Draft Initial Study and Mitigated Negative Declaration

Garfield Replacement Well Project

Prepared for | City of Pasadena
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June 2021

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SECTION 1.0 INTRODUCTION

1.1 PURPOSE OF INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

The California Environmental Quality Act (CEQA) (*California Public Resources Code* §21000 et seq.) and the State CEQA Guidelines (*California Code of Regulations,* Title 14, §15000 et seq.) require that local government agencies, prior to taking action on projects requiring discretionary approval, consider the environmental consequences of such projects. Pursuant to Section 15367 of the State CEQA Guidelines, the City of Pasadena (City) is the Lead Agency for the Project. As the Lead Agency, the City has the principal responsibility for carrying out the Project and has the authority for approving the Project and its accompanying environmental documentation.

In accordance with CEQA, this Initial Study (IS) has been prepared as documentation to support a Mitigated Negative Declaration (MND) for the Garfield Replacement Well Project (Project) proposed by the City. This IS/MND includes a description of the Project; the location of the Project site; an evaluation of the potential environmental impacts of Project implementation; and recommended mitigation measures (MMs) to lessen or avoid impacts on the environment.

In addition to addressing the potential environmental impacts that would result from the proposed Project, this IS/MND serves as the primary environmental document for future activities associated with the Project, including discretionary approvals requested or required for Project implementation. The Project proposes to drill and construct a replacement potable water supply well, hereinafter referred to as Garfield Replacement Well, proposed well, or Project, to maintain source capacity. The Garfield Replacement Well would be situated approximately 100 feet northwest of the existing inactive Garfield Well in Villa Parke, in the City of Pasadena, California.

As part of the evaluation of potential environmental impacts associated with Project implementation, the IS/MND identifies regulations applicable to the Project and sets forth MMs that would lessen or avoid significant impacts on the environment. The IS/MND concludes that, while implementation of the Project would have potentially significant environmental impacts, MMs have been incorporated that would reduce all identified impacts to levels considered less than significant (Section 15070 of the State CEQA Guidelines). Therefore, an IS/MND is the appropriate CEQA documentation. The reader is referred to the full text of this IS/MND and the technical appendices for a complete discussion and analysis of the Project's potential environmental effects.

As the Lead Agency, the City has commissioned the preparation of this IS/MND and has reviewed and revised, as necessary, all submitted drafts and technical studies to reflect its independent judgment, including reliance on City staff for the review of all technical subconsultant reports. Data for this IS/MND was obtained from on-site field observations; discussions with affected agencies; review of available technical studies, reports, guidelines, and data; and review of specialized environmental assessments prepared for the Project.

1.2 PROJECT SUMMARY

The proposed Project would drill and construct a replacement potable water supply well in the City of Pasadena, California, to maintain source capacity. The existing potable well (existing Garfield Well) has reached the end of its useful service life and has been removed from service. The replacement well would be capable of producing 1,500 gallons per minute (gpm) of water, which is comparable to the previous operational capacity of the existing Garfield Well, which produced an average of 1,417 gpm of water before decommissioning (Wood Rodgers 2020).The

Garfield Replacement Well would be located approximately 100 feet northwest of the existing Garfield Well in Villa Parke, a City park.

1.3 SUMMARY OF ENVIRONMENTAL IMPACTS

Section 1.0 of this IS/MND provides the purpose of the IS/MND and a summary of the Project's environmental impacts; Section 2.0 discusses the existing environmental setting, and Section 3.0 provides a discussion of the improvements proposed as part of the Project. Section 4.0 of this IS/MND evaluates the impacts that would occur with Project implementation. As analyzed, no impacts on Agriculture and Forest Resources, Land Use and Planning, Mineral Resources, Population and Housing, Public Services, and Wildfire would result with Project implementation. Through compliance with the regulations, the Project would have less than significant impacts on Aesthetics, Air Quality, Energy, Greenhouse Gas Emissions, Hydrology and Water Quality, Transportation, and Utilities and Service Systems, and no MMs would be required.

To avoid and reduce other potentially significant Project impacts, MMs have been developed for Biological Resources, Cultural Resources, Geology and Soils, Hazards and Hazardous Materials, Noise, Recreation, and Tribal Cultural Resources. With implementation of these MMs, impacts would be reduced to less than significant levels. The City will include these MMs in the Contractor Specifications, as appropriate, and verify their implementation as part of the Mitigation Monitoring and Reporting Program (MMRP) for the Project. These MMs are listed below.

Biological Resources

MM BIO-1 To the extent practical and feasible, Project construction shall be conducted between September 16 and January 31, which is outside the bird nesting season. Construction conducted within this period shall be considered in compliance with the conditions set forth in the Migratory Bird Treaty Act (MBTA) and *California Fish and Game Code* with methods approved by the U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Wildlife (CDFW) to protect active bird/raptor nests. If the nature of the proposed construction activities requires that work be conducted during the breeding season for nesting birds (March 15–September 15) or nesting raptors (February 1–June 30), in order to avoid direct impacts on active nests, a pre-construction survey shall be conducted by a qualified Biologist for nesting birds and/or raptors within 3 days prior to any Project construction or disturbance activities (i.e., within 300 feet for nesting birds and within 500 feet for nesting raptors). If the Biologist does not find any active nests within or immediately adjacent to the impact area, the construction work shall be allowed to proceed. If a lapse of more than three days occurs between outdoor disturbance activities, the nesting bird survey will need to be repeated as nesting activities may potentially occur in that time frame. Results of the surveys will be provided to the CDFW.

If the Biologist finds an active nest within or immediately adjacent to the construction area and determines that the nest may be impacted or breeding activities substantially disrupted, the Biologist shall delineate an appropriate buffer zone (at a minimum of 25 feet) around the nest depending on the sensitivity of the species and the nature of the construction activity. Any nest found during survey efforts shall be mapped on the construction plans. The active nest shall be protected until nesting activity has ended. To protect any nest site, the following restrictions to construction activities shall be required until nests are no longer active, as determined by a qualified Biologist: (1) disturbance limits shall be established within a buffer around any occupied nest (the buffer shall be 25–100

feet for nesting birds and 300–500 feet for nesting raptors), unless otherwise determined by a qualified Biologist and (2) access and surveying shall be restricted within the buffer of any occupied nest, unless otherwise determined by a qualified Biologist. Encroachment into the buffer area around a known nest shall only be allowed if the Biologist determines that the proposed activity would not disturb the nest occupants. Construction can proceed when the qualified Biologist has determined that fledglings have left the nest or the nest has failed.

MM BIO-2 During Project construction activities, all trees within 25 feet of work areas shall be demarcated in the field with orange construction fencing or other high-visibility flagging, to ensure avoidance during construction.

Cultural Resources

MM CUL-1 Prior to commencement of ground-disturbing activities, the City shall retain a qualified Archaeologist for on-call services in the event of a discovery of cultural resources (i.e., archaeological sites) below the ground surface. The Archaeologist shall be present at the pre-construction conference, and shall establish, in cooperation with the Contractor, procedures for temporarily halting or redirecting work to permit the sampling, identification, and evaluation of the artifacts. Should archaeological resources be found during ground-disturbing activities for the Project, the Archaeologist shall first determine whether it is a "unique archaeological resource" pursuant to the California Environmental Quality Act (CEQA, i.e., Section 21083.2[g] of the *California Public Resources Code*), a "historical resource" pursuant to Section 15064.5(a) of the State CEQA Guidelines. If the above-mentioned resources are found during ground-disturbing activities, the Archaeologist shall formulate a report and a mitigation plan in consultation with the City of Pasadena and tribal representatives that satisfies the requirements of the above-referenced sections. The report shall follow guidelines of the California Office of Historic Preservation, and s/he shall record the site and submit the recordation form to the City of Pasadena and the California Historic Resources Information System (CHRIS) at the South Central Coastal Information Center (SCCIC) located at California State University, Fullerton. The disposition of the resources shall be subject to approval by the City. If resources are discovered, work may proceed in other areas of the site, subject to the direction of the Archaeologist.

Geology and Soils

MM GEO-1 Prior to commencement of ground-disturbing activities, the City shall retain a qualified Paleontologist for on-call services in the event of a discovery of paleontological resources below the ground surface. The Paleontologist shall be present at the pre-construction conference; and shall establish, in cooperation with the Contractor, procedures for temporarily halting or redirecting work to permit the sampling, identification, and evaluation of the paleontological resources. Should these resources be found during ground-disturbing activities for the Project, the Paleontologist shall first determine whether it is a "unique paleontological resource" pursuant to the California Environmental Quality Act (CEQA, i.e., Section 21083.2[g] of the *California Public Resources Code*), or a significant paleontologically-sensitive rock formation. If the above-mentioned resources are found during ground-disturbing activities, the Paleontologist shall formulate a report and a mitigation plan in consultation with the City of Pasadena that satisfies the requirements of the above-referenced sections. The disposition of the

resources shall be subject to approval by the City. If resources are discovered, work may proceed in other areas of the site, subject to the direction of the Paleontologist.

Hazards and Hazardous Materials

MM HAZ-1 During all earthmoving and construction activities, the City shall require the Contractors to implement the following measures:

- Trucks and equipment entering the site shall be inspected to be free from oil, gasoline, or other vehicle fluid leaks.
- Any hazardous material spills and/or contaminated soils shall be excavated immediately upon discovery and tested prior to disposal to ensure proper handling and transport in compliance with applicable federal, state, and local regulations governing the handling of hazardous materials.
- The Contractor shall maintain hazardous materials spill control, containment, and cleanup kits of adequate size and materials for potential accidental spills and releases.

Noise

MM NOI-1 The Construction Contractor shall ensure the following best management practices for construction equipment are met during construction activities:

a. All stationary or mobile construction equipment shall be equipped with properly-operating and maintained mufflers, compliant with or exceeding manufacturers' standards.

b. All construction equipment engine enclosures and covers, as provided by manufacturers, shall be in place during construction activities.

c. All construction equipment shall be shut down when not in use.

d. During Project construction, export of drill cuttings via trucks shall be limited to the hours of 7 AM through 7 PM.

e. Construction-standard high-pitch backup alarms for construction equipment and vehicles shall not be used during construction of the Project. Construction equipment and vehicles shall use low-impact backup alarms, including, but not limited to, the following: manually-adjustable alarms, self-adjusting alarms, and broadband (white noise) alarms. These alarms shall conform to the safety requirements established by the Occupational Safety and Health Administration (OSHA).

f. An electric circulation tank motor shall be used for well-drilling activities, instead of a diesel-fueled circulation tank motor, if commercially available. If an electric circulation tank motor is not commercially available, an engine enclosure provided by the manufacturer shall be used to cover the diesel-fueled circulation tank motor in addition to the constructed enclosure identified under MM NOI-2b.

MM NOI-2 During nighttime construction activity (i.e., from 7 PM to 7 AM), the Construction Contractor shall ensure that the following best management practices for sound barriers are implemented:

a. During nighttime construction activities (i.e., from 7 PM to 7 AM), 24-foot tall sound barriers, with a minimum sound transmission class (STC) rating of 25, must be erected along all sides of the construction area where continuous construction activities would occur.

b. Sound barrier enclosures shall enclose all stationary equipment sources of noise. These enclosures shall be constructed of either ¾-inch plywood or greater thickness or sound blankets with a minimum STC rating of 25 and cover all sides as well as the top of the equipment. Minimal gaps in the enclosure are acceptable to ensure adequate air intake, exhaust ventilation, and heat dissipation for proper equipment functioning.

c. Liquid storage tanks (i.e., Baker tanks) shall be strategically placed between the circulation tank motor and the nearest residential use.

MM NOI-3 Prior to commencement of nighttime Project construction, the City of Pasadena shall establish a designated phone hotline and email address for Project-related information and complaints from the surrounding neighborhood. The City shall designate a Noise Complaint Manager to monitor this phone hotline and email. Fliers or posters must be posted and visible at the Project boundary at least one week prior to commencement of nighttime construction activity and continue throughout the nighttime construction duration. These posters must provide the following information: nighttime construction duration and other related details, and contact information for the phone hotline and email address.

MM NOI-4 Prior to commencement of nighttime construction activities, the City shall retain a Noise Monitor for on-call services to monitor noise levels during nighttime construction activities (i.e., from 7 PM to 7 AM). The Noise Monitor shall monitor and record noise at the property line for the nearest residential uses (west and east of the Project site) to ensure that noise levels from the Project construction site do not exceed 50 A-weighted decibels (dBA) at night. If Project-related noise levels exceed 50 dBA during nighttime activities, additional noise reduction measures shall be implemented to further reduce construction noise at the Project site to a level at or below 50 dBA, such as additional vertical and horizontal sound barriers.

Recreation

MM REC-1 Prior to the closure of recreational facilities (including basketball courts and open space areas), the Construction Contractor shall post signs at the parking lots and Villa Parke entrances providing at least one week of advanced notice of the dates and times of planned Villa Parke area closures.

Tribal Cultural Resources

MM TCR-1 Prior to commencement of ground-disturbing activities, the City of Pasadena (City) shall retain a qualified Native American Monitor (NAM) who is culturally affiliated with the Project area and/or otherwise approved by the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government to observe ground-disturbing activities, which may include, but are not limited to, pavement removal, pot-holing or augering, grubbing, tree removals, boring, grading, excavation, drilling, and

trenching, within the Project Area. Additionally, per MM CUL-1, prior to commencement of ground-disturbing activities, the City shall retain a qualified Archaeologist for on-call services in the event of discovery of cultural resources. Monitoring by the NAM is only to occur onsite when well drilling is scheduled below the ground surface (bgs) and is not to exceed five consecutive working days. The NAM shall complete daily monitoring logs providing descriptions of the day's activities including construction activities, locations, soil, and any cultural materials identified. All discovered TCRs found during ground-disturbing activities for the Project shall be temporarily curated in a secure location on site by the Project Archaeologist. If removal of artifacts from the Project site is necessary, each artifact shall be catalogued, and an inventory will be provided to the Tribal monitor upon each addition. Following the completion of the Project, all TCRs shall be returned to the Tribe. Regardless of discovery, at the completion of all ground-disturbing activities, the Project Archaeologist shall formulate a Monitoring Report and submit said report to the City of Pasadena and the South Central Coastal Information Center (SCCIC) located at California State University, Fullerton and the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government. The report will document all monitoring efforts and the NAM and be completed within 60 days of conclusion of all ground-disturbing activities. The disposition of the resources shall be subject to approval by the City. If resources are discovered, work may proceed in other areas of the site, subject to the direction of the Archaeologist or NAM.

MM TCR-2 In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found within the Project site, the County Coroner shall be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains, and no less than 150 feet from the discovery, shall occur until the County Coroner has determined, within two working days of notification of the discovery, the appropriate treatment and disposition of the human remains. To prevent any further disturbance, the remains shall be kept confidential and secure until treatment is complete. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she shall contact, by telephone the Native American Heritage Commission (NAHC) in Sacramento within 24 hours, and California Public Resources Code (PRC), Section 5097.98 shall be followed. In accordance with PRC 5097.98, the NAHC must immediately notify those persons it believes to be the most likely descendant (MLD) of the deceased Native American. Funerary objects, called associated grave goods in PRC 5097.98, are also to be treated according to this statute. The MLD shall complete his/her inspection within 48 hours of being granted access to the site. The designated MLD shall then determine, in consultation with the property owner, the disposition of the human remains. It is then at the MLD's discretion which Tribal entities are consulted with regarding the treatment of human remains.

SECTION 2.0 ENVIRONMENTAL SETTING

2.1 PROJECT LOCATION

The Project site is located in the City at 586 North Garfield Avenue, as shown on Exhibit 2-1, Regional Location and Local Vicinity Map. The existing Garfield Well is located on the western side of Villa Parke (Park), approximately 575 feet north and 230 feet east of the intersection of Garfield Avenue and East Villa Street. The proposed Garfield Replacement Well would be located approximately 165 feet due east of Garfield Avenue and approximately 100 feet northwest of the existing Garfield Well, as shown on Exhibit 2-2, Project Site Plan.

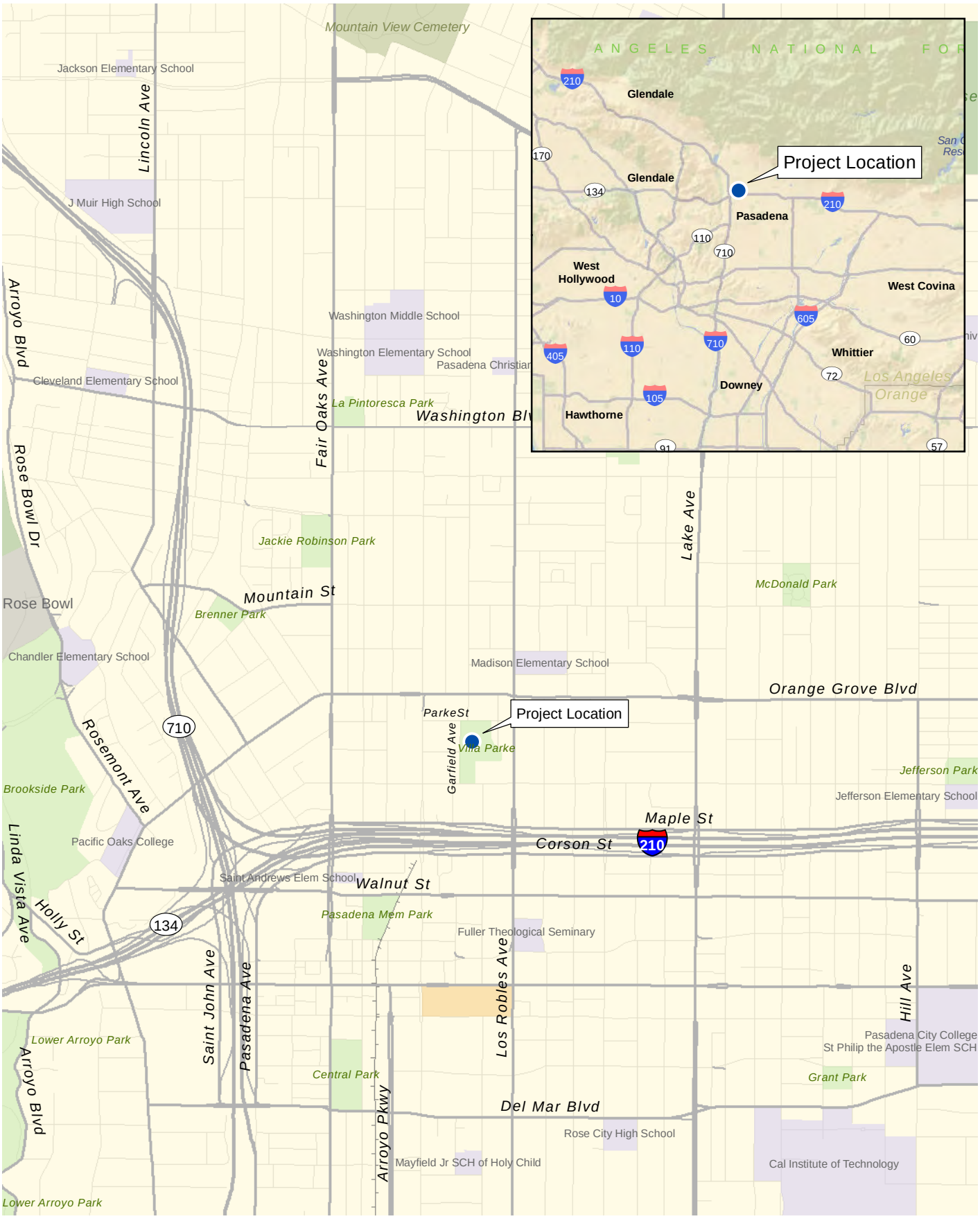
The Project site can be accessed via State Route (SR) 134 by exiting Fair Oaks Avenue and traveling northward for approximately 0.2 mile to turn right on East Villa Street and continuing eastward for approximately 0.37 mile. North of the intersection of East Villa Street and Garfield Avenue, the Project site is accessed from an access road to Villa Parke from Garfield Avenue.

2.2 PROJECT BACKGROUND AND NEED

The City of Pasadena Water and Power Department (PWP) currently imports approximately 65 percent of the potable water for the City from the Metropolitan Water District of Southern California (MWD) as a member agency. MWD imports water from the Sacramento-San Joaquin Delta (Delta) via the State Water Project (SWP) and from the Colorado River Aqueduct (CRA). Approximately 35 percent of the City's potable water is supplied from Raymond Groundwater Basin groundwater (PWP 2020a). A minimal, varying portion of potable water is purchased from neighboring water agencies, which includes a combination of surface and groundwater.

Two recent, substantial droughts (from 2006 to 2008 and 2011 to 2018) have significantly impacted water resources within the State of California and the City of Pasadena. These droughts, combined with the Colorado River Basin's own historic drought, caused MWD to reduce the water allocations to its member agencies in response to State requirements which contributed to increased regulations for water use and groundwater management throughout the State. In addition to water supply concerns, PWP must address aging and inactive water infrastructure in order to meet its needs within the City (PWP 2020a).

PWP owns two wells in Villa Parke, where the Project is located: Garfield Well and Villa Well. The existing Garfield Well was drilled and constructed in 1921 and has reached the end of its useful service life and has been inactive due to age and contamination (PWP 2020a). Villa Well was drilled and constructed in 1925 and has also reached the end of its useful service life and has also been inactive. To maintain source capacity for potable water from City groundwater and from the inactive Garfield Well, PWP proposes the Garfield Replacement Well. The Garfield Well is an existing permitted water supply well with associated facilities (i.e., pump house, piping, electrical) to convey drinking water to the distribution system. Prior to decommissioning, the existing Garfield Well had an average production capacity of 1,417 gallons per minute (gpm) (Wood Rodgers 2020). The existing Garfield Well was decommissioned in December 2020, although its electrical components and building would be used for the proposed Project.



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Regional Location and Local Vicinity

Exhibit 2-1

Garfield Replacement Well Project

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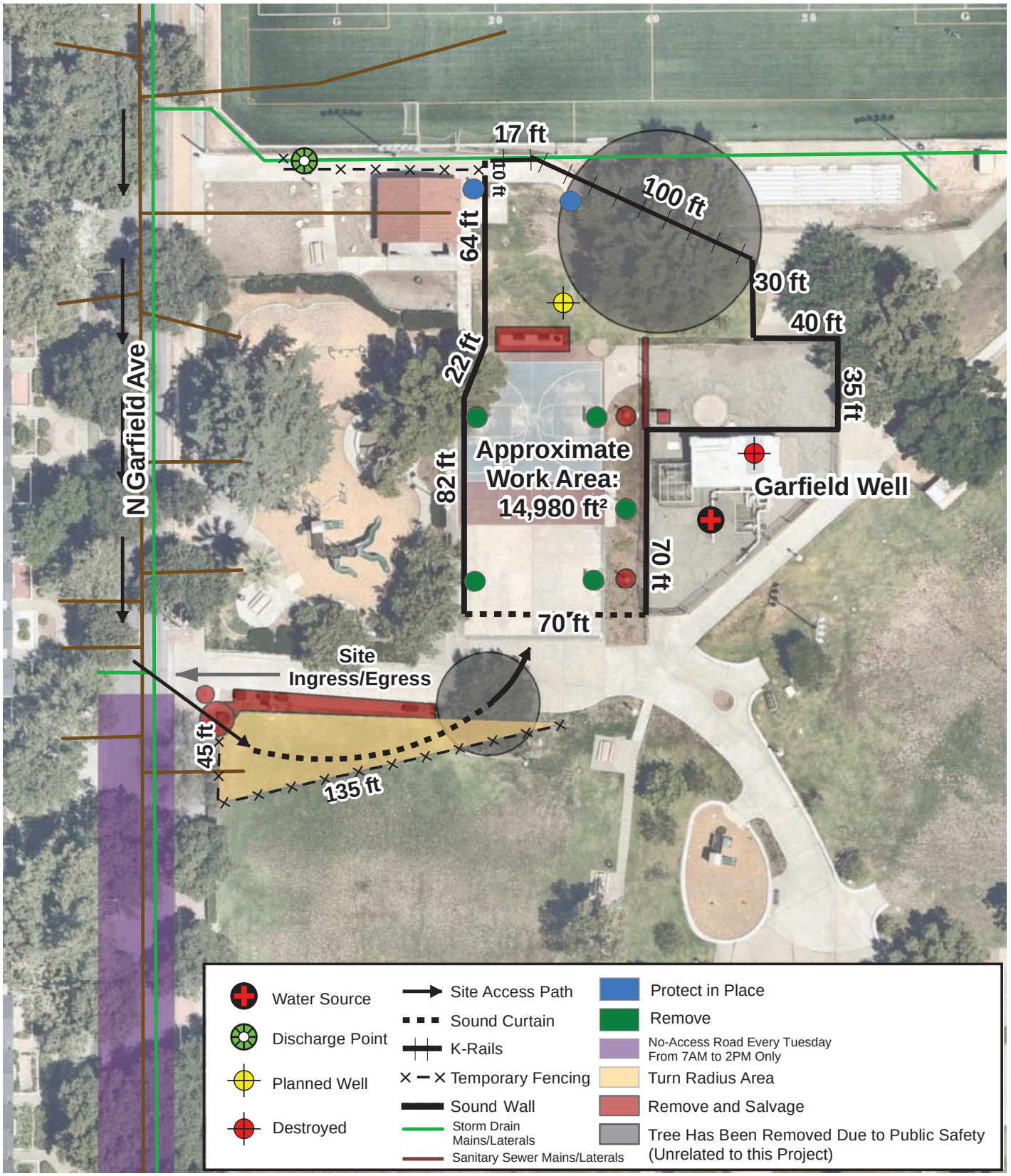

Source: Wood Rodgers 2021

Project Site Plan

Exhibit 2-2

Garfield Replacement Well Project

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2.3 EXISTING CONDITIONS

2.3.1 LAND USE

The Project site is zoned as Open Space (OS) in the City's Zoning Map and designated as Park in the City's Land Use Plan diagram (City of Pasadena 2020, 2016). The Park is owned, operated, and maintained by the City. The Park is approximately eight acres with a mostly flat ground surface that gently slopes to the south. The Park facilities include playground equipment, basketball courts, and grass on the western side; a soccer field complex on the north side; a softball diamond in the central east portion; a swimming pool and Villa Parke Community Center in the southern portion; and picnic areas scattered throughout the Park. The existing Garfield Well is located in the northwestern portion of the Park and is housed inside a building and fenced enclosure. The Project site is immediately surrounded by a children's playground, basketball courts, and a restroom facility to the west; soccer field to the north; baseball field to the east; and grassy open area to the south. The Villa Well is located on the southern edge of the Park and is in a below-grade vault in the concrete sidewalk in front of the existing Villa Parke Community Center entrance. The Park is surrounded by residential neighborhoods on all four sides.

The proposed Garfield Replacement Well site is located in the vicinity of the existing Garfield Well and is currently unpaved and consists of grassy, passive open space area that consists of two park benches.

2.3.2 GROUNDWATER QUALITY

The Raymond Groundwater Basin has a semi-confined to unconfined aquifer system (i.e., groundwater is not separated from the ground surface by impermeable geologic materials) due to the absence of widespread or laterally continuous confining layers. Holocene alluvium generally forms alluvial fans along the San Gabriel Mountains and stream deposits that follow the course of the major streams and rivers across the valley. This young alluvium provides a highly permeable connection between the surface and the underlying aquifers. The groundwater gradient in the Raymond Groundwater Basin is primarily from north to south, from areas of recharge at the base of the San Gabriel Mountains to areas of discharge along the Raymond Fault. At the Project site, the prevailing direction of groundwater flow is to the southeast (Wood Rodgers 2020).

