manufacturers Association
SMACNA	Sheet Metal and Air Conditioning Contractors' National Association

**REFERENCES****01 42 00 - 9****SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
BUILDING "M" MAKERS SPACE**

SMPTE	Society of Motion Picture and Television Engineers
SPFA	Spray Polyurethane Foam Alliance (Formerly: SPI/SPFD - The Society of the Plastics Industry, Inc.; Spray Polyurethane Foam Division)
SPIB	Southern Pine Inspection Bureau (The)
SPRI	Single Ply Roofing Industry
SSINA	Specialty Steel Industry of North America
SSPC	SSPC: The Society for Protective Coatings
STI	Steel Tank Institute
SWI	Steel Window Institute
SWRI	Sealant, Waterproofing, & Restoration Institute
TCA	Tile Council of America, Inc.
TIA/EIA	Telecommunications Industry Association/Electronic Industries Alliance
TMS	The Masonry Society
TPI	Truss Plate Institute, Inc.
TPI	Turfgrass Producers International
TRI	Tile Roofing Institute (Formerly: RTI - Roof Tile Institute)
UL	Underwriters Laboratories Inc.
UNI	Uni-Bell PVC Pipe Association
USAV	USA Volleyball
USGBC	U.S. Green Building Council
USITT	United States Institute for Theatre Technology, Inc.
WASTEC	Waste Equipment Technology Association
WCLIB	West Coast Lumber Inspection Bureau
WCMA	Window Covering Manufacturers Association (Now WCSC)

**REFERENCES****01 42 00 - 10****SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
BUILDING "M" MAKERS SPACE**

WCSC	Window Covering Safety Council (Formerly: WCMA - Window Covering Manufacturers Association)
WDMA	Window & Door Manufacturers Association (Formerly: NWWDA - National Wood Window and Door Association)
WI	Woodwork Institute (Formerly: WIC - Woodwork Institute of California)
WIC	Woodwork Institute of California (Now WI)
WMMPA	Wood Moulding & Millwork Producers Association
WSRCA	Western States Roofing Contractors Association
WWPA	Western Wood Products Association

- C. Code Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

BOCA	BOCA International, Inc. (See ICC)
IAPMO	International Association of Plumbing and Mechanical Officials
ICBO	International Conference of Building Officials (See ICC)
ICBO ES	ICBO Evaluation Service, Inc. (See ICC-ES)
ICC	International Code Council
ICC-ES	ICC Evaluation Service, Inc.
SBCCI	Southern Building Code Congress International, Inc. (See ICC)

- D. Federal Government Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

CE	Army Corps of Engineers
CPSC	Consumer Product Safety Commission
DOC	Department of Commerce
DOD	Department of Defense

**REFERENCES****01 42 00 - 11****SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
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DOE	Department of Energy
EPA	Environmental Protection Agency
FAA	Federal Aviation Administration
FCC	Federal Communications Commission
FDA	Food and Drug Administration
GSA	General Services Administration
HUD	Department of Housing and Urban Development
LBL	Lawrence Berkeley National Laboratory
NCHRP	National Cooperative Highway Research Program (See TRB)
NIST	National Institute of Standards and Technology
OSHA	Occupational Safety & Health Administration
PBS	Public Building Service (See GSA)
PHS	Office of Public Health and Science
RUS	Rural Utilities Service (See USDA)
SD	State Department
TRB	Transportation Research Board
USDA	Department of Agriculture
USPS	Postal Service

- E. State Government Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. Names, telephone numbers, and Web sites are subject to change and are believed to be accurate and up-to-date as of the date of the Contract Documents.

CBH	State of California, Department of Consumer Affairs
F	Bureau of Home Furnishings and Thermal Insulation
CPU	California Public Utilities Commission

**REFERENCES****01 42 00 - 12****SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
BUILDING "M" MAKERS SPACE**

**SPECIFICATIONS**

**NO. 67876-373**

C

TFS      Texas Forest Service  
            Forest Resource Development

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

**END OF SECTION 014200**

**REFERENCES**

**01 42 00 - 13**

**SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
BUILDING "M" MAKERS SPACE**



**SECTION 01 43 00**  
**QUALITY ASSURANCE**

**1. PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Interpretation of requirements.
- B. Quality assurance and control of installation.
- C. Tolerances.
- D. Field samples.
- E. Mock-up.
- F. Manufacturers' field services and reports.

**1.2 INTERPRETATION OF REQUIREMENTS**

- A. If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement.
- B. The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation shall comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits.
- C. Where codes or specified standards indicate higher standards, more stringent tolerances or more precise workmanship than levels shown or specified, comply with most stringent requirements.
- D. Refer uncertainties and requirements that are different, but apparently equal, to Architect for a decision before proceeding.

**1.3 QUALITY ASSURANCE/CONTROL OF INSTALLATION**

- A. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this project, whose work has resulted in construction with a record of successful in-service performance.
- B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

- C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- D. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and - control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
- E. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- F. Comply fully with manufacturers' instructions, including each step in sequence.
- G. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
- H. Secure Products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion or disfigurement.

#### 1.4 TOLERANCES

- A. Monitor tolerance control of installed products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply with manufacturer's tolerances. Should manufacturer's tolerance conflict with Contract Documents, request clarification from Architect before proceeding.
- C. Adjust products to appropriate dimensions; position before securing products in place.

#### 1.5 FIELD SAMPLES

- A. Install field samples at the site as required by individual specifications sections for review.
- B. Acceptable samples represent a quality level for the Work.
- C. Where field sample is specified in individual sections to be removed, clear area after field sample has been reviewed by Architect.

#### 1.6 MANUFACTURERS' FIELD SERVICES AND REPORTS

- A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust, and balance of equipment and other field services as applicable, and to initiate instructions when necessary.

- B. Individuals to report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.
- C. Submit report in duplicate within 15 days of observation to Architect for review.

## 2. PART 2 PRODUCTS

Not Used

## 3. PART 3 EXECUTION

### 3.1 GENERAL INSTALLATION

- A. Comply with requirements specified in Section 01 73 00.

### 3.2 EXAMINATION

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent Work. Beginning new Work means acceptance of existing conditions.
- B. Verify that existing substrate is capable of structural support or attachment of new Work being applied or attached.
- C. Examine and verify specific conditions described in individual specification sections.
- D. Verify that utility services are available, of the correct characteristics, and in the correct locations.

### 3.3 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.
- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

**END OF SECTION**

## **SECTION 01 45 00**

### **QUALITY CONTROL**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Quality assurance and control of installation
- B. Reference Standards
- C. Field Samples
- D. Mock-up
- E. Project Inspector
- F. Permits and Fees
- G. Verified Reports
- H. Manufacturers' field services and reports

##### **1.02 QUALITY ASSURANCE/CONTROL OF INSTALLATION**

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions and workmanship to produce work of specified quality.
- B. Comply fully with manufacturers' instructions including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
- D. Comply with specified standards as a minimum quality for the Work except when more stringent tolerances, codes or specified requirements indicate higher standards or more precise workmanship.
- E. Perform work by persons qualified to produce workmanship of specified quality.
- F. Where experience minimums for workmen, applicators, companies or manufacturers are required in individual sections, written certification and documentation substantiating such minimums shall be submitted and approved by the Architect, when requested.
- G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion or disfigurement.

##### **1.03 REFERENCE STANDARDS**

- A. Conform to reference standard by date of issue current on date of Contract Documents.
- B. Obtain copies of standards when required by Contract Documents.
- C. Should specified reference standards conflict with Contract Documents, request clarification from the Architect before proceeding.

- D. The contractual relationship of the parties to the Contract shall not be altered from the Contract Documents by mention or inference otherwise in any reference document.

#### 1.04 FIELD SAMPLES

- A. Install field samples at the site as required by individual specifications Sections for review by Architect.
- B. Accepted samples represent a quality level for the Work.
- C. Where field sample is specified in individual Sections to be removed, clear area after field sample has been accepted by Architect and is no longer required for reference.

#### 1.05 MOCK-UP

- A. Tests will be performed under provisions identified in this section.
- B. Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals and finishes.
- C. Where mock-up is specified in individual Sections to be removed, clear area after mock-up has been accepted by Architect and is no longer required for reference.

#### 1.06 PROJECT INSPECTOR

- A. An Inspector, herein referred to as the "Project Inspector" or "Inspector of Record", will be employed by the District and approved by Office of Regulation Services, Division of State Architect (ORS/DSA) in accordance with Part 1, Title 24, Section 4-333, California Code of Regulations. His duties are described in Part 1, Title 24, Section 4-342, CCR. His duties are also required and defined in Sections 17309, 17311, 81141 and 81143 of the California Education Code as they relate to schools.
- B. The work of construction in all stages of progress shall be subject to the personal continuous observation of the Inspector of Record (IOR). He shall have free access to any or all part of the work at any time. The Contractor shall furnish the Inspector reasonable facilities for obtaining such information as may be necessary to keep him fully informed respecting the progress and manner of the work and the character of the materials. Inspection of the work shall not relieve the Contractor from any obligation to fulfill the requirements of this Contract.

#### 1.07 VERIFIED REPORTS

- A. Contractor shall comply with Part 1, Title 24, Sections 4-336 and 4-343, California Code of Regulations and issue verified reports through the Architect as required.



#### 1.08 MANUFACTURERS' FIELD SERVICES AND REPORTS

- A. When specified in individual specification Sections, require material or Product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust and balance of equipment and as applicable and to initiate instructions when necessary.
- B. Manufacturers' Representatives shall report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.
- C. Submit report of observation to Architect for review.

**END OF SECTION**

## **SECTION 01 45 15**

### **HEALTH AND SAFETY REQUIREMENTS**

#### **PART 1 – GENERAL**

##### **1.01 SECTION INCLUDES:**

- A.** Summary
- B.** References
- C.** Contractor's Responsibility for Health and Safety
- D.** Submittals
- E.** Notifications
- F.** Equipment and Facilities
- G.** Personal Protective Equipment
- H.** Other Health and Safety Equipment
- I.** Training
- J.** Work Planning and Meetings
- K.** Engineering Controls
- L.** Monitoring
- M.** Evaluation of Performance
- N.** Site Security - Other Safety Considerations
- O.** Work by Others
- P.** EHS Incident Report Form
- Q.** Hot Work Permit Form
- R.** Job Safety and Hazard Analysis Form

##### **1.02 SUMMARY:**

- A.** This Section includes requirements for Health and Safety during performance of Work, including identification of applicable Laws and Regulations, Submittals, notification requirements, and Health and Safety Specifications.

##### **1.03 REFERENCES:**

- A.** Applicable regulations and publications include, but are not limited to, the following:
  - 1. ANSI, Emergency Eyewash and Shower Equipment, Z358.1, 1981.
  - 2. ANSI, Practice for Occupational and Educational Eye and Face Protection, Z87.1, 1979.
  - 3. ANSI, Protective Footwear, Z41.1, 1983.
  - 4. DOT Standards and Regulations, 49 CFR 171, 49 CFR 172 and 49 CFR 214.
  - 5. NFPA, Flammable and Combustible Liquids Code, NFPA 30, most recent revision.
  - 6. OSHA, Title 29 CFR Part 1910, Occupational Safety and Health Standards, and Title 29 CFR Part 1926, Safety and Health Regulations for Construction Sites.
  - 7. USEPA, Health and Safety Requirements for Personnel Engaged in Field Activities, USEPA Order No. 14402.
  - 8. USEPA, Standard Operating Safety Guidelines, November 1984.
  - 9. Title 8, California Code of Regulations, Section 1532.1, Lead. Cal/OSHA
  - 10. Title 8, California Code of Regulations, Section 1529. Asbestos. Cal/OSHA
  - 11. Title 8, California Code of Regulations, Section 1529(I)(2), Asbestos Waste Disposal, Cal/OSHA

12. South Coast Air Quality Management District (SCAQMD) regulations including but not limited to Rule 402, 403, and 1403)

Where two or more regulations/documents conflict, the one(s) offering the greatest degree of protection shall apply.

#### **1.04 CONTRACTOR'S RESPONSIBILITY FOR HEALTH AND SAFETY:**

- A.** Contractor shall comply with any and all state, federal, and local Ordinances, Laws and Regulations.
1. Contractor shall be responsible for the Health and Safety of Contractor's employees, its Subcontractors, Suppliers, agents, inspectors, visitors, the general public, and any others associated with or interacting with Contractor who provides labor, goods, or other services on the Project site.
  2. Contractor shall be responsible for emergency response planning and notification, and for actual response to any and all emergencies that may occur during the course of the Work, including emergencies that may occur when Contractor is not present at the Project site.
  3. Contractor is responsible for communicating daily with the District Representative regarding Health and Safety issues for the District Representative's safe conduct of the District Representative's duties, but such communication shall not imply any duty or responsibility on the part of the District Representative with regard to Health and Safety of Contractor's employees, its Subcontractors, Suppliers, the general public, or others. The District Representative's responsibility and duty with regard to Health and Safety shall be limited to the District Representative's employees. Contractor shall have responsibility and duty to the District Representative to communicate Health and Safety issues accurately and in a timely manner to allow the District Representative to take appropriate actions to protect the District Representative's employees and the Owner's employees.
  4. Contractor shall designate a dedicated Site Safety and Health Officer (SSHO) on the Project site during the Work.
    - A.** The SSHO duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs associated with the Contractor's activities at the Project site. The designated SSHO shall be certified in applicable OSHA Construction Safety training. At a minimum, the designated SSHO shall have at least 1 year of experience as a SSHO on demolition and construction sites. Contractor's SSHO shall be solely dedicated to Health and Safety issues from the start of the site activities through completion.
    - B.** The SSHO shall enforce the requirements of safety for all Contractor personnel onsite at all times. The SSHO shall ensure that all Contractor personnel, Subcontractor personnel, and Contractor visitors follow the Contractor's site Health and Safety Plan (HASP), including wearing the designated level of PPE. If the SSHO elects to require a higher level of protection than that specified in the District Representatives HASP, the extra costs associated with such higher level shall be borne by Contractor, unless such extra costs are approved in advance in writing by the District Representative.
    - C.** Prior to mobilization and continually through the duration of the Work, the SSHO shall inspect the Project site and document area-specific and worker-specific protection requirements.
    - D.** After mobilization, the SSHO shall monitor activities and shall document the need for additional worker protection as required, based on activities performed and Action Levels specified in the HASP.

- E. The SSHO shall verify that all activities are performed in accordance with the HASP and all federal, state, local, and Health and Safety standards, Laws and Regulations, and guidelines.
- F. In the event of a health or safety risk, as determined by the SSHO or by other Contractor personnel or by the District Representative, Contractor shall not proceed with the Work until a method for handling the risk has been determined in consultation with the District Representative and implemented. Any health or safety risk resulting in a stoppage of Work shall be reported immediately to the District Representative.

Contractor shall be responsible for implementing a behavior-based safety process and providing site training, observation, and feedback for Contractor personnel employed at the Site.

District Representative shall provide the Contractor with a copy of the District Representative's HASP as a reference. Contractor shall be responsible for preparing their own HASP under which their employees shall work.

#### **1.05 SUBMITTALS:**

- A. Contractor shall prepare and submit a HASP to the District Representative as a part of the TEP. The Contractor shall follow all applicable local, state, and federal Health and Safety standards, Laws and Regulations, and guidelines implemented through, but not limited to, Cal/OSHA, SCAQMD, OSHA and USEPA. Where these are in conflict, the most stringent requirement shall be followed. The following points shall be addressed in the Contractor's HASP:
  - i. Names of key personnel and alternates responsible for Health and Safety, including a Contractor Health and Safety Representative and SSHO. The District Representative must approve the SSHO.
- 2. A Health and Safety risk or Task Hazard Analysis (THA) associated with each portion of the Work (i.e., list potential hazards), including THAs for abatement, demolition, construction of retaining structures, loading and transportation of demolition debris and materials, decontamination, truck traffic, and restoration.
- 3. A requirement that Contractor locate Underground Facilities by using Southern California "Dig Alert" procedures prior to the start of the Work.
- 4. PPE to be used for each of the site tasks and operations being conducted, as required by Cal/OSHA and 29 CFR Subpart I, and 29 CFR 1926.
- 5. Frequency and types of dust monitoring and instrumentation to be used by the Contractor, including methods of maintenance and calibration of monitoring and sampling equipment. Dust monitoring requirements will be determined by the South Coast Air Quality Management District (SCAQMD Rule 403).
- 6. Corrective actions and upgrading of PPE based on monitoring of dust, with specific Action Levels identified.
- 7. Site control measures in accordance with the control program required Cal/OSHA and OSHA.
- 8. Decontamination procedures in accordance with Specifications.
- 9. An emergency response plan meeting federal, state, and local requirements for safe and effective responses to emergencies, including the necessary PPE and other equipment. Explanation of potential emergencies and contingency plan of action, including description of the route to the nearest appropriate hospital, hospital route map, and posting of emergency telephone numbers at the Project site.
- 10. If confined space entry is required, include confined space entry procedures in accordance with Cal/OSHA Title 8, Subchapter 7 § 5157 Permit Required Confined

Spaces and a list of all anticipated confined space entries required by Contractor in the course of the Work.

11. A spill containment program meeting the requirements of all applicable local, state, and federal Health and Safety standards.
12. A list of Health and Safety and emergency equipment available on the Site.
13. A description of engineering controls used to reduce the hazards of equipment operation.
14. Training for emergency response procedures as outlined in the District Representative's HASP.
15. Heat stress program consistent with the references provided in the District Representative's HASP.
16. Cold stress program consistent with the references provided in the District Representative's HASP.
17. Lockout/Tagout where the operation of machinery and/or equipment in which the unexpected energization on start up or the release of stored energy could cause injury to personnel.
18. Measures in place to ensure accountability of the location of all workers onsite at all times specifically to prevent workers from entering into unsafe areas such as buildings being demolished;
19. Measures in place to verify that unauthorized personnel such as passersby and homeless personnel have not entered the site prior to beginning of demolition in the morning, after lunch or other times when the site is momentarily left unattended;
20. Securing the site each night to ensure there are no large pieces of metal, brick, concrete, etc. that might fall on workers during the next shift or unauthorized people that might enter the site after hours;
21. Ensuring that all holes and pits where personnel might fall or trip are covered, backfilled fenced or barricaded as needed to prevent injuries;

1.06 Contractor's Daily Construction Report, submitted in accordance with Specifications Section 01330, shall include a summary of daily safety issues and a summary of Contractor's Daily Safety Meeting.