Non-point source constituents of concern within groundwater of the Pasadena Subarea include total dissolved solids (TDS), fluoride, and radionuclides. Additionally, the Raymond Groundwater Basin is known to have water quality impairments stemming from anthropogenic contaminants associated with local industry, automobile gas stations, repair shops, and underground storage tanks. These impairments include perchlorate, nitrate (as N), and various volatile organic compounds (VOCs).

Historical groundwater quality data was evaluated with respect to State and federal drinking water requirements. Water quality data reviewed from surrounding municipal water supply wells suggest that perchlorate, nitrate (as N), TDS, and trichloroethylene (TCE) are the primary constituents of concern detected in groundwater produced from the nearby Garfield and Villa Wells; however, concentrations of these constituents have historically been near or below their respective State Water Resources Control Board, Division of Drinking Water (DDW) Maximum Contaminant Levels (MCLs), with few instances of MCL exceedances (Wood Rodgers 2020). As stated, groundwater in the vicinity of the Garfield and Villa Wells has been primarily impacted by perchlorate and nitrate (as N) contamination but appear to have not been impacted by VOC contamination. Perchlorate is an inorganic compound that is not known to naturally occur in the subsurface. It originates in the environment as a contaminant because of waste discharge from the manufacturing or testing

of solid rocket fuels. Perchlorate is highly soluble in groundwater and has been detected in the Garfield Well. Detections of perchlorate at the Garfield Well may be associated with the Superfund site that exists at the Jet Propulsion Laboratories (JPL), located northwest of the Project site. The DDW has established a primary MCL of 6 micrograms per liter (µg/L) for perchlorate. The most recent data available for the Garfield Well (2017) indicated that perchlorate was not detected in in the groundwater (Wood Rodgers 2020).

Nitrate is an inorganic compound and an anthropogenic contaminant, which does not often occur naturally in the subsurface. Elevated concentrations of nitrate are found throughout the Raymond Groundwater Basin, including in the Pasadena area, and are introduced into shallow aquifers through applied fertilizer, leaky sewer systems, septic systems, animal impoundments, and other activities. DDW has established a primary MCL of 10 mg/L for nitrate (as N). The Garfield Well has no reported exceedances of the DDW MCL (Wood Rodgers 2020).

TDS in groundwater is a direct measurement of the concentration of dissolved solids in the water, such as minerals and salts, metals, and cations or anions (i.e., calcium, potassium, sodium, chlorides). TDS is regulated by a secondary MCL, where elevated concentrations can affect the taste of water and can lead to the formation of residues and corrosion of water fixtures. DDW has established a recommended secondary MCL of 500 milligrams per liter (mg/L), an upper threshold of 1,000 mg/L, and a short-term MCL of 1,500 mg/L. TDS concentrations reported in the Garfield Well have largely remained below the secondary MCL since the groundwater at Garfield Well has been tested for TDS. The Garfield Well exhibits the lowest TDS concentrations of the selected PWP wells, with the most recent TDS measurement of 300 mg/L in 2017 (Wood Rodgers 2020).

2.3.3 UTILITIES

PWP owns and maintains a six-inch potable waterline in Garfield Avenue, and a 12-inch water transmission line that conveys water pumped from the Garfield Well to the Sunset Reservoir. The City of Pasadena Department of Public Works is responsible for the operation and maintenance of the City's sewer collection and pumping facilities. An eight-inch sanitary sewer main is located in Garfield Avenue. The sanitary main and laterals are shown on Exhibit 2-2. The Los Angeles County Flood Control District (LACFCD) has a 42-inch storm drain main line in Garfield Avenue, as depicted on Exhibit 2-2. A storm drain lateral north of the existing Garfield Well site is routed east to west through the Park and collects runoff from the soccer field and park facilities and directs the drainage water into LACFCD's storm drain main line in Garfield Avenue. Southern California Gas (SoCalGas) provides natural gas to the area and owns and operates a four-inch gas transmission line in Garfield Avenue. PWP provides power to the area with power poles and overhead lines located along the eastern edge of Garfield Avenue. The Park has underground electrical utilities to the existing Garfield Well, the restroom facilities northwest of the proposed Garfield Replacement Well location, and the soccer field to the north of the Project site.

2.4 CEQA REVIEW PROCESS

This IS/MND has been prepared to analyze the impacts associated with construction and operation of the proposed Project. The City of Pasadena is the Lead Agency for the CEQA environmental review process and has submitted this IS/MND to responsible and trustee agencies, as well as other potentially affected agencies. A Notice of Intent to Adopt an MND (NOI) was sent to the Los Angeles County Registrar-Recorder/County Clerk. Additionally, the IS/MND and technical appendices along with the NOI were submitted electronically to the State Clearinghouse. The NOI has been distributed to the last known name and address of all organizations and individuals who have previously requested such notice in writing and residences within a 500-foot radius of the Project site. The NOI was posted at Villa Parke, within close proximity to the Project site. Additionally, PWP presented the Project to the City's

Recreation and Parks Commission on November 10, 2020, and met with the City's Parks, Recreation, and Community Services Department on November 16, 2020, to discuss measures to minimize impacts to the Villa Parke Community Center programs. PWP initiated community outreach by meeting with the Pasadena Villa Marengo Homeowner's Association in 2019 and 2020 and provided updates in 2021 via email. PWP discussed the proposed Project with District Liaisons from Districts 1, 3, and 5 on January 20, 2021, and with the District 5 Liaison and the field representative to the Mayor on April 22, 2021.

In accordance with Section 15073 of the State CEQA Guidelines, a Negative Declaration (ND) or MND must be subject to a 30-day public review period when submitted to the State Clearinghouse for review by State agencies. Accordingly, the public review period for this IS/MND has been set from June 21, 2021 to July 20, 2021.

The IS/MND and associated technical reports can be viewed online at https://www.PWPweb.com/GarfieldWell or in-person at the PWP office (150 South Los Robles Avenue, Suite 200, Pasadena, CA 91101) during regular business hours and by appointment. An appointment for viewing the hardcopy may be requested by e-mail to Sandra Andrade-Hernandez at sandrade-hernandez@cityofpasadena.net. In reviewing the IS/MND, the reviewer should focus on the sufficiency of the document in identifying and analyzing the potential impacts on the environment and ways in which the Project's potentially significant effects are avoided or mitigated. Comments should be sent in writing and postmarked by July 20, 2021, by mail or email to Ms. Sandra Andrade-Hernandez of the City of Pasadena at the address below.

City of Pasadena
Water and Power Department
150 South Los Robles Avenue, Suite 200
Pasadena, California 91101-4613
Attn: Sandra Andrade-Hernandez
phone: (626) 744-4189
email: sandrade-hernandez@cityofpasadena.net

In accordance with Section 15074 of the State CEQA Guidelines, prior to approving the Project, Pasadena City Council will consider the IS/MND together with any comments received during the public review period. The City will adopt the IS/MND only if it finds that there is no substantial evidence in the record that the Project will have a significant adverse effect on the environment and that the IS/MND reflects the independent judgment and analysis of the City. A Notice of Determination (NOD) will be filed with the County Clerk and the State Clearinghouse after adoption of the MND.

SECTION 3.0 PROJECT DESCRIPTION

Information for this Project Description is based primarily on the Garfield Replacement Well Design Final Report, prepared by Wood Rodgers for PWP, dated October 2020, included in Appendix A of this IS/MND and information provided by PWP staff.

3.1 PROJECT COMPONENTS

3.1.1 GARFIELD REPLACEMENT WELL

The Project would replace an existing but inactive potable water supply well within the City to maintain source capacity of potable water within the City. The proposed Project involves construction of a new potable water well, herein referred to as the Garfield Replacement Well, proposed well, or Project. The Garfield Replacement Well would replace the existing Garfield Well. Exhibit 2-2 shows the location of the Project and surrounding infrastructure associated with the proposed well. The Garfield Replacement Well would be constructed approximately 100 feet northwest of the existing Garfield Well. The existing Garfield Well was decommissioned in December of 2020 by being filled with concrete. However, the existing building of the Garfield Well would remain and would not be demolished as part of the Project. Existing electrical components of the Garfield Well would be replaced for construction and operation of the Project.

The Project proposes replacement of the existing well with a submersible potable water pump supply well. The proposed well is anticipated to reach an approximate depth of 950 feet below grade surface (bgs) and would be capable of producing 1,500 gallons per minute (gpm) of water. The Garfield Replacement Well would be designed to pump to the future Sunset Complex, which would replace PWP's Sunset Reservoir with new storage tanks and include treatment systems for removing perchlorate and VOCs and plans for future treatment of nitrate removal. It would be located on a 2-foot-tall concrete block with a width and length of 4 feet (16 sf), with a submersible pump located 350 feet bgs. Use of a submersible pump for the Project would ensure that minimal detectable level of sound would result from operation of the well, and therefore, the Project would not require an enclosure around the well to minimize sound during operation of the well. The existing Garfield Well's building enclosure would remain, to be used for the electrical equipment necessary for the proposed well. A chain-link fence of 10 feet by 15 feet (150 sf) would be constructed around the well pump for security and safety purposes.

3.2 PROJECT CONSTRUCTION

Implementation of the Project is anticipated to require approximately 9 months of construction activities. Construction of the Project is anticipated to begin in June 2021 and occur over two phases: Phase 1, Well Drilling Activities, and Phase 2, Above-Grade Improvements. Construction of the Project would generally occur 6 days a week, during the following days and times: Monday through Friday, from 7 AM to 7 PM, and Saturday, from 8 AM to 5 PM, excluding holidays. However, during Phase 1 activities for well drilling, well construction, and well development, construction would be required for 24 hours a day, 7 days a week, due to potential well collapse if the drilling and construction is not continuous. These 24-hour/7 days a week activities would occur for five weeks total during Phase 1 and are exempt from the City's noise ordinance pursuant to Pasadena Municipal Code (PMC) Section 9.36.170.A.[1] However, well drilling, construction, and

[1] A waiver from City construction hour limits was issued by the City Manager for the Project on May 19, 2021. The City Manager is authorized to exempt construction from those limits imposed by PMC Section 9.36.070, Construction Projects, if the construction serves the best interests of the public and protects the public health, safety, and welfare pursuant to PMC Section 9.36.170, Exemptions.

development activities would not occur for five weeks sequentially; there would be a 14 to 21-day hiatus in between activities for water quality analysis and final well design.

It is anticipated that there would be up to five workers on-site during Project construction. Designated work and staging areas would be fenced to prevent safety hazards and deter vandalism and theft. The work and staging area for the Project would occur in an area of approximately 14,980 square feet (sf), between the soccer field to the north, the existing Garfield Well to the east, open space to the south, and a children's play area and public restroom facility to the west, as depicted on Exhibit 2-2. This work and staging area would be closed to the public during construction of the Project. An existing access road would be used by workers and trucks from North Garfield Avenue. This access road is located south of the existing children's play area and is a one-lane access road. As a result, an area south of the existing access road would be used to provide a turning radius area for trucks and vehicles entering the Project site. This would require use of a 3,000-sf area of open space within the Park to accommodate the turn-radius for worker vehicles and trucks.

As part of the Project, some existing Park facilities or features may be temporarily unavailable during construction. For example, this may include park benches, chain-link fencing, trash cans, and other Park features, as shown on Exhibit 2-2. During construction, use of the existing basketball courts would be unavailable as the basketball courts would be within the work/staging area of the Project site. An area of approximately 9,000 sf of turf would be destroyed during construction as equipment vehicles enter or exit the Project site. This area includes the 3,000-sf area, south of the access road entering the site (described above), and 6,000-sf of turf surrounding the proposed well location. Additionally, shrubs within the Project work areas may be removed to accommodate site movement. Plants, grass, and other affected areas would be restored after the main construction activities have been completed. No trees would be removed or replaced during construction; trees would be protected in place. Additionally, no tree branches or tree roots would be trimmed or disturbed as a result of the Project. The nearest Project feature to a tree would be a 24-foot sound wall during construction of the Project (per MM NOI-2a), which would be located a minimum of 6 feet from any tree roots.

Construction workers, equipment delivery vehicles, and haul trucks are expected to access the site via the I-210 or SR-134 at the Fair Oaks or Lake Avenue off-ramps. Trucks would access the site using Fair Oaks Avenue or Lake Avenue exits and designated roadways, in accordance with the PMC Section 10.52, Truck Routes.

Construction activities, including the approximate durations of each phase, length of activity, projected equipment, and hauling truckloads are detailed in Table 3-1, Construction Activity Assumptions.

TABLE 3-1
CONSTRUCTION ACTIVITY ASSUMPTIONS

Project Phase	Approximate Duration	Hours and days of construction	Equipment in Use	Number of Hauling Truckloads (one-way trips per phase)
PHASE 1—WELL DRILLING ACTIVITIES				
Site Preparation and Mobilization	2 weeks	8 hours/day; 6 days/week	Backhoe, semi-truck with trailers, drill rig mobilization, crane or gradall, worker trucks	0
Well Drilling (pilot borehole drilling, temporary zone construction and sampling of four zones)	2 weeks	24 hours/day; 7 days/week	Drilling rig, air compressor, trash pumps, vacuum trucks, gradall	16
Water Quality Analysis and Final Well Design	14 to 21 days	None	None	0
Well Drilling (continued) (borehole reaming)	1 week	24 hours/day; 7 days/week	Drilling rig, air compressor, trash pumps, vacuum trucks, gradall	0
Well Construction (Well casing and gravel installation)	5 days	24 hours/day; 7 days/week	Drilling rig, semi-truck with trailers (material delivery), trash pumps, backhoe	12
Well Development (Swab/airlift well development)	5 days	24 hours/day; 7 days/week	Drilling rig, air compressor, vacuum truck, pump rig with trailer, diesel engine to operate test pump	28
Well Testing and Sampling	5 days	8 hours/day; 6 days/week	Pump rig with trailer, diesel engine to operate test pump	0
Demobilization	1 week	8 hours/day; 6 days/week	Semi-trucks with trailers (for pickup of sound walls, temporary facilities, mud tanks), crane or gradall	0
Site Restoration and Cleanup	2 weeks	8 hours/day; 6 days/week	Backhoe, crane or gradall, worker trucks	0
PHASE 2—ABOVE-GRADE IMPROVEMENTS				
Above-grade Well Improvement Design Process	9 months	None	None	0
Construction of Above-grade Improvements	6 months	8 hours/day; 6 days/week	Crane, backhoe, support trucks	0

Source: Information provided by PWP 2020.

Phase 1—Well Drilling Activities

Phase 1 would include well drilling activities and would occur over a period of approximately three months. Specifically, Phase 1 would include the following construction activities: site preparation and mobilization, well drilling, water quality analysis and final well design, well construction, well development, well testing and sampling, demobilization and site restoration and clean up.

During well drilling and well construction activities of Phase 1, two liquid storage tanks, with 20,000-gallon capacities, would be placed on-site to contain drill cuttings and fluids (i.e., groundwater). The fluids would be hauled off-site in vacuum trucks with a 5,000-gallon capacity, over 8 round truck trips, or 16 one-way trips. The drill cuttings would be exported separately from the fluids. The drill cuttings would amount to 202 cubic yards (cy) of export and would be exported off-site over 24 one-way trips during well construction and well development activities.

During Phase 1, to better understand the depth-specific water quality of the underlying aquifers, a pilot borehole would be drilled to obtain lithology and borehole geophysics, followed by collection of groundwater samples from four discrete aquifer zones through a process called isolated aquifer zone sampling to confirm water quality. The pilot borehole for the well would be a minimum 17.5-inch diameter and drilled using the reverse circulation rotary drilling method. It is anticipated that the pilot borehole would extend to a depth of approximately 950 feet bgs, which is estimated to be the top of the underlying granitic bedrock. Based on water quality data obtained from the isolated aquifer zone sampling, the design of the well would be finalized. Upon confirmation of the well design, the pilot borehole would be enlarged to diameters of 34 inches and 30 inches to accommodate the well casing, screen, and the ancillary tubing. There is sufficient data available for aquifer properties and groundwater quality to prepare a design for the proposed well. However, isolated aquifer zone sampling is recommended to verify the water quality of target aquifers, since perchlorate and nitrate (as N) contamination has been documented in the area, as described in Section 2.3.2, Groundwater Quality. The anticipated design for the planned Garfield Replacement Well would target the Older Alluvium, with well screen intervals between 400 feet and 950 feet, similar to that of the existing Garfield Well. The final design and well screen placement would be determined based on aquifer material and water quality data after drilling of the well.

Gas, cable, water, and telephone utilities may exist in the subsurface in the vicinity of the Garfield Replacement Well site. Therefore, prior to drilling, an Underground Service Alert ticket will be requested by the contractor to clear the proposed Garfield Replacement Well location of underground utilities.

Phase 2—Above-Grade Improvements

As part of Phase 2, details for the above-grade improvements to equip the well will be designed after well drilling construction activities. In order to extend the life expectancy of the proposed well and to improve the quality of its service life, it is anticipated that all well components that are saturated would be constructed of American Society for Testing and Materials (ASTM) A-78 Type 304L stainless steel materials.

Phase 2 would begin with an above-grade well improvement design process for approximately 9 months, during which no construction would occur. Then, as part of Phase 2, 6 months of construction would be required for above-grade improvements to the proposed well. Construction for the above-grade well improvements would include installation of a submersible pump, motor, miscellaneous equipment, discharge piping, electrical upgrades, and fencing.

Long-Term Operations

The Garfield Replacement Well would be operational for 24 hours a day in order to supply potable water. After construction of the Project, sampling and testing of the water would be required to determine the possibility of potable water usage immediately following completion of construction activities. As a separate project, PWP is replacing the existing Sunset Reservoir within the City of Pasadena with new storage tanks and including treatment systems (Sunset Complex) for removing perchlorate and VOC, and provisions for future treatment of nitrate. As such, prior to pumping Project water to the Sunset Complex, there is a possibility that the water could be used for in-line blending for drinking water or for irrigation purposes at the Park. However, ultimately, water from the Project would be pumped to the Sunset Reservoir to be used as potable water. The Project would have an approximate depth of 950 bgs and would be capable of producing 1,500 gpm of water. The proposed well would have an anticipated electrical consumption of approximately 1,397,880 kilowatt hours per year (kWh/yr). The existing Garfield Well building and chain-link fence would remain in place with implementation of the Project. The proposed well would be located north of the existing basketball courts, northwest of the existing Garfield Well, south of the soccer field, and east of the children's play area. As stated above under Section 3.1.1, use of a submersible pump for the Project would ensure that minimal detectable level of sound would result from Project implementation, and therefore, the Project would not require an enclosure to minimize sound. Future operations would require routine maintenance visits to the proposed well. Operation of the proposed well is expected to require one daily maintenance visit.

3.3 AGENCY APPROVALS AND PERMITS

This IS/MND is intended to serve as the primary environmental document, pursuant to CEQA, for the Garfield Replacement Well Project, including discretionary approvals requested or required to implement the Project. In addition, this is the primary reference document for the formulation and implementation of a mitigation monitoring program for the Project.

As the Lead Agency, Pasadena City Council may adopt the IS/MND if they find, on the basis of the whole record, that there is no substantial evidence that the Project would have a significant effect on the environment.

Table 3-2, Agency Approvals and Requirements lists all the agencies that are known or expected to have permit or approval authority over the Project. Moreover, this IS/MND covers all federal, State, local government, and quasi-government approvals that may be needed to construct, implement, or operate the Project, whether or not they are specifically identified in Table 3-2 or elsewhere in this IS/MND.

TABLE 3-2
AGENCY APPROVALS AND REQUIREMENTS

Agency	Approval/Permit Required	Purpose
City of Pasadena	Project approval	Approve the proposed Project and allocate City funds.
	Other approval to convey interest	Allow with City of Pasadena Parks, Recreation and Community Services and City of Pasadena Public Works as needed to construct and/or implement Project.
	Well Permit	Allow for well construction.
	Waiver for City construction hour limits	Allow for construction to occur outside of Pasadena Municipal Code Section 9.36.070 allowable hours for construction within 500 feet of residences.
State Water Resources Control Board, Division of Drinking Water (DDW)	Permit Amendment Application	Allow for well construction for public drinking water systems. Waiver request for minimum offset from storm drain feature.
Raymond Basin Management Board (RBMB)	Notify	The PWP must notify RBMB of estimated and actual extracted groundwater quantities associated with this well.
Los Angeles County Department of Public Works (LACDPW), Los Angeles County Flood Control district (LACFCD), City of Pasadena Department of Public Works (PPW), and Los Angeles Regional Water Quality Control Board (RWQCB)	Notify	To cover the discharges from drilling of the Garfield Replacement Well.

SECTION 4.0 ENVIRONMENTAL ASSESSMENT

This section includes the completed CEQA Environmental Checklist Form, as provided in Appendix G of the State CEQA Guidelines, as well as substantiation and clarification for each checklist response. The checklist form is used to assist in evaluating the potential environmental impacts of the Garfield Replacement Well Project and identifies whether the Project is expected to have potentially significant adverse impacts.

1. **Project Title:** Garfield Replacement Well Project

2. **Lead Agency Name and Address:** City of Pasadena
   Water and Power Department
   150 South Los Robles Avenue, Suite 200
   Pasadena California 91101-4613

3. **Contact Person and Phone Number:** Sandra Andrade-Hernandez
   (626) 744-4189

4. **Project Location:** At Villa Parke in the City of Pasadena, 586 North Garfield Avenue in Pasadena, Los Angeles County, California 91101

5. **Project Sponsor's Name and Address:** City of Pasadena
   Pasadena Water and Power
   150 South Los Robles Avenue, Suite 200
   Pasadena, California 91101

6. **General Plan Designation:** Park

7. **Zoning:** OS (Open Space)

8. **Description of Project:** The proposed Project includes the installation of a replacement potable water supply well (Garfield Replacement Well) that consists of drilling a well to an approximate depth of 950 feet below grade surface, capable of producing 1,500 gallons of water per minute. The existing Garfield Well building and fence area will remain in place and used for the above ground equipment needed for the new well.

9. **Surrounding land uses and setting:** The Project site is surrounded by residential and park uses.

10. **Other public agencies whose approval is required:** State Water Resources Control Board, Division of Drinking Water (DDW).

11. **Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, has consultation begun?** Yes, one tribe has requested government-to-government consultation and consultation has begun.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this Project, involving at least one impact that requires mitigation, as indicated on the following pages.

- ☐ Aesthetics
- ☐ Air Quality
- ☒ Cultural Resources
- ☒ Geology and Soils
- ☒ Hazards and Hazardous Materials
- ☐ Land Use and Planning
- ☒ Noise
- ☐ Public Services
- ☐ Transportation
- ☐ Utilities and Service Systems
- ☒ Mandatory Findings of Significance
- ☐ Agriculture and Forest Resources
- ☒ Biological Resources
- ☐ Energy
- ☐ Greenhouse Gas Emissions
- ☐ Hydrology and Water Quality
- ☐ Mineral Resources
- ☐ Population and Housing
- ☒ Recreation
- ☒ Tribal Cultural Resources
- ☐ Wildfire

DETERMINATION:

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Michele Carina
Signature of Lead Agency Representative

6/16/2021
Date

Michele Carina
Printed name

City of Pasadena
Water and Power Department
Agency

Negative Declaration/Mitigated Negative Declaration adopted on: _____

Adoption attested to by: _____ _____
Printed name/Signature Date

EVALUATION OF ENVIRONMENTAL IMPACTS:

1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact' is appropriate if there is substantial evidence that an effect is significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Unless Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less than Significant Impact." The Lead Agency must describe the mitigation measures and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section 21, "Earlier Analysis," may be cross-referenced).

5) Earlier analysis may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. See CEQA Guidelines Section 15063(c)(3)(D). Earlier analyses are discussed in Section 21 at the end of the checklist.

   a) Earlier Analysis Used. Identify and state where they are available for review.

   b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.

   c) Mitigation Measures. For effects that are "less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier documents and the extent to which address site-specific conditions for the project.

6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

8) The explanation of each issue should identify:

   a) The significance criteria or threshold, if any, used to evaluate each question; and

   b) The mitigation measure identified, if any, to reduce the impact to less than significant

4.1 AESTHETICS	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the project:				
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

4.1.1 EXISTING CONDITIONS

Visual Character

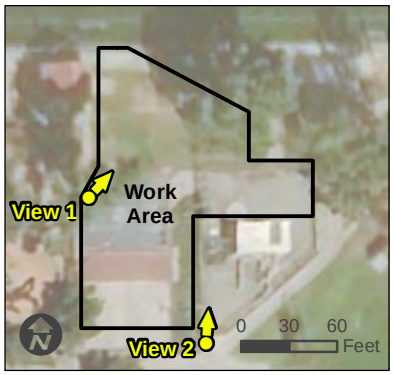
The Project site is in an area that offers distant views of the San Gabriel Mountains. The Project site is predominantly an open space area that features improved (mostly passive) recreational areas. The construction staging area would be located on basketball courts and in between surrounding park and recreational uses, including a children's play area to the west, soccer field to the north, softball diamond to the east, and open field space to the south. An access road extends east from the western edge of Villa Parke between open space to the south and a children's playground to the west.

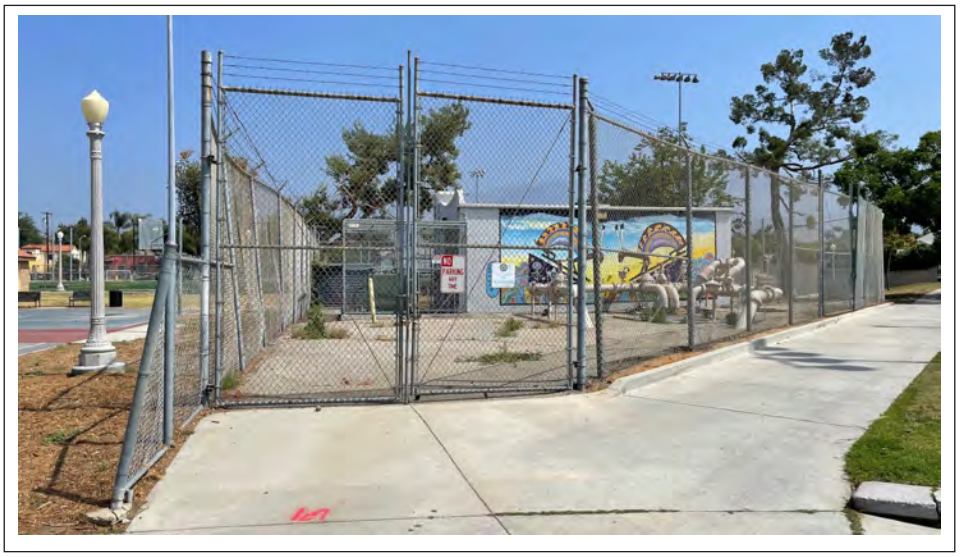
Due to the surrounding aboveground structures, public views of the Project site are confined to viewers on nearby roads and Park users. These viewers include motorists and bicyclists on the surrounding roadways and maintenance personnel and public service responders within the Park. Residents on North Garfield Avenue and Parke Street may also have private views of the site.