A. Contractor shall submit weekly safety reports that include:

1. The names of all Contractor and Subcontractor personnel employed at the Site at any time during the week, and the names and duties of key personnel including Contractor's Project Manager, Project Superintendent, SSHO, and all competent personnel.
2. A summary of all Health and Safety incidents describing any medical treatment that was provided during the week, the current Work status of any individuals affected the names of individuals who may have observed the incident, and actions taken by Contractor to address the unsafe act or unsafe condition.
3. A summary of all Health and Safety near-misses or observations providing an opportunity for shared learning and future hazard avoidance. For any Health or Safety incident or near-miss, list the date, the nature of the incident or near-miss, and the names of individuals involved.
4. The total number of labor hours worked at the Site during that week.
5. Internal Health and Safety audits performed by the Contractor as part of the Contractor's HASP.
6. Results of Contractor behavioral observation and feedback evaluations as described in the District Representative's HASP.

B. Contractor shall submit documentation of training and experience for the designated competent persons.



- C. Contractor shall maintain all required and applicable training records on-site including, but not limited to those specified in Part 3.01 (A) of this Section.
- D. Contractor shall submit a Hot Work Permit for any torch cutting, or activities that generate sparks. If the Contractor does not have a permit format readily available, they may request a permit from the District Representative.
- E. Contractor shall conduct a THA for significant activities and submit the documentation to the District Representative for review prior to the start of the activities. Contractor's THA shall be submitted on the THA forms attached to this Section, or other form acceptable to the District Representative.
- F. Contractor shall submit copies of all daily equipment inspections completed.

## **1.07 NOTIFICATIONS:**

- A. Contractor shall immediately (within 30 minutes) verbally report to the District Representative the occurrence of any and all Health and Safety incidents. A Supervisor's Accident/ Incident Report (SAIR), which may be requested from the District Representative, shall be submitted within 24 hours of occurrence of the incident or issue.
- B. Contractor shall immediately and fully investigate any such incident or near-miss and conduct a root cause analysis, and shall submit to the District Representative, the Contractor's written corrective action plan for such incident within one day after the incident occurs in accordance with Specifications Section 01330 – Submittal Procedures.
- C. Contractor shall notify the District Representative in writing at least 5 days prior to bringing any hazardous material, equipment, or process to the site, or using the same on the Site. Contractor shall provide the District Representative with a MSDS for all chemicals brought on to the Site.
- D. Contractor shall immediately notify the District Representative in writing of any hazard that Contractor discovers or observes on the site and corrective measures planned or taken to eliminate or minimize such hazard. Hazard reporting will be completed as a Near Miss Report as described in 1.05(C)(3) of this Section.

## **PART 2 – PRODUCTS**

### **2.01 EQUIPMENT AND FACILITIES:**

- A. Contractor shall provide all equipment, temporary facilities, and personnel required to perform activities onsite safely in accordance with all Laws and Regulations and standards, and with the Contractor's HASP.

### **2.02 PERSONAL PROTECTIVE EQUIPMENT:**

- A. The appropriate level of PPE shall be determined by the Contractor for specific tasks as described in the Contractor's HASP. If hazards are identified that require a level of protection greater than Level D (defined in paragraph C below), Work shall be suspended and the District Representative notified. The Contractor's SSHO, in consultation with the District Representative, shall determine what actions are required prior to restarting Work. Contractor shall determine and document the appropriateness of suggested minimum PPE requirements for Contractor's employees and others at the Project site.
- B. Contractor shall furnish and maintain materials and equipment for the Health and Safety of Contractor employees, its Subcontractors, Suppliers, and visitor personnel. Contractor shall provide all required Health and Safety equipment, first aid equipment, tools, monitoring equipment, PPE, and ancillary equipment and methods required to ensure workers' Health and Safety and to comply with the Contractor's HASP. District Representative will furnish PPE and monitoring for District Representative's employees.
- C. Level D protection will be required at all times while onsite by all personnel and visitors. Level D PPE consists of:

1. Hard hat
  2. Steel-toed boots
  3. Safety glasses with permanent side shields
  4. Work clothes (long pants, shirts with sleeves)
  5. High visibility reflective safety vests
  6. Hearing protection (as needed to prevent exposure exceeding 85 dB level) if noise level warrants.
- D. In most cases, Level D will be the maximum allowed level of PPE. Level C may be required as certain hazards are faced provided that personnel are properly trained and certified. Contractor shall notify District Representative immediately when upgrades to Level C are employed by the Contractor.
- E. In cases where the Owner requires additional PPE, the District Representative will notify the Contractor of these additional requirements in advance of mobilization so that Contractor may obtain the necessary equipment.

## **2.03 OTHER HEALTH AND SAFETY EQUIPMENT:**

- A. Contractor is required to have the following equipment available on the Site for the Health and Safety of Contractor, Subcontractors, Suppliers, and visitors:
1. First aid kits
  2. Fire suppression equipment (appropriate to location and type of flammable materials present). Equipment will be certified ready for use within the previous twelve months and will also have been inspected each month; documentation supporting certification and inspections will be available for review.
  3. Emergency eyewash facilities meeting OSHA specifications
  4. Other equipment or supplies as determined to be necessary or prudent by Contractor or the District Representative
  5. Flammable liquids storage cabinet(s), if necessary
  6. Fall protection equipment appropriate for the hazards on the project
  7. Heavy blankets

## **PART 3 – EXECUTION**

### **3.01 WORKER QUALIFICATION:**

- A. Contractor shall provide the following training to each worker, unless otherwise specified:
1. Cal OSHA, OSHA, AHERA, and or California Department of Public Health (CDPH) compliant worker training as required by regulations including but not limited to CCR Title 8, 29 CFR, and 40 CFR.
  2. Current cardiopulmonary resuscitation (CPR) and first aid certification for at least two workers assigned to Work on the site.
  3. Confined Space Entry Training for workers entering confined spaces.
  4. Contractor shall designate one “competent person” for Demolition as defined by 29 CFR Part 1926.850.
    - A. For one who is assigned the role of a “competent person,” documentation of sufficient and relevant training and experience to perform the assigned duties and responsibilities of that role. As defined in 29 CFR 1926.32(f), the competent person shall be “one who is capable of identifying existing and predictable hazards, and who has authority to take prompt corrective measures to eliminate them.”
    - B. Relevant training and experience shall be in the same type of Project activities included in the Work under this contract.
    - C. Training as required for Asbestos and Lead abatement workers

### **3.02 WORK PLANNING AND MEETINGS**

- a. Contractor and the District Representative shall conduct a daily Health and Safety meeting, prior to beginning Work for that day, to address Health and Safety issues, changing site conditions, activities and personnel. All Contractor and Subcontractor employees working on the Site on that day shall attend the meeting. All meetings shall be documented and attendees shall sign acknowledgement of their presence at the meeting. Daily meetings shall include an evaluation of the Work to be conducted, the hazards associated with the work, and control measures being used to reduce exposure.
- b. Contractor personnel who are not in attendance for the daily Health and Safety meeting shall be briefed on the meeting notes upon arrival at the Site and prior to commencing their Work activities. Employees shall sign acknowledgement of briefings prior to commencing Work.
- c. Contractor shall hold and document additional safety meetings at the start of each major task and whenever site conditions affecting personnel safety change. Any major task undertaken shall require the completion, or modification, of a THA as described in this Section.

### **3.03 ENGINEERING CONTROLS**

- A. Contractor shall, at a minimum, provide the following Engineering controls to reduce the hazards of equipment operation and exposure during demolition and lead and asbestos abatement activities:
  1. Roll-over cages for bulldozers, back hoes, loaders, and tractors
  2. Back-up alarms for all trucks and moving equipment
  3. Wetting of media or other means to control dust during the Work
  4. Decontamination of equipment in accordance with Specifications.
  5. Enclosures for abatement activities.
  6. Barricades around restricted areas.
  7. Others as determined to be necessary or prudent by Contractor or as directed by the District Representative
  8. Contractor shall post ground-level warning signs every 50 feet below all overhead utilities onsite.

### **3.04 MONITORING:**

- A. Contractor shall perform heat exposure and cold exposure monitoring activities as required by weather conditions.
  1. Contractor shall perform all atmospheric monitoring of tanks, pits, sumps, vaults, and enclosures to ensure that toxic or explosive gases are not present prior to performing demolition activities or personnel entry. At a minimum, atmospheric monitoring shall include the Lower Explosive Limit (LEL), % Oxygen, and Hydrogen Sulfide gas.
  2. Contractor should monitor workers for dust exposure using a personal dust monitor. Workers with the greatest likelihood of being exposed to dust, as evaluated by the SSHO, should don a personal dust monitor.

### **3.05 EVALUATION OF PERFORMANCE:**

- a. Contractor shall routinely conduct internal safety audits on Subcontract and Sub-subcontract Work sites in accordance with the Contractor's HASP. The focus of these routine audits will be on compliance with OSHA and local occupational safety regulations.
- b. Contractor shall conduct routine behavioral observations and provide immediate feedback during Work activities to promote safe behavior of Contractor employees and Subcontractor employees.

### **3.06 SITE SECURITY - OTHER SAFETY CONSIDERATIONS**

- A.** The Site is located in a heavily developed community, with frequent traffic on adjacent streets, and truck traffic delivering to the neighboring retail locations. Site workers, visitors, and truck drivers need to become familiar with the local traffic pattern to prevent traffic accidents and impeding traffic when entering and exiting the site.
- B.** There is evidence of some transients and/or trespassers attempting to enter the portions of the campus.
- C.** Site Security measures in the form of fencing, barricades and signage are critically important to maintain a safe work environment and to protect the public. The Contractor shall be responsible for maintaining adequate security measures for the duration of the project.

### **3.07 WORK BY OTHERS**

- A.** District representative or consultant may perform site perimeter dust monitoring activities and monitor for emissions of nuisance dust and/or hazardous materials to areas outside the Work limits.

**END OF SECTION**

**HEALTH AND SAFETY FORMS FOLLOW**

## – Hot Work Permit

**Permit Valid**

**For 1 Work Day**

**Site Name:** \_\_\_\_\_

**Project Number:** \_\_\_\_\_

**EHS Officer:** \_\_\_\_\_

**Client:** \_\_\_\_\_

**Hot Work Description:** \_\_\_\_\_

\_\_\_\_\_

**Workers/Welders Conducting Hot Work:** \_\_\_\_\_

### Permits MUST be completed in its Entirety Before Hot Work Begins

	Yes	No
Has Project supervisor been notified of intended Hot Work?		
Does client representative need to be notified of the intended Hot Work?		
Will Hot Work impact the general public, clients, or operation employees?		
Will the intended Hot Work need to be coordinated with other contractors who may be working on the site to make them aware of any hazards and the scope of work to be performed?		
Have hazardous energy sources been identified, isolated, and locked out/tagged out before the start of the Project?		
Will Hot Work be conducted within a confined space?		
All testing equipment (i.e., CGI, oxygen meter, etc.) and firefighting equipment (i.e., extinguisher, etc.) have been checked to ensure proper operation and calibration before the start of this Project?		
Has a fire watch been designated and on station?		
Have coatings on metal surfaces been tested for ignitability and flame spread?		
Has the area been cleared of all flammable materials?		
Have all fuel sources been identified and protected?		
Has the area been restricted with proper barriers and signs?		
Has the area been tested to be certain that atmosphere is 0% LEL before starting Hot Work?		
Have flame sensitive areas and equipment (including cylinders and gas delivery lines) exposed to slag and sparks been protected by flame resistant blankets or removed from the area?		
Have all equipment and hoses been protected from falling metal structures and debris?		
Have escape routes been identified before starting work?		
Is ventilation equipment needed? Type needed:		



**The Following Protective Equipment Will be Required:**

	Yes	No		Yes	No
Welding Goggles/Shield Tint			Supplied Air Respirator		
Safety Boots			Head Protection		
Leather gloves			Safety Harness		
Hearing Protection			Welding Leathers – Top		
APR Cartridge			Welding Leathers - Bottom		

**Permit Valid for 1 Work Day**

The following procedures will be applicable prior to Hot Work on tanks or other types of enclosed structures. (Check all that apply and fill in appropriate information.)

- ☐ Ventilate to 0% LEL
- ☐ Confined Space Entry Permit
- ☐ Mechanical Ventilation Required
- ☐ Cold Cut Only                      Method Allowed: \_\_\_\_\_
- ☐ Hot Cutting Permitted              Method Allowed: \_\_\_\_\_

Inert to < \_\_\_\_\_ % Oxygen

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**Approvals:**

\_\_\_\_\_

Date

\_\_\_\_\_

District Representative

\_\_\_\_\_

Contractor's Site Safety Officer

\_\_\_\_\_

Fire Watch

\_\_\_\_\_

Performed Hot Work Employee

File Permit in Project Work File and Health and Safety Department

## SECTION 01 45 23

### TESTING AND INSPECTION

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

This Section includes CONTRACTOR's responsibilities with regard to mandatory testing and inspection services:

- A. Testing and inspection services to meet requirements of the California Code of Regulations (CCR), Title 24, California Building Code (CBC).
- B. Tests of materials required by the DISTRICT's DSA certified testing agency as set forth in Section 4-335 of the California Building Standards Administrative Code.
- C. Inspection by DSA certified inspectors, employed by the DISTRICT in accordance with the requirements of California Building Standards Administrative Code, assigned to the Work with duties specifically defined in Section 4-333(b).

##### 1.02 TESTING AGENCY

- A. DISTRICT will select an independent testing agency approved by the California Division of the State Architect to conduct tests, sampling, and testing of materials.
- B. Selection of material to be tested shall be by the agency or the INSPECTOR OF RECORD (IOR) and not by CONTRACTOR.
- C. Any material shipped from the source of supply prior to having satisfactorily passed such testing and inspection or prior to the receipt of notice from IOR that such testing and inspection is not required shall not be incorporated into the Work.
- D. DISTRICT will select and directly reimburse testing agency the costs for all DSA and/or DSA required tests and inspections, but may be reimbursed by CONTRACTOR for such costs as noted in related portions of the Contract Documents.
- E. The independent testing agency is not authorized to release, revoke, alter, or enlarge requirements of the Contract Documents or approve or accept any portion of the Work. The testing agency shall not perform any duties of CONTRACTOR. The agency does not have authority to stop the Work.

##### 1.02 TEST REPORTING

- A. Test reports shall include all tests performed, regardless of whether such tests indicate the material is satisfactory or unsatisfactory. Samples taken but not tested shall also be reported. Records of special sampling operations as required shall also be reported. Reports shall indicate the material or materials were sampled and tested in accordance with requirements of CBC, Title 24, Parts 1 and 2. Test reports shall indicate specified design strength. They shall also definitely state whether or not material or materials tested comply with the specified requirements. When requested by DISTRICT or Architect, provide interpretation of test results.

- B. After each inspection and test, testing agency will promptly submit one (1) copy of laboratory report to the following distribution list:
1. Division of State Architect
  2. District. (or District Representative if applicable)
  3. Project Inspector.
  4. Architect.
  5. Structural Engineer.
  6. Mechanical and Electrical Engineers (Related Tests and Inspections).
  7. Contractor
- C. Each test report will include:
1. Date issued.
  2. Project title, Architect's number, DSA application and file number.
  3. Name of agency's inspector.
  4. Date and time of sampling or inspection.
  5. Identification of product and Specifications Section.
  6. Location in the Project.
  7. Type of inspection or test.
  8. Date of test and ambient conditions at time of test.
  9. Results of tests.
  10. Statement of Conformance with Contract Documents.
  11. Signature by Registered Professional Engineer licensed in California.
  12. Statement that tests were conducted in accordance with Parts 1 and 2, Title 24, California Code of Regulations.
- D. Immediately upon testing agency determination of a test failure, the agency will telephone the results of the test to the ARCHITECT. On the same day, the agency will send written test results to those on the distribution list.

#### 1.03 TEST AND INSPECTION VERIFICATION REPORT

- A. Testing agency shall submit to the Division of the State Architect a verified report in duplicate, with copy to the DISTRICT, covering each test which is required to be performed by that agency during progress of the Work. Such report shall be furnished each time construction on the Work is suspended, covering tests up to that time, and also prior to Final Completion of the Work, covering all tests.

#### 1.04 INSPECTION BY DISTRICT

- A. DISTRICT and its representatives shall at all times have access, for purpose of inspection, to all parts of the Work and to shops wherein the Work is in preparation, and CONTRACTOR shall at all times maintain proper facilities and provide safe access for such inspection.
- B. DISTRICT shall have the right to reject materials and/or workmanship deemed defective Work, and to require correction. Defective workmanship shall be corrected in a satisfactory manner and defective materials shall be removed from the premises and legally disposed of, all without charge to DISTRICT. If CONTRACTOR does not correct such defective Work within a reasonable time, fixed by written notice and in accordance with the terms and conditions of the Contract Documents, DISTRICT may correct such defective Work and proceed to recover costs in accordance with related Articles of the Contract Documents.

#### 1.05 INSPECTOR OF RECORD

- A. INSPECTOR OF RECORD (IOR) is employed by DISTRICT in accordance with requirements of Title 24 of the California Code of Regulations with their duties specifically defined therein.
- B. Inspection of Work shall not relieve CONTRACTOR from any obligation to fulfill all of the terms and conditions of the Contract Documents.
- C. CONTRACTOR shall be responsible for scheduling times of inspection, tests, sample taking, and similar activities of the Work.

#### 1.06 CONTRACTOR RESPONSIBILITIES

- A. Cooperate with testing agency personnel, DISTRICT's Representative, INSPECTOR OF RECORD (IOR), CONSTRUCTION MANAGER and the ARCHITECT, to provide access to the Work including weekends and after work hours and to manufacturer's facilities.
- B. Provide incidental labor, materials and facilities to provide, at all times, safe access to Work to be tested, to obtain and handle samples at the site or at source of products to be tested, to facilitate tests and inspections, storage and curing of test samples.
- C. Notify CONSTRUCTION MANAGER, IOR and testing agency 24 hours in advance of required inspections or sampling, and 48 hours in advance of special testing or inspections. Notify DISTRICT in advance of the manufacturer or fabrication of materials in time to plan and schedule required testing at the source of supply. Extra expenses resulting from a failure to notify the agency shall be borne by the CONTRACTOR. Whenever extra expenses are indicated to be borne by the CONTRACTOR, they will be charged to the CONTRACTOR by Change Order.
- D. The DISTRICT, IOR, CONSTRUCTION MANAGER or the ARCHITECT shall have the right to reject materials and workmanship which are defective or to require their correction. Rejected workmanship shall be satisfactorily corrected and rejected materials shall be removed from the premises without cost to the DISTRICT. Extra expenses for retesting and re-inspection shall be borne by the CONTRACTOR. If the CONTRACTOR fails to correct such rejected work within a reasonable time, fixed by written notice, the DISTRICT will correct same and charge the expense to the CONTRACTOR by Change Order.
- E. Should it be considered necessary or advisable by the DISTRICT at any time before date of substantial completion of the entire work to make an examination of work already completed by removing or tearing out the same, the CONTRACTOR shall on request promptly furnish all necessary facilities, labor and materials. If such work is found to be defective in any respect due to fault of the CONTRACTOR or his subcontractor, all extra expenses shall be borne by the CONTRACTOR. If, however, such work is found to meet the requirements of the Contract, the additional cost of labor and material necessarily involved in the examination and replacement costs shall be allowed the CONTRACTOR by Change Order.
- F. When changes of construction progress schedule are necessary during construction, coordinate such changes with the testing agency as required.

- G. When the testing agency is ready to test according to the established schedule, but is prevented from testing or taking specimens due to incompleteness of the Work, extra charges for testing attributable to the delay shall be borne by the CONTRACTOR.
- H. CONTRACTOR is responsible for compliance to all applicable local, state, and federal regulations regarding codes, regulations, ordinances, restrictions, and requirements, regardless of the provisions of this Section.
- I. Inspecting and testing performed exclusively for the CONTRACTOR's convenience shall be the sole responsibility and expense of the CONTRACTOR.

#### 1.07. TESTS AND INSPECTIONS

- A. The following tests and inspections do not limit inspection of the Work but are required by DSA, other agencies, or are required in related Sections of the Contract Documents. The list may not be all inclusive.
- B. Excavations, Foundations and Retaining Walls - CBC, Chapter 18A and 33A

##### 1. Inspection:

- a. Earth Fill Compaction 1801A.2
- b. Inspection of Driven Pile Installation 1809A.6
- c. Inspection of Caissons 1809A.7

- C. Concrete - CBC, Chapter 19A:

##### 1. Materials:

- a. Test of Materials 1903A.1
- b. Portland Cement Tests 1903A.2
- c. Concrete Aggregate 1903A.3
- d. Shotcrete Aggregate 1903A.3; 1924A.3
- e. Reinforcing Bars 1903A.5.1; 1903A.5.2;  
1903A.5.3; 1903A.5.4;
- f. Prestressing Steel & Anchorage 1903A.5.5;
- g. Structural Steel, Steel Pipe or tubing 1903A.5.6
- h. Admixtures 1903A.6
- d. Batch Plant Inspection 1929A.4
- e. Waiver of Batch Plant  
Inspection & Tests 1929A.5, 1929A.6

##### 2. Quality:

- a. Proportions of Concrete 1905A.1; 1905A.2; 1905A.3;  
1905A.4; 1905A.5; 1905A.6,
- b. Mixing and Placing 1905A.1.1; 1905A.1.2;  
1905A.1.3
- c. Concrete Testing 1905A.6;
- d. Test Of Shotcrete 1905A.6; 1924A.10
- e. Composite Construction Cores 1929A.8
- f. Gypsum Concrete Strength Tests 1925A.1; 1929A.13
- g. Insulating Concrete Tests DSA IR 27-1



3. Inspection:
  - a. Project Site Inspection 1905A.7.1
  - b. Batch Plant or Weigh-master Inspection: 1929A.4, 1929A.5; 1929A.6
  - c. Pre-stressed Concrete Inspection 1929A.9
  - d. Shotcrete Inspection 1929A.10
  - e. Reinforcing Bar Welding Inspection 1929A.12, 1903A.10
- D. Lightweight Metal - CBC, Chapter 20A:
  1. Materials:
    - a. Alloys 2001A.2
    - b. Identification 2001A.4
  2. Inspection:
    - a. Welding 2004A.8
- E. Masonry - CBC, Chapter 21A:
  1. Materials:
    - a. Masonry Units 2102A.2,.4,.5,.6
    - b. Portland Cement, Lime 2102A.2.2, .3; 2103A.2
    - c. Mortar & Grout Aggregates 2102A.2.1; 2103A.4.3
    - d. Reinforcing Bars 2102A.2.10; 1903A5, 2102A.2.10
  2. Quality:
    - a. Portland Cement Tests 1903A.2, 1929(A.1)
    - b. Mortar & Grout Tests 2105A.3.4.2
    - c. Masonry Prism Tests 2105A.3.2, 2105A3.5
    - d. Masonry Core Tests 2105A 3.1
    - e. Reinforcing Bars 2102A.2.10
  3. Inspection:
    - a. Reinforced Masonry 2105A
    - b. Reinforcing Bar Welding Inspection 1903A.10, 1929A.12
- F. Steel - CBC, Chapters 17A & 22A:
  1. Materials:
    - a. Structural Steel, Cold Formed Steel 2202A.1, 2231A.1
    - b. Material Identification 2203.A4
  2. Inspection and Tests:
    - a. Test of Structural Steel 2231.A
    - b. Tests of High Strength Bolts, 2231.A.2 Nuts, and Washers
    - c. Tests of End Welded Studs 2231.A.3
    - d. Shop Fabrication Inspection 2231.A.4
    - e. Welding Inspection 2231.A.5

- f. Non-destructive Weld Testing 1703A
    - g. High Strength Bolt Inspection 2231A.6
    - h. Steel Joist Load Tests 2231A.7
    - i. Spray applied fire resistance materials 1701
- G. Wood - CBC, Chapter 23A:
  - 1. Materials:
    - a. Lumber and Plywood Grading 2303A.1, 2304A
    - b. Glue-Laminated Members 2303A.2, 2304A
  - 2. Inspection:
    - a. Glue-Laminated Fabrication 2337A.1
    - b. Timber Connectors 2337A.2
    - c. Manufactured Trusses 2337A.3
- H. Exterior Wall Coverings - CBC, Chapter 14A, 25A:
  - 1. Materials:
    - a. Portland Cement Plaster 2508A, 2509A, 2510A
  - 2. Inspection:
    - a. Veneer Inspection 1405A
- I. Clay or Concrete Roof Tile – CBC Chapter 15A:
  - 1. Materials:
    - a. Clay or concrete tile 1507.7
  - 2. Inspection: District Requirement

## 1.08 EARTHWORK

- A. The DISTRICT's testing agency, under the direction of the Geotechnical Engineer of Record, will provide continuous inspection of fill and will field test fill and earth backfill as placed and compacted, and inspect excavations and subgrade before concrete is placed and provide periodic inspection of open excavations, embankments, and other cuts or vertical surfaces of earth. Geotechnical Engineer will sign all reports of observation and testing.
- B. Unsatisfactory materials shall be removed from the site. Materials installed improperly shall be removed, replaced, moisture adjusted, re-compacted and otherwise re-worked to achieve a satisfactory installation.
- C. Imported fill materials from offsite or onsite shall be inspected and tested at the source before importing and placing, and a report issue attesting to the satisfactory nature of the material.
- D. The agency will perform all sampling and testing of materials and testing of work in place as required by the DSA Testing and Inspection Listing, or otherwise required. Testing will be performed in accordance with ASTM or California-required test methods.

#### 1.09 CONCRETE

- A. The DISTRICT's testing agency will conduct one-time sampling of aggregate and preparation and testing of concrete mix design for each strength and/or aggregate size specified. Testing costs for additional mix designs shall be borne by the CONTRACTOR.
- B. Continuous plant inspection and other concrete installation tests will be conducted by the DISTRICT's testing agency. However, costs for retesting of materials that do not meet specification requirements shall be borne by the CONTRACTOR.

#### 1.10 ROOFING

- A. Testing agency will conduct inspection and testing of built-up bituminous roofing in accordance with manufacturer's instructions, including:
  - 1. Attend pre-roofing conference.
  - 2. Check deck surfaces prior to roofing application to verify that substrate is in satisfactory condition to receive roofing.
  - 3. Check kettle temperature control system and monitor kettle control temperatures.
  - 4. Inspect and test materials including softening point of asphalt to ensure conformance with specifications.
  - 5. Check for excessive moisture.
  - 6. Observe roofing application to ensure conformance with specifications.
  - 7. Supervise cutting and repair of cut-out tests and test and inspect cut-out samples for conformance with specifications.

### END OF SECTION

## **SECTION 01 52 00**

### **CONSTRUCTION FACILITIES**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Furnishing and installing temporary facilities as indicated, specified or required for proper performance of the Work.

##### **1.02 RELATED SECTIONS**

- A. Temporary. Storm Water Pollution Control
- B. Temporary Controls
- C. Construction Waste Management and Disposal

##### **1.03 GENERAL**

- A. CONTRACTOR shall provide, maintain, relocate, and remove temporary facilities, including buildings, field office, toilets, utilities, storage units, fencing, barricades, chutes, elevators, hoists, scaffolds, railings and other facilities or services as required. CONTRACTOR shall be responsible for all use charges for the items provided as specified herein.
- B. CONTRACTOR shall furnish, install, maintain and pay for all necessary permits, inspections, temporary lines and connections and metering devices, use charges, move-ins/outs, connection fees, service, extension and distribution, deliveries/pickups, rentals, storage, transportation, taxes, labor, insurance, bonds, materials, equipment and all other required miscellaneous items for the temporary utilities systems required for completion of the work, and, upon substantial completion of the Work, remove all such temporary utilities systems and appurtenances.

##### **1.04 REGULATORY REQUIREMENTS**

- A. Comply with governing ordinances, regulations and utility company requirements and recommendations.
- B. Comply with pollution and environmental protection codes and regulations for use of water and energy, for discharge of waste and storm drainage from the project site, and for control of dust, air pollution and noise.
- C. Temporary construction shall conform to requirements of State, County and local authorities and insurance requirements which pertain to operation, health, safety and fire hazard. Provide items necessary to comply with such requirements, whether or not specifically indicated or specified in the Contract Documents.

#### 1.05 TEMPORARY WATER

- A. CONTRACTOR shall provide and maintain temporary potable water service, including water distribution piping and outlet devices of the size and required flow rates in order to provide service to all areas of the Project site at all times.

#### 1.06 TEMPORARY SANITARY FACILITIES

- A. CONTRACTOR shall provide portable chemical toilet facilities, in quantities based on total number of workers and shall be in accordance with CAL/OSHA standards.
- B. Portable chemical toilet facilities shall be maintained with adequate supplies and in a clean and sanitary condition and shall be removed from the Project site upon Substantial Completion of the Work.
- C. CONTRACTOR employees shall not use school toilet facilities.
- D. CONTRACTOR will define appropriate areas for break and lunch periods and will provide suitable containers for placement of trash in those areas. Areas shall be maintained clean and orderly.

#### 1.07 TEMPORARY TELEPHONE SERVICE

- A. CONTRACTOR shall provide temporary telephone and data service for temporary facilities.

#### 1.08 TEMPORARY ELECTRICAL POWER

- A. CONTRACTOR shall provide temporary electrical service for construction, temporary facilities, and connections for construction equipment requiring power or lighting, at all points required for the Work, for inspection and safety.
- B. CONTRACTOR shall ensure that welding equipment is supplied by electrical generators, not by the utility-furnished electrical power.

#### 1.09 TEMPORARY LIGHTING

- A. CONTRACTOR shall provide and maintain all temporary lighting as necessary to provide safe access, performance and inspection of the work.
- B. Light levels provided shall be a minimum of 20 foot candles inside buildings and 5 foot candles outside for inspection, safety and security.

#### 1.10 TEMPORARY HEATING, VENTILATION AND AIR CONDITIONING (HVAC)

- A. CONTRACTOR shall provide temporary heating, ventilating, cooling and filtration required for satisfactory completion of the Work.
- B. CONTRACTOR shall ventilate enclosed areas to assist cure of materials, dissipate humidity, and to prevent accumulation of dust, fumes, vapors, gases, or other irritants.



- C. CONTRACTOR shall maintain manufacturer-required levels of room and/or space temperature, humidity and ventilation necessary to install products, materials and/or systems of the Work.
- D. Utilization of the HVAC system for temporary construction use does not constitute DISTRICT acceptance of the system.

#### 1.11 TEMPORARY GAS

- A. CONTRACTOR shall provide temporary gas service for construction and temporary facilities, at all points required for the Work.

#### 1.12 CONSTRUCTION EQUIPMENT AND FACILITIES

- A. CONTRACTOR shall erect, equip, and maintain construction equipment in strict accordance with applicable statutes, laws, ordinances and regulations of authority having jurisdiction.
- B. CONTRACTOR shall provide, maintain and remove upon completion of the Work all temporary rigging, scaffolding, hoisting equipment, rubbish chutes, ramps, stairs, runways, platforms, ladders, railings and other temporary construction as required for all work hereunder.

#### 1.13 FIELD OFFICES

- A. CONTRACTOR shall provide a temporary field office for his own use. It shall be weather-tight with lighting, electrical outlets, electronic communications capabilities, HVAC, and otherwise equipped to adequately conduct construction operations. Provide a conference room adequate for project meetings.
- B. In addition to the CONTRACTOR's field office, CONTRACTOR shall provide and maintain a minimum of one similarly equipped 800 sf temporary field office building on the Project site for use by the DISTRICT for the duration of the Work. The office shall be accessible by the DISTRICT, ARCHITECT and/or the IOR on a 7 day a week 24-hour basis. Office shall be provided with code-required ADA accessibility:
  - 1. Office building shall include a conference room with a conference table and adequate seating for twelve.
  - 2. Office building shall have two separate private offices; together with an open office space.
  - 3. Office shall be furnished with two (2) exterior entrance doors with one located in a separate office. Each door shall be furnished with both a dead bolt and cylinder lock with 6 keys.
  - 4. Exterior doors and windows shall be provided with exterior mounted burglar bars. Windows shall be provided with operable window shades. Security of office and contents is a continuous obligation of CONTRACTOR.
  - 5. Office shall have ample headroom and shall be properly lighted, heated, ventilated, and air-conditioned, and shall have an electric drinking

fountain or potable refrigerated bottled water service.

6. The conference room shall be approximately 300 sq. ft. in size and shall be furnished with a minimum of four single phase convenience outlets. It shall be furnished with a conference table capable of seating twelve, and twelve comfortable conference chairs, and shall have a 4' x 8' whiteboard on one of the long walls.
7. Provide phone, data transmission lines, related appurtenances, services, and equipment for use by DISTRICT as specified below:
  - a. Provide, install, & maintain any related equipment necessary to provide continuous internet access from each location.
- C. CONTRACTOR shall be responsible for maintaining all electrical distribution lines, equipment and related devices. If equipment and/or transmission equipment becomes inoperable and downtime exceeds two (2) days, CONTRACTOR shall replace and/or provide equivalent interim equipment.
- D. Office, furniture, equipment, and related ancillary devices shall remain property of CONTRACTOR. CONTRACTOR shall remove such property upon Final Completion of Work or as otherwise determined by the DISTRICT.
- E. At CONTRACTOR expense and without limitation, remove and/or relocate temporary office(s) and related facilities as rapidly as required in order to provide for progress of the Work.
- F. FIELD OFFICE SUPPLIES
  1. CONTRACTOR shall provide the initial supply of field office supplies as need for IOR.

#### 1.14 STORAGE AND STAGING

- A. Operations of the CONTRACTOR, including storage of materials, shall be confined to areas approved by DISTRICT. CONTRACTOR shall be liable for damage caused by him during such use of property of the DISTRICT or other parties.
- B. Storage facilities shall provide protection of products from excessive cold, heat, moisture, humidity or physical abuse as specified in the respective sections for the products stored.
- C. CONTRACTOR shall save the DISTRICT, along with its respective officers, employees and agents, and the ARCHITECT and his employees, free and harmless from liability of any nature or kind arising from any use, trespass or damage occasioned by his operations on assigned premises of third parties.

#### 1.15 FENCES AND BARRICADES

- A. CONTRACTOR shall install temporary Project site security fence(s) and/or barricade(s), as specified herein or indicated on Drawings, or as required for safety and security. New or used material may be furnished. Security of Project site and contents is a continuous obligation of CONTRACTOR.