Exhibits 4-1a through 4-1c, Site Photos, depict six photo locations/views of the Project site. The following descriptions provide aesthetic context at each of the photo locations:

- Exhibit 4-1a, Site Photos—Locations 1 and 2. View 1 is from the western boundary of the Project work area. In the foreground, a partial view of an existing basketball courts is visible. Chain-link fencing outside the Garfield Well and adjacent to the basketball courts' western edge is visible. Park benches and a trash can are in front of the proposed well location. Scattered mature trees and grass areas are visible, with views of the Park soccer field shown in the background. Distant views of the San Gabriel Mountains are visible from this location. View 2 is from south of the existing Garfield Well enclosure. This view shows the chain-link fence and the existing well enclosure building. An artistic mural on the enclosure building is visible. Concrete access areas are in the forefront of this view. Distant, scattered trees and light poles are in the background.
- Exhibit 4-1b, Site Photos—Locations 3 and 4. View 3 is from the northwestern boundary of the Project work area, providing a southern view of the site. In the foreground, scattered

View 1





View 2

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Site Photos – Locations 1 and 2

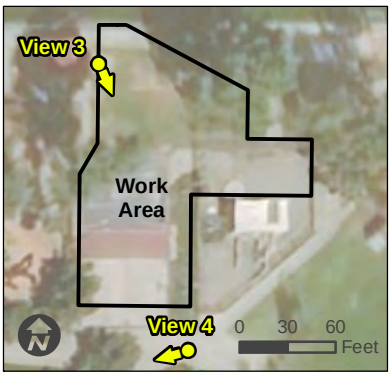
Exhibit 4-1a

Garfield Replacement Well Project

PSOMAS

(06/08/2021 MDM) R:\Projects\PAS_Pasaden\3PAS013400\Graphics\ex_SitePhotos.pdf

View 3



View 4

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Site Photos – Locations 3 and 4

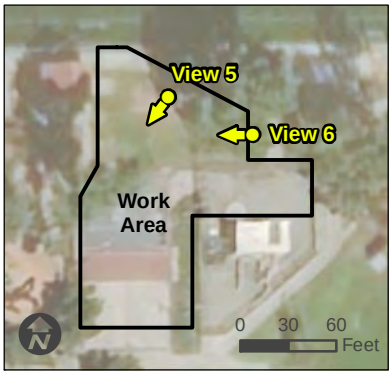
Exhibit 4-1b

Garfield Replacement Well Project

PSOMAS

(06/08/2021 MDM) R:\Projects\PAS_Pasaden\3PAS013400\Graphics\ex_SitePhotos.pdf

View 5



View 6

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Site Photos – Locations 5 and 6

Exhibit 4-1c

Garfield Replacement Well Project

PSOMAS

(06/08/2021 MDM) R:\Projects\PAS_Pasaden\3PAS013400\Graphics\ex_SitePhotos.pdf

grass, concrete areas, and lamp posts are visible. This view also depicts a grassy area where the well would be located. In the middle ground, the existing Garfield Well building and enclosure is shown, as well as the existing basketball courts, which would be used as a work area during construction of the Project. View 4 is from south of the Project's work area towards the existing park facilities and access road, towards the west. This area would be used to access the site and to provide a turn radius for trucks entering the Project site. Views of scattered mature trees and residences are depicted in the background.

- Exhibit 4-1c, Site Photos—Locations 5 and 6. View 5 is from the Project's northeastern work area boundary. This view shows a patchy grass area, the future site of the proposed well, park benches, a trash receptable, and the existing Park basketball courts. Views of the children's play area are visible from this location, with the chain-link fence providing a barrier between the children's play area and basketball courts. Mature trees and residences are shown in the background. View 6 is a view from north of the existing Garfield Well chain-link fence, looking west. From this view, the restroom facility, scattered grass, and the existing basketball courts are visible in the background. The children's play area, mature trees, and residences are in the background.

Scenic Resources

The California Department of Transportation (Caltrans) manages the State Scenic Highway Program, which includes several freeways and highways as "Officially Designated Scenic Highways" or "Eligible State Scenic Highways". The nearest Officially Designated Scenic Highway to the Project site is SR-2, which runs through the San Gabriel Mountains from I-210 in La Cañada Flintridge to the San Bernardino County line (Caltrans 2019). SR-2 is located approximately 5.5 miles northwest of the Project site at its nearest point but does not have views of the Project site due to distance and intervening buildings, slopes, and vegetation.

The California Scenic Highway Program also designates I-210 as an Eligible Scenic Highway from I-5 to SR-134 (Caltrans 2019). I-210 is located approximately 0.77-mile west of the Project site at its nearest point but does not have views of the Project site due to distance and intervening buildings, slopes, and vegetation.

4.1.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project have a substantial adverse effect on a scenic vista?

No Impact.

A scenic vista is defined as a viewpoint that provides panoramic or focused views of a highly valued landscape or scenic resource for the benefit of the general public. The Environmental Impact Report (EIR) for the Pasadena General Plan provides the following description of the existing scenic features and visual resources in the City: "The City of Pasadena affords a variety of views of scenic landscapes and built environments. The San Gabriel Mountains, near the north City boundary, dominate the skyline from most of the City. The San Rafael Hills are along the western City boundary, and the Verdugo Mountains are further to the west. In addition, the Arroyo Seco corridor and Eaton Canyon traverse the western and eastern portions of the City, respectively. The City also offers scenic views of distinct architecture in the built environment, such as the Old Pasadena Historic District, Pasadena City Hall, Castle Green, St. Andrew Catholic Church bell tower, and Bungalow Heaven" (City of Pasadena 2015a).

The Project site is in an urbanized area and is not itself a scenic vista or scenic resource. There are no City-designated Scenic Corridors, and the unofficial Scenic Corridors on Huntington Drive, Highland Drive, and Linda Vista Avenue do not offer views of the Upper Arroyo Seco or the Project site. Distant views of the San Gabriel Mountains are available from certain positions at the Project site, as shown on View 1 of Exhibit 4-1a. The construction of a submersible well and associated chain-link fence and access road, which would be the primary visible Project components, would lead to a minor change in visual character of the Project site. However, the Project would not block views of the San Gabriel Mountains or any other scenic vista in the City. Therefore, given that the Project is not a scenic resource nor is it located within a scenic vista, there would be no impact, and no mitigation is required.

b) Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact.

The Project site is not located within the viewsheds of SR-2 (an Officially Designated Scenic Highway) or I-210 (an Eligible Scenic Highway), and the proposed improvements at the Project site would not be visible from SR-2 or I-210 (Caltrans 2019). Thus, no impacts on scenic resources along these scenic highways would occur.

There are no City-designated Scenic Corridors, and the unofficial Scenic Corridors on Huntington Drive, Highland Drive, and Linda Vista Avenue do not offer views of the Upper Arroyo Seco or the Project site. The Project would not affect unofficial scenic corridors or the City's traditional urban design form and historic character. Thus, there would be no impact on scenic resources at the Project site, and no mitigation is required.

c) Would the project, in non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Less than Significant Impact.

During construction, the visual character of the Project site would be adversely affected by construction activities and the presence of construction equipment and materials. However, this would be a short-term and temporary impact, which would be restored upon completion of construction. Views of the well drilling rig and 24-foot sound walls would be visible for during the Project's nine-month construction duration. During construction, there would be a construction screen surrounding the work area, which would buffer views of the construction equipment. An area of approximately 9,000 sf of turf would be destroyed during construction as equipment vehicles enter or exist the Project site, south of the access road entering the site, and within the immediate site area surrounding the proposed well. After drilling and construction of the well, site restoration and cleanup would occur. This would include restoring plants, including grasses or shrubbery, that may be impacted by construction activities. Additionally, Park equipment that would be removed during construction, including basketball hoops, park benches, and other Park features, would be replaced following completion of construction. Therefore, construction activities would be temporary and would not result in permanent adverse effects to the visual character of the site.

During operation, the Garfield Replacement Well would feature a submersible pump on a 2-foot tall concrete pedestal. The new well site would be contained within an 8-foot high chain-link fence

with an access gate. Access to the site would be from the adjacent roadway and existing driveway leading to the access gate. This view would be compatible and similar to the view of the existing Garfield Well enclosure to the southeast of the proposed well, which would remain in place. In light of compatibility with the existing views, aesthetic impacts related to long-term operation would be negligible and less than significant, and no mitigation is required.

d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less than Significant Impact.

The proposed Project is construction of a replacement well, and as such, it would not result in additional lighting or substantial lighting beyond the present levels at the site that would spill over onto surrounding uses. Additionally, the Project would not include any surfaces that would create glare impacting the surrounding uses or motorists on the adjacent roadways. Therefore, the potential impacts would be less than significant, and no mitigation is required.

During well drilling activities at the proposed Garfield Replacement Well site, there would be a period of 5 weeks where drilling activities would occur for 24 hours a day. During that time, lighting would be necessary for visibility and safety, but would be directed towards work areas within the boundaries of the Project site. Additionally, the Project would have 24-foot tall barriers surrounding the northern, western, and eastern boundaries of the site facing residences during construction (as required by MM NOI-2a, in Section 4.13, Noise). The southern boundary of the Project site would have a sound curtain during construction to allow vehicle access to the site. As such, most construction lights would be shielded from view during well drilling activities. Additionally, this would be short-term and temporary, therefore resulting in a less than significant impact, and no mitigation is required.

4.1.3 MITIGATION MEASURES

Impacts pertaining to aesthetics and light and glare would be less than significant; therefore, no mitigation measures are required.

4.2 AGRICULTURE AND FOREST RESOURCES	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the project:				
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220[g]), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104[g])?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

4.2.1 EXISTING CONDITIONS

The California Department of Conservation administers the Farmland Mapping and Monitoring Program (FMMP) pursuant to Section 65570 of the *California Government Code.* Due to the predominance of urban development in the southern and central sections of Los Angeles County (which includes the City of Pasadena), this area was not included in the mapping effort by the FMMP (FMMP 2020). As such, there are no designated farmlands in or near the Project site. Also, there are no existing or ongoing agricultural activities in or near the Project site.

The Project site is zoned as Open Space (OS) in the City's Zoning Map and designated as Park in the City's Land Use Plan diagram (City of Pasadena 2020, 2016).

There are no forest lands, timberlands, or any Timberland Production Zones in the City.

4.2.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

e) Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

No Impact.

As discussed above, there are no designated Prime Farmland, Unique Farmland, or Farmland of Statewide Importance within the Project site or surrounding area. As such the Project would not result in conversation of these resources to non-agricultural use. Additionally, the Project site is not zoned for agricultural use, and there are no Williamson Act contracts in the City (City of Pasadena 2020). Therefore, the Project would not conflict with existing zoning for agricultural use. Also, there are no agricultural activities on the Project site, and no farmland conversion or impacts to agricultural uses would occur because of the Project. Therefore, no impacts on agricultural resources would occur, and no mitigation is required.

c) Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code, Section 12220[g]), timberland (as defined by Public Resources Code, Section 4526), or timberland zoned Timberland Production (as defined by Government Code, Section 51104[g])?

d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?

e) Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

No Impact.

Open Space designation and zone for the Project site applies to active and passive public recreational facilities and natural open spaces that are environmentally and ecologically significant (City of Pasadena 2012). There are no timberland or timberland production zones resources that have been identified in the City of Pasadena Comprehensive General Plan. Thus, the Project would not result in conflict with existing zoning for forest land and timberland and would not cause rezoning of such resources.

No loss of forest resources or conversion of forest land to non-forest use would occur with the Project. Long-term operation and maintenance activities at the Project site would not adversely affect forest resources. Therefore, no impacts on forest resources would occur, and no mitigation is required.

4.2.3 MITIGATION MEASURES

There would be no impacts on agriculture and forest resources; therefore, no mitigation measures are required.

4.3 AIR QUALITY	**Potentially Significant Impact**	**Less than Significant with Mitigation**	**Less than Significant Impact**	**No Impact**
Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☐	☒
b Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

4.3.1 EXISTING CONDITIONS

The Project site is located in the Los Angeles County portion of the South Coast Air Basin (SoCAB), and for air quality regulation and permitting, the site is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). Both the State of California (State) and the U.S. Environmental Protection Agency (USEPA) have established health-based Ambient Air Quality Standards (AAQS) for air pollutants, which are known as “criteria pollutants”. The AAQS are designed to protect the health and welfare of the populace within a reasonable margin of safety. The AAQS for ozone (O_3), carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), inhalable particulate matter with a diameter of 10 microns or less (PM10), fine particulate matter with a diameter of 2.5 microns or less (PM2.5), and lead are shown in Table 4-1, California and National Ambient Air Quality Standards.

TABLE 4-1
CALIFORNIA AND NATIONAL AMBIENT AIR QUALITY STANDARDS

Pollutant	Averaging Time	California Standards	Federal Standards	
			Primary[a]	Secondary[b]
O_3	1 Hour	0.09 ppm (180 µg/m^3)	–	–
	8 Hour	0.070 ppm (137 µg/m^3)	0.070 ppm (137 µg/m^3)	Same as Primary
PM10	24 Hour	50 µg/m^3	150 µg/m^3	Same as Primary
	AAM	20 µg/m^3	–	Same as Primary
PM2.5	24 Hour	–	35 µg/m^3	Same as Primary
	AAM	12 µg/m^3	12.0 µg/m^3	15.0 µg/m^3
CO	1 Hour	20 ppm (23 mg/m^3)	35 ppm (40 mg/m^3)	–
	8 Hour	9.0 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)	–
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)	–	–
NO_2	AAM	0.030 ppm (57 µg/m^3)	0.053 ppm (100 µg/m^3)	Same as Primary
	1 Hour	0.18 ppm (339 µg/m^3)	0.100 ppm (188 µg/m^3)	–
SO_2	24 Hour	0.04 ppm (105 µg/m^3)	0.14 ppm (for certain areas)[c]	–
	3 Hour	–	–	0.5 ppm (1,300 µg/m^3)
	1 Hour	0.25 ppm (655 µg/m^3)	0.075 ppm (196 µg/m^3)	–
Lead	30-day Avg.	1.5 µg/m^3	–	–
	Calendar Quarter	–	1.5 µg/m^3	Same as Primary
	Rolling 3-month Avg.	–	0.15 µg/m^3	
Visibility Reducing Particles	8 hour	Extinction coefficient of 0.23 per km – visibility ≥ 10 miles (0.07 per km – ≥30 miles for Lake Tahoe)	**No Federal Standards**	
Sulfates	24 Hour	25 µg/m^3		
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)		
Vinyl Chloride	24 Hour	0.01 ppm (26 µg/m^3)		

O_3: ozone; µg/m^3: micrograms per cubic meter; PM10: large particulate matter; AAM: Annual Arithmetic Mean; PM2.5: fine particulate matter; CO: carbon monoxide; mg/m^3: milligrams per cubic meter; NO_2: nitrogen dioxide; SO_2: sulfur dioxide; ppm: parts per million; km: kilometer; –: No Standard.

[a] *National Primary Standards:* The levels of air quality necessary, within an adequate margin of safety, to protect the public health.

[b] *National Secondary Standards:* The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[c] On June 2, 2010, a new 1-hour SO2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

Note: More detailed information in the data presented in this table can be found at the CARB website (www.arb.ca.gov).

Source: CARB 2016a.

Regional air quality is defined by whether the area has attained State and federal air quality standards, as determined by air quality data from various monitoring stations. Areas that are considered in "nonattainment" are required to prepare plans and implement measures that will bring the region into "attainment". When an area has been reclassified from nonattainment to attainment for a federal standard, the status is identified as "maintenance", and there must be a plan and measures established that will keep the region in attainment for the next ten years.

For the California Air Resources Board (CARB), an "unclassified" designation indicates that the air quality data for the area are incomplete and there are no standards to support a designation of attainment or nonattainment. Table 4-2, Designations of Criteria Pollutants in the South Coast Air Basin, summarizes the current attainment status of the SoCAB for the criteria pollutants.

TABLE 4-2
CRITERIA POLLUTANT DESIGNATIONS
IN THE SOUTH COAST AIR BASIN

Pollutant	State	Federal
O_3 (1-hour)	Nonattainment	No Standard
O_3 (8-hour)	Nonattainment	Nonattainment
PM10	Nonattainment	Attainment/Maintenance
PM2.5	Nonattainment	Nonattainment
CO	Attainment	Attainment/Maintenance
NO_2	Attainment	Attainment/Maintenance
SO_2	Attainment	Attainment
Lead	Attainment	Nonattainment/Attainment[a]
Visibility-Reducing Particles	Unclassified[b]	No Standards
Sulfates	Attainment	
Hydrogen Sulfide	Unclassified	

O_3: ozone; PM10: respirable particulate matter with a diameter of 10 microns or less; PM2.5: fine particulate matter with a diameter of 2.5 microns or less; CO: carbon monoxide; NO_2: nitrogen dioxide; SO_2: sulfur dioxide

[a] Los Angeles County is classified as nonattainment for lead; the remainder of the SoCAB is in attainment of State and federal standards.

[b] "Unclassified" designation indicates that the air quality data for the area are incomplete and do not support a designation of attainment or nonattainment.

Source: South Coast AQMD 2016, USEPA 2020.

O_3 is formed by photochemical reactions between nitrogen oxide (NOx) and VOCs rather than being directly emitted. O_3 is the principal component of smog. Elevated O_3 concentrations cause eye and respiratory infection; reduce resistance to lung infection; and may aggravate pulmonary conditions in persons with lung disease. O_3 is also damaging to vegetation and untreated rubber. The entire SoCAB is designated as a nonattainment area for the State one-hour O_3 standard.

CO is formed by the incomplete combustion of fossil fuels, almost entirely from automobiles. It is a colorless, odorless gas that can cause dizziness, headaches, and fatigue. The SoCAB is designated as an attainment area for federal CO standards.

NO_2 (a "whiskey brown"-colored gas) and nitric oxide (NO) (a colorless, odorless gas) are formed from combustion devices. These compounds are referred to as NOx. NOx is a primary component of the photochemical smog reaction. The severity of health effects of NOx depends primarily on the concentration inhaled. Acute symptoms can include coughing, difficulty breathing, vomiting,

headache, and eye irritation. Respiratory symptoms may also increase in severity after prolonged exposure.

SO_2 is a corrosive gas that is primarily formed from the combustion of fuels containing sulfur (e.g., from power plants) and heavy industry that uses coal or oil as fuel. SO_2 irritates the respiratory tract and can result in lung disease and breathing problems for asthmatics. Atmospheric SO_2 also contributes to acid rain.

Lead is found in old paints and coatings, plumbing, and a variety of other materials including gasoline anti-knock additives. Once in the blood stream, lead can cause damage to the brain, nervous system, and other body systems. Children are highly susceptible to the effects of lead. However, lead emissions have significantly decreased due to the near elimination of the use of leaded gasoline.

Particulate matter is the term used for a mixture of solid particles and liquid droplets found in the air. Respirable particulate matter (i.e., PM10) derives from a variety of sources including road dust from paved and unpaved roads; diesel soot; combustion products; tire and brake abrasion; construction operations; and fires. Fuel combustion and certain industrial processes are primarily responsible for fine particle (i.e., PM2.5) levels. Coarse particles (PM10) can accumulate in the respiratory system and aggravate health problems such as asthma. PM2.5 can deposit itself deep in the lungs and may contain substances that are harmful to human health.

Toxic air contaminants (TACs) are a diverse group of air pollutants that may cause or contribute to an increase in deaths or in serious illness or that may pose a present or potential hazard to human health. TACs may be emitted from a variety of common sources, including motor vehicles, gasoline stations, dry cleaners, industrial operations, painting operations, and research and teaching facilities. TACs are different than the “criteria” pollutants previously discussed in that AAQS have not been established for them. TACs occurring at extremely low levels may still affect health, and it is typically difficult to identify levels of exposure that do not produce adverse health effects. TAC impacts on human health are described by having carcinogenic risk and being chronic (i.e., of long duration) or acute (i.e., severe but of short duration). Diesel particulate matter (diesel PM) is a TAC and is responsible for the majority of California’s known cancer risk from outdoor air pollutants.

The effects from air pollution can be significant, both in the short-term during smog alerts, but also from long-term exposure to pollutants. While the majority of the populace can overcome short-term air quality health concerns, selected segments of the population are more vulnerable to its effects. Specifically, young children, the elderly, and persons with existing health problems are most susceptible to respiratory complications.

The nearest sensitive receptors to the Project site include numerous residences located on the western side of Garfield Avenue, the children’s playground east of Garfield Avenue, the Park’s recreational facilities adjacent to the Project site, and residences on Reinway Court.

4.3.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

No Impact.

The SCAQMD develops rules and regulations; establishes permitting requirements for stationary sources; inspects emissions sources; and enforces such measures through educational programs or fines, when necessary. It is directly responsible for reducing emissions from stationary (area and point), mobile, and indirect sources and has prepared an Air Quality Management Plans (AQMP) that establishes a program of rules and regulations directed at attaining the National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS).

On March 3, 2017, the SCAQMD adopted the 2016 AQMP, which is a regional and multi-agency effort (SCAQMD, CARB, Southern California Association of Governments [SCAG], and USEPA). The 2016 AQMP incorporates the latest scientific and technical information and planning assumptions, including the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS); updated emission inventory methodologies for various source categories; and SCAG's latest growth forecasts.

The main purpose of an AQMP is to bring an area into compliance with the requirements of federal and State air quality standards. For a project to be consistent with the AQMP, the pollutants emitted from the project should not (1) exceed the SCAQMD CEQA air quality significance thresholds or (2) conflict with or exceed the assumptions in the AQMP. As shown in Threshold 4.3(b) below, pollutant emissions from the proposed Project would be less than the SCAQMD thresholds and would not result in a significant impact. The Project is consistent with the Zoning and General Plan Land Use designations for the site and is therefore consistent with the growth expectations for the region (City of Pasadena 2015a). Further, the proposed Project would not directly result in population growth or development or new land uses that have not been anticipated in the AQMP. No conflict with the 2016 AQMP would occur with the proposed Project. No impact is expected, and no mitigation is required.

b) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard?

Less Than Significant Impact.

The SCAQMD has adopted significance thresholds to assess the regional impact of air pollutant emissions in the SoCAB. Table 4-3, SCAQMD Regional Emissions Significance Thresholds, summarizes the SCAQMD's mass emissions thresholds, which are presented for both short-term construction and long-term operational emissions. A project with emissions rates below these thresholds is considered to have a less than significant effect on air quality.

TABLE 4-3
SCAQMD REGIONAL POLLUTANT SIGNIFICANCE THRESHOLDS
(LBS/DAY)

Criteria Pollutant	Construction	Operation
VOC	75	55
NOx	100	55
CO	550	550
SOx	150	150
PM10	150	150
PM2.5	55	55

SCAQMD: South Coast Air Quality Management District; lbs/day: pounds per day; VOC: volatile organic compounds; NOx: oxides of nitrogen; CO: carbon monoxide; SOx: oxides of sulfur; PM10: respirable particulate matter with a diameter of 10 microns or less; PM2.5: fine particulate matter with a diameter of 2.5 microns or less.

Source: SCAQMD 2019.

Regional Construction Impacts

The SCAQMD has established methodologies to quantify air pollutant emissions associated with construction activities, such as air pollutant emissions generated by operation of on-site construction equipment; fugitive dust emissions related to trenching and earthwork activities; and mobile (tailpipe) emissions from construction worker vehicles and haul/delivery truck trips. Emissions would vary from day to day, depending on the level of activity; the specific type of construction activity occurring; and, for fugitive dust, prevailing weather conditions.

A construction-period mass emissions inventory was compiled based on an estimate of construction equipment as well as scheduling and Project phasing assumptions. More specifically, the mass emissions analysis takes into account the following:

- Combustion emissions from operating on-site stationary and mobile construction equipment.
- Fugitive dust emissions from site preparation activities.
- Mobile-source combustion emissions and fugitive dust from worker commute and truck travel.

Emissions were calculated using the California Emissions Estimator Model Version 2016.3.2 (CalEEMod) emissions inventory model (CAPCOA 2017). CalEEMod is a computer program accepted by the SCAQMD that can be used to estimate anticipated emissions associated with land development projects in California. CalEEMod has separate databases for specific counties and air districts, and the Los Angeles County database was used for the proposed Project. Construction activities must be conducted in compliance with the South Coast Air Quality Management District's (SCAQMD's) Rule 403, Fugitive Dust, which requires the implementation of best available control measures (BACM) for any activity or man-made condition capable of generating fugitive dust including, but not limited to, earth-moving activities, construction/demolition activities, disturbed surface area, or heavy- and light-duty vehicular movement. The BACMs include stabilizing soil; watering surface soils and crushed materials; covering hauls or providing freeboard; preventing track-out; and limiting vehicle speeds and wind barriers, among others. Consistent with the requirements of SCAQMD Rule 403, watering for dust control is assumed in the emissions calculations.

The regional emissions thresholds (see Table 4-3) are based on the rate of emissions (i.e., pounds of pollutants emitted per day). Therefore, the quantity, duration, and the intensity of construction activities are important in ensuring analysis of worst-case (i.e., maximum daily emissions) scenarios. Project activities are identified by start date and duration, as described in Table 3-1. Each activity has associated off-road equipment (e.g., backhoes, bore drills, cranes) and on-road vehicles (e.g., haul trucks, concrete trucks, worker commute vehicles). Detailed construction assumptions and CalEEMod inputs and outputs can be found in Appendix B, Air Quality and Greenhouse Gas Emissions Modeling Data.

Maximum daily construction emissions during the peak workday are shown in Table 4-4, Estimated Maximum Daily Construction Emissions. If construction is delayed or occurs over a longer time period, emissions could be reduced because of (1) a more modern and cleaner-burning construction equipment fleet mix and/or (2) a less intensive buildout schedule (i.e., fewer daily emissions occurring over a longer time interval). Construction of the Project would be required to comply with SCAQMD Rule 403, as discussed above. Additionally, in accordance with Section 2449(d)(3) of CARB's Regulation for In-Use Off-Road Diesel-Fueled Fleets, construction equipment and vehicles are required to limit idling times to no more than five consecutive minutes. As shown, all criteria pollutant emissions from Project construction would be less than their respective thresholds. Thus, regional construction impacts would be less than significant, and no mitigation is required.

TABLE 4-4
ESTIMATED MAXIMUM DAILY CONSTRUCTION EMISSIONS
(LBS/DAY)

Construction Year	VOC	NOx	CO	SOx	PM10	PM2.5
2021	5	46	46	<1	2	2
2022	1	6	4	<1	<1	<1
Maximum	**5**	**46**	**46**	**<1**	**2**	**2**
SCAQMD Daily Thresholds	***75***	***100***	***550***	***150***	***150***	***55***
Exceeds SCAQMD Thresholds?	**No**	**No**	**No**	**No**	**No**	**No**

lbs/day: pounds per day; VOC: volatile organic compound(s); NOx: nitrogen oxides; CO: carbon monoxide; SOx: sulfur oxides; PM10: respirable particulate matter with a diameter of 10 microns or less; PM2.5: fine particulate matter with a diameter of 2.5 microns or less; SCAQMD: South Coast Air Quality Management District.

Source: SCAQMD 2019 (thresholds). Emissions calculated by Psomas using CalEEMod 2016.3.2 (Appendix B, Air Quality and Greenhouse Gas Emissions Modeling Data)

Localized Construction Impacts

The localized effects from the on-site portion of daily emissions were evaluated at sensitive receptor locations that would be potentially impacted by the Project; these were evaluated according to the SCAQMD's localized significance threshold (LST) methodology, which utilizes on-site mass emissions rate look up tables and Project-specific modeling, where appropriate. LSTs are applicable to the following criteria pollutants: NO_2, CO, PM10, and PM2.5.[2] LSTs represent the maximum emissions from a project that are not expected to cause or contribute substantially to an exceedance of the most stringent applicable federal or State ambient air quality standard. These are developed based on the ambient concentrations of that pollutant for each source receptor area and distance to the nearest sensitive receptor. For PM10 and PM2.5, LSTs were derived based on requirements in SCAQMD's Rule 403 regarding fugitive dust. For the LST CO and NO_2 exposure analysis, receptors who could be exposed for one hour or more are considered. For PM10 and PM2.5 exposure analysis, receptors who could be exposed for 24

[2] NO_2 impacts are addressed by evaluating nitrogen oxide (NOx) emissions.

hours are considered. The mass rate look-up tables were developed for each source receptor area and can be used to determine whether or not a project may generate significant adverse localized air quality impacts. The SCAQMD provides LST mass rate look-up tables (i.e., screening thresholds) for projects that are less than or equal to five acres. The use of a LST screening threshold based on 1-acre was used to assess the potential for localized construction air quality impacts associated with the Project.

When quantifying mass emissions for localized analysis, only emissions that occur on site are considered. Consistent with the SCAQMD's LST methodology guidelines, emissions related to off-site delivery/haul truck activity and employee trips are not considered in the evaluation of localized impacts.

As shown in Table 4-5, Maximum Localized Construction Pollutant Emissions, localized construction emissions were evaluated for the maximum localized onsite emissions for NOx, CO, PM10, and PM2.5. This maximum scenario occurred during well drilling activities in 2021. Emissions occurring at the Project site would be less than their respective SCAQMD LST screening thresholds. Thus, construction impacts related to air pollutant exposure to sensitive receptors proximate to the Project site would be less than significant, and no mitigation is required.

TABLE 4-5
MAXIMUM LOCALIZED CONSTRUCTION POLLUTANT EMISSIONS
(LBS/DAY)

Maximum Emissions	NOx	CO	PM10	PM2.5
Well Drilling Activities in 2021	45	45	2	2
SCAQMD LST Screening Threshold	***69***[a]	***535***[a]	***11***[b]	***4***[b]
Exceeds SCAQMD Screening Thresholds?	**No**	**No**	**No**	**No**

lbs/day: pounds per day; NOx: nitrogen oxides; CO: carbon monoxide; PM10: respirable particulate matter with a diameter of 10 microns or less; PM2.5: fine particulate matter with a diameter of 2.5 microns or less; SCAQMD: South Coast Air Quality Management District; LST: Local Significance Threshold; SRA: Source Receptor Area.

[a] Thresholds are for 1-acre site with receptors located within 25 meters in Source Receptor Area (SRA) 8, West San Gabriel Valley.

[b] Thresholds are for 1-acre site with receptors located within 50 meters in SRA 8, West San Gabriel Valley.

Source: SCAQMD 2009 (LSTs). Emissions from Psomas calculated with CalEEMod 2016.3.2 (Appendix B).

Long-Term Operational Impacts

Upon Project completion, there would be one trip per day, including weekends, for monitoring and maintenance of the proposed well. Currently, the inactive existing Garfield Well generates one trip per week for maintenance activities of the well. Therefore, operational emissions would be primarily from a minimal increase per week in monitoring and maintenance trips and would consequently be negligible. No other operational emissions are anticipated. Therefore, there would be less than significant operational impacts, and no mitigation is required.

Cumulative Impacts

The SCAQMD, in their White Paper on Regulatory Options for Addressing Cumulative Impacts from Air Pollution Emissions (presented to the Board on September 5, 2003), identifies that impacts that are less than significant on a Project level are also considered to be less than significant on a cumulative basis. The AQMD uses the same significance thresholds for project-specific and cumulative impacts analyzed in an Environmental Assessment (EA) or Environmental Impact Report (EIR), except for the Hazard Index for toxic air contaminant emissions (SCAQMD

2003). Any projects that are found to result in less than significant impacts on a project level are not considered to be cumulatively considerable and consequently would not result in a considerable contribution to cumulative impacts. Using this rationale, since the Project impacts were identified as less than significant, the cumulative impacts were also identified as less than significant, and no mitigation is required.

c) Would the project expose sensitive receptors to substantial pollutant concentrations?

Less than Significant Impact.

Exposure of sensitive receptors is addressed for the following situations: CO hotspots; criteria pollutants from on-site construction; and TACs from on-site construction.

Carbon Monoxide Hotspot

A CO hotspot is an area of elevated CO concentrations that is caused by severe vehicle congestion on major roadways, typically near intersections. If a project substantially increases average delay at signalized intersections that are operating at Level of Service (LOS) E or F or causes an intersection that would operate at LOS D or better without the project to operate at LOS E or F with the Project, there is a potential for a CO hotspot.

The proposed Project would generate vehicle traffic from daily worker trips associated with the monitoring and maintenance of Project facilities. This would amount to one worker round trip per day. This volume of Project-related vehicle trips would not have the potential to substantially change the average LOS at nearby intersections and consequently would not contribute to the potential for the formation of a CO hotspot.

Criteria Pollutants from On-Site Construction

Exposure of persons to NO_2, CO, PM10, and PM2.5 emissions is discussed in the LST analysis, under Threshold 4.3b. As discussed, there would be a less than significant impact.

Toxic Air Contaminants Impacts

The greatest potential for toxic air contaminant (TAC) emissions during construction would be related to diesel particulate emissions associated with heavy equipment operations during site grading activities. The SCAQMD does not consider diesel-related cancer risks from construction equipment to be an issue due to the short-term nature of construction activities. Construction activities associated with the proposed Project would be short term (9 months). The assessment of cancer risk is typically based on a 30 to 70-year exposure period. Because exposure to diesel exhaust would be well below the 30 and 70-year exposure period, construction of the proposed Project is not anticipated to result in an elevated cancer risk to exposed persons. As such, Project-related TAC impacts during construction would be less than significant, and no mitigation is required.

d) Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less than Significant Impact.

According to the SCAQMD's *CEQA Air Quality Handbook,* land uses associated with odor complaints typically include agricultural uses, wastewater treatment plants, food processing

plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). The Project does not propose any of these land uses and would not otherwise produce objectionable long-term operational odors. The Garfield Replacement Well would be a submersible water well and would not result in any onsite airborne emissions.

Short-term construction equipment and activities would generate odors, such as diesel exhaust emissions from construction equipment and paving activities. There may be situations where construction activity odors would have an olfactory presence, but these odors would not be unfamiliar or necessarily objectionable. The odors would be temporary and would dissipate rapidly from the source with an increase in distance. The Project use is also regulated from nuisance odors or other objectionable emissions by SCAQMD Rule 402. Rule 402 prohibits discharge from any source of air contaminants or other material, which would cause injury, detriment, nuisance, or annoyance to people or the public. Therefore, the impacts would be short-term; would not be objectionable to a substantial number of people; and would be less than significant, and no mitigation is required. All Project-related odors are construction related and short term in nature; no long-term operational odors would result. As such, the proposed Project would have less than significant impact in regard to other emissions, and no mitigation is required.

4.3.3 MITIGATION MEASURES

There would be no significant impacts related to air quality; therefore, no mitigation measures are required.

4.4 BIOLOGICAL RESOURCES	Potentially Significant Impact	Less Than Significant With Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modification, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	☐	☐	☐	☒
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☒	☐	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☒	☐	☐
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

4.4.1 EXISTING CONDITIONS

The Project site consists of natural turf (used for recreational purposes). The work area for the Project consists of the natural turf area mentioned above, basketball courts, the existing Garfield Well, and a paved access road. Existing mature trees are located near the Project site, as shown on Exhibit 2-2. These trees are non-native ornamental pine trees (*Pinus* sp.).

4.4.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project have a substantial adverse effect, either directly or through habitat modification, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

No Impact.

The Project site is located within an urban area and surrounded by recreational and residential uses. As a result of urbanization of the land, the entire Project site and immediate surrounding areas are developed and no longer support undeveloped land. Native plant communities were

removed from the site several decades ago as a result of development of the property. The vegetation on the Project site consists of ornamental plant species, including non-native ornamental grass and non-native ornamental pine trees (*Pinus* sp.), which would be protected in place during Project construction.

No fish, amphibian, or hydrogeomorphic features (e.g., perennial creeks, ponds, lakes, reservoirs) that would provide suitable habitat for fish or amphibians are at the Project site. Therefore, no fish are expected to occur and are presumed absent from the Project site. Due to the high level of anthropogenic disturbances on-site, and surrounding development, no special-status reptilian species are expected to occur within the Project site. The Project site provides minimal foraging habitat for bird or mammal species that have adapted to human disturbance. The existing landscaping provides potential habitats for common animal species that are typically found in urban areas, such as small mammals, birds, small reptiles, and insects. However, the site does not provide natural habitats for sensitive plant and animal species.

Review of the U.S. Fish and Wildlife Service's (USFWS') Critical Habitat for Threatened and Endangered Species shows there are no designated critical habitat areas on or near the site (USFWS 2020). The nearest critical habitat is located in the Monrovia Wilderness Preserve, approximately 7.5 miles east of the Project site.

Since there are no natural or sensitive biological resources on the Project site, the proposed Project would not impact any candidate, sensitive, or special status species, as identified in the local or regional plans, policies, or regulations by the California Department of Fish and Wildlife (CDFW) or USFWS. There would be no impact on sensitive species, and no mitigation is required.

b) Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

c) Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact.

The Project site is currently developed, and stormwater sheet flows across the asphalt pavement, grass ribbon gutters, and storm drains toward abutting streets. The site supports ornamental landscaping at scattered locations but does not contain riparian habitat or sensitive natural vegetation communities identified by CDFW and USFWS. There would be no impact to riparian habitats or sensitive natural vegetation communities, and no mitigation is required. No discernible jurisdictional drainage features occur within the Project site disturbance area. Therefore, no impacts on jurisdictional drainages would occur, and no mitigation is required.

d) Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Less than Significant with Mitigation.

The Project site is developed and is surrounded by roads, recreational, and residential uses on all sides. The Project site is isolated from regional wildlife corridors and linkages, and there are no riparian corridors, creeks, or useful patches of steppingstone habitat (natural areas) within or connecting the Project site to any identified wildlife corridors or linkages. As such, movement

through the area would likely be limited to species that are ubiquitous within the urban landscape and not dependent on connectivity through the Project area. As a result, the Project site would not be considered a vital component to the function of this area for wildlife movement. There may be indirect effects on local wildlife movement (e.g., increased noise or dust), but these would be considered negligible and unlikely to negatively affect existing wildlife movement. Therefore, impacts would be considered less than significant, and no mitigation would be required.

As a result, implementation of the proposed Project would not disrupt or have any adverse effects on any migratory corridors or linkages in the surrounding area. The Project would not affect the movement of any native resident or migratory fish or wildlife species or established native resident or migratory wildlife corridors, as the Project is part of none.

Nesting birds are protected under the provisions of the Migratory Bird Treaty Act (MBTA) and *California Fish and Game Code*. The USFWS periodically publishes the list of migratory birds covered by the provisions of this statute, but essentially all naturally occurring bird species in North America are considered to be migratory and are included on the list. The Project site provides very limited potential for nesting birds; however, adjacent areas support potentially suitable nesting habitat for migratory birds, which could be impacted indirectly by construction of the Project. Increased levels of noise and activity near an active nest could result in nest failure. The loss of an active nest may be considered potentially significant; therefore, MM BIO-1, referring to seasonal avoidance of Project activities, would be required. This measure necessitates that construction activities occur between September 16 and January 31 of the following year, which is outside the bird nesting season. However, if construction must occur between February 1 and September 15, which is within the bird nesting season, a pre-construction survey for nesting birds (including raptors), is required and any active nests must be protected to reduce potentially significant impacts to a level of less than significant. Therefore, with implementation of MM BIO-1, impacts would be less than significant.

e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less than Significant with Mitigation.

The City of Pasadena tree protection ordinance states that all public trees are afforded protection and it is a violation to prune, remove, injure, or plant a public tree without a City permit. Disturbance in the root zone of a protected tree may be considered a potential injury. No regulated trees are expected to occur within the Project disturbance area. However, potentially regulated trees may be present in areas adjacent to the Project disturbance area. The non-native pine trees located near the Project site would be protected in place and would not be trimmed (including tree branches or roots) as a result of the Project, as described in Section 3.2, Project Construction. For example, to avoid trees and provide a turn radius for trucks, the Project would utilize an open space recreation area of approximately 3,000 sf, located south of the Project's proposed work area, as shown on Exhibit 2-2. However, in order to further ensure avoidance of tree impacts near the Project's work area, MM BIO-2 requires that all trees within 25 feet of work areas be demarcated in the field with orange construction fencing or other high-visibility flagging during construction activities. As such, with implementation of MM BIO-2, conflicts with tree preservation policies or ordinances would be less than significant.

f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact.

There is no adopted Habitat Conservation Plan (HCP); Natural Community Conservation Plan (NCCP); or other approved State, regional, or local habitat conservation plans that would apply to the Project site. No impacts would occur, and no mitigation is required.

Mitigation Measures

MM BIO-1 To the extent practical and feasible, Project construction shall be conducted between September 16 and January 31, which is outside the bird nesting season. Construction conducted within this period shall be considered in compliance with the conditions set forth in the Migratory Bird Treaty Act (MBTA) and *California Fish and Game Code* with methods approved by the U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Wildlife (CDFW) to protect active bird/raptor nests. If the nature of the proposed construction activities requires that work be conducted during the breeding season for nesting birds (March 15–September 15) or nesting raptors (February 1–June 30), in order to avoid direct impacts on active nests, a pre-construction survey shall be conducted by a qualified Biologist for nesting birds and/or raptors within 3 days prior to any construction or disturbance activities (i.e., within 300 feet for nesting birds and within 500 feet for nesting raptors). If the Biologist does not find any active nests within or immediately adjacent to the impact area, the construction work shall be allowed to proceed. If a lapse of more than three days occurs between outdoor disturbance activities, the nesting bird survey will need to be repeated as nesting activities may potentially occur in that time frame. Results of the surveys will be provided to the CDFW.

If the Biologist finds an active nest within or immediately adjacent to the construction area and determines that the nest may be impacted or breeding activities substantially disrupted, the Biologist shall delineate an appropriate buffer zone (at a minimum of 25 feet) around the nest depending on the sensitivity of the species and the nature of the construction activity. Any nest found during survey efforts shall be mapped on the construction plans. The active nest shall be protected until nesting activity has ended. To protect any nest site, the following restrictions to construction activities shall be required until nests are no longer active, as determined by a qualified Biologist: (1) disturbance limits shall be established within a buffer around any occupied nest (the buffer shall be 25–100 feet for nesting birds and 300–500 feet for nesting raptors), unless otherwise determined by a qualified Biologist and (2) access and surveying shall be restricted within the buffer of any occupied nest, unless otherwise determined by a qualified Biologist. Encroachment into the buffer area around a known nest shall only be allowed if the Biologist determines that the proposed activity would not disturb the nest occupants. Construction can proceed when the qualified Biologist has determined that fledglings have left the nest or the nest has failed.

MM BIO-2 During Project construction activities, all trees within 25 feet of work areas shall be demarcated in the field with orange construction fencing or other high-visibility flagging, to ensure avoidance during construction.

4.5 CULTURAL RESOURCES	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?	☐	☐	☐	☒
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	☐	☒	☐	☐
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	☐	☐	☒	☐

Information in this section is synthesized from the Project Class I Archival Review for the Proposed City of Pasadena Garfield Well Replacement, Pasadena, California dated October 2020 and prepared by Great Basin Consulting Group, LLC (Great Basin Consulting Group 2020). The cultural data used in this section was collected from the archival research completed in 2016, the results of pedestrian survey completed in 1994, and a recent record search conducted at the California Historical Resources Information System (CHRIS) South Central Coastal Information Center (SCCIC), California State University, Fullerton in September 2020. Cultural resources data and the Project Class I Archival Review can be found in Appendix C, Cultural and Tribal Cultural Resources Data, of this IS/MND.

4.5.1 EXISTING CONDITIONS

Archaeological Resources

There are no documented archaeological resources on the Project site. While it is likely that Native American populations used the Project site in prehistoric times, previous disturbance and development of the ground surface have resulted in much of the area being disturbed. Any archaeological resources that may have been present have likely lost archaeological context as a result of disturbance from development on the Project site.

Based on review of cultural resources studies that have been conducted in the Project vicinity, as mentioned above, no archaeological resources have been identified on the Project site. Additionally, no prehistoric archaeological sites (i.e. lithic scatters, village sites, intact middens), isolated prehistoric cultural resources (i.e. single artifact), or historic-era archaeological sites (i.e. trash scatters and debris from the Spanish, Mexican, and early American Periods) have been documented within ¼ mile of the Project site. However, 68 previously recorded built environment and historic structures are located within approximately ¼ mile of the Project site (Great Basin Consulting Group 2020).

Historical Resources

There are no structures on the Project site that are currently listed, individually or collectively, in either the National Register of Historic Places (NRHP) or the California Register of Historical Resources (CRHR). Based on review of cultural resources studies that have been conducted in the Project vicinity, 68 historic structures have been recorded within ¼ mile of the Project site, as stated above. The historic structures date between 1880 to 1958. Most of the historic structures reside within a historic district bounded by the 500-600 block of N. Oakland, Madison, and El Molino Avenues. The historic district containing the listed structures are located outside of the Project site, ranging from 2-4 blocks east of the Project site.

One historic structure, Reinway Court (P-19-180196), is located next to the Project site at 380 Parke Street. Reinway Court serves as a historic example of bungalow/cottage architectural style. The structure is located outside of the Project site but is adjacent to the northeast corner of the well site.

4.5.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?

No Impact.

There are no structures on the Project site that are currently listed, individually or collectively, in either the NRHP or the CRHR. As stated above, one historic structure, Reinway Court (P-19-180196), is located next to the Project site at 380 Parke Street. The structure is located outside of the Project site but is nearest to the northeast corner of the existing well site. However, the Project site and Reinway Court site are partitioned by a row of trees, providing the Reinway Court additional protection from any indirect impacts caused by the proposed Project. The proposed Project would not directly impact Reinway Court because all Project activities would be contained to the Project site. Therefore, there would be no impacts to historical resources, and no mitigation is required.

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

Less Than Significant with Mitigation.

There are no known prehistoric and/or historic-era archaeological resources within approximately ¼ mile of the Project site and no documented archaeological resources have been recorded on the Project site. It is likely that Native American populations travelled through the Project site in prehistoric times. However, the Project site and surrounding area has been developed through significant landscaping and hardscaping. As such, potentially significant archaeological resources buried beneath the site are likely to be heavily disturbed and no longer retain archaeological context. Nevertheless, there is a possibility that intact buried archaeological resources could exist on the Project site, and if present, could be damaged by drilling activities during Project construction, which would represent a significant impact.

There would be drilling reaching 950 feet bgs with Project implementation. To avoid impacts to archaeological resources, MM CUL-1 requires that a qualified Archaeologist (a cross- trained Archaeologist/Paleontologist is acceptable) be retained for on-call services in the event of the discovery of archaeological resources during ground-disturbing activities. Any discovered resources would be evaluated for significance by the Archaeologist and if needed, a mitigation plan would be developed to mitigate impacts to a significant archaeological resource. As such, impacts on archaeological resources would be less than significant with implementation of MM CUL-1.

c) Would the project disturb any human remains, including those interred outside of formal cemeteries?

Less Than Significant Impact.

There are no known human remains within the Project site. In the unlikely event of an unanticipated encounter with human remains, the *California Health and Safety Code* and the *California Public Resources Code* require that any activity in the area of a potential find be halted and the Los Angeles County Coroner be notified (California Public Resources Code §5097.98). The Coroner is required to determine whether the remains are of forensic interest. If the Coroner, with the aid of an Archaeologist, determines that the remains are prehistoric, s/he is required to contact the Native American Heritage Commission (NAHC). The NAHC is responsible for designating the most likely descendant (MLD), who is responsible for the ultimate disposition of the remains, as required by Section 7050.5 of the California Health and Safety Code. The MLD is required to make her/his recommendation within 48 hours of being granted access to the site. The MLD's recommendation is required to be followed if feasible and may include scientific removal and nondestructive analysis of the human remains and any items associated with Native American burials (California Health and Safety Code §7050.5). If the landowner rejects the MLD's recommendations, the landowner is required to rebury the remains with appropriate dignity on the property in a location that will not be subject to further subsurface disturbance (California Public Resources Code §5097.98). Compliance with regulations would ensure that impacts to human remains would be less than significant, and no mitigation is required.

4.5.3 MITIGATION MEASURES

MM CUL-1 Prior to commencement of ground-disturbing activities, the City shall retain a qualified Archaeologist (or cross-trained Archaeologist/Paleontologist) for on-call services in the event of a discovery of cultural resources (i.e., archaeological sites) below the ground surface. The Archaeologist shall be present at the pre-construction conference, and shall establish, in cooperation with the Contractor, procedures for temporarily halting or redirecting work to permit the sampling, identification, and evaluation of the artifacts. Should archaeological resources be found during ground-disturbing activities for the Project, the Archaeologist shall first determine whether it is a "unique archaeological resource" pursuant to the California Environmental Quality Act (CEQA, i.e., Section 21083.2[g] of the *California Public Resources Code*), a "historical resource" pursuant to Section 15064.5(a) of the State CEQA Guidelines. If the above-mentioned resources are found during ground-disturbing activities, the Archaeologist shall formulate a report and a mitigation plan in consultation with the City of Pasadena and tribal representatives that satisfies the requirements of the above-referenced sections. The report shall follow guidelines of the California Office of Historic Preservation, and s/he shall record the site and submit the recordation form to the City of Pasadena and the California Historic Resources Information System (CHRIS) at the South Central Coastal Information Center (SCCIC) located at California State University, Fullerton. The disposition of the resources shall be subject to approval by the City. If resources are discovered, work may proceed in other areas of the site, subject to the direction of the Archaeologist.

4.6 ENERGY	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the project:				
a) Result in potentially significant environmental impacts due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒

Energy calculations for the following analysis can be found in Appendix D, Energy Data, of this IS/MND.

4.6.1 EXISTING CONDITIONS

The Project site contains an existing Garfield Well. This well is inactive and was decommissioned in December 2020. Existing routine maintenance trips to the decommissioned well is one roundtrip per week.

4.6.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project result in potentially significant environmental impacts due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less than Significant Impact.

Construction Energy Use

Project construction would require the use of construction equipment for well drilling, hauling, and above-ground improvement activities for the proposed well. Construction would also include the vehicles of construction workers and vendors traveling to and from the Project site and on-road haul trucks for the export of materials from site clearing and the export of sediment from excavation.

Off-road construction equipment use was calculated from the equipment data (vehicle types, hours per day, horsepower, load factor) provided in the CalEEMod construction output files included in Appendix B of this IS/MND. The total horsepower hours for construction equipment used for the Project was then multiplied by fuel usage rates to obtain the total fuel usage for off-road equipment.

Fuel consumption from construction worker, vendor, and delivery/haul trucks was calculated using the trip rates and distances provided in the CalEEMod construction output files. Total vehicle miles traveled (VMT) was then calculated for each type of construction-related trip and divided by the fuel consumption factor from California Air Resources Board's (CARB's) EMission FACtors (EMFAC) 2017 model. EMFAC provides the total annual VMT and fuel consumed for each vehicle type. Construction vendor and delivery/haul trucks were assumed to be heavy-duty diesel trucks.

As shown in Table 4-6, Energy Use During Construction, the Project would consume a total of 493 gallons of gasoline and 6,299 gallons of diesel fuel during construction.

TABLE 4-6
ENERGY USE DURING CONSTRUCTION

Source	Gasoline Fuel (gallons)	Diesel Fuel - (gallons)
Off-road Construction Equipment	0	6,119
Worker commute	392	2
Vendors	101	1
On-road haul	0	177
Total	**493**	**6,299**
Sources: Psomas 2020 based on data from CalEEMod (Appendix B), Offroad and EMFAC2017 (Appendix D).		

Fuel energy consumed during construction would be temporary in nature and would not represent a significant demand on energy resources. Furthermore, there are no unusual Project characteristics that would necessitate the use of construction equipment that would be less energy-efficient than comparable equipment at construction sites in other parts of the State. Therefore, the proposed construction activities would not result in inefficient, wasteful, or unnecessary fuel consumption.

Operational Energy Use

Sources of new energy demands resulting from Project implementation include the pump at the proposed well. As the proposed Project would be operated by PWP, who would supply electrical power to the Project, the power demands and infrastructure needs will be closely coordinated with the development of Project plans and specifications. Electricity would be provided by tying into existing PWP infrastructure with electrical components available at the existing Garfield Well. It is anticipated that approximately 1,397,880 kilowatt-hours per year (kWh/yr) would be necessary to operate the Garfield Replacement Well. No demand for natural gas would be created by the Project. Therefore, although the Project would result in a slight increase in overall electrical usage compared to existing conditions, because the existing Garfield Well is inactive and decommissioned, no new major infrastructure (i.e., new energy sources) would be required and no new electrical connections would be constructed. Additionally, energy used in the operation of the Project would enable the development of local water resources that would reduce the need to use more energy intensive imported water.

Also, maintenance and inspection activities would generate vehicle trips that would likely utilize fossil fuels. This would be minimal when compared to fossil fuel use from total VMT in the City on a daily basis and would be short-term for construction activities and intermittent for maintenance activities, on the order of one round trip per day. In addition, there are already routine maintenance trips to the existing Garfield Well (one round trip per week). For these reasons, construction and operational energy use would not be considered wasteful or inefficient. There would be a less than significant impact related to wasteful, inefficient, or unnecessary consumption of energy resources during Project construction or operation, and no mitigation is required.

b) Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

No Impact.

The City's Energy Element of the 1983 General Plan was replaced by the City's Open Space and Conservation Element in 2012 (City of Pasadena 2012). The purpose of the Open Space and Conservation Element is to develop policies that promote the conservation of energy, air, water, and natural resources to enhance the overall quality of life in Pasadena. In terms of energy, the City seeks to improve energy conservation, expand renewable energy production, and promote sustainability. As discussed in the "Existing Utility Conditions and Urban Planning" Section of this Element, the City will increase conservation, efficiency, and sustainability. The Project is consistent with these goals, as discussed, below.

Although the Project would result in an increase in electrical use for increased groundwater well pumping, the Project would be replacing an existing, inactive well, and the consumption of energy would be comparable to that of the existing well when it was active. The Project would be implemented to maintain source capacity for potable water within the City. This would be consistent with the City's energy goals of increasing conservation, efficiency, and sustainability, as discussed above. As such, the proposed Project would not result in any impacts related to obstruction of State or City plans for renewable energy or energy efficiency, and no mitigation is required.

4.6.3 MITIGATION MEASURES

There would be no significant impacts pertaining to energy; therefore, no mitigation measures are required.