B. Unless otherwise indicated or specified, a site security fence shall be constructed of 8'-0" high chain link fencing with an 8'-0" high windscreen. Space posts not to exceed 10'-0" on centers. Posts shall be of following nominal pipe dimensions: terminal, corner, and gatepost 2-1/2", line posts 2". Chain link fence shall be not less than #13 gage, 2" mesh, and in one width. Posts, fence and accessories shall be galvanized and as follows:

1. Posts shall be set in the earth a depth of 30" with soil firmly compacted around post, unless required otherwise in writing by DISTRICT.
2. Fence fabric shall be attached to posts with #14 gage tie wire at 16" on centers. A #6 gage steel tension wire with turnbuckles shall be installed at top and bottom of barricade fencing. Wire tie fabric to tension wires at 18" centers.
3. Windscreen shall be attached to fence fabric and steel tension wires at 18" centers with a minimum of #14 gage tie wire. Windscreen shall be maintained and all rips, tears, missing sections shall be corrected as soon as detected.
4. Chain link fencing shall be free from barbs, icicles or other projections resulting from galvanizing process. Fence having such defects will be replaced even if it has been installed.
5. Gates shall be fabricated of steel pipe with welded corners, and bracing as required. Fence and fabric to be attached to frame at 12" centers. Provide all gate hardware of a strength and quality to perform satisfactorily until barricade is removed upon Substantial Completion of the Work. Each gate shall have a chain and padlock. Provide two (2) gate keys to DISTRICT. At Substantial Completion of the Work, remove barricade from Project site, backfill and compact fence footing holes. Existing surface paving that is cut into or removed shall be patched and sealed to match surrounding areas.
6. When directed by DISTRICT, CONTRACTOR shall at CONTRACTOR expense and without limitation, remove and/or relocate fencing, fabric and barricades or other security and protection facilities as rapidly as required in order to provide for progress of the Work. (Note: DISTRICT retains option to leave fencing, barricades and SWPPP protections in place for an unspecified period of time after completion of demolition and final grading operations, to be compensated on a monthly rate basis.)

C. Other Temporary Enclosures & Barricades

1. Provide fences and barricades to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.
2. Provide lockable, temporary weather-tight enclosures at openings in exterior walls to create acceptable working conditions, to allow for temporary heating and for security.

3. Provide protective barriers around trees, plants and other improvements designated to remain. Replace any damaged materials as directed by the ARCHITECT
4. Temporary partitions shall be installed at all openings where additions connect to existing buildings, and where necessary to protect areas, spaces, property, personnel, students and faculty and to separate and control dust, debris, noise, access, sight, fire areas, safety and security. Temporary partitions shall be as designated on the Drawings or as specified by ARCHITECT. At CONTRACTOR expense and without limitation, remove and/or relocate enclosures, barriers and temporary partitions as rapidly as required in order to provide for progress of the Work.
5. Since the Work of this Project may be immediately adjacent to existing occupied structures and vehicular and pedestrian right of ways, CONTRACTOR shall, in his sole judgment and in accordance with applicable safety standards, provide all temporary facilities, additional barricades, protection and care to protect existing structures, occupants, property, pedestrians and vehicular traffic. CONTRACTOR is responsible for any damage, which may occur to the property and occupants of the property of DISTRICT or adjacent private or public properties which in any way results from the acts or neglect of CONTRACTOR.
6. Fences and barricades must completely separate construction activities and personnel from school operations, staff, students and the public. Construction workers shall not interact or communicate with students or staff except in emergency or safety related situations.
7. Provide barricades and covered walkways required by governing authorities for public rights-of-way and for public access to existing buildings.
8. Protect vehicles, stored materials, site and structures from damage.

#### 1.16 TEMPORARY DE-WATERING FACILITIES & DRAINAGE:

- A. For temporary drainage and de-watering facilities and operations not directly associated with construction activities included under individual sections, comply with de-watering requirements of applicable Division 01 sections or of sound practice. CONTRACTOR shall maintain the Work, Project site and related areas free of water.
- B. For temporary drainage and de-watering facilities and operations directly associated with new buildings, additions or other construction activities, comply with Division 01 & 02 Sections. CONTRACTOR shall be responsible for de-watering of excavations, trenches & below grade areas of buildings, structures, the Project site and related areas.

#### 1.17 TEMPORARY PROTECTION FACILITIES:

- A. CONTRACTOR shall not change over from using temporary facilities and controls to permanent facilities until Substantial Completion, except as permitted by DISTRICT.
- B. CONTRACTOR shall provide fire protection during construction in accordance with CFC, Article 87
- C. Until permanent fire protection needs are supplied and approved by authorities having jurisdiction, CONTRACTOR shall provide, install and maintain temporary fire protection facilities of the types needed in order to adequately protect against fire loss. CONTRACTOR shall adequately supervise welding operations, combustion type temporary heating and similar sources of fire ignition.
- D. CONTRACTOR shall provide, install and maintain substantial temporary enclosures of partially completed areas of construction. Provide locking entrances to prevent unauthorized entrance, vandalism, theft and similar violations of security. Where materials, tools and equipment are stored within the Work area, CONTRACTOR shall provide secure lock up to protect against vandalism, theft and similar violations of security. DISTRICT accepts no financial responsibility for loss, damage, vandalism or theft.
- E. CONTRACTOR operations shall not block, hinder, impede or otherwise inhibit the use of required exits and/or emergency exits to the public way, except as approved by the DISTRICT. CONTRACTOR shall maintain unobstructed access to fire extinguishers, fire hydrants, temporary fire protection facilities, stairways and other access routes for firefighting equipment and/or personnel.
- F. With approval of DISTRICT and at the earliest feasible date in each area of the Work, complete installation of the permanent fire protection facilities including connected services and place into operation and use. Instruct DISTRICT personnel in use of permanent fire protection facilities.
- G. In the event of an emergency drill or an actual emergency, designated by the sounding of the fire alarm and/or other sounding device, all construction activities must cease. CONTRACTOR shall evacuate the Work area and remain outside the Work area until permitted to return. No Work shall be conducted during the evacuation of a building or during an emergency.

#### 1.18 TEMPORARY SECURITY AND SAFETY MEASURES:

- A. During performance of the Work in existing facilities CONTRACTOR shall provide, install and maintain substantial temporary barriers and/or partitions separating all Work areas from areas occupied by students, faculty and/or administrative staff.
- B. During performance of the Work in existing facilities and/or on a Project site occupied by students and where temporary barriers and/or partitions are not physically feasible, CONTRACTOR shall provide an employee meeting the requirements of Education Code Section 45125.2. (2) to continually supervise and monitor all employees of the CONTRACTOR and Subcontractor. For the purposes of this Section, CONTRACTOR employee shall be someone whom the Department of Justice has ascertained has not been convicted of a violent or serious felony as listed in Penal Code Section 667.5(c) and/or Penal Code Section 1192.7(c). To comply with this Section, CONTRACTOR shall have his

employee submit his or her fingerprints to the Department of Justice pursuant to Education Code Section 45125.1(a).

- C. Penal Code Sections 290 and 290.4, commonly known as “Megan’s Law,” require, among other things, individuals convicted of sexually oriented crimes, to register with the chief of police where the convicted individual resides or with a county sheriff or other law enforcement officials. The CONTRACTOR shall check its own employees and require each Subcontractor to check its employees and report to the CONTRACTOR if any such employees are registered sex offenders. The CONTRACTOR shall check monthly during the life of the Contract to ascertain this information and report same to DISTRICT. Before starting the Work, and monthly thereafter during the life of Contract, CONTRACTOR shall notify the DISTRICT in writing if any of its employees and/or if any Subcontractor’s employees is a registered sex offender. If so, CONTRACTOR shall proceed in accordance with the previous paragraph.

#### 1.19 TEMPORARY ACCESS ROADS AND PARKING:

- A. Due to the limited amount of on and off Project site space for the parking of staff, students and school visitors’ vehicles, there will be no parking of CONTRACTOR vehicles in areas designated for school use only. CONTRACTOR shall provide legal access to and maintain CONTRACTOR designated areas for the legal parking, loading, off-loading & delivery of all vehicles associated with the Work. CONTRACTOR shall be solely responsible for providing and maintaining these requirements whether on or off the Project site.
- B. Contractor’s onsite parking shall be in areas shown on the Logistics Site Plan or as otherwise designated by the DISTRICT.
- C. Temporary access roads are to be installed and maintained by CONTRACTOR to all areas of the Project site.
- D. CONTRACTOR will be permitted to utilize existing on-site roads as designated by DISTRICT. CONTRACTOR shall only utilize those entrances and exits as designated by DISTRICT, and CONTRACTOR shall observe all traffic regulations of DISTRICT.
- E. Provide and maintain access to fire hydrants, free of obstructions.
- F. Do not park or drive on concrete walks or in the new buildings at any time.
- G. CONTRACTOR shall maintain roads and walkways in a clean condition including removal of debris and/or other deleterious material on a daily basis.

#### 1.20 TRENCHES

- A. CONTRACTOR shall comply with all applicable statutes, codes & regulations regarding trenching and trenching operations. Open trenches for installation of utility lines (water, gas, electrical and similar utilities) and open pits outside barricaded working areas shall be barricaded at all times in a legal manner determined by CONTRACTOR.
- B. Open trenches deeper than 3'-6", and not located within a public street access, shall be enclosed within an 8'-0" high chain-link fence.



- C. Trenches shall be backfilled and patch-paved within twenty-four (24) hours after approval of installation by authorities having jurisdiction or shall have "trench plates" installed.
- D. Required access to buildings shall be provided and maintained.

#### 1.21 PROJECT SIGNAGE

- A. CONTRACTOR shall furnish and install a Project sign on the Project site at a location established by ARCHITECT. A graphical layout of the proposed sign shall be submitted to ARCHITECT and DISTRICT for review before fabrication.
- B. Sign construction shall be 10'-0" wide by 6'-0" high with 6" x 6" posts and 1" exterior grade plywood, bolted to posts.
- C. Sign lettering shall be painted white with exhibit lettering by a professional sign painter, in accordance with details reviewed by ARCHITECT. The following shall be listed on sign:
  - 1. DISTRICT – San Bernardino City Unified School District.
  - 2. Name of School.
  - 3. Names of the Architect/Engineer and Consultants.
  - 4. Name of Prime Contractor.
  - 5. Other principal Contractors.
  - 6. Name of School Board member from District in which project is located.
- D. Except as otherwise specified herein, no other signs shall be displayed without approval of DISTRICT. At CONTRACTOR expense and without limitation remove and/or relocate Project signage and related facilities as rapidly as required in order to provide for progress of the Work.
- E. CONTRACTOR shall remove any Project signage at Substantial Completion of the Work.
- F. CONTRACTOR shall provide and install signage to provide directional, identification, and contact information to construction personnel and visitors as follows and as approved by DISTRICT.
  - 1. For construction traffic control/flow at entrances/exits, and as designated by DISTRICT.
  - 2. To direct visitors.
  - 3. For construction parking.
  - 4. To direct deliveries.
  - 5. For Warning Signs as required.
  - 6. Per CAL/OSHA standards as necessary.
  - 7. For office identification and Project site address.
  - 8. For "No Smoking" safe work site at designated locations.
  - 9. Emergency contact information and phone number of CONTRACTOR.
  - 10. Emergency contact information and phone number of local police, fire,

and emergency personnel.

1.22. CLOSE OUT

- A. Remove all temporary facilities at the completion of construction, and restore the site and facilities to conditions acceptable to the DISTRICT, ARCHITECT and to local authorities.

**END OF SECTION**

## **SECTION 01 57 00**

### **TEMPORARY CONTROLS**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Water Control.
- B. Dust Control.
- C. Erosion and Sediment Control.
- D. Noise Control.
- E. Pollution Control.

##### **1.02 RELATED SECTIONS**

- A. Work Sequence and Phasing.
- B. Temporary Storm Water Pollution Control
- C. Construction Facilities

##### **1.04 GENERAL**

- A. Include planned temporary control measures in the Project Logistics Plan of Section 01 32 16, Work Sequence and Phasing. Include hours of operation permitted by the Contract Documents or by local authorities.
- B. Update this Plan and provide status reports to the DISTRICT on temporary controls on a monthly basis

##### **1.04 WATER CONTROL**

- A. Do not permit surface or subsurface water or other liquids to accumulate on the site or in the immediate vicinity.
- B. Should such conditions be encountered or develop, control the accumulation of water or other liquid and suitably dispose of it by means of temporary pumps, piping, drainage lines, troughs, ditches, dams or other methods as approved by the ARCHITECT and/or the authority having jurisdiction.

##### **1.05 DUST CONTROL**

- A. Conduct earthwork operations in a manner to prevent windblown dust and dirt from interfering with the progress of the Work, the District's activities, the existing occupied structures in the areas of the site immediately adjacent, and offsite adjacent properties.
- B. Water construction areas as necessary to minimize windblown dust and on-site accumulation of dust and dirt.
- C. Water spray or cover with tarpaulins truckloads of soil to minimize generation of dust and dirt from construction transportation operations.

- D. Prevent dust and dirt from accumulating on walks, roadways, parking areas and from washing into sewer and storm drain lines.

#### 1.06 EROSION AND SEDIMENT CONTROL

- A. Plan and execute construction by methods that will control surface drainage from cuts and fills and from borrow and waste disposal areas, and to prevent erosion and sedimentation.
- B. Minimize amount of bare soil exposed at one time.
- C. Provide temporary measures such as berms, dikes and drains to prevent water flow over adjacent properties or City rights-of-way.
- D. Construct fill and waste areas by selective placement to avoid erosive surface silts or clays. Avoid any eroded materials flowing off the property.
- E. Periodically inspect earthwork to detect evidence of erosion and sedimentation; and promptly apply corrective measures.

#### 1.07 NOISE CONTROL

- A. Avoid excessive noise that would affect detrimentally adjacent activities and adjoining property.
- B. Confine operations to permissible hours of day, to eliminate neighborhood noise pollution.

#### 1.08 POLLUTION CONTROL

- A. Provide methods, means and facilities to prevent contamination of soil, water and atmosphere from discharge of noxious, toxic substances and pollutants produced by construction operations.
- B. Do not burn refuse, debris or other materials on the site.
- C. Comply with all State and local ordinances and regulatory requirements controlling environmental pollution during the course of construction and disposal operations.

#### 1.09 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris and rubbish. Maintain site in a clean and orderly condition.
- B. CONTRACTOR shall assure the removal of debris and rubbish from pipe chases, plenums, attics, crawl spaces and other closed or remote spaces prior to the space being enclosed.
- C. CONTRACTOR shall assure the brooming and vacuum cleaning of interior areas prior to start of surface finishing, as well as continuing cleaning to eliminate dust.

- D. Until Substantial Completion of the Work, CONTRACTOR shall remove, as required, all graffiti from buildings, equipment, fences and other improvements on the Project site.
- E. CONTRACTOR shall remove waste materials, debris and rubbish from site periodically and dispose off-site.

#### 1.10 CLOSE OUT

- A. Remove all temporary control measures at the completion of construction, and restore the site and facilities to conditions acceptable to the ARCHITECT and local authorities.

### **END OF SECTION**

## **SECTION 01 57 13**

### **TEMPORARY EROSION AND SEDIMENT CONTROL**

#### **PART 1 - GENERAL**

##### **1.01 SUMMARY**

- A. The District will be filing with the State of California, State Water Resources Control Board a Notice of Intent (N.O.I.) to comply with the terms of the General Permit to Discharge Storm Water Associated with Construction Activity, prior to the beginning of construction on this site.
- B. A copy of the SWPPP will be made available to Contractors during the bidding period. The Contractor will need to implement and monitor the storm water pollution prevention plan prepared for this site. The Contractor will be required to review the storm water pollution prevention plan and to identify possible pollution sources and mitigation measures with all subcontractors at their starting of work on site.
- C. The Contractor will be obligated to comply with the requirements of the State's General Permit. Any fines or penalties due to failure to comply with the general permit shall be borne by the Contractor.
- D. Prior to construction and after commencement of construction activities, revisions to the SWPPP shall be submitted, by the Contractor, to the Architect for amendment to the general permit by the Civil Engineer.
- E. Storm water pollution prevention plan testing and reporting will be performed by the Contractor until such responsibility is reassigned by the District.

##### **1.02 REFERENCE STANDARDS**

- A. EPA (NPDES) - National Pollutant Discharge Elimination System (NPDES), Construction General Permit; Current Edition.

##### **1.03 QUALITY ASSURANCE**

- A. Codes and Standards
  - 1. California Codes and Regulations; Title 24, California Building Code, Parts 1 & 2.
  - 2. State of California State Water Resources Control Board Regulations.
  - 3. US EPA's National Pollutant Discharge Elimination System EPA (NPDES).

##### **1.04 SUBMITTAL**

- A. Comply with pertinent provisions of the general permit.



## PART 2 - PRODUCTS - (NOT USED)

## PART 3 - EXECUTION

### 3.01 SURFACE CONDITIONS

- A. Examine the areas and conditions under which work of this section will be performed. Correct conditions detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions are corrected.

### 3.02 INSTALLATION

- A. Installation of the work shall be as indicated on the drawings as specified herein and regulatory requirements.
- B. Maintain the protection up to the project completion.

### 3.03 CLEANING

- A. During and upon completion of the work comply with the general provisions of the general permit.

**END OF SECTION**

## SECTION 01 60 00

### MATERIALS AND EQUIPMENT

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

This Section includes administrative and procedural requirements governing products for incorporation into the Work.

##### 1.02 RELATED SECTIONS

- A. Section 01300: Submittals
- B. Section 01420: Testing and Inspection
- C. Section 01640: Substitutions
- D. Section 01740: Warranties

##### 1.03 DEFINITIONS

Definitions used in this Section are not intended to change the meaning of other terms used in the Contract Documents, such as "specialties," "systems," "structure," "finishes," "accessories," and other similar terms. Such terms are self-explanatory and have well-recognized meanings in the construction industry.

- A. "Products" are items purchased for incorporation into the Work, whether purchased for the Work or taken from previously purchased stock. The term "product" includes the terms "material" and "equipment" and terms of similar intent.
  - 1. "Named Products," are items identified by the manufacturer's product name, including make, model number or other designation, shown or listed in the manufacturer's published product literature, current as of the date of the Contract.
  - 2. "Foreign Products," as distinguished from "domestic products," are items substantially manufactured (50 percent or more of value) outside the United States and its possessions.
- B. "Materials" are products substantially shaped, cut, worked, mixed, finished, refined or otherwise fabricated, processed, or installed to form a part of the Work.
- C. "Equipment" is a product with operational parts, whether motorized or manually operated, that may require service connections, such as wiring or piping. Does not include machinery and equipment used for preparation, fabrication, conveying and erection of the Work.