4.7 GEOLOGY AND SOILS	**Potentially Significant Impact**	**Less than Significant with Mitigation**	**Less than Significant Impact**	**No Impact**
Would the project:				
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☐	☒
ii) Strong seismic ground shaking?	☐	☐	☐	☒
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv) Landslides?	☐	☐	☒	☐
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in onsite or offsite landslide, lateral spreading, subsidence, liquefaction, or collapse?	☐	☐	☒	☐
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	☐	☐	☐	☒
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

Information in this section is derived from the Well Design Report prepared for this Project (Appendix A) and EDR Radius Map™ Report (EDR Report) prepared for the Project by Environmental Data Resources, Inc. (Appendix F). The paleontological analysis is based on the results of a literature review and records search conducted through the Natural History Museum of Los Angeles County (LACM), an online search of localities listed on the Paleobiology Database (paleobiodb.org), and a review of geologic maps and aerials. Dr. Alyssa Bell, of the Paleontological department of the LACM, conducted a records search on December 16, 2020 to explore any previously documented nearby resources within the geologic formations underlying the Project site. The paleontological record search can be found in Appendix E of this IS/MND.

4.7.1 EXISTING CONDITIONS

The Project site is located within the Raymond Groundwater Basin. The Raymond Groundwater Basin is an alluvial valley approximately 40 square miles in total area and includes most of the City. The Raymond Groundwater Basin is bordered on the north by the San Gabriel Mountains, to the west by the San Rafael Hills, and to the south and east by the Raymond Fault.

The Raymond Groundwater Basin is a structural basin, with the western and northern margins defined on the ground surface by uplifted bedrock forming the San Rafael Hills and the San Gabriel Mountains. The bedrock consists of low-permeability Mesozoic marine sedimentary and metasedimentary rocks, and consolidated basement rocks consisting of pre-Cambrian and Cenozoic crystalline and volcanic rocks. Within the Raymond Groundwater Basin, the Sierra Madre Fault Zone forms the northern margin along the front of the San Gabriel Mountains, faulting in the southern margin along the Raymond Fault, and a north-trending divide that parallels the Eaton Wash in the eastern portion of the Raymond Groundwater Basin. The Raymond Fault is a southwest-northeast trending fault that defines the boundary between the Raymond Groundwater Basin and the Main San Gabriel Groundwater Basin to the south and southeast (Wood Rodgers 2020).

The Raymond Groundwater Basin is generally divided into three areas, including the Monk Hill Subarea, the Pasadena Subarea, and the Santa Anita Subarea. The Pasadena Subarea is bound to the north by the Monk Hill Subarea of the Raymond Groundwater Basin and consolidated and crystalline basement rocks of the San Gabriel Mountains; to the east by the Santa Anita Subarea of the Raymond Groundwater Basin; to the south by the Raymond Fault and the boundary with the Main San Gabriel Groundwater Basin; and to the west by consolidated and crystalline basement rocks of the San Rafael Hills. The proposed well site is located within the western portion of the Pasadena Subarea, which is the largest of the three divisions within the Raymond Groundwater Basin (Wood Rodgers 2020).

Overlying the bedrock is a thick accumulation of more than 1,200 feet of unconsolidated alluvial materials that form the Raymond Groundwater Basin. These unconsolidated alluvial materials consist of boulders, gravel, sand, silt, and clay in varying proportions. The unconsolidated to semi-consolidated alluvial sediments were primarily deposited by streams flowing out of the San Gabriel Mountains during the Pleistocene and Holocene. The base of the freshwater-bearing strata occurs at the contact with the underlying bedrock material. Based on the well log for the nearby Villa Well, the base of alluvial material beneath the Garfield Well site is anticipated to occur at approximately 950 feet below grade surface (bgs) (Wood Rodgers 2020).

The alluvial materials are divided into two geologic units, the Younger and Older Alluvium. The maximum thickness of the Younger Alluvium is typically 150 feet and is mostly unsaturated. The principal water-bearing unit within the Raymond Basin is the Older Alluvium. Where these sediments are saturated and of sufficient permeability and thickness to provide economically viable quantities of water to wells, they form the Raymond Basin aquifers (Wood Rodgers 2020).As stated above, Dr. Alyssa Bell, of the Paleontological department of the LACM, conducted a records search on December 16, 2020 to explore any previously documented nearby resources within the geologic formations underlying the Project site. The records search did not identify any previously recorded paleontological resources within the Project site. However, there are documented fossil localities near the Project site from the same sedimentary deposits that occur in the proposed Project site, either at the surface or at depth. Examples of fossils that have been recovered from the area include Fish (Osteichthyes), Invertebrates, Birds (Aves), Mastodon (Mammut), and Horse (Equus).

4.7.2 IMPACT ANALYSIS

Impact Discussion

a) Would the directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

ii) Strong seismic ground shaking?

No Impact.

The Eagle Rock Fault is the nearest active fault, located approximately 1.67 miles to the southwest at the nearest points of the Project site. Consistent with its location in a seismically-active region, the site may be subject to strong ground shaking resulting from a major earthquake on one or more faults in the area within the lifetime of the Project. Seismic ground shaking from major earthquakes in the region is not anticipated to be greater than at any other sites in Southern California. The potential for strong ground shaking is an existing seismic hazard that affects the site, and the Project would not exacerbate this condition. Also, the Project would not involve construction of habitable structures or structures whose height, mass, or materials would pose a hazard in the event of an earthquake. In addition, the Project would be designed in compliance with applicable building code regulations. Grading, excavation, and construction is required to comply with the City's Building Code (Title 14 of the Pasadena Municipal Code, which incorporates the California Building Code), as they relate to site preparation and construction; alteration; moving; demolition; repair; use and occupancy of buildings; structures and building service equipment within the City. There would be no impacts due to exposure to substantial adverse effects from seismic ground shaking, and no mitigation is required.

a) Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

iii) Seismic-related ground failure, including liquefaction?

iv) Landslides?

Less Than Significant Impact.

According to the Seismic Hazard Zones Map for the Pasadena Quadrangle prepared by the California Geological Survey (CGS), the Project site is not within a zone identified as susceptible to liquefaction or landslides (CGS 1999). Additionally, the Project does not include any habitable structures or structures whose height, mass, or materials would pose a hazard in the event of an earthquake. Also, the Project would be designed in compliance with applicable building code regulations (Title 14 of the Pasadena Municipal Code, which incorporates the California Building Code, as described above) which would ensure that the structural integrity of the proposed improvements can withstand seismic hazards. Through compliance with applicable regulations, impacts related to seismic hazards would be less than significant, and no mitigation is required.

b) Would the project result in substantial soil erosion or the loss of topsoil?

Less than Significant Impact.

The largest source of erosion and topsoil loss, particularly in a developed environment, is uncontrolled drainage during construction. Since the Project site would have less than one acre of ground disturbance, compliance with the State Water Resources Control Board's (SWRCB's) National Pollutant Discharge Elimination System (NPDES) Construction General Permit[3] would not be required. The main activity of the Project would be well drilling, which would result in a minimal disturbance of topsoil. Site preparation activities would disturb the on-site grasses and soil during construction; however, the site would be restored with grasses and plants following well drilling activities. This would minimize soil erosion and loss of topsoil following construction of the Project.

Implementation of the Project would result in a slight increase in impervious surface area associated with the new submersible well pump and associated 2-foot concrete platform; however, the pump would not be enclosed in a building or other type of enclosure. Therefore, operation of the Project would not increase erosion of superficial soils. There would be a less than significant impact related to soil erosion and loss of topsoil, and no mitigation is required.

c) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in onsite or offsite landslide, lateral spreading, subsidence, liquefaction, or collapse?

d) Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Less than Significant Impact.

Liquefaction and landslides are addressed under Thresholds 4.7(a)(iii) and 4.7 (a)(iv) above, and there would be a less than significant impact associated with these conditions. The existence of groundwater production wells in the vicinity (the existing Garfield Well and Villa Well) may also make this area susceptible to subsidence, although no significant regional subsidence has occurred in the City. However, the existing wells are inactive and therefore would not contribute to adversely affecting local hydrologic conditions. The engineering design of the proposed well has expressly considered operations to achieve the groundwater remediation goal without adversely affecting local hydrologic conditions.

Expansive soils are soils that swell when they absorb water and shrink as they dry, such as pure clay soils and claystone. The hazard associated with expansive soils is that they can overstress and cause damage to the foundation of buildings set on top of them. The Project would not construct a building; however, there would be a concrete platform on which the submersible water pump would be placed. Based on data from nearby well drilling, subsurface materials at the proposed well drilling location are expected to consist of sand, gravel, silt, and clay in varying proportions (Wood Rodgers 2020). The Project does not include any habitable structures or structures whose height, mass, or materials would pose a hazard in the presence of unstable geologic materials; and would be constructed in compliance with applicable building code requirements (Title 14 of the Pasadena Municipal Code, which incorporates the California Building Code). Therefore, there would be a less than significant impact related to the potential presence of unstable geologic units, and no mitigation is required.

[3] Order No. 2009-0009-DWQ, NPDES No. CAS000002, adopted by the SWRCB on September 2, 2009 (effective for all project sites on July 1, 2010) and most recently amended by Order No. 2012-0006-DWQ on July 17, 2012.

e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

No Impact.

There are no proposed sanitary facilities associated with the Project. Therefore, no impacts related to the use of septic tanks or alternative wastewater disposal systems would occur with the Project, and no mitigation is required.

f) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less than Significant with Mitigation.

As stated above, this paleontological analysis is based on the results of a literature review and records search conducted through the LACM, an online search of localities listed on the Paleobiology Database (paleobiodb.org), and a review of geologic maps and aerials. The records search did not identify any previously recorded paleontological resources within the Project site. However, there are documented fossil localities near the Project site from the same sedimentary deposits that occur in the proposed Project site, either at the surface or at depth. Examples of fossils that have been recovered from the area include Fish (Osteichthyes), Invertebrates, Birds (Aves), Mastodon (Mammut), and Horse (Equus).

The Project intends to drill into native sediment up to 950 feet bgs. To avoid significant impacts to paleontological resources, MM GEO-1 requires that a qualified Paleontologist shall be retained for on-call services in the event of the discovery of paleontologically-sensitive rock formations (i.e., bedrock) during ground disturbing activities. Any discovered resources would be evaluated for significance by the monitor, and appropriate exploration, salvage, and curation of significant paleontological resources, if necessary, would also be conducted, and a mitigation plan would be developed. Impacts on paleontological resources would be less than significant with implementation of MM GEO-1.

4.7.3 MITIGATION MEASURES

MM GEO-1 Prior to commencement of ground-disturbing activities, the City shall retain a qualified Paleontologist for on-call services in the event of a discovery of paleontological resources below the ground surface. The Paleontologist shall be present at the pre-construction conference; and shall establish, in cooperation with the Contractor, procedures for temporarily halting or redirecting work to permit the sampling, identification, and evaluation of the paleontological resources. Should these resources be found during ground-disturbing activities for the Project, the Paleontologist shall first determine whether it is a "unique paleontological resource" pursuant to the California Environmental Quality Act (CEQA, i.e., Section 21083.2[g] of the California Public Resources Code), or a significant paleontologically-sensitive rock formation. If the above-mentioned resources are found during ground-disturbing activities, the Paleontologist shall formulate a report and a mitigation plan in consultation with the City of Pasadena that satisfies the requirements of the above-referenced sections. The disposition of the resources shall be subject to approval by the City. If resources are discovered, work may proceed in other areas of the site, subject to the direction of the Paleontologist.

4.8 GREENHOUSE GAS EMISSIONS	Potentially Significant Impact	Less Than Significant With Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

4.8.1 EXISTING CONDITIONS

Climate change refers to any significant change in temperature, precipitation, or wind patterns over a period of time. Climate change may result from natural factors, natural processes, and human activities that change the composition of the atmosphere and alter the surface and features of the land. Significant changes in global climate patterns have recently been associated with global warming, which is an average increase in the temperature of the atmosphere near the Earth's surface; this is attributed to an accumulation of greenhouse gas (GHG) emissions in the atmosphere. GHGs trap heat in the atmosphere which, in turn, increases the Earth's surface temperature. Some GHGs occur naturally and are emitted to the atmosphere through natural processes, while others are created and emitted solely through human activities. The emission of GHGs through fossil fuel combustion in conjunction with other human activities are closely associated with global warming.

GHGs, as defined under California's Assembly Bill (AB) 32, include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). General discussions on climate change often include water vapor, ozone, and aerosols in the GHG category. Water vapor and atmospheric ozone are not gases that are formed directly in the construction or operation of development projects, nor can they be controlled in these projects. Aerosols are not gases. While these elements have a role in climate change, they are not considered by either regulatory bodies, such as CARB, or climate change groups, such as the Climate Registry, as gases to be reported or analyzed for control. Therefore, no further discussion of water vapor, ozone, or aerosols is provided.

GHGs vary widely in the power of their climatic effects; therefore, climate scientists have established a unit called Global Warming Potential (GWP). The GWP of a gas is a measure of both potency and lifespan in the atmosphere as compared to CO_2. For example, since CH_4 and N_2O are approximately 28 and 265 times more powerful than CO_2, respectively, in their ability to trap heat in the atmosphere, they have GWPs of 28 and 265, respectively (CO_2 has a GWP of 1). Carbon dioxide equivalent (CO_2e) is a quantity that enables all GHG emissions to be considered as a group despite their varying GWPs. The GWP of each GHG is multiplied by the prevalence of that gas to produce CO_2e. The atmospheric lifetime and GWP of selected GHGs are summarized in Table 4-7, Global Warming Potentials and Atmospheric Lifetimes.

TABLE 4-7
GLOBAL WARMING POTENTIALS AND ATMOSPHERIC LIFETIMES

Greenhouse Gas (ppt)	Atmospheric Lifetime (years)	Global Warming Potential (100-year time horizon)
Carbon Dioxide (CO_2)	50.0–200.0	1
Methane (CH_4) (ppb)	12.4	28
Nitrous Oxide (N_2O) (ppb)	121.0	265
HFC-134a	13.4	1,300
PFC-14 Tetrafluoromethane (CF_4)	50,000.0	6,630
PFC-116 Hexafluoroethane (C_2F_6)	10,000.0	11,100
Sulfur Hexafluoride (SF_6)	3,200.0	23,500
HFC: hydrofluorocarbons; PFC: perfluorocarbons; ppt: parts per trillion; ppb: parts per billion Source: IPCC 2013.		

State of California Regulations and Legislation

Assembly Bill 32 – the California Global Warming Solutions Act of 2006 (AB 32) recognizes that California is the source of substantial amounts of GHG emissions. The statute states that:

> Global warming poses a serious threat to the economic wellbeing, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems.

To avert these consequences, AB 32 establishes a State goal of reducing GHG emissions to 1990 levels by the year 2020, which is a reduction of approximately 16 percent from forecasted emission levels, with further reductions to follow (CARB 2011). Executive Order B-30-15 establishes an interim GHG reduction goal of 40 percent less than 1990 levels by the year 2030. Executive Order S-3-05 establishes a GHG reduction goal of 80 percent less than 1990 levels by the year 2050.

California Executive Order B-30-15 (April 29, 2015) sets an “interim” statewide emission target to reduce GHG emissions to 40 percent below 1990 levels by 2030 and directed State agencies with jurisdiction over GHG emissions to implement measures pursuant to statutory authority to achieve this 2030 target and the 2050 target of 80 percent below 1990 levels.

On September 8, 2016, Governor Edmund G. “Jerry” Brown signed Senate Bill (SB) 32 to codify the GHG reduction goals of EO B-30-15, requiring the State to reduce GHG emissions by 40 percent below 1990 levels by 2030 (Health and Safety Code Section 38566). This goal is expected to keep the State on track to meeting the goal set by EO S-3-05 of reducing GHG emissions by 80 percent below 1990 levels by 2050. SB 32’s findings state that CARB will “achieve the state’s more stringent greenhouse gas emission reductions in a manner that benefits the state’s most disadvantaged communities and is transparent and accountable to the public and the Legislature.”

Local

The City of Pasadena has prepared and adopted a Climate Action Plan (CAP) (City of Pasadena 2018). The City's CAP includes the following components: a summary of existing state and local initiatives addressing climate change; community-wide GHG inventory and emissions forecasts; GHG reduction goals, measures, and actions; plans of implementation and monitoring of the plan; and adaptation strategies and climate change preparedness. This document builds upon the City's existing sustainability efforts, such as the Green City Action Plan and provides a framework to further reduce GHG emissions throughout the City (City of Pasadena 2006). It is accepted as very unlikely that any individual development project such as the size and character of the proposed Project would have GHG emissions of a magnitude to directly impact global climate change; therefore, any impact would be considered on a cumulative basis. As part of the City's CAP, a Consistency Checklist was adopted to assess climate change impacts from new development projects to demonstrate consistency with the CAP. However, the Project is not considered a new development project, as it is a replacement of existing groundwater pumping infrastructure for potable water. Therefore, the analysis of the Project's impacts are based on consistency with applicable GHG reduction plans, regulations, and programs, as discussed below.

4.8.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less than Significant Impact.

Construction

Construction GHG emissions are generated by vehicle engine exhaust from construction equipment, on-road hauling trucks, vendor trips, and worker commuting trips. Construction GHG emissions were calculated by using CalEEMod. The model and construction assumptions are described in Section 4.3, Air Quality, and are included in Appendix B. The results are output in metric tons of carbon dioxide equivalent ($MTCO_2e$) for each year of construction.

GHG emissions generated from construction activities are finite and occur for a relatively short-term period. Unlike the numerous opportunities available to reduce a project's long-term GHG emissions through design features, operational restrictions, use of green-building materials, or other methods, GHG-reduction measures for construction equipment are relatively limited. Therefore, SCAQMD staff recommends that construction emissions be amortized over a 30-year project lifetime so that GHG-reduction measures will address construction GHG emissions as part of the operational GHG-reduction strategies (SCAQMD 2008). Additionally, per the City's CAP, the City also recommends amortization of construction emissions over 30 years. As shown in Table 4-8, GHG Emissions from Project Implementation, the 30-year amortized construction emissions of the Project would be 9 $MTCO_2e$/yr.

TABLE 4-8
GHG EMISSIONS FROM PROJECT IMPLEMENTATION

Year	Emissions ($MTCO_2e$)
2021	180
2022	77
Total Construction Emissions	257
Amortized Emissions[1]	9
Operational Emissions	1,057
Total Annual Emissions[2]	**1,065**

$MTCO_2e$: metric tons of carbon dioxide equivalent
[1] Combined total amortized over 30 years.
[2] Combined amortized emissions with operational emissions.
Source: Appendix B, Air Quality and Greenhouse Gas Emissions Modeling Data.

Operations

Operational GHG emissions for the proposed Project are estimated by including electricity, which would amount to approximately 1,397,880 kilowatt hours per year (kWh/yr),and mobile source emissions. CalEEMod incorporates local energy emission factors and mitigation measures based on the California Air Pollution Control Officers Association's (CAPCOA's) publication *Quantifying Greenhouse Gas Mitigation Measures* (CAPCOA 2010) and the *California Climate Action Registry General Reporting Protocol* (CCAR 2009). Existing monitoring trips to the inactive Garfield Well are currently one round trip per week. With implementation of the Project, there would be one monitoring and maintenance round trip per day, including weekends, for an increase in six round trips per week compared to existing trips. The total estimated annual GHG emissions from operation of the proposed well would be 1,057 $MTCO_2e$/yr, primarily from electrical consumption of the proposed well. The estimated increase in annual GHG emissions, including amortized construction emissions, would be 1,065 $MTCO_2e$/yr, as shown in Table 4-8. It is very unlikely that any individual development project would have GHG emissions of a magnitude to directly impact global climate change; therefore, any impact would be considered on a cumulative basis. The City's Water Integrated Resources Plan (WIRP) adopted in 2011, identifies a preferred water resource portfolio with emphasis on water conservation and local water supply. The CAP states, "The WIRP, adopted in 2011, calls for a long-term water resource strategy through 2035 and contains information on Pasadena Water and Power's (PWP) water demands, water supply and conservation options. The plan identifies for a preferred water resource portfolio that includes aggressive water conservation and increasing local water supplies. These actions will reduce GHG emissions by reducing demand for imported water which utilize significant energy to pump water from Northern California and the Colorado River" (City of Pasadena 2018).

The Project would provide local water to the City. This is consistent with the CAP's GHG reduction measure of increasing local water supplies. Groundwater in the Raymond Groundwater Basin is mainly replenished from rainfall in the area, thereby providing a local sustainable water source. Implementation of the Project would reduce the need for imported water, and would thus result in lower water-related emissions than anticipated in the CAP. As such, the Project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment. Therefore, there would be a less than significant impact, and no mitigation is required.

b) Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less than Significant Impact.

The quantitative goal of AB 32 is to reduce GHG emissions to 1990 levels by 2020, and the goal of SB 32 is the 40 percent reduction in 1990 levels by 2030. Plans and regulations (e.g., GHG emissions standards for vehicles and the Low Carbon Fuel Standard) are being implemented at the statewide level, and are aimed at reducing GHG emissions from major sources, such as transportation exhaust and building energy consumption, rather than replacement of small utility infrastructure elements. The proposed Project would not conflict with or obstruct implementation of AB 32 or SB 32. As demonstrated in response to Threshold 4.8(a), the Project would provide local water to Pasadena residents, which would require less energy to transport and consequently reduce GHG emissions by reducing demand for imported water, which utilizes a significant amount of energy to pump and transport water from Northern California and the Colorado River. This would result in lower water-related emissions as anticipated in the CAP. Because the CAP has identified development of local water supplies as part of the CAP's actions to reduce GHG emissions, the Project would be consistent with the CAP and would help the City in meeting its GHG reduction targets. The Project would reduce the City's dependence on imported water and its community-wide GHG emissions from the water sector. Therefore, implementation of the Project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions. There would be a less than significant impact, and no mitigation is required.

4.8.3 MITIGATION MEASURES

There would be no significant impacts related to GHG emissions; therefore, no mitigation measures are required.

4.9 HAZARDS AND HAZARDOUS MATERIALS	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☒	☐	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☒	☐	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter-mile of an existing or proposed school?	☐	☐	☒	☐
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	☐	☐	☐	☒
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	☐	☐	☐	☒
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?	☐	☐	☐	☒

Information for this section is based primarily on the Final Garfield Replacement Well Design Report prepared for PWP, dated October 2020 (Wood Rodgers 2020) (Appendix A) and the Environmental Data Resources (EDR) Radius Map Report with Geocheck for the Garfield Replacement Well, dated December 2020 (Appendix F).

4.9.1 EXISTING CONDITIONS

The Project site is located within the Raymond Groundwater Basin. Non-point source constituents of concern within groundwater of the Pasadena Subarea of the Raymond Groundwater Basin include total dissolved solids (TDS), fluoride, and radionuclides. Groundwater in the vicinity of the Garfield and Villa Wells has been primarily impacted by perchlorate and nitrate (as N) contamination but appear to have not been impacted by VOC contamination. Perchlorate is an inorganic compound that is not known to naturally occur in the subsurface. It originates in the environment as a contaminant because of waste discharge from the manufacturing or testing of solid rocket fuels. Perchlorate is highly soluble in groundwater and has been detected in the Garfield Well. Detections of perchlorate at the Garfield Well may be associated with the Superfund site that exists at the Jet Propulsion Laboratories (JPL), located northwest of the Project site. The Division of Drinking Water (DDW) has established a primary Maximum Contaminant Level (MCL) of 6 micrograms per liter (µg/L) for perchlorate. The most recent data available for the Garfield Well (2017) indicated perchlorate was non-detect (Wood Rodgers 2020). Nitrate is an inorganic compound and an anthropogenic contaminant, which does not often occur naturally in the

subsurface. DDW has established a primary MCL of 10 mg/L for nitrate (as N). The Garfield Well has no reported exceedances of the DDW MCL (Wood Rodgers 2020). TDS in groundwater is a direct measurement of the concentration of dissolved solids in the water, such as minerals and salts, metals, and cations or anions (i.e., calcium, potassium, sodium, chlorides). TDS concentrations reported in the Garfield Well has largely remained below the secondary MCL over the period of record. The Garfield Well exhibits the lowest TDS concentrations of the selected PWP Wells, with the most recent TDS measurement of 300 mg/L in 2017 (Wood Rodgers 2020).

Trichloroethylene (TCE) is a VOC chemical and anthropogenic (man-made) contaminant often associated with commercial or manufacturing facilities that make and supply refrigerant chemicals and degreasers. Detections of TCE can be found throughout the Raymond Groundwater Basin. However, TCE has not been detected in the Garfield Well over its period of record, from 1988 to 2017 (Wood Rodgers 2020). Point-sources of groundwater contamination are results of specific land uses and associated activities where contaminants have, or have the potential to be, released into the subsurface. The State of California Water Resources Control Board (SWRCB) GeoTracker program maintains a database for sites that may impact water quality in California. It includes records for sites that require cleanup, such as Leaking Underground Storage Tank (LUST) sites, cleanup program sites, and Department of Defense sites. There are eight known contaminant sites located within one mile of the proposed well site. These sites include the following: one open cleanup program site, three closed LUSTs, and four permitted underground storage tank sites. All the identified sites identified are reported as not posing a threat to the groundwater quality (Wood Rodgers 2020).

The Project site is not located within a Very High Fire Hazard Severity Zone (VHFHSZ) at the local, State, or federal designation (CalFire 2011).

4.9.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less than Significant with Mitigation.

The proposed Project is intended to draw potable water from the ground. As such, the Project would not transport, use, or dispose of hazardous materials during operation of the Project. During construction and drilling of the well, cuttings would be generated during the borehole drilling and drilling fluids (mud) would be used to cool and lubricate the drill bit. Waste generated during the development and testing of the proposed well would be conveyed to a discharge point by means of temporary above-ground piping. As depicted on Exhibit 2-2, the discharge point would be located approximately 140 feet northwest of the proposed well location. The discharge point is an existing storm drain manhole situated in a concrete sidewalk. This discharge point connects to a Los Angeles County Flood Control District (LACFCD) 42-inch diameter storm drain main line in Garfield Avenue. During construction, settlement tanks would be located on site to settle the solids from the highly turbid water that would be discharged during well development. Upon settlement of suspended solids in the settlement tanks, the water would be conveyed to the discharge point. The settled solids in the tanks (well drilling cuttings) would be hauled off by the drilling contractor, as necessary, during well development. During discharge of the water, water quality would be

measured by the contractor. This water quality measurement would include monitoring for chlorine, turbidity, pH, and any other requirements of the LACFCD. Prior to discharging, the contractor or responsible discharged would provide the required notifications to PWP and LACFCD.

Drill cuttings and mud could contain hazardous contaminants from contact with the groundwater. As stated above, the types of contaminants present in the groundwater may include perchlorate, Nitrate (as N), TDS, or TCE. If these contaminants were not handled properly and were to be released into the environment and/or workers were exposed to these contaminants, significant impacts to the public and the environment could result.