##### 1.04 QUALITY ASSURANCE

- A. Source Limitations: To the fullest extent possible, provide products of the same kind from a single source.
- B. Compatibility of Options: When the CONTRACTOR is given the option of selecting between two or more products for use in the Work, the product selected shall be compatible with products previously selected, even if previously selected products were also options.
- C. Nameplates: Except for required labels and operating data, do not attach or imprint manufacturer's or producer's nameplates or trademarks on exposed

surfaces of products that will be exposed in view in occupied spaces or on the exterior.

1. Labels: Locate required product labels and stamps on concealed surfaces or, where required for observation after installation, on accessible surfaces that are not conspicuous.
2. Equipment Nameplates: Provide a permanent nameplate on each item of service-connected or power-operated equipment. Locate on an easily accessible surface that is inconspicuous in occupied spaces. The nameplate shall contain the following information and other essential operating data:
  - a. Name of product and manufacturer
  - b. Model and serial number
  - c. Capacity
  - d. Speed
  - e. Ratings

#### 1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products according to the manufacturer's recommendations, using means and methods that will prevent damage, deterioration, and loss, including theft.
  1. Schedule delivery to minimize long-term storage at the Project site and to prevent overcrowding of Work spaces.
  2. Coordinate delivery with installation time to assure minimum holding time for all items, but especially those that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
  3. Deliver products to the Project site in an undamaged condition in the manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
  4. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement or damage.
  5. Inspect products upon delivery to ensure compliance with the Contract Documents and to ensure that products are undamaged and properly protected.
  6. Store products at the Project site in a manner that will facilitate inspection and measurement of quantity or counting of units.
  7. Store heavy materials away from structures in a manner that will not endanger the structure's supporting construction.
  8. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter. Cover products subject to deterioration with impervious sheet covering.
  9. When approved by the District, provide off-site storage and protection in a bonded warehouse approved by District when site does not permit on-site storage or protection at no cost to the District.

10. Store products subject to damage by the elements above ground, under cover in a weather-tight enclosure, with ventilation adequate to prevent condensation. Maintain temperature and humidity within range required by manufacturer's instructions.

#### 1.06 MATERIAL SELECTION

- A. General Product Requirements: Provide products that comply with the Contract Documents, that are undamaged and, unless otherwise indicated, new at the time of installation.
  1. Provide products complete with accessories, trim, finish, safety guards, and other devices and details needed for a complete installation and the intended use and effect.
  2. Standard Products: Where available, provide standard products of types that have been produced and used successfully in similar situations on other Projects.
- B. Product Selection Procedures: The Contract Documents and governing regulations govern product selection. Procedures governing product selection include the following:
  1. Proprietary Specification Requirements: Where Specifications name only a single material or manufacturer, provide the product indicated. No substitutions will be permitted.
  2. Semi-proprietary Specification Requirements: Where Specifications name two or more products or manufacturers, provide one of the products indicated throughout the Project. No substitutions will be permitted.
    - a. Where Specifications specify products or manufacturers by name, accompanied by the term "or equal," comply with General Conditions article on Substitutions to obtain approval for use of an unnamed product.
  3. Descriptive Specification Requirements: Where Specifications describe a product or assembly and list exact characteristics required, with or without use of a brand or trade name, provide a product or assembly that has the characteristics and otherwise complies with the Contract Documents.
  4. Performance Specification Requirements: Where Specifications require compliance with performance requirements, provide products that comply with these requirements and are recommended by the manufacturer for the application indicated.
    - a. Manufacturer's recommendations may be contained in published material literature or by the manufacturer's certification of performance.
  5. Compliance with Standards, Codes, and Regulations: Where Specifications only require compliance with an imposed code, standard or regulation, select a product that complies with the standards, codes, or regulations specified.
  6. Visual Matching: Where Specifications require matching an established Sample, decision of the ARCHITECT will be final on whether a proposed product matches satisfactorily.

7. Visual Selection: Where specified product requirements include the phrase "... as selected from manufacturer's standard or premium colors, patterns, textures..." or a similar phrase, select a product and manufacturer that complies with other specified requirements. The ARCHITECT will select the color, pattern, and texture from the product line selected.

#### 1.07 INSTALLATION OF PRODUCTS

- A. Comply with manufacturer's instructions and recommendations for installation of products in the applications indicated. Anchor each product securely in place, accurately located, and aligned with other Work.
- B. Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration until Substantial Completion.

### END OF SECTION

**SECTION 01 60 00.01**  
**REQUEST FOR SUBSTITUTION**

**SUBSTITUTION REQUEST NO.** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**PROJECT NAME:** \_\_\_\_\_

**PROJECT NUMBER:** \_\_\_\_\_

**TO:** \_\_\_\_\_

\_\_\_\_\_

**FROM:** \_\_\_\_\_

We hereby submit for your consideration the following product comparisons of the specified product and the proposed substitution. The undersigned fully understands that failure to answer any item below may be cause for rejection of request for substitution.

Request for substitution shall only be made during bidding (not later than 7 days prior to bid opening for inclusion by Addendum) except under conditions beyond control of Contractor.

Specified Product: \_\_\_\_\_

Project Manual Section Title \_\_\_\_\_ Number \_\_\_\_\_ Page \_\_\_\_\_ Paragraph \_\_\_\_\_

Drawing No. \_\_\_\_\_ Detail No. \_\_\_\_\_

Proposed Substitution: \_\_\_\_\_

\_\_\_\_\_

Manufacturer: \_\_\_\_\_ Tel: \_\_\_\_\_

A. Reason request for substitution is being submitted:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

B. Does proposed substitution affect in any way the Structural Safety, Access Compliance, or Fire & Life Safety portions of the project? No \_\_\_\_\_ Yes \_\_\_\_\_



Explain \_\_\_\_\_  
\_\_\_\_\_

B. Does proposed substitution affect dimensions, gages, weights, etc. on Drawing?

No \_\_\_\_\_ Yes \_\_\_\_\_

Explain \_\_\_\_\_  
\_\_\_\_\_

D. Does proposed substitution require changes in Drawings or design and installation changes? No \_\_\_\_\_ Yes \_\_\_\_\_

(If yes, cost of these changes is the responsibility of the Contractor.)

E. Does proposed substitution affect product cost, delivery time, or construction schedule?

No \_\_\_ Yes \_\_\_ Explain

F. Does proposed substitution comply with specified ICC Number, UL Rating, ASTM Numbers? No \_\_\_ Yes \_\_\_ Explain

G. Does proposed substitution affect other trades and systems such as wiring, piping, ductwork, structure, etc.? No \_\_\_ Yes \_\_\_ (Explain which and how)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If yes, has impact on their work been included in price of proposed substitution?

No \_\_\_ Yes \_\_\_.

H. Does proposed substitution product guarantee differ from that of the specified product?

No \_\_\_ Yes \_\_\_ Explain

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If the substitution request is accepted, it will result in: No cost impact \_\_\_ credit of \$

\_\_\_\_\_.

Attach a listing of 3 projects (one in service for at least 3 years) using the proposed substitution.

Substantiating Data: Attach product data/brochures and Vendor qualifications for both specified and substitute product. Provide samples for both specified and substitute products, if applicable.

Certification: Undersigned has examined Construction Documents, is familiar with specified product, understands indicated application of product, and understands design intent of the Architect caused by the requested substitution.

Submitted by:

_____	_____	_____
(Type Name)	Signature	Date

Signature must be made by person having legal authority to bind his firm to the above terms.

Architect's Comments:

\_\_\_\_\_ Accepted, \_\_\_\_\_ accepted as noted, \_\_\_\_\_ not accepted, \_\_\_\_\_ received too late.

Reviewed by:

_____	_____
Architect	Date
_____	_____
Construction Manager	Date
_____	_____
District	Date

**END OF SECTION**

**SECTION 01 61 00**  
**PRODUCT REQUIREMENTS**

**1. PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Products.
- B. Transportation and handling.
- C. Storage and protection.
- D. Damage and restoration.

**1.2 PRODUCTS**

- A. Products: Means new material, machinery, components, equipment, fixtures, and systems forming the Work. Does not include machinery and equipment used for preparation, fabrication, conveying and erection of the Work.
- B. Products may also include existing materials or components required for reuse that were obtained from this project.
- C. Products specified or recycled from other projects are not considered new products.
- D. Provide interchangeable components of the same manufacturer, for similar components.
- E. Provide products that comply with the Contract Documents, that are undamaged and are unused at the time of installation.
- F. Provide products complete with all accessories, trim, finish, safety guards and other devices and detail needed for a complete installation and for the intended use and effect.
- G. Where a specific manufacturer's product is specified as the basis of design, the designation shall establish the qualities relating to type, function, dimension, in-service performance, physical properties, appearance and other characteristics for comparable products of other named manufacturers.
- H. Where products are specified by name or by manufacturer provide the product or manufacturer specified. No substitutions will be permitted unless made under the provisions of Section 01 25 13.
- I. Where specifications only describe a product or assembly by listing exact characteristics required, provide a product or assembly that provides the characteristics.

- J. Where specifications only require compliance with performance requirements, provide products that comply with those requirements.
- K. Where the specifications only require compliance with an imposed code, standard or regulation, provide a product that complies with the standards, codes or regulations specified.
- L. Where specifications require review and acceptance of a sample, the Architect's decision will be final on whether a proposed product sample is acceptable or not.
- M. Provide materials and products specified in the full range of color, texture and pattern for selection by Architect. Range shall include standard stocked color/texture/pattern, as advertised in product data and brochures. Unless otherwise indicated in individual specification sections, Architect may select from any color range at no additional cost to Owner.
- N. Do not use materials and equipment removed from existing premises, except as specifically permitted by the Contract Documents.
- O. Where product is designated to match an existing product, provide product that matches in size, profile, finish, dimension and other characteristics the existing product identified.

### 1.3 TRANSPORTATION AND HANDLING

- A. Transport and handle products in accordance with manufacturer's instructions.
- B. Schedule delivery to minimize long-term storage at site to prevent overcrowding of construction spaces.
- C. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft and other losses.
- D. Deliver products in manufacturer's original sealed container or packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
- E. Promptly inspect shipments to assure that products comply with requirements, quantities are correct, and products are undamaged.
- F. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.

#### 1.4 STORAGE

- A. Store products in accordance with manufacturer's instructions, with seals and labels intact and legible.
- B. Store sensitive products in weather-tight, climate controlled enclosures.
- C. Store products in a manner that will not damage or overload project structure.
- D. For exterior storage of fabricated products, place on sloped supports, above ground.
- E. Provide off-site storage when site does not permit on-site storage.
- F. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to avoid condensation.
- G. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
- H. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- I. Arrange storage of products to permit access for inspection. Periodically inspect to assure products are undamaged and are maintained under specified conditions.
- J. Prevent the discharge of pollutants to storm water from storage of materials on-site using best management practice techniques defined in Chapter 4 of the Construction Activity Handbook published by the Storm Water Quality Task Force.

#### 1.5 PROTECTION

- A. Protect installed Work and provide special protection where specified in individual specification Sections.
- B. Provide temporary and removable protection for installed Products. Control activity in immediate work area to minimize damage.
- C. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- D. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects.

- E. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- F. Provide humidity and temperature control for installed products as recommended by materials manufacturer.
- G. Prohibit traffic from landscaped areas.

#### 1.6 DAMAGE AND RESTORATIONS

- A. Damage to existing or new work whether accidental or not shall be restored or replaced as specified or directed by Architect.
- B. Restoration shall be equal to structural performance of original work.
- C. Finish shall match appearance of existing adjacent work.
- D. Work not properly restored or where not capable of being restored shall be removed and replaced.

### 2. PART 2 PRODUCTS

Not Used

### 3. PART 3 EXECUTION

Not Used

END OF SECTION



## **SECTION 01 71 23**

### **FIELD ENGINEERING**

#### **PART 1 - GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Construction surveying requirements for the Work

##### **1.02 RELATED SECTIONS**

- A. Summary of the Work
- B. Project Coordination and Meetings
- C. Submittals
- D. Contract Closeout

##### **1.03 SUBMITTALS**

- A. CONTRACTOR shall submit the name and address of the State of California licensed surveyor to ARCHITECT and DISTRICT, including any changes as they may occur.
- B. At request of ARCHITECT and/or DISTRICT, CONTRACTOR shall submit copies of cut sheets, coordinate plots, data collector printouts, and other documentation as available to verify completeness and/or accuracy of field surveying Work

#### **PART 2 - PRODUCTS (Not applicable)**

#### **PART 3 - EXECUTION**

##### **3.01 SURVEY REQUIREMENTS**

- A. Establish a minimum of two permanent horizontal and vertical control points on the Project site, remote from the building area, referenced to data established by the survey control points.
- B. Indicate the reference points on the project record drawings with the basis of elevation being the established benchmarks.
- C. Establish lines, grades, locations and dimensions by instrumentation. Periodically, verify the layout of all Work by the same methods.
- D. Provide grade stakes and elevations for over-excavation and re-compaction, rough and final grades, paved areas, curbs, gutters, sidewalks, building pads, landscaped areas, and other areas as required.
- E. Calculate and layout proposed finished elevations and intermediate control as required to provide smooth transitions between the spot elevations indicated in the Contract Documents.

- F. Provide stakes and elevations for grading, fill, and topsoil placement.
- G. Provide adequate horizontal and vertical control to locate utility lines, including but not limited to, storm drains, sewers, water mains, gas, electric and signal, and provide vertical control in proportion to the slope of the line as required for accurate construction.
  - 1. Prior to trench closure, survey and record locations and invert and flow line elevations at manholes, POCs, and 50-foot intervals.
  - 2. Survey and record top of curb and flow line elevations on finished concrete or AC surfaces at key locations such as BC's, EC's, grade breaks, corners or angle points in sufficient number to demonstrate the Work complies with the intent of the Contract Documents.
- H. Provide horizontal and vertical control for batter boards for drainage, utility, and other on-site structures as required.
- I. Furnish building corner offsets as required to adequately locate building pads. Provide cut and fill stakes within the building pad perimeter adequate to control both over excavation and re-compaction and the final sub-grade elevation of the building pad.
- J. Submit a certification signed by the surveyor confirming that the elevations and locations of improvements are in conformance with the Contract Documents. The statement shall include survey notes for the finish floor and building pad, showing the actual measured elevations on the completed sub-grade, recorded to the nearest 0.01'. Building pad tolerance will be  $\pm 0.10'$ .

### 3.02 RECORD DRAWINGS

- A. The surveyor shall record all horizontal and vertical control information on "as-built" Record Drawings, as coordinates and elevations. Record drawings shall indicate locations of all utilities information, as described above.
- B. Upon Substantial Completion, CONTRACTOR shall deliver to the ARCHITECT Electronic CAD file as the final Record Drawings. CAD version to be determined by DISTRICT.
- C. Completed record drawing Electronic files shall be signed by the licensed surveyor, certifying that the information shown is correct and is in conformance with the Contract Documents within specified tolerances.
- D. Where other sections of the Contract Documents require verification or measurements of installed Work by survey, the surveyor shall perform and certify that all such surveys or verifications are completed in accordance with the Contract Documents.

### END OF SECTION

## **SECTION 01 73 00**

### **EXECUTION REQUIREMENTS**

#### **1. PART 1 GENERAL**

##### **1.1 SECTION INCLUDES**

- A. General procedural requirements governing execution of the Work.
  - 1. Construction layout.
  - 2. Field engineering and surveying.
  - 3. General installation of products.

##### **1.2 SUBMITTALS**

- A. Certificates: Submit certificate signed by land surveyor certifying that location and elevation of improvements comply with requirements.
- B. Certified Surveys: Submit two copies signed by land surveyor.
- C. Final Property Survey: Submit 2 copies showing the Work performed and record survey data.

#### **2. PART 2 PRODUCTS**

Not Used

#### **3. PART 3 EXECUTION**

##### **3.1 EXAMINATION**

- A. Existing Conditions: Existence and location of site improvements and other construction indicated as existing are not guaranteed. Before beginning work, investigate and verify existence and location of construction affecting the Work.
- B. Existing Utilities: Existence and location of underground and other utilities indicated as existing are not guaranteed. Before beginning work, investigate and verify existence and location of underground utilities affecting the Work.
  - 1. Before construction, verify location and invert elevation at points of connection of sanitary sewer, storm sewer, and water-service piping; and electrical services.
  - 2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.
- C. Acceptance of Conditions: Examine substrates, areas, and conditions, with Installer or Applicator present for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

1. Written Report: Where conditions detrimental to performance of the Work are encountered, provide a written report listing the following:
  - (a) Description of the Work.
  - (b) List of detrimental conditions, including substrates.
  - (c) List of unacceptable installation tolerances.
  - (d) Recommended corrections.
2. Verify compatibility with and suitability of substrates, including compatibility of existing finishes or primers.
3. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
4. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
5. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

### 3.2 PREPARATION

- A. Existing Utility Information: Furnish information to Owner that is necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction. Coordinate with authorities having jurisdiction.
- B. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- C. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- D. Review of Contract Documents and Field Conditions: Immediately on discovery of need for clarification of Contract Documents, submit a Request For Information (RFI) to Architect. Include a detailed description of problem encountered, together with recommendations for resolution of the item discovered.

### 3.3 CONSTRUCTION LAYOUT

- A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Architect promptly.
- B. General: Engage a land surveyor, registered in the state of California to lay out the

Work using accepted surveying practices.

1. Establish benchmarks and control points to set lines and levels at each story of construction and elsewhere as needed to locate each element of Project.
  2. Establish dimensions within tolerances indicated. Do not scale Drawings to obtain required dimensions.
  3. Inform installers of lines and levels to which they must comply.
  4. Check the location, level and plumb, of every major element as the Work progresses.
  5. Notify Architect when deviations from required lines and levels exceed allowable tolerances.
  6. Close site surveys with an error of closure equal to or less than the standard established by authorities having jurisdiction.
- C. Site Improvements: Locate and lay out site improvements, including pavements, grading, fill and topsoil placement, utility slopes, and invert elevations.
- D. Building Lines and Levels: Locate and lay out control lines and levels for structures, building foundations, column grids, and floor levels, including those required for mechanical and electrical work. Transfer survey markings and elevations for use with control lines and levels. Level foundations and piers from two or more locations.
- E. Record Log: Maintain a log of layout control work. Record deviations from required lines and levels. Include beginning and ending dates and times of surveys, weather conditions, name and duty of each survey party member, and types of instruments and tapes used. Make the log available for reference by Architect.

### 3.4 FIELD ENGINEERING

- A. Identification: Control datum for survey is that established by Owner provided survey.
- B. Reference Points: Locate existing permanent benchmarks, control points, and similar reference points before beginning the Work. Preserve and protect permanent benchmarks and control points during construction operations.
1. Do not change or relocate existing benchmarks or control points without prior written approval of Architect. Report lost or destroyed permanent benchmarks or control points promptly. Report the need to relocate permanent benchmarks or control points to Architect before proceeding.
  2. Replace lost or destroyed permanent benchmarks and control points promptly. Base replacements on the original survey control points.
- C. Benchmarks: Establish and maintain a minimum of two permanent benchmarks on Project site, referenced to data established by survey control points.

1. Record benchmark locations, with horizontal and vertical data, on Project Record Documents.
  2. Where the actual location or elevation of layout points cannot be marked, provide temporary reference points sufficient to locate the Work.
  3. Remove temporary reference points when no longer needed. Restore marked construction to its original condition.
- D. Certified Survey: On completion of foundation walls, major site improvements, and other work requiring field- engineering services, prepare a certified survey showing dimensions, locations, angles, and elevations of construction and sitework.
- E. Final Property Survey: Prepare a final property survey showing significant features (real property) for Project. Include on the survey a certification, signed by land surveyor that principal metes, bounds, lines, and levels of Project are accurately positioned as shown on the survey.
1. Show boundary lines, monuments, streets, site improvements and utilities, existing improvements and significant vegetation, adjoining properties, acreage, grade contours, and the distance and bearing from a site corner to a legal point.

### 3.5 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
1. Make vertical work plumb and make horizontal work level.
  2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
  3. Conceal pipes, ducts, and wiring in finished areas, unless otherwise indicated.
  4. Maintain maximum headroom clearance in spaces without a suspended ceiling.
- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.



- F. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
- G. Anchors and Fasteners: Provide anchors and fasteners as required to anchor each component securely in place, accurately located and aligned with other portions of the Work.
  - 1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
  - 2. Allow for building movement, including thermal expansion and contraction.
  - 3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- H. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.
- I. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

## **END OF SECTION**

## SECTION 01 73 29

### CUTTING AND PATCHING

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

Requirements and limitations for cutting and patching of work.

##### 1.02 SCOPE

- A. Where the work requires that a particular existing building element, such as a partition, wall, paving, window or similar element of existing building construction, be removed, it is the intention of this specification that such work be a part of the demolition section and not a part of cutting and patching. Refer to individual category scope of work sheets to determine the limits of demolition work for each CONTRACTOR.
- B. New work required to replace such removals is considered as a part of the separate sections of the specifications covering similar new construction.
- C. Where incidental cutting and patching is required for the installation of a specific item or piece of equipment (including piping, ductwork, conduit, etc.), all such cutting and patching is considered to be specified as a part of the section requiring the cutting and patching, but shall also comply with the requirements of this Section.
- D. CONTRACTOR shall verify and check all areas to be cut and patched and shall coordinate the work of the various trades involved.
- G. Unless specifically designated otherwise, existing work cut, altered or revised to accommodate new work shall be patched to duplicate undisturbed adjacent finishes, colors, textures and profiles. New work in existing portions shall also be finished to match adjacent existing work unless noted otherwise.

##### 1.03 SUBMITTALS

- A. Submit written request in advance of cutting or alteration which affects:
  - 1. Structural integrity of any element of Project.
  - 2. Integrity of weather-exposed or moisture-resistant element.
  - 3. Efficiency, maintenance or safety of any operational element.
  - 4. Visual qualities of sight exposed elements.
  - 5. Work of DISTRICT or separate CONTRACTOR.
- B. Include in request:
  - 1. Identification of Project.
  - 2. Location and description of affected work.
  - 3. Necessity for cutting or alteration.

4. Alternatives to cutting and patching.
5. Description of proposed work and products to be used.
6. Effect on work of District or separate CONTRACTOR.
7. Written permission of affected separate CONTRACTOR.
8. Date and time work will be executed.

C. Obtain approval of ARCHITECT before proceeding with any cutting and patching:

## PART 2 PRODUCTS

### 2.01 MATERIALS

- A. Primary Products: Those required for original installation, unless specifically approved otherwise

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Inspect existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. Confirm status and current warranties and guarantees.
- B. After uncovering existing work, inspect conditions affecting performance of work.
1. Prior to cutting, boring or drilling through new or existing structural members or elements including reinforcing bars, CONTRACTOR shall prepare detailed drawings for review by the ARCHITECT and approval by the Division of the State Architect (DSA). Agency approvals shall be obtained by the ARCHITECT, not CONTRACTOR.
- C. Beginning of cutting or patching means acceptance of existing conditions.

### 3.02 PREPARATION

- A. Provide temporary support to ensure structural integrity of the work. Provide devices and methods to protect other portions of Project from damage.
- B. Provide protection from elements for areas which may be exposed by uncovering work.
- C. Maintain excavations free of water.
- D. Where the Work requires sandblasting of existing surfaces in order to receive new materials secured by cementitious, adhesive or chemical bond, completely remove existing finishes, stains, oil, grease, bitumen, mastic and adhesives or other substances deleterious to the new bonding and/or fastening of new Work. Utilize wet sand blasting for interior surfaces and for exterior surfaces where necessary to prevent objectionable production of dust.

### 3.03 PERFORMANCE

- A. Employ skilled workmen to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time and complete without delay. Carefully remove existing Work to be salvaged and/or reinstalled. Protect and store for reuse in the Work. Verify compatibility and suitability of existing substrates before starting the Work.
- B. The word “cutting” as used in the Contract Documents includes, but is not limited to, cutting, drilling, chopping, and other similar operations and the word “patching” includes, but is not limited to, patching, rebuilding, reinforcing, repairing, refurbishing, restoring, replacing, or other similar operations.
- C. **Cutting:** Cut existing construction using methods least likely to damage elements retained or adjoining Work. Where possible, review proposed procedures with the original installer; comply with the original installer’s recommendations.
  - 1. In general, where cutting, use hand or small power tools designed for sawing or grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
  - 2. To avoid marring existing finished surfaces, cut or drill from the exposed or finished side into concealed surfaces.
  - 3. Cut through concrete and masonry using a cutting machine, such as a carborundum saw or a diamond-core drill. Saw cut reinforcing bars and paint ends with bituminous paint except where bonded into new concrete or masonry.
  - 4. Comply with requirements of applicable Division 2 Sections where cutting and patching requires excavating, backfill, and/or recompaction.
  - 5. Woodwork: Cut and or remove to a panel or joint line.
  - 6. Sheet Metal: Remove back to joint, lap, or connection. Secure loose or unfastened ends or edges and seal watertight.
  - 7. Glass: Remove cracked, broken, or damaged glass and clean rebates and stops of setting materials.
  - 8. Plaster: Cut back to sound plaster on straight lines, and back bevel edges of remaining plaster. Trim existing lath and prepare for new lath.
  - 9. Gypsum Wallboard: Cut back on straight lines to undamaged surfaces with at least two opposite cut edges centered on supports.
  - 10. Acoustical ceilings: Remove hanger wires and related appurtenances where ceilings are not scheduled to be installed.
  - 11. Tile: Cut back to sound tile and backing on joint lines.

12. Flooring: Completely remove flooring and clean backing of prior adhesive. Carefully remove wood flooring for patching and repairing of existing wood flooring scheduled to remain.
- C. **Patching:** Patch with durable seams that are as invisible as possible. Comply with required tolerances.
1. Where feasible, inspect and test patched areas to demonstrate integrity of the installation. Verify conditions of existing substrates prior to executing Work.
  2. Restore exposed finishes of patched areas and extend finish restoration into retaining adjoining construction in a manner that will eliminate all evidence of patching and refinishing.
  3. Concrete: Maintain cut edges in a moist condition for twenty-four (24) hours prior to the placement of new concrete. In lieu of this an epoxy adhesive may be provided. Finish placed concrete to match existing unless noted otherwise. Concrete shall have a compressive strength of 3,000 psi where installed to repair and/or match existing improvements, unless noted otherwise.
  4. Metal Fabrications: Items to remain exposed shall have their edges cut and ground smooth and rounded.
  5. Sheet Metal: Replace removed or damaged sheet metal items as required for new Work.
  6. Glass: Install matching glass and re-seal exterior window assemblies.
  7. Lath and Plaster: Install new lath materials to match existing and fasten to supports at 6" centers. Provide a 6" lap where new lath to adjoins existing lath. Fasten new lath as required for new Work. Restore paper backings as required. Apply a bonding agent on cut edges of existing plaster. Apply three coat plaster of the type, thickness, finish, texture, and color to match existing.
  8. Gypsum Wallboard: Fasten cut edges of wallboard. Install patches with at least two opposite edges centered on supports and secure at 6" centers. Tape and finish joints and fastener heads. Patching shall be non-apparent when painted or finished.
  9. Acoustical Ceilings: Comply with the requirements for new Work specified in related sections of the Contract Documents.
  10. Resilient Flooring: Completely remove flooring and prepare substrate for new material.
  11. Paint: Prepare areas to be painted as specified for painting specific surfaces in the painting and coatings Sections of the Specifications.
- D. Fit work air tight to pipes, sleeves, ducts, conduit and other penetrations through surfaces.

- E. At penetrations of fire-rated walls, partitions, ceiling or floor construction, completely seal voids with fire-rated devices or material in accordance with Section 07270, to full thickness of the penetrated element.
- F. Refinish surfaces to match adjacent finish. For continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.

### 3.05 SLEEVES AND HANGERS

- A. Provide conduit, outlets, piping sleeves, boxes, inserts or other materials or equipment necessary to be built into work.
- B. In the event delays occur in delivery of sleeves or other materials, arrange to have boxes or other forms set at locations where piping or other material is to pass through or into slabs or other work.
- C. Upon subsequent installation of sleeves or other material, install fill materials to completely seal voids with fire-rated devices or moisture-resistant material, to full thickness of the penetrated element. Necessary expenditures incurred for boxing out or filling shall be without extra cost to the DISTRICT.

### **END OF SECTION**



## SECTION 01 74 19

### CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

#### PART 1 GENERAL

##### 1.01 WASTE MANAGEMENT REQUIREMENTS

- A. Comply with the requirements Section 5.408 of the California Green Building Standards Code.
  - 1. Recycle and/or salvage for reuse a minimum of 50 percent of the nonhazardous construction and demolition waste in accordance with Section 504.8.1.1, 5.408.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.
- B. District requires that this project generate the least amount of trash and waste possible.
- C. Employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors.
- D. Minimize trash/waste disposal in landfills; reuse, salvage, or recycle as much waste as economically feasible.
- E. Required Recycling, Salvage, and Reuse: The following may not be disposed of in landfills or by incineration:
  - 1. Aluminum and plastic beverage containers.
  - 2. Corrugated cardboard.
  - 3. Wood pallets.
  - 4. Clean dimensional wood: May be used as blocking or furring.
  - 5. Land clearing debris, including brush, branches, logs, and stumps; see Section 31 10 00 - Site Clearing for use options.
    - a. Comply with California Green Code (CGC) 5.408.3; Excavated soil and land clearing debris: 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled.
      - 1) Exception: Reuse, either on-or off-site, of vegetation or soil contaminated by disease or pest infestation.
  - 6. Concrete: May be crushed and used as riprap, aggregate, sub-base material, or fill.
  - 7. Bricks: May be used on project if whole, or crushed and used as landscape cover, sub-base material, or fill.
  - 8. Concrete masonry units: May be used on project if whole, or crushed and used as sub-base material or fill.
  - 9. Asphalt paving.
  - 10. Metals, including packaging banding, metal studs, sheet metal, structural steel, piping, reinforcing bars, door frames, and other items made of steel, iron, galvanized steel, stainless steel, aluminum, copper, zinc, lead, brass, and bronze.
  - 11. Glass.
  - 12. Gypsum drywall and plaster.

13. Carpet, carpet cushion, carpet tile, and carpet remnants : DuPont (<http://flooring.dupont.com>) and Interface ([www.interfaceinc.com](http://www.interfaceinc.com)) conduct reclamation programs.
  14. Roofing.
  15. Paint.
  16. Plastic sheeting.
  17. Rigid foam insulation.
  18. Windows, doors, and door hardware.
  19. Plumbing fixtures.
  20. Mechanical and electrical equipment.
  21. Fluorescent lamps (light bulbs).
  22. Acoustical ceiling tile and panels.
  23. Materials which could be hazardous and subject to special disposal regulations include but are not limited to the following:
    - a. Lead-Based Paint
    - b. Asbestos: Found in older pipe insulation, asphalt floor tiles, linoleum, insulation, etc.
    - c. Polychlorinated Biphenyls (PCBs):
      - 1) Found in electrical oil filled equipment manufactured prior to 1978 such as transformers, switches and fluorescent lamp ballasts.
      - 2) Also found in adhesive, sealant, caulk, glazing putty, roofing material, pesticide vehicle, ink, paper, fabric dye, gaskets, and hydraulic fluid.
    - d. HVAC Refrigerants: Containing Fluorinated and Chlorinated compounds.
    - e. Drinking Fountain Refrigerants: Containing Fluorinated and Chlorinated compounds.
    - f. Fluorescent Light Tubes: Contain mercury.
    - g. EXIT signs and Smoke Detectors: May contain unregulated, radioactive tritium. · Required to be returned to manufacturer.
    - h. Contaminated Soils.
    - i. Pressure Treated Lumber.
- F. Contractor shall submit periodic Waste Disposal Reports; all landfill disposal, recycling, salvage, and reuse must be reported regardless of to whom the cost or savings accrues; use the same units of measure on all reports.
1. Contractor's quantitative reports for construction waste materials as a condition of approval of progress payments.
- G. Contractor shall develop and follow a Waste Management Plan designed to implement these requirements. CalGreen Section 5.408.1.1.
- H. The following sources may be useful in developing the Waste Management Plan:
1. California Recycling Department, at [www.bsc.ca.gov/Home/CALGreen.aspx](http://www.bsc.ca.gov/Home/CALGreen.aspx).
  2. General information contacts regarding construction and demolition waste:
    - a. EPA Construction and demolition (C&D) debris website: [www.epa.gov/epawaste/conservation/imr/cdm/](http://www.epa.gov/epawaste/conservation/imr/cdm/).
    - b. Directory of Wood-Framed Building Deconstruction and Reused Building Materials Companies: [www.fpl.fs.fed.us/documnts/fplgtr/fpl\\_gtr150.pdf](http://www.fpl.fs.fed.us/documnts/fplgtr/fpl_gtr150.pdf).
    - c. Additional resources to be developed by Contractor with assistance from District and Contractor, as requested.

3. Recycling Haulers and Markets: The source list below contains local haulers and markets for recyclable materials. This list is provided for information only and is not necessarily comprehensive; other haulers and markets are acceptable.
  - a. CAL-MAX: [www.calrecycle.ca.gov/calmax/](http://www.calrecycle.ca.gov/calmax/).
    - 1) A free service designed to help businesses find markets for non-hazardous materials they have traditionally discarded.
  - b. General Recycling/Reuse Centers: For information on qualified local solid waste haulers contact the California Department of Resources Recycling and Recovery - CalRecycle. The website lists wastes recycling facilities in counties throughout the State of California.
    - 1) <http://www.calrecycle.ca.gov/default.asp>
- I. Methods of trash/waste disposal that are not acceptable are:
  1. Burning on the project site.
  2. Burying on the project site.
  3. Dumping or burying on other property, public or private.
  4. Other illegal dumping or burying.
  5. Incineration, either on- or off-site.
- J. Regulatory Requirements: Contractor is responsible for knowing and complying with regulatory requirements, including but not limited to Federal, state and local requirements, pertaining to legal disposal of all construction and demolition waste materials.

## **1.02 RELATED REQUIREMENTS**

- A. Section 01 30 00 - Administrative Requirements: Additional requirements for project meetings, reports, submittal procedures, and project documentation.
- B. Section 01 52 00 - Construction Facilities: Additional requirements related to trash/waste collection and removal facilities and services.
- C. Section 01 60 00 - Product Requirements: Waste prevention requirements related to delivery, storage, and handling.
- D. Section 01 77 00 - Execution and Closeout Requirements: Trash/waste prevention procedures related to demolition, cutting and patching, installation, protection, and cleaning.
- E. Section 31 10 00 - Site Clearing: Handling and disposal of land clearing debris.

## **1.03 DEFINITIONS**

- A. Clean: Untreated and unpainted; not contaminated with oils, solvents, caulk, or the like.
- B. Construction and Demolition Waste: Solid wastes typically including building materials, packaging, trash, debris, and rubble resulting from construction, remodeling, repair and demolition operations.
  1. Debris that is not hazardous as defined in California Code of Regulations, Title 22, Section 66261.3 et seq.
  2. This term includes, but is not limited to, asphalt concrete, Portland cement concrete, brick, lumber, gypsum wallboard, cardboard and other associated packaging, roofing material, ceramic tile, carpeting, plastic pipe, and steel.