Well drilling is estimated to result in 202 cy of drill cuttings solids to be exported off-site and 40,000 gallons of drilling fluids to be exported offsite. All drill cuttings and drilling fluids generated during the drilling of the well would be contained, tested, and disposed of off-site by the drilling contractor. Disposal of all materials would be required to be conducted in a legal manner per all applicable local, State, and federal regulations by the contractor, including regulations promulgated by the Los Angeles Regional Water Quality Control Board. Construction activities are required to comply with existing federal, State, and local regulations regarding hazardous material use, storage, disposal, and transport to prevent risks to public health and safety, including but not limited to regulations set forth by the U.S. Environmental Protection Agency; U.S. Department of Transportation (CFR Title 49, Hazardous Materials Transportation Act; and Title 40 261.31, 261.21, and 261.24); Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (40 CFR parts 300, 311, 355, 370, and 373); Resource Conservation and Recovery Act (RCRA) (40 CFR parts 240-299); Toxic Substances Control Act (40 CFR parts 745, 761 and 763); California Department of Toxic Substances Control (DTSC); California Department of Transportation (Caltrans); California Division of Drinking Water; and the California Occupational Safety and Health Administration (CalOSHA). All on-site generated waste during both construction and operation that meets hazardous waste criteria will be stored, manifested, transported, and disposed of in accordance applicable regulations and in a manner to the satisfaction of the local Certified Unified Program Agency (CUPA), the Los Angeles County Fire Department. Waste samples from these containers shall be analyzed per all local, state, and federal regulations. Based on the laboratory results, the waste shall be classified as hazardous or non-hazardous and waste profiles and manifests for the waste shall be prepared. The City shall ensure the selection of a U.S. Environmental Protection Agency (USEPA)-certified waste disposal facility and a licensed transporter to haul off the waste.

All public water supply wells must be constructed in accordance with the community water system well requirements in California Department of Water Resources (DWR) Bulletins 74-81 and 74-90 and be constructed in accordance with the American Water Works Association (AWWA) Standard A100-06 for water wells. New wells must also comply with DDW-specific minimum horizontal distances to sanitary hazards. The Garfield Replacement Well is required to comply with Section 64560, Article 3, Water Sources, of the California Code of Regulations (CCR), which provides requirements associated with installation of new drinking water production wells and is administered by the DDW. The new well must also comply with DDW-specified minimum horizontal distances to sanitary hazards and receive approval for a waiver (per Article 1.5 of Section 64551.100, Waivers and Alternatives) of the CCR for any alternative setback distances, if necessary. Additionally, the proposed well is required to comply with the community water system well requirements in the California Department of Water Resources Bulletins 74-81 and 74-90 and the American Water Works Associated Standard A100-06 (Water Wells). Compliance with these regulations would ensure that the Garfield Replacement Well would be properly constructed and would not result in accidental releases of contaminated water. The proposed well location meets all required setbacks of the DDW, except for a nearby storm drain manhole located approximately 64 feet northeast of the proposed well location. The storm drain provides site

drainage from the soccer field immediately north of the Project site. However, it would not be used for discharge of settled and clean water from drilling activities for the Project. The Project would discharge this water, as discussed above, to the storm drain manhole located approximately 140 feet northwest of the proposed well. As such, the proposed well would not create a significant hazard to the public or environment through accidental conditions from positioning of the well to the storm drain manhole located 64 feet northeast of the proposed well. PWP has received verbal confirmation from DDW that a variance for the storm sewer manhole would be approved. However, PWP will also include a written request for a variance with the required well permitting application, in order to receive written approval from DDW to waive the required minimum offset from this storm drain.

During well development, a sediment filtration and containment system would be installed at the well site; this system would be used to process water for all stages of well development. The Project would be required to follow all the requirements set forth in the California Safe Drinking Water Act, California Health and Safety Code and any regulations, standards or orders adopted thereunder. All water supplied by PWP for domestic purposes shall meet all MCLs established by the State Division of Drinking Water.

Construction of the Project would also involve the limited transport, storage, use, and/or disposal of common construction-related hazardous materials, including oil and grease, solvents, diesel fuel, and other chemicals in vehicles, trucks, and heavy equipment. These materials could be released into the environment in small amounts in the event of an accident. To prevent environmental hazards, the handling of hazardous materials used in construction equipment would be conducted in accordance with existing regulations.

In addition to the complying with applicable regulations, described above, MM HAZ-1 includes site-specific measures to avoid impacts associated with hazardous material spills and accidents during construction activities. These include inspecting trucks for oil, gasoline, or other vehicle fluid leaks; locating fueling areas and storage of hazardous materials away from water bodies and drainages; creating a plan for refueling; removing hazardous material spills and contaminated soils; controlling and containing hazardous materials spills; and ensuring cleanup kits are available.

In summary, all soil and other wastes generated by the Project that require disposal would be subject to laboratory testing; appropriate characterization, classification, and manifest preparation; and licensed transport per regulations and MM HAZ-1. Construction and operation of the Project would not result in a significant hazard to the public or the environment through compliance with regulations and MM HAZ-1 (construction-period only). With mitigation, the Project would result in less than significant impacts associated with the transport, use, or disposal of hazardous materials, and with potential accident conditions involving the release of hazardous materials into the environment.

c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter-mile of an existing or proposed school?

Less than Significant Impact.

There are four schools or similar facilities located within approximately ¼-mile of the Project site:

- Madison Elementary School and Madison Family Center, located at 515 E. Ashtabula St., Pasadena, 0.25 miles northeast of the Project site

- Friends Western School, located at 524 Orange Grove Blvd., Pasadena, 0.22 miles northeast of the Project site;
- Options for Learning—Villa Parke Center (preschool), located at 363 E. Villa St., Pasadena, 0.05 miles southeast of the Project site; and
- Pasadena Day Nursery for Child Development, located at 450 Garfield Avenue, Pasadena, 0.13 miles south of the Project site.

All distances are approximate and measured at the nearest points between the proposed Project components and the schools.

As discussed under Thresholds 4.9(a) and (b), construction and operation of the Project would involve the handling of hazardous materials/wastes, which would be conducted in accordance with all applicable local, State, and federal laws. As discussed in Section 4.3, Air Quality, construction and operation of the Project, including associated truck trips, would not generate hazardous emissions and would not expose any nearby sensitive receptors to substantial pollutant concentrations. Impacts would be less than significant, and no mitigation is required.

d) Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

No Impact.

The Project site is not located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. As such, there would be no impact, and no mitigation is required.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

No Impact.

There are no airports or airstrips within two miles of the Project site. The nearest airport is the San Gabriel Valley Airport, which is located approximately 7.8 miles southeast of the Project site. The Project would not involve the construction of high-rise structures or involve activities that could pose a safety hazard to helicopter or aircraft operations or airport activities, nor would it conflict with an airport land use plan. There would be no impact to airports or airstrips from the Project, and no mitigation is required.

f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less than Significant Impact.

The Project site is not located on public-access roads such that emergency vehicle access or evacuation through the site is considered foreseeable. In the event of an emergency at Villa Parke, there are additional ingress and egress points. The Project would use the existing access road at the Project site, as shown on Exhibit 2-2, throughout construction and operation of the Project. In addition, with permission of Pasadena Parks and Recreation, the Project would utilize an open space recreation area of approximately 3,000 sf, located south of the Project's proposed

work area, as a turn radius area for trucks to enter the Project site, as shown on Exhibit 2-2. Thus, emergency access would always be maintained. There would be a less than significant impact, and no mitigation is required.

g) Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?

No Impact.

According to the *Fire and Resource Assessment Program Very High Fire Hazard Severity Zones in LRA As Recommended by CAL FIRE* map for the City of Pasadena, the Project site is not located within or near any areas designated as a Very High Fire Hazard Severity Zone (VHFHSZ) in either a Local Responsibility Area (LRA) or a State Responsibility Area (SRA). The nearest VHFHSZ-designated area is located approximately 1.37 miles west of the Project site (CAL FIRE 2011). As such, the Project would not expose people or structures, directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires. Therefore, there would be no impact.

4.9.3 MITIGATION MEASURES

MM HAZ-1 During all earthmoving and construction activities, the City shall require the Contractors to implement the following measures:

- Trucks and equipment entering the site shall be inspected to be free from oil, gasoline, or other vehicle fluid leaks.
- Any hazardous material spills and/or contaminated soils shall be excavated immediately upon discovery and tested prior to disposal to ensure proper handling and transport in compliance with applicable federal, state, and local regulations governing the handling of hazardous materials.
- The Contractor shall maintain hazardous materials spill control, containment, and cleanup kits of adequate size and materials for potential accidental spills and releases.

4.10 HYDROLOGY AND WATER QUALITY	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the project:				
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	☐	☐	☒	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:	☐	☐	☒	☐
i) result in substantial erosion or siltation onsite or offsite;	☐	☐	☒	☐
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	☐	☐	☒	☐
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐
iv) impede or redirect flood flows?				
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☒	☐

4.10.1 EXISTING CONDITIONS

The Raymond Groundwater Basin, which underlies the Project site, is situated on an alluvial valley that covers approximately 40 square miles and that is bordered by the San Gabriel Mountains on the north; the San Rafael Hills on the west; and the Raymond Fault on the south and east. The general east-west trend of the San Gabriel Mountains, the north-south trend of the San Rafael Hills, and northeast trend of the Raymond Fault result in the basin having a triangular form. The Raymond Groundwater Basin is divided into the Monk Hill Subbasin to the west, the Santa Anita Subbasin to the east, and the Pasadena Subbasin in the central portion (beneath the Project site); these designations are based on differences in elevation and groundwater flow. The Raymond Groundwater Basin is recharged by the Arroyo Seco, a tributary to the Los Angeles River, and by Eaton Wash, Santa Anita Wash, and other streams in the watershed (DWR 2004). Pumping rights to the Raymond Groundwater Basin are adjudicated and the Raymond Basin Management Board administers the provisions of the adjudication decree. The Board coordinates the pumping rights and the groundwater storage accounts of public and private water agencies, including the PWP.

As stated above in Section 2.3.2, Groundwater Quality, historical groundwater quality data was evaluated with respect to State and federal drinking water requirements. Water quality data reviewed from surrounding municipal water supply wells suggest that perchlorate, nitrate (as N), total dissolved solids (TDS), and trichloroethylene (TCE) are the primary constituents of concern

detected in groundwater produced from the nearby Garfield and Villa Wells; however, concentrations of these constituents have historically been near or below their respective DDW MCLs, with few instances of MCL exceedances (Wood Rodgers 2020). Groundwater in the vicinity of the Garfield and Villa Wells has been primarily impacted by perchlorate and nitrate (as N) contamination but appear to have not been impacted by VOC contamination. Perchlorate is an inorganic compound that is not known to naturally occur in the subsurface. It originates in the environment as a contaminant because of waste discharge from the manufacturing or testing of solid rocket fuels. Perchlorate is highly soluble in groundwater and has been detected in the Garfield Well. Detections of perchlorate at the Garfield Well may be associated with the Superfund site that exists at JPL, located northwest of the Project site. The DDW has established a primary MCL of 6 micrograms per liter (µg/L) for perchlorate. The most recent data available for the Garfield Well (2017) indicated that perchlorate was not detected (Wood Rodgers 2020).

The Project site is currently developed, and stormwater sheet flows across the asphalt pavement, grass ribbon gutters, and storm drains toward abutting streets. There are no natural or channelized drainage features occurring within the Project area.

4.10.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less than Significant Impact.

As discussed in Section 4.7, Geology and Soils, because the Project site would have less than one acre of ground disturbance, compliance with the NPDES Construction General Permit would not be required. There would be no grading as a result of the Project. Best management practices (BMPs) for storm water control, such as straw wattles or filter socks, will prevent sediment-laden runoff from areas of ground disturbance. As such, there would not be substantial pollutants introduced into storm water runoff, including sediment, during construction of the Project. Handling of hazardous materials and wastes during construction would be in compliance with federal, State, and local requirements, as discussed in Section 4.9, Hazards and Hazardous Materials.

Installation and operation of the Garfield Replacement Well would require an amended domestic water supply permit pursuant to Section 64560 of Title 22 of the California Code of Regulations. This would require submittal of a permit amendment application and technical report to the DDW that will include a source water assessment; documentation demonstrating that a well site control zone with a 50-foot-radius around the site can be established for protecting the source from vandalism, tampering, or other threats; design and specifications; and California Environmental Quality Act documentation (i.e., this IS/MND, if adopted). These regulations also require that after DDW has provided written or oral approval amendment application and the well has been constructed, the water agency (in this case, PWP) would be required to submit a copy of the well permit from the City; DWR well completion report; a copy of any pump tests required by CDPH; results of all required water quality analyses; and as-built plans. Finally, the new well must also comply with DDW-specified minimum horizontal distances to sanitary hazards (e.g., manholes, storage tanks, septic tanks). Exhibit 4-2, Regulatory Offset Map for Proposed Well, depicts the radii required by DDW, including the following setback requirements: well site control zone (50 feet), sanitary sewer line or lateral (50 feet), sewer manhole (100 feet), storm drain line or lateral (50 feet), and storm drain manhole (100 feet). The planned well site meets all the required setbacks except for the storm drain manhole. The storm drain manhole nearest the Project site is

approximately 64 feet northeast of the proposed well location and provides site drainage from the soccer field north of the Project site.

As a result, PWP must submit a waiver to DDW to waive the required minimum offset from the storm drain manhole, per Section 64551.100, Waivers and Alternatives, of the California Code of Regulations. PWP must demonstrate to the State Board that a less than minimum offset would provide at least the same level of protection to public health and obtain written approval from the State Board prior to implementation of the Project (DDW 2017). Upon issuance of a waiver, the well site would be in compliance with DDW setback requirements. It should also be noted that even though the storm drain manhole is less than 100 feet from the proposed well location, water would be discharged to a different storm drain manhole outside the 100-foot offset (140 feet) from the proposed well during construction. The Project would not use the storm drain manhole 64 feet from the proposed well for discharging water during drilling. In addition to DDW requirements pursuant to Title 22, the new well must be constructed in compliance with the community water system well requirements in the California Department of Water Resources Bulletins 74-81 and 74-90 and the American Water Works Associated Standard A100-06 (Water Wells). Through compliance with applicable permitting and regulations, the Garfield Replacement Well would not violate water quality standards/waste discharge requirements or otherwise degrade water quality.

The Project would be required to comply with RWQCB Order No. R4-2013-0043, "Waste Discharge Requirements for Discharges of Treated Groundwater from Investigation and/or Cleanup of Volatile Organic Compound Contaminated Sites to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties". Additionally, the Project would be required to comply with the Los Angeles RWQCB Order No. R4-2003-0108, "Waste Discharge Requirements for Discharges of Groundwater from Potable Water Supply Wells to Surface Waters in Coastal Watersheds of Los Angeles and Ventura Counties". The requirements of Order No. R4-2013-0043 and R4-2003-0108 are consistent with water quality control policies, plans, and regulations in the California Water Code and the revised *Water Quality Control Plan for the Los Angeles Basin*. Therefore, discharges into surface waters from the Project would not violate waste discharge requirements or water quality.

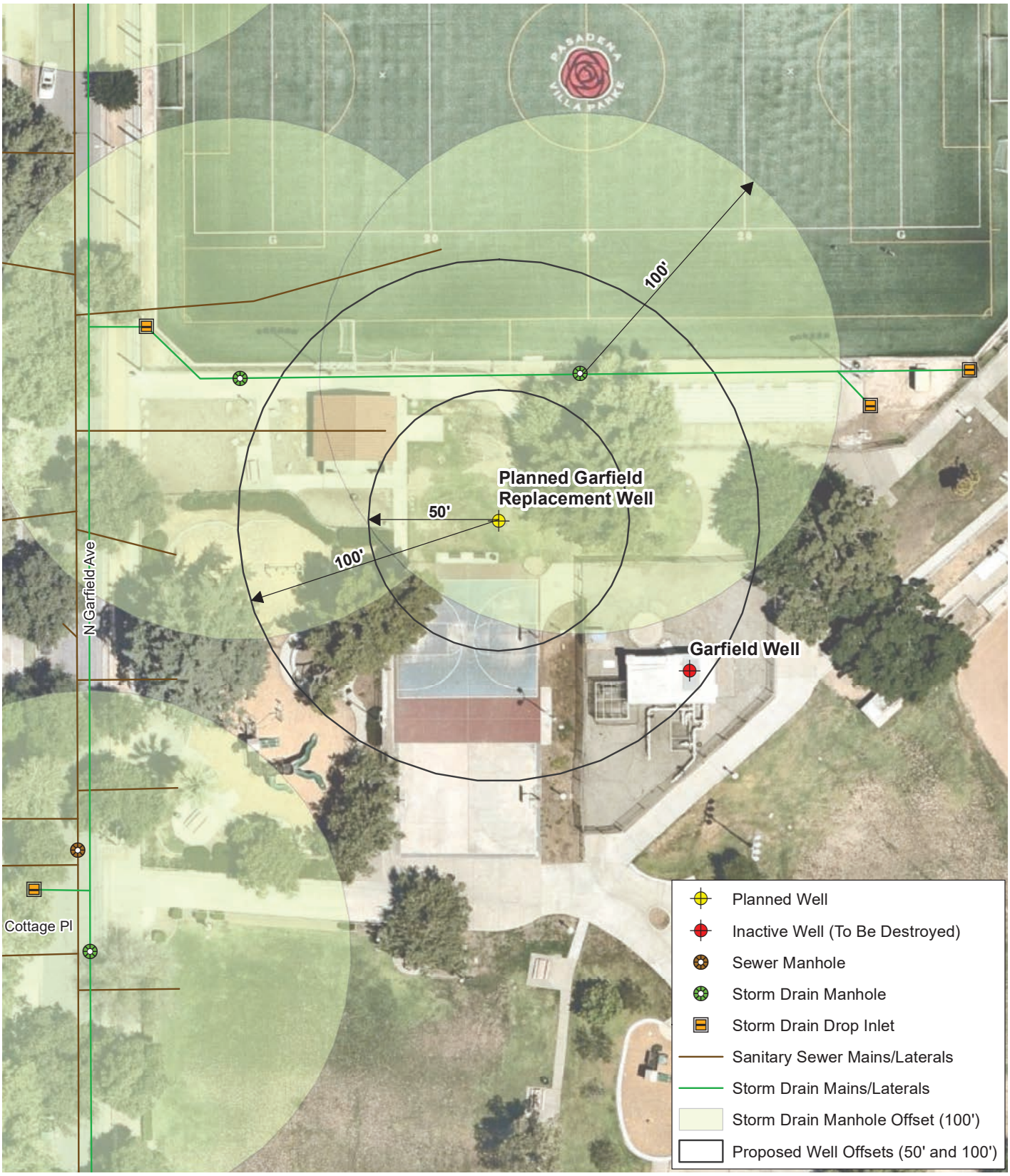
There would be less than significant impacts on water quality during construction and operation with implementation of applicable regulations and no mitigation is required.

b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Less than Significant Impact.

The Project's pumping extraction from the Pasadena Subarea of the Raymond Groundwater Basin during construction, operation, and maintenance activities will be aggregated with PWP's total fiscal year groundwater production to conform to the Raymond Basin Adjudication. Historic static groundwater elevations in the nearby Villa Well were slightly higher (approximately 10 feet higher) in the mid-1920s as compared to current levels. However, groundwater elevations in the existing Garfield Well have been trending upwards since 1990, with the most recent reported elevation of 677 feet MSL or 220 feet bgs. It is estimated that the proposed well would have a static water level of approximately 230 bgs and may be capable of producing 1,500 gallons per minute (gpm) (Wood Rodgers 2020).



Source: Wood Rodgers 2020 (October)

Regulatory Offset Map for Proposed Well

Exhibit 4-2

Garfield Replacement Well Project

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Construction activities would require water for dust control, equipment cleaning, and incidental uses, but this water demand would be provided by an existing water source within the Garfield Well. There would be a less than significant impact, and no mitigation is required.

There are nine Regional Water Quality Control Boards (RWQCBs) in California. The Project site is in Region 4, the Los Angeles Region. The State Water Resources Control Board (SWRCB) and the Los Angeles RWQCB have adopted a Water Quality Control Plan (or "Basin Plan") for the Los Angeles Region. The Basin Plan contains goals and policies, descriptions of conditions, and proposed solutions to surface and groundwater issues. The Basin Plan also establishes water quality standards for surface and groundwater resources and includes beneficial uses and levels of water quality that must be met and maintained to protect these uses. There is VOC contamination reported in other potable water wells managed by PWP, including the Sunset and Bangham wells; however, data from the existing Garfield and Villa Wells suggest that the planned well site does not appear to be impacted by VOC contamination (Wood Rodgers 2020). However, if found, the Project is required to comply with RWQCB Order No. R4-2013-0043, for waste discharge requirements for discharges of treated groundwater from investigation and or cleanup of VOC-contaminated sites to surface waters, and R4-2003-0108, for waste discharge requirements for discharges of groundwater from potable water supply wells to surface waters in coastal watersheds of Los Angeles and Ventura Counties. The Raymond Groundwater Basin, PWP's source of groundwater and the source of the Project well, is defined by DWR as a very-low priority for groundwater overdraft pursuant to the 2014 Sustainable Groundwater Management Act (DWR 2020). As such, there is currently no sustainable groundwater management plan applicable to the Project site. Additionally, the Project site is not located within areas of Los Angeles County that have medium or high priority basins in critical overdraft. Medium or high priority basins are managed by sustainable groundwater management plans in the County (LACWD 2019). Therefore, there be no conflict with a sustainable groundwater management plan. Overall, there would be a less than significant impact, and no mitigation is required.

c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i) result in substantial erosion or siltation onsite or offsite?

ii) substantially increase the rate or amount of surface runoff in a manner that would result in flooding on or offsite?

iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

iv) impede or redirect flood flows?

Less than Significant Impact.

Implementation of the Project would result in a slight increase in impervious surface area associated with a new, 4-foot by 4-foot (or 16 sf), well pump pedestal located in an open space area adjacent to recreational uses. There would be a nominal increase in storm water runoff due to the reduction in pervious surfaces associated with the Garfield Replacement Well. Also, the Project would not be a source of polluted runoff with compliance of applicable regulations, as described in Section 4.9, Hazards and Hazardous Materials.

The new Garfield Replacement Well pump would not have an enclosure building as part of its operations. The Project would utilize a submersible pump and would therefore be mostly located within the ground. A chain-link fence would surround the submersible pump, but this fence and

well would not impede or redirect flood flows, cause erosion or siltation onsite or offsite, or create or contribute runoff water during operation of the Project. There would be no detectable change in the drainage pattern around the pedestal for the submersible potable water pump. Therefore, the Project does not represent a substantial alteration in the existing drainage pattern and there would be no adverse effects such as erosion, siltation, runoff, or flooding onsite or offsite. There would be a less than significant impact, and no mitigation is required.

d) Would the project, in flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

No Impact.

According to the Federal Emergency Management Agency (FEMA), the Project site is in Zone X (areas determined to be outside the 0.2 percent annual chance floodplain) and is deemed an "Area of Minimal Flood Hazard" (FEMA 2008). Zone X is located outside of the special flood hazard areas subject to inundation by the one percent annual chance of flood (100-year floodplain), and no floodplain management regulations are required. In addition, according to the City's Dam Failure Inundation Map (Plate P-2 of the Safety Element) the Project site is not located in a dam inundation area (City of Pasadena 2002a). Therefore, the Project would not result in releasing pollutants in a flood hazard zone. The City is located inland and is not subject to tsunami (sea waves) hazards. The Project would not expose people or structures to tsunami hazards due to distance from the Pacific Ocean. There is no large open water body near the Project site that may pose seiche hazards. Thus, no seiche hazards would be created by the Project, and the Project would not be exposed to seiche hazards. Therefore, the proposed Project would not risk release of pollutants due to project inundation in flood hazard tsunami, or seiche zones. There would be no impact, and no mitigation is required.

4.10.3 MITIGATION MEASURES

There would be no significant impacts pertaining to hydrology and water quality; therefore, no mitigation measures are required.

4.11 LAND USE AND PLANNING	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the project:				
a) Physically divide an established community?	☐	☐	☐	☒
b) Cause a significant environmental impact due to conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☒

4.11.1 EXISTING CONDITIONS

The Project site is zoned as Open Space (OS) in the City's Zoning Map, and designated as Park in the City's Land Use Plan diagram (City of Pasadena 2020, 2016).The Open Space designation applies to City-owned land with active and passive public recreational facilities and natural open spaces (City of Pasadena 2012).

4.11.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project physically divide an established community?

No Impact.

The proposed Project does not involve the displacement of existing residences or the construction of any physical barriers through the developed areas surrounding the Project area. Therefore, the Project would not divide an established community. There would be no impact, and no mitigation is required.

b) Would the project cause a significant environmental impact due to conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

No Impact.

The proposed Garfield Replacement Well is similar to the existing Garfield and Villa Wells within the general location of the Project site. The proposed well is located within the Open Space zoning and Park land use designation. The proposed Project improvements and components are consistent with the City's land use and zoning designation. Since no urban development is proposed and no change to the open space use of the land would occur with the Project, no conflict or inconsistency with regional plans (i.e., SCAG's Regional Comprehensive Plan, Regional Housing Needs Assessment, Regional Transportation Plan/Sustainable Communities Strategy, and Compass Blueprint) or with the growth forecasts used in the development of these regional plans would occur. There would be no impact.

4.11.3 MITIGATION MEASURES

There would be no impacts related to land use and planning therefore, no mitigation measures are required.

4.12 MINERAL RESOURCES	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☐	☒

4.12.1 EXISTING CONDITIONS

Mineral resources are naturally occurring chemicals, elements, or compounds such as bituminous rock, gold, sand, gravel, clay, crushed stone, limestone, diatomite, salt, borate, potash, geothermal, petroleum, and natural gas resources. Construction aggregate refers to sand and gravel (natural aggregates) and crushed stone (rock) that are used as Portland-cement-concrete aggregate, asphaltic-concrete aggregate, road base, railroad ballast, riprap, fill, and the production of other construction materials.

The California Geological Survey (CGS) has identified deposits of regionally significant aggregate resources in the State in accordance with the Surface Mining and Reclamation Act (SMARA). The Project site is not located within an area that has important mineral resources (CGS 2010).

Review of maps prepared by the California Department of Conservation shows that there are no oil, gas, or geothermal fields in or near the Project area (DOC 2001). Additionally, there are no active or idle oil wells in or near the Project area. The nearest well is an idle oil and gas well located approximately 4.7 miles southwest of the Project site (CalGEM 2020).

4.12.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

No Impact.

Based on data from nearby well drilling, subsurface materials are expected to consist of sand, gravel, silt, and clay in varying proportions (Wood Rodgers 2020).The construction of the Garfield Replacement Well may extract the underlying sand, gravel, silt, and clay resources during drilling activities for the proposed well. However, the Project site not located in a MRZ zone, as detailed above, and therefore, the Project would not result in the loss of availability of a known mineral resource that would be of value to the region or residents of the State.

The improvements for the Project would include some impervious surfaces (e.g., foundations for the Garfield Replacement Well), but most of the area would remain pervious. Thus, the Project would maintain the availability of these mineral resources and would not preclude future mining operations in this area. There would be no impact on regionally important mineral resources, and no mitigation is required.

b) Would the project result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

No Impact.

There are no identified oil, gas, or geothermal resources or ongoing mining/extraction activities at the Project site. The City of Pasadena Comprehensive General Plan does not identify any mineral resources in the City (City of Pasadena 2012). Additionally, no new structures or facilities would be constructed as part of the Project that could potentially restrict or obstruct future mineral resource recovery activities within the Project site. Long-term operation and maintenance activities on the proposed well would not require mineral resources. Thus, there would be no impacts to locally important mineral resources, and no mitigation is required.

4.12.3 MITIGATION MEASURES

There would be no significant impacts related to mineral resources, and no mitigation measures are required.

4.13 NOISE	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the project result in:				
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☒	☐	☐
b) Generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

Information pertinent to this Section can be found in Appendix G, Noise Data and Calculations, of this IS/MND.

4.13.1 EXISTING CONDITIONS

Noise Concepts

"Sound" is a vibratory disturbance created by a moving or vibrating source and is capable of being detected. "Noise" is defined as sound that is loud, unpleasant, unexpected, or undesired and may therefore be classified as a more specific group of sounds. The effects of noise on people can include general annoyance; interference with speech communication; sleep disturbance; and, in the extreme, hearing impairment (Caltrans 2013).

Sound pressure levels are described in units called the decibel (dB). Decibels are measured on a logarithmic scale. A doubling of the energy of a noise source (such as doubling of traffic volume) would increase the noise level by 3 dB. The human ear is not equally sensitive to all frequencies within the sound spectrum. To accommodate this phenomenon, the A-scale was devised; the A-weighted decibel scale (dBA) approximates the frequency response of the average healthy ear when listening to most ordinary everyday sounds and is used in this analysis.

Human perception of noise has no simple correlation with acoustical energy. Due to subjective thresholds of tolerance, the annoyance of a given noise source is perceived very differently from person to person. The most common sounds vary between 40 dBA (very quiet) to 100 dBA (very loud). Normal conversation at 3 feet is approximately 60 dBA, while loud jet engine noises at 1,000 feet equate to 100 dBA, which can cause serious discomfort. Table 4-9, Noise Levels For Common Events shows the relationship of various noise levels in dBA to commonly experienced noise events.

TABLE 4-9
NOISE LEVELS FOR COMMON EVENTS

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	110	Rock Band
Jet fly-over at 300 m (1,000 ft)	100	
Gas lawn mower at 1 m (3 ft)	90	
Diesel truck at 15 m (50 ft) at 80 km/hr (50 mph)	80	Food blender at 1 m (3 ft); garbage disposal at 1 m (3 ft)
Noisy urban area, daytime gas lawn mower at 30 m (100 ft)	70	Vacuum cleaner at 3 m (10 ft)
Commercial area, heavy traffic at 90 m (300 ft)	60	Normal speech at 1 m (3 ft)
Quiet urban daytime	50	Large business office, dishwasher in next room
Quiet urban nighttime	40	Theater, large conference room (background)
Quiet suburban nighttime	30	Library
Quiet rural nighttime	20	Bedroom at night, concert hall (background)
	10	Broadcast/recording studio
Lowest threshold of human hearing	0	Lowest threshold of human hearing
dBA: A-weighted decibels; m: meter; ft: feet; km/hr: kilometers per hour; mph: miles per hour Source: Caltrans 2013.		

Two noise sources do not “sound twice as loud” as one source. As stated above, a doubling of noise sources results in a noise level increase of 3 dBA. It is widely accepted that (1) the average healthy ear can barely perceive changes of a 3 dBA increase or decrease, (2) a change of 5 dBA is readily perceptible, and (3) an increase (decrease) of 10 dBA sounds twice (half) as loud (Caltrans 2013).

From the source to the receiver, noise changes both in the level and frequency spectrum. The most obvious change is the decrease in noise level as the distance from the source increases. Sound from a small localized source (approximating a “point” source) radiates uniformly outward as it travels away from the source in a spherical pattern. For point sources, such as heating, ventilation, and air conditioning (HVAC) units or construction equipment, the sound level attenuates (or drops off) at a rate of 6 dBA for each doubling of distance (i.e., if the noise level is 70 dBA at 25 feet, it is 64 dBA at 50 feet). Vehicle movement on a road makes the source of the sound appear to emanate from a line (line source) rather than a point when viewed over some time interval. The sound level attenuates or drops off at a rate of 3 dBA per doubling of distance for line sources.

A large object in the path between a noise source and a receiver can significantly attenuate noise levels at that receiver location. The amount of attenuation provided by this “shielding” depends on the size of the object and the frequencies of the noise levels. Natural terrain or landform features as well as man-made features (e.g., buildings and walls) can significantly alter noise exposure levels. For a noise barrier to work, it must be high enough and long enough to block the view from the receiver to a road or to the noise source. Effective noise barriers can reduce outdoor noise levels at the receptor by up to 15 dBA.

Several rating scales (or noise “metrics”) exist to analyze effects of noise on a community. These scales include the equivalent noise level (L_{eq}), including L_{max} and L_{min}, which are respectively the highest and lowest A-weighted sound levels that occur during a noise event, and the Community Noise Equivalent Level (CNEL). Average noise levels over a period of minutes or hours are usually expressed as dBA L_{eq}, which is the equivalent noise level for that period of time. The

period of time averaging may be specified; for example, $L_{eq(3)}$ would be a three-hour average. Noise of short duration (i.e., substantially less than the averaging period) is averaged into ambient noise during the period of interest. Thus, a loud noise lasting many seconds or a few minutes may have minimal effect on the measured sound level averaged over a one-hour period.

To evaluate community noise impacts, CNEL was developed to account for human sensitivity to nighttime noise. CNEL represents the 24-hour average sound level with a penalty for noise occurring at night. The CNEL computation divides a 24-hour day into three periods: daytime (7:00 AM to 7:00 PM), evening (7:00 PM to 10:00 PM), and nighttime (10:00 PM to 7:00 AM). The evening sound levels are assigned a 5-dBA penalty, and the nighttime sound levels are assigned a 10-dBA penalty prior to averaging with daytime hourly sound levels.

Noise-Sensitive Receptors

Noise-sensitive receptors include land uses where an excessive amount of noise would interfere with normal operations or activities and where a high degree of noise control may be necessary. Examples include schools, hospitals, and residential areas. Noise sensitive uses proximate to the Project site include residential uses. The nearest residential uses are approximately 120 feet east of the Project site. There are also residential uses to the north and west of the site approximately 275 feet and 185 feet away, respectively. Villa Parke buildings are located 265 feet to the south of the Project site. Playgrounds and neighborhood parks are not considered to be noise sensitive with noise exposure levels of 70 dBA considered to be clearly acceptable by the City.

Existing Ambient Noise

An ambient noise measurement program was initiated on April 11, 2021, to document existing noise levels at the nearest noise sensitive uses proximate to the Project site. Noise measurements were taken for a 24-hour period at the property line of multifamily residential uses located along North Garfield Avenue, west of the Project site, and near 380 Parke Street (Reinway Court), east of the Project site. Average noise levels ranged from 47 to 68 dBA L_{eq} at the Garfield Avenue multifamily residential uses and 46 to 61 dBA L_{eq} at the Reinway Court residential uses. Noise levels at both locations are indicative of a relatively quiet suburban neighborhood. Primary noise sources in the area include traffic along local roadways and Park activities, as well as distant traffic noise from the I-210 freeway. Ambient noise measurement data can be found in Appendix G of this IS/MND.

Applicable Noise Standards

City of Pasadena

The City of Pasadena has established guidelines and standards in its General Plan and Municipal Code. The Noise Element recognizes that construction activity is a source of occasional temporary nuisance noise throughout the City and that these and other such nuisance noises are common to cities and, because of their unpredictable nature, must be addressed on a case-by-case basis.

The following policies of the City's Noise Element are applicable to the Project (City of Pasadena 2002b):

Policy 7b: The City will encourage limitations on construction activities adjacent to sensitive noise receptors

Policy 7c: The City will encourage construction and landscaping activities that employ techniques to minimize noise.

The City's Municipal Code (Title 9, article IV, Chapter 9.36, Noise Restrictions) is the City's noise ordinance. It is the City's policy ". . . to prohibit unnecessary, excessive and annoying noises from all sources . . . Noise at certain levels is detrimental to the health and welfare of the general public".

Section 9.36.050 – General Noise Sources

This is applicable for long-term, operational noise and states "It is unlawful for any person to create, cause, make or continue to make or permit to be made or continued any noise or sound which exceeds the ambient noise level at the property line of any property by more than 5 decibels". In accordance with Section 9.36.040, adjustments are made to the allowable noise level for steady audible tones, repeated impulsive noise, and noise occurring for limited time periods.

Section 9.36.070 – Construction Projects

This section is applicable for construction projects and states:

A. No person shall operate any pile driver, power shovel, pneumatic hammer, derrick power hoist, forklift, cement mixer or any other similar construction equipment within a residential district or within a radius of 500 feet therefrom at any time other than as listed below:
    1. From 7:00 AM to 7:00 PM Monday through Friday;
    2. From 8:00 AM to 5:00 PM on Saturday; and
    3. Operation of any of the listed construction equipment is prohibited on Sundays and holidays.

B. No person shall perform any construction or repair work on buildings, structures or projects within a residential district or within a radius of 500 feet there from in such a manner that a reasonable person of normal sensitiveness residing in the area is caused discomfort or annoyance at any time other than as listed below:
    1. From 7:00 AM to 7:00 PM Monday through Friday;
    2. From 8:00 AM to 5:00 PM on Saturday; and
    3. Performance of construction or repair work is prohibited on Sundays and holidays.

C. The prohibition against construction on Sundays and holidays as set forth in subsection B of this section shall not apply under either of the following conditions:
    1. The construction is actually performed by an individual who is the owner or lessor of the premises and who is assisted by not more than two individuals;
    2. The person performing the construction shall have provided the building official with a petition which indicates the consent of 65 percent of the households residing within 500 feet of the construction site and the unanimous consent of the households adjacent to the construction site. Said petition shall be on a form promulgated by said building official and

shall be accompanied by a fee, the amount of which shall be established by resolution by the city council.

D. The prohibitions of this section shall not apply to the performance of emergency work as defined in Section 9.36.030.

E. For purposes of this section, holidays are New Year's Day, Martin Luther King Jr. Day, Lincoln's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Day after Thanksgiving, and Christmas.

Section 9.36.080 – Construction Equipment.

This section states that "It is unlawful for any person to operate any powered construction equipment if the operation of such equipment emits noise at a level in excess of 85 dBA when measured within a radius of 100 feet from such equipment".

Section 9.36.170 – Exemptions

A. This chapter is not intended to regulate construction or maintenance and repair activities conducted by public agencies or their contractors necessitated by emergency conditions or deemed necessary by the city to serve the best interests of the public and to protect the public health, safety and welfare. These operations may include, but are not limited to, street sweeping, debris and limb removal, removal of downed wires, restoring electrical service, repairing traffic lights, unplugging sewers, vacuuming catch basins, repairing water hydrants and mains, gas lines, oil lines, storm drains, roads, sidewalks, etc.

B. Notwithstanding the ordinance codified in this chapter, the city manager is authorized to permit special events to generate noise levels up to the limits specified in the noise element of the city's general plan.

C. Notwithstanding the ordinance codified in this chapter, the general manager of the Rose Bowl is authorized to permit events licensed by the Rose Bowl Operating Company to generate noise levels up to the limits specified in the noise element of the city's general plan.

D. Provisions in the permit or license agreement shall specify the specific hour limitations imposed, and the set decibel level delineated in the noise element which would apply.

(Ord. 7150 § 2 (part), 2008)

Vibration Concepts

Vibration is an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. Vibration is normally associated with activities such as railroads or vibration-intensive stationary sources but can also be associated with construction equipment such as jackhammers, pile drivers, and hydraulic hammers. Vibration displacement is the distance that a point on a surface moves away from its original static position. The instantaneous speed that a point on a surface moves is described as the velocity, and the rate of change of the speed is described as the acceleration. Each of these descriptors can be used to correlate vibration to human response, building damage, and acceptable equipment vibration levels. During construction of a project, the operation of construction equipment can cause groundborne vibration. During the operational phase of a project, receptors may be subject to levels of vibration that can cause annoyance due to noise generated from vibration of a

structure or items within a structure. Analysis of this type of vibration is best measured in velocity and acceleration.

The three main wave types of concern in the propagation of groundborne vibrations are surface or Rayleigh waves, compression or P-waves, and shear or S-waves.

- Surface or Rayleigh waves travel along the ground surface. They carry most of their energy along an expanding cylindrical wave front, similar to the ripples produced by throwing a rock into a lake. The particle motion is more or less perpendicular to the direction of propagation (known as retrograde elliptical).
- Compression or P-waves are body waves that carry their energy along an expanding spherical wave front. The particle motion in these waves is longitudinal, in a push-pull motion. P-waves are analogous to airborne sound waves.
- Shear or S-waves are also body waves, carrying their energy along an expanding spherical wave front. Unlike P-waves, however, the particle motion is transverse, or perpendicular to the direction of propagation.

The peak particle velocity (ppv) or the root mean square (rms) velocity is usually used to describe vibration amplitudes. The ppv is defined as the maximum instantaneous peak of the vibration signal and the rms is defined as the square root of the average of the squared amplitude of the signal. The ppv is more appropriate for evaluating potential building damage and also used for evaluating human response.

The units for ppv velocity are normally inches per second (in/sec). Often, vibration is presented and discussed in dB units in order to compress the range of numbers required to describe the vibration. In this study, all ppv velocity levels are in in/sec and all vibration levels are in dB relative to one microinch per second. The threshold of perception is approximately 0.3 ppv. Typically, groundborne vibration generated by human activities attenuates rapidly with distance from the source of the vibration. Even the more persistent Rayleigh waves decrease relatively quickly as they move away from the source of the vibration. Manmade vibration problems are, therefore, usually confined to short distances (500 feet or less) from the source.

Applicable Vibration Standards

There are no applicable City standards for vibration-induced annoyance or building damage from vibration. The California Department of Transportation (Caltrans) vibration damage potential guideline thresholds are shown in Table 4-10, Vibration Damage Threshold Criteria, and are applied in this analysis.

TABLE 4-10
VIBRATION DAMAGE THRESHOLD CRITERIA

Structure and Condition	Maximum ppv (in/sec)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Extremely fragile historic buildings, ruins, ancient monuments	0.12	0.08
Fragile buildings	0.2	0.1
Historic and some old buildings	0.5	0.25
Older residential structures	0.5	0.3
New residential structures	1.0	0.5
Modern industrial/commercial buildings	2.0	0.5

ppv: peak particle velocity; in/sec: inch(es) per second

Note: Transient sources create a single isolated vibration event, such as blasting or drop balls. Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment.

Source: Caltrans 2013.

The structural damage threshold for “Historic and some old buildings” 0.25 ppv in/sec is selected for analysis of vibration impacts to residences east of the Project site and the threshold for “New residential structures” 0.5 ppv in/sec for residences west of the Project site.

The Caltrans vibration annoyance potential guideline thresholds are shown in Table 4-10. Based on the guidance in Table 4-11, Vibration Annoyance Criteria, the “strongly perceptible” vibration level of 0.9 ppv in/sec is considered as a threshold for a potentially significant vibration impact for human annoyance.

TABLE 4-11
VIBRATION ANNOYANCE CRITERIA

Average Human Response	ppv (in/sec)
Severe	2.0
Strongly perceptible	0.9
Distinctly perceptible	0.24
Barely perceptible	0.035

ppv: peak particle velocity; in/sec: inch(es) per second

Source: Caltrans 2013.

Table 4-12, Vibration Levels for Construction Equipment, summarizes typical vibration levels measured during construction activities for various vibration-inducing pieces of equipment.

TABLE 4-12
VIBRATION LEVELS FOR CONSTRUCTION EQUIPMENT

Equipment		ppv at 25 ft (in/sec)
Pile driver (impact)	upper range	1.518
	typical	0.644
Pile driver (sonic)	upper range	0.734
	typical	0.170
Vibratory roller		0.210
Large bulldozer		0.089
Caisson drilling		0.089
Loaded trucks		0.076
Jackhammer		0.035
Small bulldozer		0.003
ppv: peak particle velocity; ft: feet; in/sec: inches per second Source: Caltrans 2013; FTA 2006.		

4.13.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less than Significant with Mitigation (for temporary increase in ambient noise levels).

The Project is exempt from the noise limits established within the City of Pasadena's Municipal Code per Section 9.36.170, Exemptions. This section of the Municipal Code provides an exemption from construction activities conducted by public agencies or their contractors because the Project is deemed necessary by the City to serve the best interests of the public. However, the following noise impact analysis is provided for informational purposes regarding the magnitude of noise exposure at nearby residential uses, the potential impacts related to established noise limits (i.e., Pasadena Municipal Code Section 9.36.050, General Noise Sources and Section 9.36.08, Construction Equipment) and sleep disturbance thresholds, and mitigation measures that would reduce noise levels to less than significant levels regardless of use of the exemption.

Noise impacts associated with the proposed Project would be largely limited to the construction phase and would be temporary in nature, albeit over a 24 hour/7 day a week period for a short time. Construction equipment can be considered to operate in two modes: stationary and mobile. Stationary equipment operates in one location for one or more days at a time. For well drilling, stationary equipment such as auger, compressor, and circulation tank motors, would be used. Mobile equipment is moved around the construction site and includes equipment such as material delivery trucks, a gradall, and a backhoe. The primary noise sources during construction of are

the diesel engines of construction equipment such as drill auger motor, compressor, circulation tank motor, backhoe loader, gradall, and delivery trucks. No pile driving or blasting activities are proposed; however, well development requires a continuous process of drilling to prevent well collapse. As such, well drilling would occur for 24-hours per day/7 days per week for two weeks with a pause of two to three weeks for water quality analyses and final well design, and a continuation of well drilling for one week. Well construction and well development would continue for ten days following well drilling activities and would also occur for 24 hours/7 days. As such, 24-hour/7-day construction activities are anticipated to last for a total of approximately five weeks, as detailed in Table 3-1 of Section 3.2, Project Construction. However, a waiver for nighttime construction activities has been issued by the City for these activities, as discussed in Section 3.2, Project Construction, of this IS/MND.

The degree to which noise-sensitive receptors are affected by construction activities depends heavily on their proximity as well as the time of day or night. As stated above, per Section 9.36.080, Construction Equipment, of the City's Municipal Code, it is unlawful for any person to operate any powered construction equipment if the operation of such equipment emits noise at a level in excess of 85 dBA when measured within a radius of 100 feet from such equipment. Therefore, estimated noise levels attributable to the development of the proposed Project is measured at 100 feet from the equipment, as shown in Table 4-13, Construction Noise at Noise-Sensitive Land Uses. Noise calculations are included in Appendix G, Noise Data and Calculations of this IS/MND. Noise levels from general Project-related construction activities would range from 69 to 78 dBA L_{eq}, without noise reduction measures. As shown below, noise levels from construction equipment would be less than the 85-dBA noise limit as measured at 100 feet from the equipment, per the City's Municipal Code Section 9.36.080 – Construction Equipment.

TABLE 4-13
CONSTRUCTION NOISE LEVELS AT NOISE-SENSITIVE USES

Construction Phase	Noise Level at 100 ft (L_{eq} dBA)	City Noise Limit	Exceeds Limit?
Ground Clearing/Demolition	78	85	No
Excavation	83	85	No
Foundation Construction	72	85	No
Building Construction	81	85	No
Paving and Site Cleanup	83	85	No

L_{eq} dBA: Average noise energy level; ft: feet

Note: Noise levels from construction activities do not take into account attenuation provided by intervening structures or sound barriers.

Source: USEPA 1971a.

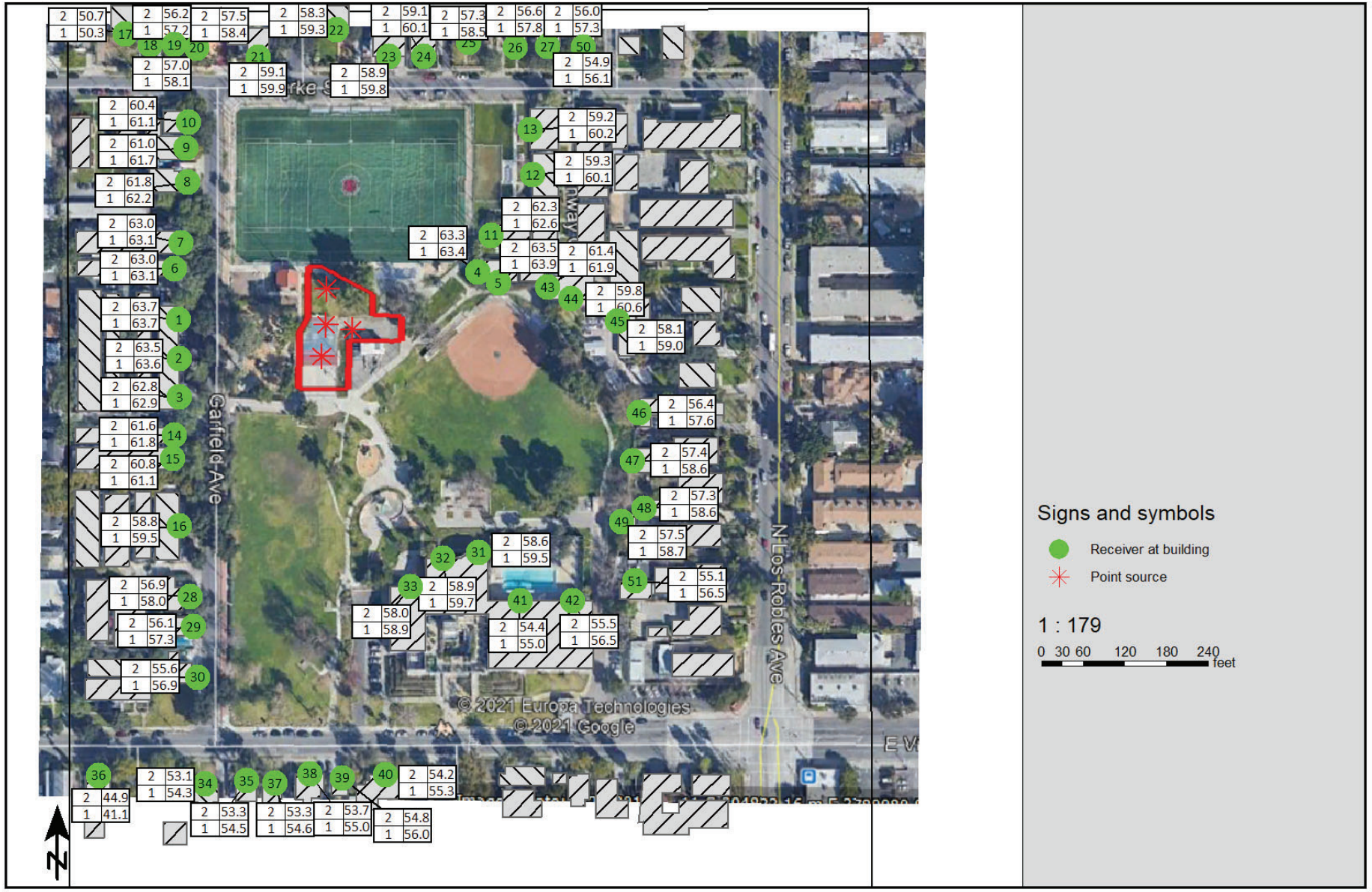
Noise from construction activities on site would be audible above the existing ambient noise environment but would generally occur during the least noise-sensitive portions of the day as per Pasadena Municipal Code Section 9.36.070 – Construction Projects. As mentioned previously, nighttime drilling is necessary for well development. To quantify noise exposure levels at the Project site from nighttime well drilling activities, SoundPlan, a three-dimensional noise model, was used. This model considers topographical elevations and noise attenuation provided by ground cover and structures. Noise monitoring was conducted at a nearby, comparable well drilling project site to provide projected noise levels from a similar project. Nearfield measurements were taken of each of the well drilling pieces of equipment and were used as inputs to the SoundPlan modeling of the well drilling activities for the Project. The Project site and nearby structures were modeled in three dimensions to allow for the heights of sound barriers used for noise attenuation to be considered. Unmitigated noise exposure levels are depicted in

Exhibit 4-3a, Construction Noise Levels without Noise Mitigation Measures. Exhibit 4-3a presents the numerical noise exposure levels at specific points proximate to the Project site without mitigation. Unmitigated construction noise level contours are depicted in Exhibit 4-3b, Construction Noise Level Contours without Noise Mitigation Measures. Exhibit 4-3b depicts the same unmitigated noise levels as shown in Exhibit 4-3a but expressed as noise exposure contour levels at the façades of the nearest uses.

Noise levels from Project-related nighttime well drilling activities at the nearest noise sensitive residential uses (i.e., residences located 175 feet west of the site boundary, and 125 feet east of the site boundary) is estimated to be 64 dBA L_{eq} without noise reducing mitigation measures. This noise exposure level was modeled at the façade of the nearest residential uses. Building structures generally attenuate exterior noise levels by 20 to 25 dBA under a "windows-closed" condition (FHWA 2011). Without noise reducing mitigation measures, the noise reduction provided by the residential building structures, interior noise levels are anticipated to be from 39 to 44 dBA L_{eq} at the structures. The United States Environmental Protection Agency (USEPA) has referenced a sleep disturbance study that provides context on the levels of sleep disturbance expected from noise levels. This study states that there is a correlation between ranges of A-weighted sound levels result and frequency of complaints by those who experience these sound levels. The study found the following: below about 33 decibels, no complaints; 33-38 decibels, occasional complaints; 38-48 decibels, frequent complaints; and over 48 decibels, unlimited complaints" (USEPA 1971b). This level of noise that would result in sleep disturbance is also consistent with the recommendation from the World Health Organization (WHO) which states that "If negative effects on sleep are to be avoided the equivalent sound pressure level should not exceed 30 dBA indoors for continuous noise. If the noise is not continuous, sleep disturbance correlates best with L_{Amax} and effects have been observed at 45 dBA or less. This is particularly true if background level is low. Noise events exceeding 45 dBA should therefore be limited if possible. For sensitive people an even lower limit would be preferred" (WHO 1995).

As mentioned previously, well drilling activities would result in an interior noise exposure level of 39 to 44 dBA L_{eq} without noise reduction mitigation measures. This level of noise would exceed the 30 dBA-L_{eq}-recommended interior noise exposure threshold for sleep disturbance at nearby residential uses. To minimize the potential for sleep disturbance from nighttime well drilling activities, the noise reduction measures detailed under MM NOI-1 through MM NOI-4 are required to reduce impacts to levels that are below the above-mentioned sleep disturbance thresholds.