- 3. The debris may be commingled with rock, soil, tree stumps, and other vegetative matter resulting from land clearing and landscaping for construction or land development projects.
- C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.
- D. Diversion: Avoidance of demolition and construction waste sent to landfill or incineration. Diversion does not include using materials for landfill, alternate daily cover on landfills, or materials used as fuel in waste-to-energy processes.
- E. Enforcement Agency (EA). Enforcement agency as defined in CA Public Resources Code 40130.
- F. Hazardous: Exhibiting the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity or reactivity.
- G. Landfill, Inert waste or Inert Disposal Facility:
  - 1. A disposal facility that accepts only inert waste such as soil and rock, fully cured asphalt paving, uncontaminated concrete (including fiberglass or steel reinforcing rods embedded in the concrete), brick, glass, and ceramics, for land disposal.
- H. Landfill, Class III:
  - 1. A landfill that accepts non-hazardous resources such as household, commercial, and industrial waste, resulting from construction, remodeling, repair, and demolition operations.
  - 2. A Class III landfill must have a solid waste facilities permit from the California Integrated Waste Management Board (CIWMB) and is regulated by the Enforcement Agency (EA).
- I. Mixed Debris: Loads that include commingled recyclable and non-recyclable materials generated at the construction site.
- J. Mixed Debris Recycling Facility: A processing facility that accepts loads of commingled construction and demolition debris for the purpose of recovering re-usable and recyclable materials and disposing the non-recyclable residual materials.
- K. Nonhazardous: Exhibiting none of the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity, or reactivity.
- L. Nontoxic: Neither immediately poisonous to humans nor poisonous after a long period of exposure.
- M. Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured into a new product for reuse by others.
- N. Recycle: To remove a waste material from the project site to another site for remanufacture into a new product for reuse by others.
- O. Recycling: The process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for the purpose of using the altered form. Recycling does not include burning, incinerating, or thermally destroying waste.
- P. Recycling Center: A facility that receives only C&D material that has been separated for reuse prior to receipt, in which the residual (disposed) amount of waste in the material is less than 10% of the amount separated for reuse by weight.
- Q. Return: To give back reusable items or unused products to vendors for credit.
- R. Reuse: To reuse a construction waste material in some manner on the project site.
- S. Salvage: To remove a waste material from the project site to another site for resale or reuse by others.

- T. Sediment: Soil and other debris that has been eroded and transported by storm or well production run-off water.
- U. Separated for Reuse:
  - 1. Materials, including commingled recyclables.
  - 2. Separated or kept separate from the solid waste stream for the purpose of:
    - a. Additional sorting or processing those materials for reuse or recycling.
      - 1) In order to return them to the economic mainstream in the form of raw material for new, reused, or reconstituted products.
    - b. Products shall meet the quality standards necessary to be used in the marketplace.
    - c. Includes materials that have been "source separated".
- V. Solid Waste:
  - 1. All putrescible and nonputrescible solid, semisolid, and liquid wastes, including:
    - a. Garbage, trash, refuse, paper, rubbish, ashes, industrial wastes, demolition and construction wastes.
    - b. Abandoned vehicles and parts thereof.
    - c. Discarded home and industrial appliances.
    - d. Dewatered, treated, or chemically fixed sewage sludge which is not hazardous waste.
    - e. Manure, vegetable or animal solid and semisolid wastes.
    - f. Other discarded solid and semisolid wastes.
  - 2. "Solid waste" does not include hazardous waste, radioactive waste, or medical waste as defined or regulated by State law.
- W. Source Separation: The act of keeping different types of waste materials separate beginning from the first time they become waste.
  - 1. Materials, including commingled recyclables, that have been separated or kept separate from the solid waste stream at the point of generation, for the purpose of additional sorting or processing of those materials for reuse or recycling in order to return them to the economic mainstream in the form of raw materials for new, reused, or reconstituted products which meet the quality standards necessary to be used in the marketplace.
- X. Toxic: Poisonous to humans either immediately or after a long period of exposure.
- Y. Trash: Any product or material unable to be reused, returned, recycled, or salvaged.
- Z. Waste: Extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable, returnable, recyclable, and reusable material.
- AA. Waste Hauler: A company that possesses a valid permit from the local waste management authority to collect and transport solid wastes from individuals or businesses for the purpose of recycling or disposal in the locality.

#### **1.04 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Submit Waste Management Plan within 30 calendar days after receipt of Notice to Proceed, or prior to any trash or waste removal, whichever occurs sooner; submit projection of all trash and waste that will require disposal and alternatives to landfilling.
  - 1. Submit four copies of CWMP for review.

- a. Contractor's Construction Waste and Recycling Plan must be approved by the Architect and Construction Manager prior to the start of Work.
  2. Approval of the Contractor's CWMP shall not relieve the Contractor of responsibility for adequate and continuing control of pollutants and other environmental protection measures.
- C. Waste Management Plan: Include the following information:
1. Analysis of the trash and waste projected to be generated during the entire project construction cycle, including types and quantities.
  2. Landfill Options: The name, address, and telephone number of the landfill(s) where trash/waste will be disposed of, the applicable landfill tipping fee(s), and the projected cost of disposing of all project trash/waste in the landfill(s).
  3. Landfill Alternatives: List all waste materials that will be diverted from landfills by reuse, salvage, or recycling.
    - a. List each material proposed to be salvaged, reused, or recycled.
    - b. List the local market for each material.
  4. Meetings: Describe regular meetings to be held to address waste prevention, reduction, recycling, salvage, reuse, and disposal.
  5. Materials Handling Procedures: Describe the means by which materials to be diverted from landfills will be protected from contamination and prepared for acceptance by designated facilities; include separation procedures for recyclables, storage, and packaging.
  6. Transportation: Identify the destination and means of transportation of materials to be recycled; i.e. whether materials will be site-separated and self-hauled to designated centers, or whether mixed materials will be collected by a waste hauler.
  7. Recycling Incentives: Describe procedures required to obtain credits, rebates, or similar incentives.
- D. Waste Disposal Reports: Submit at specified intervals, with details of quantities of trash and waste, means of disposal or reuse, and costs; show both totals to date and since last report.
1. Submit updated Report with each Application for Progress Payment; failure to submit Report will delay payment.
    - a. Inert materials shall achieve a construction waste diversion rate of at least 95 percent.
      - 1) These materials include, but are not limited to, concrete, asphalt and rock.
      - 2) Earthwork is not included.
      - 3) Excavated soil shall not be included in any of the calculations used to ensure compliance with this specification section.
    - b. The overall diversion rate must be based on weight.
    - c. The diversion rate of individual materials can be measured in either weight or volume, but the rate shall be converted into the units selected for calculating the overall diversion rate.
      - 1) All individual material diversions must be converted to a consistent set of units when calculating the overall diversion rate for the all reports and submittals required for the Work.
    - d. Conversion rate numbers shall be based on standard conversion rate data for construction projects provided by the California Integrated Waste



Management Board (CIWMB). This data is available at the following internet location, <http://www.calrecycle.ca.gov/LGCentral/Library/dsg/ICandD.htm>.

2. Submit Report on a form acceptable to District.
3. Landfill Disposal: Include the following information:
  - a. Identification of material.
  - b. Amount, in tons or cubic yards, of trash/waste material from the project disposed of in landfills.
  - c. State the identity of landfills, total amount of tipping fees paid to landfill, and total disposal cost.
  - d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
4. Recycled and Salvaged Materials: Include the following information for each:
  - a. Identification of material, including those retrieved by installer for use on other projects.
  - b. Amount, in tons or cubic yards, date removed from the project site, and receiving party.
  - c. Transportation cost, amount paid or received for the material, and the net total cost or savings of salvage or recycling each material.
  - d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
  - e. Certification by receiving party that materials will not be disposed of in landfills or by incineration.
5. Material Reused on Project: Include the following information for each:
  - a. Identification of material and how it was used in the project.
  - b. Amount, in tons or cubic yards.
  - c. Include weight tickets as evidence of quantity.
6. Other Disposal Methods: Include information similar to that described above, as appropriate to disposal method.

## **PART 2 PRODUCTS**

### **2.01 PRODUCT SUBSTITUTIONS**

- A. See Section 01 60 00 - Product Requirements for substitution submission procedures.
- B. For each proposed product substitution, submit the following information in addition to requirements specified in Section 01 60 00:
  1. Relative amount of waste produced, compared to specified product.
  2. Cost savings on waste disposal, compared to specified product, to be deducted from the Contract Sum.
  3. Proposed disposal method for waste product.
  4. Markets for recycled waste product.

## **PART 3 EXECUTION**

### **3.01 WASTE MANAGEMENT PROCEDURES**

- A. See Section 01 30 00 for additional requirements for project meetings, reports, submittal procedures, and project documentation.

- B. See Section 01 52 00 for additional requirements related to trash/waste collection and removal facilities and services.
- C. See Section 01 60 00 for waste prevention requirements related to delivery, storage, and handling.
- D. See Section 01 70 00 for trash/waste prevention procedures related to demolition, cutting and patching, installation, protection, and cleaning.

### **3.02 WASTE MANAGEMENT PLAN IMPLEMENTATION**

- A. Manager: Designate an on-site person or persons responsible for instructing workers and overseeing and documenting results of the Waste Management Plan.
- B. Communication: Distribute copies of the Waste Management Plan to job site foreman, each subcontractor, District, and Architect.
- C. Instruction: Provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the project.
- D. Meetings: Discuss trash/waste management goals and issues at project meetings.
  - 1. Pre-bid meeting.
  - 2. Pre-construction meeting.
  - 3. Regular job-site meetings.
- E. Facilities: Provide specific facilities for separation and storage of materials for recycling, salvage, reuse, return, and trash disposal, for use by all contractors and installers.
  - 1. As a minimum, provide:
    - a. Separate area for storage of materials to be reused on-site, such as wood cut-offs for blocking.
    - b. Separate dumpsters for each category of recyclable.
    - c. Recycling bins at worker lunch area.
  - 2. Provide containers as required.
  - 3. Provide temporary enclosures around piles of separated materials to be recycled or salvaged.
  - 4. Provide materials for barriers and enclosures that are nonhazardous, recyclable, or reusable to the maximum extent possible; reuse project construction waste materials if possible.
  - 5. Locate enclosures out of the way of construction traffic.
  - 6. Provide adequate space for pick-up and delivery and convenience to subcontractors.
  - 7. If an enclosed area is not provided, clearly lay out and label a specific area on-site.
  - 8. Keep recycling and trash/waste bin areas neat and clean and clearly marked in order to avoid contamination of materials.
- F. Hazardous Wastes: Separate, store, and dispose of hazardous wastes according to applicable regulations.
- G. Recycling: Separate, store, protect, and handle at the site identified recyclable waste products in order to prevent contamination of materials and to maximize recyclability of identified materials. Arrange for timely pickups from the site or deliveries to recycling facility in order to prevent contamination of recyclable materials.

- H. Reuse of Materials On-Site: Set aside, sort, and protect separated products in preparation for reuse.
- I. Salvage: Set aside, sort, and protect products to be salvaged for reuse off-site.

### **3.03 DISPOSAL OPERATIONS AND WASTE HAULING**

- A. Remove waste materials from Project Site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
  - 1. Except for items or materials to be salvaged, recycled, or otherwise reused.
  - 2. Except as otherwise specified, do not allow waste materials that are to be disposed of to accumulate on site.
  - 3. Use a permitted waste hauler or Contractor's trucking services and personnel. To confirm valid permitted status of waste haulers, contact the local solid waste authority.
  - 4. Become familiar with the conditions for acceptance of new construction, excavation and demolition materials at recycling facilities, prior to delivering materials.
  - 5. Deliver to facilities that can legally accept new construction, excavation and demolition materials for purpose of re-use, recycling, composting, or disposal.
  - 6. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
  - 7. Do not burn or bury waste materials on or off site. Appropriate on-site topical application of ground gypsum or wood, or use of site paving as granulated fill is considered reuse, not waste.

### **3.04 PLAN AND REPORT FORMS**

- A. See suggested forms on the following pages.

**END OF SECTION**

## **SECTION 01 77 00**

### **CLOSEOUT PROCEDURES**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. This Section includes administrative and procedural requirements for Contract Closeout, including but not limited to, the following:
  - 1. Completion Procedures
  - 2. Project Record Documents
  - 3. Operation and Maintenance Manuals
  - 4. Orientation and Instruction of DISTRICT'S Personnel
  - 5. Warranties and Guarantees
  - 6. Spare Parts and Materials
  - 7. Final Cleaning
- B. Additional closeout requirements for specific Work activities are included in the appropriate Sections in Divisions 02 through 16.

##### **1.02 RELATED SECTIONS**

- A. Price and Payment Procedures
- B. Submittals
- C. Construction Progress Schedule
- D. Construction Facilities
- E. Temporary Controls
- F. Warranties
- G. Project Record Documents

##### **1.03 COMPLETION PROCEDURES**

- A. Substantial Completion and Partial Occupancy:
  - 1. Conform to Title 24, Part 1, Section 4-336 CCR, Requirements for Verified Reports and Closeout Procedures.
  - 2. In conjunction with the IOR, prepare a list of items to be completed or corrected. List may be developed by areas, when approved by the ARCHITECT.
  - 3. Within a reasonable time after receipt of the list, the ARCHITECT will inspect to determine status of completion.
  - 4. Should the ARCHITECT determine that Work is not substantially

complete:

- a. The ARCHITECT will promptly notify the CONTRACTOR in writing, giving the reasons for his determination.
- b. CONTRACTOR shall remedy the deficiencies and notify the ARCHITECT when Work is ready for re-inspection.
- c. The ARCHITECT will re-inspect the Work.

5. When the ARCHITECT concurs that work is substantially complete:

- a. The ARCHITECT will prepare a "Certificate of Substantial Completion" on AIA Form G704, accompanied by the CONTRACTOR's list of items to be completed or corrected as verified by the ARCHITECT.
- b. The ARCHITECT will submit the Certificate to the DISTRICT and to the CONTRACTOR for their written acceptance of the responsibilities assigned to them in the Certificate.

B. Final Completion:

- 1. Verify the Work is complete.
- 2. Prepare and submit a notice that Work is ready for final inspection and acceptance.
- 3. Certify that:
  - a. Work has been inspected by all governing agencies and is in compliance with all governing regulations.
  - b. Work has been inspected for compliance with the Contract Documents.
  - c. Work has been completed in accordance with the Contract Documents.
  - d. Equipment and systems have been tested as required and are operational.
  - e. Work is completed and ready for final inspection.
- 4. The ARCHITECT will make an inspection to verify status of completion.
- 5. Should the ARCHITECT determine the Work is incomplete or defective:
  - a. The ARCHITECT will promptly notify the CONTRACTOR in writing, listing incomplete or defective work.
  - b. CONTRACTOR shall remedy the deficiencies promptly and notify the ARCHITECT when ready for re-inspection.

6. When the ARCHITECT determines the Work is acceptable under the Contract Documents, he will request the CONTRACTOR to make closeout submittals.
- C. Submit all closeout documents, including but are not limited to:
1. Project Record Documents.
  2. Operation and Maintenance Manuals (for all items requiring special knowledge for operation or for maintenance, listed in pertinent Sections of these Specifications), and for other items when so approved by the ARCHITECT.
  3. Warranties and Guarantees.
  4. Keys and Keying Schedule.
  5. Spare parts, materials, extra stock to be turned over to the DISTRICT.
  6. Evidence of payment and release of liens, when requested by DISTRICT.
  7. List of subcontractors, service organizations and principal vendors, including names, addresses and telephone numbers, where they may be contacted for emergency service at all times, including nights, weekends and holidays.
- D. Final Payment:

Submit a Final Payment Request, showing all adjustments to the Contract Sum.

#### 1.04 VERIFIED REPORTS

- A. Construction progress of the Work shall be reported to DSA via a duly verified report in accordance with Sections 4-336 and 4-343 of the California Building Standards Administrative Code.

#### 1.05 OPERATION AND MAINTENANCE MANUALS

- A. Prior to Substantial Completion, submit three (3) sets of Operation and Maintenance (O&M) Manuals and one (1) electronic copy to the ARCHITECT for DISTRICT's records. Organize O&M data into sets of manageable size. Bind properly indexed data in individual, heavy-duty, 2"-3", 3-ring, durably covered binders, with pocket folders for folded sheet information. Mark appropriate identification on front and spine of each binder.
1. Emergency instructions
  2. Manufacturer's operating and maintenance instructions, including any seasonal adjustments
  3. Spare parts list
  4. Copies of warranties
  5. Wiring diagrams



6. Recommended "turn-around" cycles
7. Inspection procedures
8. Shop Drawings and Product Data
9. Fixture lamping schedule

#### 1.06 ORIENTATION AND INSTRUCTION OF DISTRICT'S PERSONNEL:

- A. Instruct the DISTRICT's personnel in proper operation and maintenance of all systems, equipment and similar items, which were provided as part of the work. Provide maintenance and inspection schedules that conform to manufacturer's recommendations. Provide instruction by manufacturers' representatives if installers are not experienced in operation and maintenance procedures. Include a detailed review of the following items:
  1. Maintenance manuals
  2. Record documents
  3. Spare parts and materials
  4. Tools
  5. Lubricants
  6. Fuels
  7. Identification systems
  8. Control sequences
  9. Hazards
  10. Cleaning
  11. Warranties and bonds
  12. Maintenance agreements and similar continuing commitments
- B. CONTRACTOR shall provide a schedule to the DISTRICT for approval for each of the instruction periods required.
  1. Organize the instruction sessions into group sizes and schedule the elapsed time for instruction in a manner to provide complete coverage of the subject matter. Video tape each session and provide DISTRICT with two (2) copies.
- C. Instruction sessions will be held in a DISTRICT designated area on the project site and at DISTRICT's convenience. Amount of time required for each session shall be as specified in individual sections, but in no case less than the time needed to fully convey the information needed by DISTRICT personnel for operating and maintaining the products.
- D. Instructors shall be qualified by the product manufacturer in the subject matter presented at each session.
  1. Submit names of instructors and qualifications to the Architect and DISTRICT for approval, 30 days prior to each scheduled session.
  2. Substitution of instructors will not be permitted without prior approval of Architect or DISTRICT.

- E. As part of instruction for operating equipment, demonstrate the following procedures:
  - 1. Start-up
  - 2. Shutdown
  - 3. Emergency operations
  - 4. Noise and vibration adjustments
  - 5. Safety procedures
  - 6. Seasonal adjustments
  - 7. Economy and efficiency adjustments
  - 8. Effective energy utilization measures
- F. Schedule and provide seasonal or periodic training sessions when specified in technical sections of the Specifications.

#### 1.07 WARRANTIES AND GUARANTEES

- A. Manufacturer's warranties and guarantees notwithstanding, warrant entire Work against defects in materials and workmanship for twelve (12) months from date of Substantial Completion. Warranties and guarantees between CONTRACTOR and manufacturers and CONTRACTOR and suppliers shall not affect warranties or guarantees between CONTRACTOR and DISTRICT.
- B. Execute and assemble documents from subcontractors, suppliers and manufacturers.
- C. Submit prior to final Application for Payment.
- D. For items of Work delayed beyond date of Substantial Completion, provide updated submittal within ten (10) days after acceptance, listing date of acceptance as start of warranty period.

#### 1.08 SPARE PARTS AND MAINTENANCE MATERIALS

- A. Provide products, spare parts, maintenance and extra materials in quantities specified in individual specification Sections.
- B. Deliver to project site location as directed by DISTRICT.

#### 1.09 FINAL CLEANING

- A. Final cleaning is provided by Contractor.
- B. Each CONTRACTOR shall leave his finished work in clean condition, including following as applicable:
  - 1. Remove labels that are not permanent labels.
  - 2. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other substances that are

noticeable vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials.

3. Clean exposed exterior and interior hard-surfaced finishes to a dust-free condition, free of stains, films, and similar foreign substances. Restore reflective surfaces to their original condition. Leave concrete floors broom clean. Vacuum carpeted surfaces.
4. Wipe surfaces of mechanical and electrical equipment. Remove excess lubrication and other substances. Clean plumbing fixtures to a sanitary condition. Clean light fixtures and lamps.

## **END OF SECTION**

**SECTION 017823 - OPERATION AND MAINTENANCE DATA****PART 1 - GENERAL****1.1 SUMMARY**

- A. This Section includes administrative and procedural requirements for preparing operation and maintenance manuals, including the following:
  - 1. Emergency manuals.
  - 2. Operation manuals for systems, subsystems, and equipment.
  - 3. Maintenance manuals for the care and maintenance of products, materials, and finishes, systems and equipment.
- B. See Divisions 02 through 32 Sections for specific operation and maintenance manual requirements for the Work in those Sections.

**1.2 SUBMITTALS**

- A. Manual: Submit one copy of each manual in final form at least 15 days before final inspection. Resident Engineer will return copy with comments within 15 days after final inspection.
  - 1. Correct or modify each manual to comply with Resident Engineer's comments. Submit 3 copies of each corrected manual within 15 days of receipt of Architect's comments.

**PART 2 - PRODUCTS****2.1 MANUALS, GENERAL**

- A. Organization: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and a separate section for each piece of equipment not part of a system. Each manual shall contain a title page, table of contents, and manual contents.
- B. Title Page: Enclose title page in transparent plastic sleeve. Include the following information:
  - 1. Subject matter included in manual.
  - 2. Name and address of Project.
  - 3. Name and address of Owner.
  - 4. Date of submittal.
  - 5. Name, address, and telephone number of Contractor.

**OPERATION AND MAINTENANCE DATA****01 78 23 - 1****SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT  
BUILDING "M" MAKERS SPACE**

6. Name and address of Architect.
  7. Cross-reference to related systems in other operation and maintenance manuals.
- C. Table of Contents: List each product included in manual, identified by product name, indexed to the content of the volume, and cross-referenced to Specification Section number in Project Manual.
- D. Manual Contents: Organize into sets of manageable size. Arrange contents alphabetically by system, subsystem, and equipment. If possible, assemble instructions for subsystems, equipment, and components of one system into a single binder.
1. Binders: Heavy-duty, 3-ring, vinyl-covered, loose-leaf binders, in thickness necessary to accommodate contents, sized to hold 8-1/2-by-11-inch (215-by-280-mm) paper; with clear plastic sleeve on spine to hold label describing contents and with pockets inside covers to hold folded oversize sheets.
    - a. Identify each binder on front and spine, with printed title "OPERATION AND MAINTENANCE MANUAL," Project title or name, and subject matter of contents. Indicate volume number for multiple-volume sets.
  2. Dividers: Heavy-paper dividers with plastic-covered tabs for each section. Mark each tab to indicate contents. Include typed list of products and major components of equipment included in the section on each divider, cross-referenced to Specification Section number and title of Project Manual.
  3. Protective Plastic Sleeves: Transparent plastic sleeves designed to enclose diagnostic software diskettes for computerized electronic equipment.
  4. Drawings: Attach reinforced, punched binder tabs on drawings and bind with text.
    - a. If oversize drawings are necessary, fold drawings to same size as text pages and use as foldouts.
    - b. If drawings are too large to be used as foldouts, fold and place drawings in labeled envelopes and bind envelopes in rear of manual. At appropriate locations in manual, insert typewritten pages indicating drawing titles, descriptions of contents, and drawing locations.

## **2.2 EMERGENCY MANUALS**

- A. Content: Organize manual into a separate section for type of emergency, emergency instructions, and emergency procedures.
- B. Type of Emergency: Where applicable for each type of emergency indicated below, include instructions and procedures for each system, subsystem, piece of equipment, and component for fire, flood, gas leak, water leak, power failure, water outage, equipment failure and chemical release or spill.

- C. Emergency Instructions: Describe and explain warnings, trouble indications, error messages, and similar codes and signals. Include responsibilities of Owner's operating personnel for notification of Installer, supplier, and manufacturer to maintain warranties.
- D. Emergency Procedures: Include instructions on stopping, shutdown instructions for each type of emergency, operating instructions for conditions outside normal operating limits, and required sequences for electric or electronic systems.

## **2.3 OPERATION MANUALS**

- A. Content: In addition to requirements in this Section, include operation data required in individual Specification Sections and equipment descriptions, operating standards, operating procedures, operating logs, wiring and control diagrams, and license requirements.
- B. Descriptions: Include the following:
  - 1. Product name and model number.
  - 2. Manufacturer's name.
  - 3. Equipment identification with serial number of each component.
  - 4. Equipment function.
  - 5. Operating characteristics.
  - 6. Limiting conditions.
  - 7. Performance curves.
  - 8. Engineering data and tests.
  - 9. Complete nomenclature and number of replacement parts.
- C. Operating Procedures: Include start-up, break-in, and control procedures; stopping and normal shutdown instructions; routine, normal, seasonal, and weekend operating instructions; and required sequences for electric or electronic systems.
- D. Systems and Equipment Controls: Describe the sequence of operation, and diagram controls as installed.
- E. Piped Systems: Diagram piping as installed, and identify color-coding where required for identification.

## **2.4 PRODUCT MAINTENANCE MANUAL**

- A. Content: Organize manual into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.
- B. Source Information: List each product included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual.

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- C. Product Information: Include the following, as applicable:
  - 1. Product name and model number.
  - 2. Manufacturer's name.
  - 3. Color, pattern, and texture.
  - 4. Material and chemical composition.
  - 5. Reordering information for specially manufactured products.
- D. Maintenance Procedures: Include manufacturer's written recommendations and inspection procedures, types of cleaning agents, methods of cleaning, schedule for cleaning and maintenance, and repair instructions.
- E. Repair Materials and Sources: Include lists of materials and local sources of materials and related services.
- F. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

## **2.5 SYSTEMS AND EQUIPMENT MAINTENANCE MANUAL**

- A. Content: For each system, subsystem, and piece of equipment not part of a system, include source information, manufacturers' maintenance documentation, maintenance procedures, maintenance and service schedules, spare parts list and source information, maintenance service contracts, and warranty and bond information, as described below.
- B. Source Information: List each system, subsystem, and piece of equipment included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual.
- C. Manufacturers' Maintenance Documentation: Manufacturers' maintenance documentation including maintenance instructions, drawings and diagrams for maintenance, nomenclature of parts and components, and recommended spare parts for each component part or piece of equipment:
- D. Maintenance Procedures: Include test and inspection instructions, troubleshooting guide, disassembly instructions, and adjusting instructions, and demonstration and training videotape if available, that detail essential maintenance procedures:
- E. Maintenance and Service Schedules: Include service and lubrication requirements, list of required lubricants for equipment, and separate schedules for preventive and routine maintenance and service with standard time allotment.
- F. Spare Parts List and Source Information: Include lists of replacement and repair parts, with parts identified and cross-referenced to manufacturers' maintenance documentation and local sources of maintenance materials and related services.

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- G. Maintenance Service Contracts: Include copies of maintenance agreements with name and telephone number of service agent.
- H. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.

**PART 3 - EXECUTION****3.1 MANUAL PREPARATION**

- A. Emergency Manual: Assemble a complete set of emergency information indicating procedures for use by emergency personnel and by District's operating personnel for types of emergencies indicated.
- B. Product Maintenance Manual: Assemble a complete set of maintenance data indicating care and maintenance of each product, material, and finish incorporated into the Work.
- C. Operation and Maintenance Manuals: Assemble a complete set of operation and maintenance data indicating operation and maintenance of each system, subsystem, and piece of equipment not part of a system.
- D. Manufacturers' Data: Where manuals contain manufacturers' standard printed data, include only sheets pertinent to product or component installed. Mark each sheet to identify each product or component incorporated into the Work. If data include more than one item in a tabular format, identify each item using appropriate references from the Contract Documents. Identify data applicable to the Work and delete references to information not applicable.
- E. Drawings: Prepare drawings supplementing manufacturers' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in Record Drawings to ensure correct illustration of completed installation.
  - 1. Do not use original Project Record Documents as part of operation and maintenance manuals.
- F. Comply with Division 01 Section "Closeout Procedures" for schedule for submitting operation and maintenance documentation.

**END OF SECTION 017823**

## **SECTION 01 78 36**

### **WARRANTIES AND BONDS**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Preparation and submittal of warranties and bonds.
- B. Time and schedule of submittals.

##### **1.02 RELATED SECTIONS**

- A. Contract Closeout Procedures.
- B. Product Requirements
- C. Materials and Equipment
- D. Technical Specifications Sections: Warranties required for specific products or Work.

##### **1.03 WARRANTY REQUIREMENTS**

- A. Warranties or bonds shall provide for replacement or reconstruction of failed or defective Work to an acceptable condition complying with the requirements of the Contract Documents. Work shall be restored at no cost to the District regardless of whether the District has benefited from use of the Work for a portion of its anticipated useful service life.
- B. Provide warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within ten days after completion of the applicable item or work.
- C. When a designated portion of the Work is partially used and/or occupied by the DISTRICT, submit properly executed warranties within ten (10) days of the Partial Use or Occupancy of the designated portion of the Work
- D. Verify that documents are in proper form, contain full information and are notarized.
- E. DISTRICT Recourse: Expressed warranties made to DISTRICT are in addition to implied warranties and shall not limit the duties, obligations, rights, and remedies otherwise available under the law. Expressed warranty periods shall not be interpreted as limitations on the time in which DISTRICT can enforce such other duties, obligations, rights, or remedies.

##### **1.04 FORM OF SUBMITTALS**

- A. Prepare duplicate binders, commercial quality, 8-1/2 x 11 inch, three-ring side binders with hardback, cleanable, plastic covers.

- B. Label cover and spine of each binder with typed or printed title WARRANTIES AND BONDS, with title of Project. Number separate volumes in order.
- C. Table of Contents: Typed, in the sequence of the Table of Contents of the Project Manual, with each item identified with the number and title of the specification Section in which specified and the name of the product or work item.
- D. Separate each warranty or bond with index tab sheets keyed to the Table of Contents listing. Provide full information, using separate typed sheets as necessary. Use paper of durable, long-lasting quality. List Subcontractor, supplier, and manufacturer, with name, address and telephone number of responsible principal.

#### 1.05 TIME OF SUBMITTALS

- A. Except for specifically authorized exceptions, the date for beginning the period of warranty shall be the Date of Substantial Completion.
- B. For equipment or component parts of equipment put into service during construction with District's permission, submit documents within ten (10) days after acceptance.
- C. Make other submittals within ten (10) days after Date of Substantial Completion prior to final Application for Payment.
- D. For items of Work when acceptance is delayed beyond Date of Substantial Completion, submit within ten (10) days after acceptance, listing the date of acceptance as the beginning of the warranty period.

#### **END OF SECTION**

## GUARANTEE

We hereby guarantee that the **Category No.** \_\_\_\_\_, which we have installed for **SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT** at **PROJECT NAME** has been performed in accordance with the requirements of the Contract Documents and that the work as installed will fulfill the requirements of the Contract Documents.

The undersigned agrees to repair or replace any or all of such work that may prove to be defective in workmanship or material together with any other adjacent work which may be displaced in connection with such replacement within a minimum period of **ONE (1) YEAR** (see individual trade specifications for more stringent requirements) from the date of acceptance of the above-mentioned project by **SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT**, ordinary wear and tear and unusual abuse or neglect excepted.

In the event of the undersigned's failure to comply with the above mentioned conditions within a reasonable period of time, as determined by the District, but not later than ten (10) working days after being notified in writing by the District, the undersigned authorizes the District to proceed to have said defects repaired and made good at the expense of the undersigned, who will pay the costs and charges therefore upon demand.

\_\_\_\_\_  
PRIME CONTRACTOR

SIGNED: \_\_\_\_\_

\_\_\_\_\_  
NAME

Representatives to be contacted for service subject to terms of contract:

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE #: \_\_\_\_\_

**CONTRACTOR'S CERTIFICATE  
REGARDING ASBESTOS MATERIAL**

This form is to be submitted at the time final billing is provided.

"I certify that all the materials and supplies installed under this

\_\_\_\_\_  
(Name of Contract)

contract are free of asbestos-containing materials."

\_\_\_\_\_  
Date

\_\_\_\_\_  
Official Name of Contractor

\_\_\_\_\_  
By

\_\_\_\_\_  
Title

\_\_\_\_\_  
Signature

**END OF SECTION**



## SECTION 01 78 39

### PROJECT RECORD DOCUMENTS

#### PART 1 GENERAL

##### 1.07 SECTION INCLUDES

- A. This Section includes administrative and procedural requirements for preparing, maintaining, and submitting Project Record Documents.

##### 1.08 RELATED SECTIONS

- A. Price and Payment Procedures
- B. Submittals
- C. Closeout Procedures
- D. Field Engineering

##### 1.09 PROJECT RECORD DOCUMENTS

- A. CONTRACTOR shall prepare and maintain record documents throughout the course of construction, as specified herein.
- B. Provide access to record documents for ARCHITECT, IOR and CM reference during normal working hours.
- C. Do not use project record documents for construction purposes. Protect record documents from deterioration and loss.
- D. Record in concise and neat manner, concurrent with construction progress, and at least on a weekly basis, all actual revisions to the work:
  - 1. Changes made on the Drawings, including Clarification Drawings.
  - 2. Changes made to the Specifications.
  - 3. Changes made by Addenda.
  - 4. Changes made by Instruction Bulletins.
  - 5. Change Orders or other authorized Modifications to the Contract.
  - 6. Revisions made to shop drawings, product data and samples.
- E. Record Drawings shall be a clean, clear electronic files of Drawings and Shop Drawings. File type shall be determined by DISTRICT. Mark the set with red erasable pencil to show the actual installation where the installation varies substantially from the Work as originally shown. Indicate which Drawing is most capable of showing conditions fully and accurately. Where Shop Drawings are used, record a cross-reference at the corresponding location on the Drawings. Provide detailed and accurate field dimensions for concealed elements that would be difficult to measure and record at a later date.

1. Mark new information, including details, that is important to DISTRICT but was not shown on Drawings or Shop Drawings.
  2. Show measured depths of foundations in relation to finish first floor datum.
  3. Show measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements. Identify drains and sewers by invert elevation.
  4. Verify surveyor's Record Drawings with CONTRACTOR'S utilities locations and depths markups.
  5. Show measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work. Identify ducts, dampers, valves, access doors and control equipment wiring.
  6. Show field changes of dimension and detail.
  7. Note related Change Order or Construction Directive numbers on each affected sheet.
  8. Organize Record Drawing sheets into manageable sets. Bind sets with durable-paper cover sheets; print suitable titles, dates, and other identification on the cover of each set.
- F. Record Specifications: Maintain a complete copy of the Specifications, including Addenda, Change Orders and Construction Directives issued during construction. Legibly mark at each Section description of actual products installed if different from that specified, including:
1. Manufacturer's name, trade name, product model and number and supplier.
  2. Authorized product substitutions or alternates utilized.
  3. Changes made by Addenda and Modifications.
- G. Record Product Data: Maintain a copy of each Product Data submittal. Note related Change Orders and Construction Directives and mark-up of record drawings and Specifications.
1. Mark these documents to illustrate significant variations in actual Work performed in comparison with information submitted. Include variations in products delivered to the Project site and from the manufacturer's installation instructions and recommendations.
  2. Provide detailed and accurate information regarding concealed products and portions of Work that cannot otherwise be readily discerned later by direct observation.

- H. Record Samples: Immediately prior to Substantial Completion, CONTRACTOR shall meet with ARCHITECT and DISTRICT at the Project site to determine which Samples are to be transmitted to DISTRICT for record purposes. Comply with DISTRICT instructions regarding delivery to DISTRICT storage area.
- I. Miscellaneous Records: Refer to other Specification sections for requirements of miscellaneous record keeping and submittals in connection with actual performance of the Work. Immediately prior to the date of Final Completion, complete and compile miscellaneous records and place in good order. Identify miscellaneous records properly and bind or file, ready for continued use and reference. Submit to ARCHITECT for DISTRICT records.

**END OF SECTION**