MM NOI-1 requires the Construction Contractor to implement best management practices for construction equipment during construction activities, including, but not limited to, ensuring that all stationary and mobile construction equipment be equipped with properly—operating and maintained mufflers (MM NOI-1a) and backup alarms for construction equipment be low-impact (MM NOI-1e). MM NOI-2 details sound barrier requirements for nighttime construction activity, such as 24-foot sound walls (MM NOI-2a), sound enclosures on stationary equipment (MM NOI-2b), and strategic placing of construction equipment onsite (MM NOI-2c). To assess noise levels from nighttime well drilling activities with MM NOI-2a and MM NOI-2b, 24-foot sound walls and an engine enclosure for the circulation tank motor were modeled within SoundPlan, respectively. As shown in Exhibit 4-4a, Construction Noise Levels with Noise Mitigation Measures, and Exhibit 4-4b, Construction Noise Level Contours with Noise Mitigation Measures, well drilling activities with noise-reducing mitigation measures would result in a noise exposure level of 47 dBA L_{eq} at the nearest residential façades. With the exterior to interior noise reduction provided by residential building structures, interior noise levels is anticipated to be 20 to 25 dBA less and would result in an interior noise level of 22 to 27 dBA L_{eq}. It should be noted that not all mitigation measures required for this Project were quantified in the SoundPlan analysis, thus providing a conservative estimate of proposed noise levels. Based on the before-mentioned guidance provided by the USEPA and WHO, interior noise levels of less than 30 dBA L_{eq} are not anticipated



Construction Noise Levels without Noise Mitigation Measures

Exhibit 4-3a

Garfield Replacement Well Project

PSOMAS

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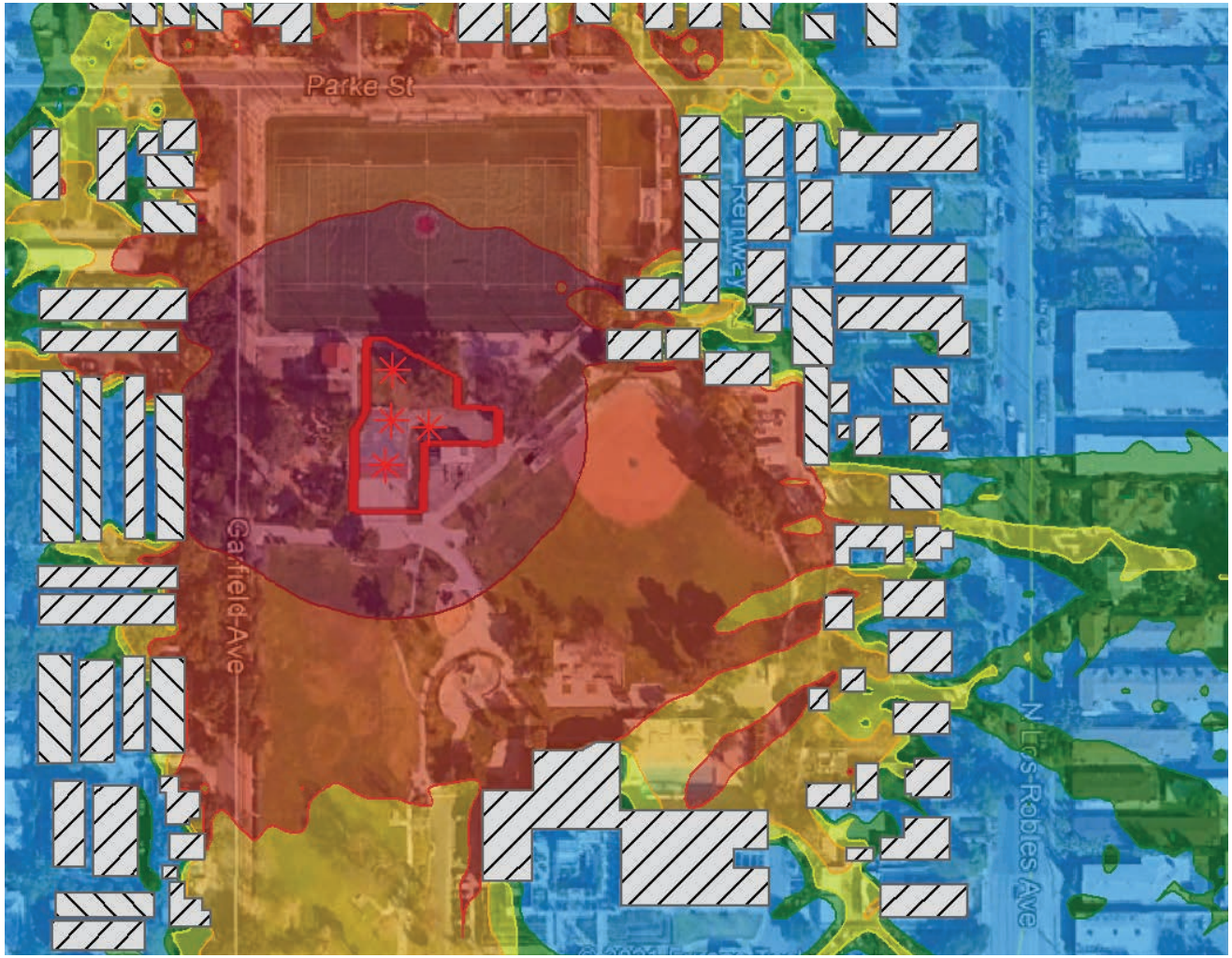

Signs and symbols

Point source

Levels in dB(A)

<= 45
45 - 50
50 - 55
55 - 60
60 - 65
> 65

1 : 179

0 30 60 120 180 240 feet

Construction Noise Level Contours without Noise Mitigation Measures

Exhibit 4-3b

Garfield Replacement Well Project

N W E S

PSOMAS

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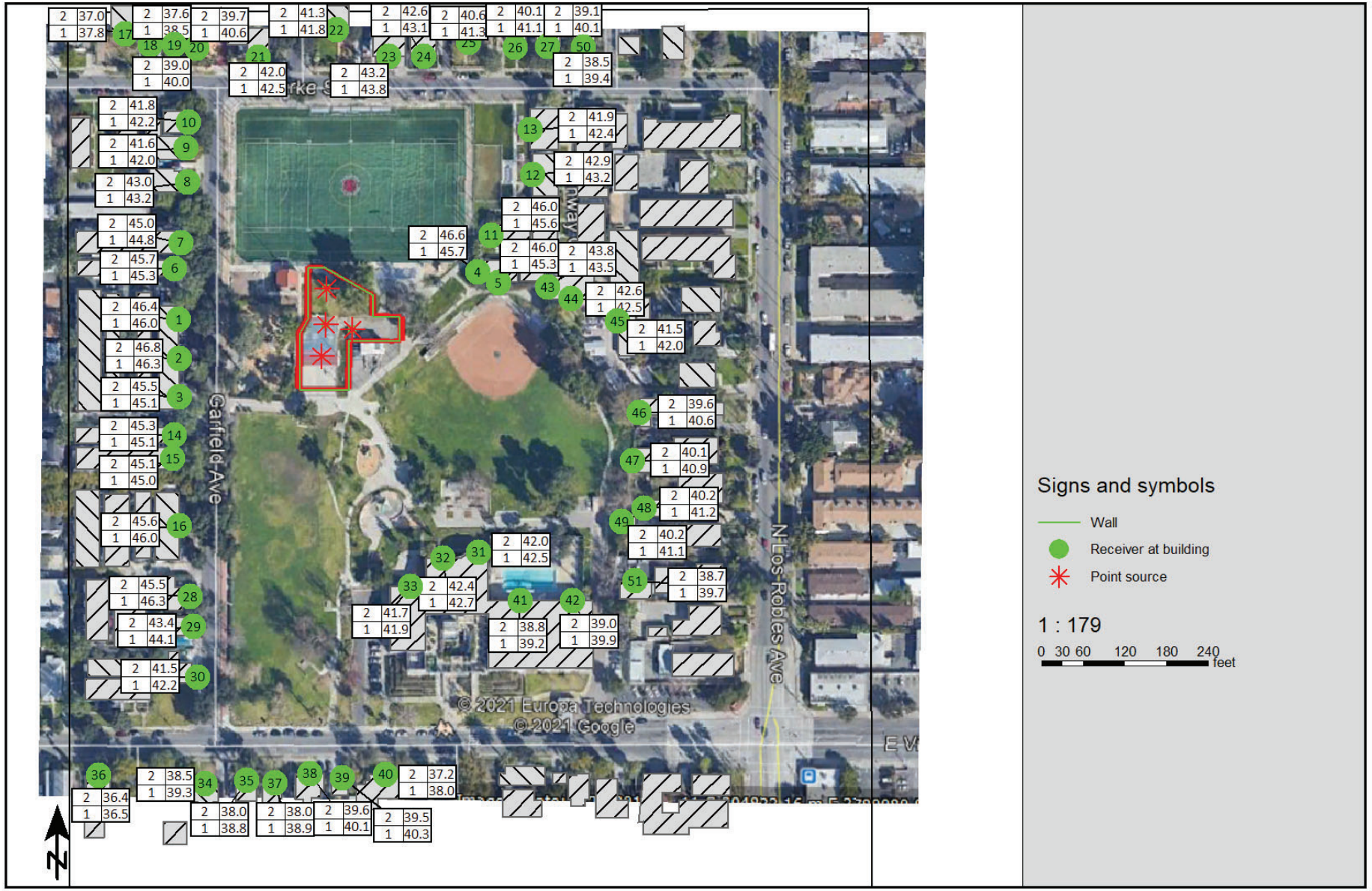

Construction Noise Levels with Noise Mitigation Measures

Exhibit 4-4a

Garfield Replacement Well Project

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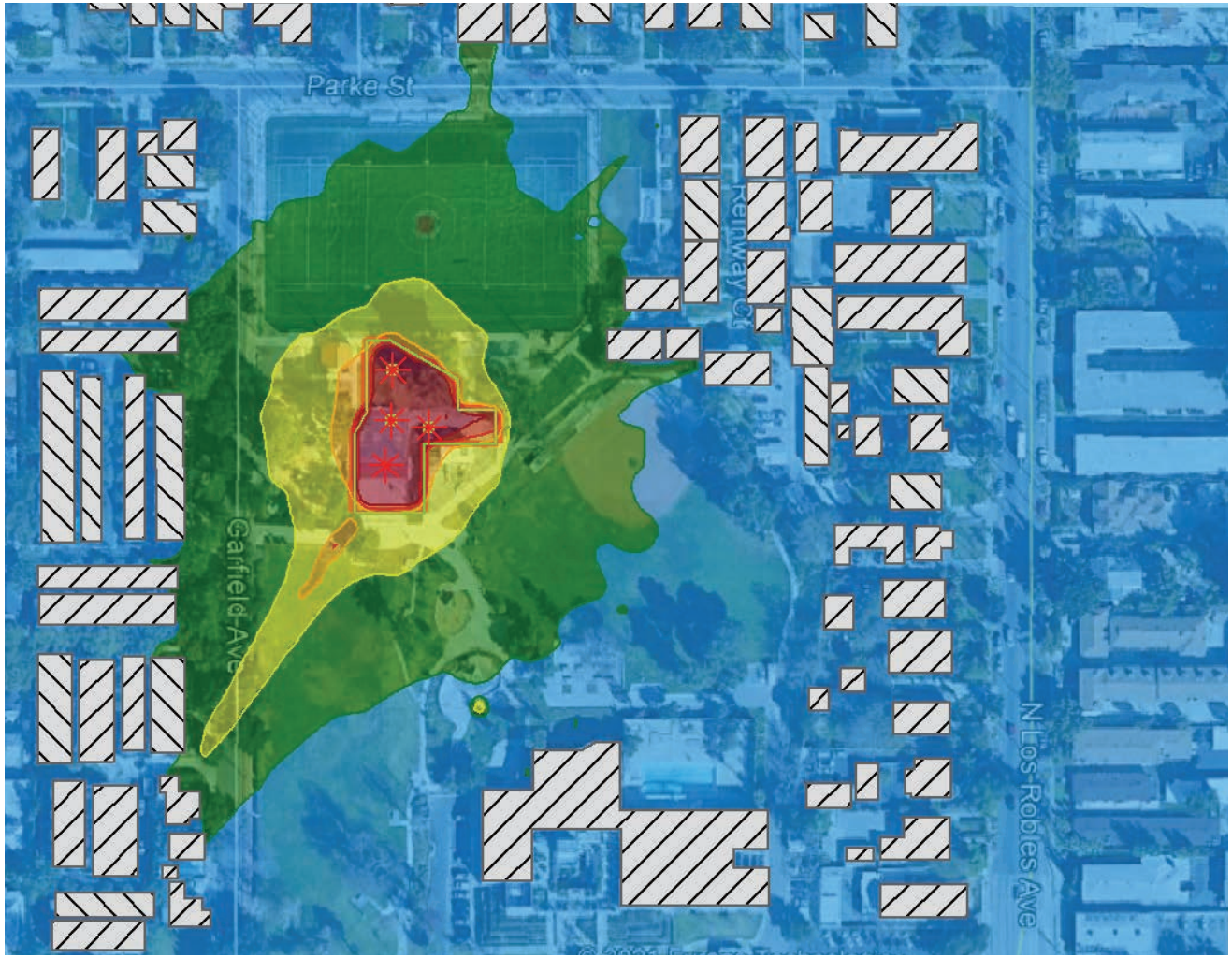

Signs and symbols

Wall

Point source

Levels in dB(A)

<= 45
45 - 50
50 - 55
55 - 60
60 - 65
> 65

1 : 179

0 30 60 120 180 240 feet

Construction Noise Level Contours with Noise Mitigation Measures

Exhibit 4-4b

Garfield Replacement Well Project

N W E S

PSOMAS

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to result in sleep disturbance at nearby residential uses. Additionally, MM NOI-3 is required to provide an opportunity for communication between City staff and the surrounding communities regarding nighttime construction activities. Per MM NOI-3, prior to commencement of nighttime Project construction, the City of Pasadena shall establish a designated phone hotline and email address for Project-related information and complaints from the surrounding neighborhood. Fliers and posters shall be posted and visible at the Project boundary at least one week prior to commencement of nighttime construction activity and be visible throughout the nighttime construction duration. Also, MM NOI-4 requires that the City retain a Noise Monitor for on-call services to ensure that nighttime construction noise does not exceed 50 dBA at the nearest residential facade proximate to the site during nighttime construction activities. As such, most people with typical noise sensitivities at nearby residential uses closest to the Project site are not anticipated to experience sleep disturbance from on-site Project-related construction activities under mitigated conditions. Residential uses located further from the Project site are exposed to less noise and would likewise not experience sleep disturbance from the Project's mitigated construction activities. Impacts from on-site construction during nights and early mornings would thereby be less than significant with mitigation.

The Project would generate construction traffic noise from vehicle traffic, including workers commuting to and from the Project site, vendors delivering materials, and haul trucks exporting well drilling spoils and liquid storage tanks. Truck (i.e., heavy truck) pass-by trips would be heard at residences adjacent to the roads used, which would include the northern portion of North Garfield Avenue, as shown on Exhibit 2-2. The maximum number of heavy truck trips is anticipated to be two truck trips per day. Additionally, MM NOI-1d limits truck trips to export drill cuttings to the daytime when people are less sensitive to noise. It is anticipated that a maximum of approximately three workers would be onsite at the same time, which would generate approximately six construction-related worker commute trips per day. Due to the infrequency of Project-related truck and worker commute trips, the increase in traffic noise would be less than the 3 dBA significance threshold for noise (Caltrans 2013). A 3 dBA increase is the minimum change in noise levels that is audible in outdoor environments. A doubling of traffic along local roadways is necessary for a 3 dBA change in noise levels. Consequently, construction-related traffic noise impacts would be temporary, but not substantial.

As discussed previously, the Project is exempt from the noise ordinance, per Municipal Code Section 9.36.170 Exemptions, and noise generated during construction would not involve pile drivers or other equipment that would exceed the 85 dBA noise level limit as measured at 100 feet established by the City under Pasadena Municipal Code Section 9.36.080. As such, the Project would not result in substantial temporary noise impacts and sleep disturbance to residential uses surrounding the Project site. Thus, noise associated with Project-related construction activities would comply with Pasadena Municipal Code Sections 9.36.050, General Noise Sources and 9.36.080, Construction Equipment and be below the sleep disturbance thresholds, and thus, less than significant impacts would result with implementation of MMs NOI-1 through MM NOI-4.

Less than Significant Impact (for permanent increases in ambient noise levels).

The operations phase of the Project would result in potential permanent increases in noise associated with operations and maintenance of the proposed improvements. This noise would derive from increased vehicles trips from maintenance crews, on the order of one well visit per day (compared to one well visit per week for the existing Garfield Well). The Project would involve the development of a submersible well, which would result in the pump and electrical motor enclosure within the well and submerged in the aquifer below grade. Since Project infrastructure is located underground, no substantial noise exposure to park uses and offsite residences would occur during operation of the Project. As such, the operations phase of these stationary sources

of noise would be compliant with the City of Pasadena Municipal Code Section 9.36.050, which limits noise levels to less than 5 dB above the ambient noise level.

It is anticipated that worker trips needed to perform monitoring and maintenance activities at the Project facilities would result in approximately one roundtrip per day, as stated above. This magnitude of daily vehicle trips would not result in an audible change in hourly or daily noise levels and consequently would result in less than significant noise impacts from this source, and no mitigation is required.

b) Would the project result in generation of excessive groundborne vibration or groundborne noise levels?

Less than Significant Impact.

As stated above, there are no applicable City standards for vibration-induced annoyance or building damage from vibration. As such, the vibration thresholds and emission rates identified above are used in the assessment of vibration impacts. Table 4-14, Building Damage Criteria at Sensitive Uses, shows the ppv relative to building damage to sensitive uses from vibration activities. As shown in Table 4-14, all ppv levels would be below the building damage threshold at the nearest off-site structures.

TABLE 4-14
BUILDING DAMAGE CRITERA AT SENSITIVE USES

	Vibration Levels (ppv)			
	Residences to the West	**Residences to the North**	**Residences to the East**	**Park Buildings to the South**
Equipment	**(ppv @ 170 ft)**	**(ppv @ 310 ft)**	**(ppv @ 120 ft)**	**(ppv @ 265 ft)**
Large bulldozer	0.01	0.00	0.02	0.01
Small bulldozer	0.01	0.00	0.01	0.00
Jackhammer	0.00	0.00	0.00	0.00
Loaded trucks	0.00	0.00	0.00	0.00
Building Damage Criteria*	**0.5**	**0.25**	**0.25**	**0.5**
Exceeds Criteria?	**No**	**No**	**No**	**No**

ppv: peak particle velocity; Max: maximum; avg: average; ft: feet
* Building Damage Criteria from Table 4-9.
Source: FTA 2006 (Calculations can be found in Appendix G).

Table 4-15, Vibration Annoyance Criteria at Sensitive Uses, shows the vibration annoyance criteria and construction-generated vibration levels produced at the Project site.

TABLE 4-15
VIBRATION ANNOYANCE CRITERIA AT SENSITIVE USES

Equipment	Vibration Levels (ppv)			
	Residences to the West (ppv @ 170 ft)	Residences to the North (ppv @ 310 ft)	Residences to the East (ppv @ 120 ft)	Park Buildings to the South (ppv @ 265 ft)
Large bulldozer	0.01	0.00	0.02	0.01
Small bulldozer	0.01	0.00	0.01	0.00
Jackhammer	0.00	0.00	0.00	0.00
Loaded trucks	0.00	0.00	0.00	0.00
Vibration Annoyance Criteria*	**0.9**	**0.9**	**0.9**	**0.9**
Exceeds Criteria?	**No**	**No**	**No**	**No**

ppv: peak particle velocity; Max: maximum; avg: average; ft: feet
* Vibration Annoyance Criteria from Table 4-10.
Source: FTA 2006 (Calculations can be found in Appendix G).

As shown in Table 4-15, ppv would not exceed the vibration induced annoyance criteria when construction activities occur under maximum (i.e., closest to the sensitive uses) exposure conditions. These vibration levels represent conditions when construction activities occur closest to receptor locations. Because vibration levels would be substantially below the significance thresholds, vibration generated by the Project's construction equipment would not be expected to generate strongly perceptible levels of vibration at the nearest uses and would result in less than significant vibration impacts related to vibration annoyance, and no mitigation is required.

Because vibration generated by Project-related construction activities would be less than the thresholds established for vibration induced annoyance and building damage, the Project would not result in significant vibration impacts related to construction activities, and no mitigation is required.

The operations phase of the Project would result in a submersible well with well infrastructure located underground. The Project-related equipment would not generate substantial levels of vibration that would be detectable at park and offsite buildings, consistent with other submersible potable water wells. As such, the Project would result in less than significant vibration impacts during operation of the Project, and no mitigation is required.

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No Impact.

There are no airports or airstrips within two miles of the Project site. The nearest airports are the Burbank Bob Hope Airport and the El Monte Airport, which are approximately 12 miles and 8 miles from the site, respectively. The Project would not subject persons in the area to excessive levels of noise exposure from public or private airports, nor would the Project generate aircraft noise. There would be no impact associated with exposure of maintenance workers to aircraft noise, and no mitigation is required.

4.13.3 MITIGATION MEASURES

MM NOI-1 The Construction Contractor shall ensure the following best management practices for construction equipment are met during construction activities:

a. All stationary or mobile construction equipment shall be equipped with properly-operating and maintained mufflers, compliant with or exceeding manufacturers' standards.

b. All construction equipment engine enclosures and covers, as provided by manufacturers, shall be in place during construction activities.

c. All construction equipment shall be shut down when not in use.

d. During Project construction, export of drill cuttings via trucks shall be limited to the hours of 7 AM through 7 PM.

e. Construction-standard high-pitch backup alarms for construction equipment and vehicles shall not be used during construction of the Project. Construction equipment and vehicles shall use low-impact backup alarms, including, but not limited to, the following: manually-adjustable alarms, self-adjusting alarms, and broadband (white noise) alarms. These alarms shall conform to the safety requirements established by the Occupational Safety and Health Administration (OSHA).

f. An electric circulation tank motor shall be used for well-drilling activities, instead of a diesel-fueled circulation tank motor, if commercially available. If an electric circulation tank motor is not commercially available, an engine enclosure provided by the manufacturer shall be used to cover the diesel-fueled circulation tank motor in addition to the constructed enclosure identified under MM NOI-2b.

MM NOI-2 During nighttime construction activity (i.e., from 7 PM to 7 AM), the Construction Contractor shall ensure that the following best management practices for sound barriers are implemented:

a. During nighttime construction activities (i.e., from 7 PM to 7 AM), 24-foot tall sound barriers, with a minimum sound transmission class (STC) rating of 25, must be erected along all sides of the construction area where continuous construction activities would occur.

b. Sound barrier enclosures shall enclose all stationary equipment sources of noise. These enclosures shall be constructed of either ¾-inch plywood or greater thickness or sound blankets with a minimum STC rating of 25 and cover all sides as well as the top of the equipment. Minimal gaps in the enclosure are acceptable to ensure adequate air intake, exhaust ventilation, and heat dissipation for proper equipment functioning.

c. Liquid storage tanks (i.e., Baker tanks) shall be strategically placed between the circulation tank motor and the nearest residential use.

MM NOI-3 Prior to commencement of nighttime Project construction, the City of Pasadena shall establish a designated phone hotline and email address for Project-related information and complaints from the surrounding neighborhood. The City shall designate a Noise Complaint Manager to monitor this phone hotline and email. Fliers or posters must be posted and visible at the Project boundary at least one

week prior to commencement of nighttime construction activity and continue throughout the nighttime construction duration. These posters must provide the following information: nighttime construction duration and other related details, and contact information for the phone hotline and email address.

MM NOI-4 Prior to commencement of nighttime construction activities, the City shall retain a Noise Monitor for on-call services to monitor noise levels during nighttime construction activities (i.e., from 7 PM to 7 AM). The Noise Monitor shall monitor and record noise at the property line for the nearest residential uses (west and east of the Project site) to ensure that noise levels from the Project construction site do not exceed 50 A-weighted decibels (dBA) at night. If Project-related noise levels exceed 50 dBA during nighttime activities, additional noise reduction measures shall be implemented to further reduce construction noise at the Project site to a level at or below 50 dBA, such as additional vertical and horizontal sound barriers.

4.14 POPULATION AND HOUSING	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the project:				
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through the extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

4.14.1 EXISTING CONDITIONS

The Project site does not support a residential community nor contain residential land uses. There are nearby residential uses surrounding the Project site, to the north, south, east, and west.

4.14.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through the extension of roads or other infrastructure)?

No Impact.

The Project does not propose the construction of new homes or businesses that may result in direct or indirect population growth in the area. Also, no extension of infrastructure to unserved areas is proposed. The Project would replace an existing potable water well at the site. The presence of the construction crew would be temporary and would not generate a measurable demand for housing, goods, or services in the area.

No major change in PWP's operational or maintenance activities would occur that would lead to new employees or which would induce growth and development in the area. There would be new daily maintenance trips to the proposed well. The Project would maintain water potable water supply but would not promote development in the City or the surrounding area. The Project would not directly or indirectly induce substantial unplanned population growth in the surrounding area. There would be no impact, and no mitigation is required.

b) Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact.

Construction activities for the Project would be confined to the parcels owned by the City of Pasadena and located within the City. These activities would not displace existing people or housing on the site, as none exists within the site or near the Project site, including residences nearest the Project site on Garfield Avenue, Parke Street, and Reinway Court. No housing demolition or household displacement is proposed with the Project. Thus, no displacement impacts would occur such that replacement housing would be needed. No mitigation is required.

4.14.3 MITIGATION MEASURES

There would be no significant impacts pertaining to population and housing; therefore, no mitigation measures are required.

4.15 PUBLIC SERVICES	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the project:				
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered government facilities, need for new or physically altered government facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
Fire protection?	☐	☐	☐	☒
Police protection?	☐	☐	☐	☒
Schools?	☐	☐	☐	☒
Parks?	☐	☐	☐	☒
Other public facilities?	☐	☐	☐	☒

4.15.1 EXISTING CONDITIONS

Public services for the Project site are provided by the Pasadena Fire Department, the Pasadena Police Department, the Pasadena Unified School District, the City of Pasadena Parks and Natural Resources Division, the Pasadena Library, and other City departments. The Los Angeles County Fire Department and the United State Forest Service (USFS) also provide wildfire protection services, particularly related to the Angeles National Forest (ANF).

Fire Protection Services

The Pasadena Fire Department provides fire protection services to the City and operates eight fire stations. Pasadena Fire Station 33, located at 515 North Lake Avenue, is the nearest fire station, at 0.7 miles east of the proposed well location.

The Los Angeles County Fire Department has automatic aid agreements with 33 cities in the County, including the City of Pasadena, to provide fire protection services during a fire or medical emergency regardless of territory. Thus, City and County firefighters would provide emergency response to the Project in the event of a fire incident.

Police Protection Services

The Pasadena Police Department provides police protection and law enforcement services in the City. The Pasadena Police Department also participates in the California Law Enforcement Mutual Aid Plan and the California Disaster and Civil Defense Master Mutual Aid Agreement, which allow the City to request mutual aid from and to provide mutual aid to adjacent police protection and law enforcement agencies.

School Services

The Pasadena Unified School District (PUSD) provides school services to the Project area through the Madison Elementary School, Washington Middle School, and John Muir High School (PUSD 2021).

Parks

The City of Pasadena Parks and Facilities Department has 24 parks within its jurisdiction. The Project site is within the boundaries of Villa Parke and Villa Parke Community Center, located at 363 East Villa Street. Villa Parke has the following amenities: a softball diamond, basketball courts, bleachers, court lighting, field lighting, multi-purpose fields, a soccer field, swimming pool, playground, picnic area, parking lot, restrooms, and drinking fountains. The Villa Parke Community Center has a library, community center, meeting facilities, playground, drinking fountains and parking lots (City of Pasadena 2021a).

Other Public Facilities

There are ten City libraries, with the Villa Parke Community Center Library located nearest the Project site at 363 East Villa Street, approximately 0.07 mile south of the Project site.

4.15.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered government facilities, need for new or physically altered government facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:

- **Fire protection?**
- **Police protection?**
- **Schools?**
- **Parks?**
- **Other public facilities?**

Fire Protection

No Impact.

The proposed well and infrastructure modifications would not introduce habitable structures that could generate a long-term demand for fire protection services. Although there would be an increase in maintenance activities for the Garfield Replacement Well, the increase would not be substantial, as it would replace existing trips for maintenance of the existing Garfield Well. Also, the Project does not propose any new land uses that could generate a new resident population. Thus, the Project would not result in a need for new or physically altered fire protection facilities.

The proposed Project components would not be susceptible to fire, due to the nature of the Project as a potable water well. Project improvements would be constructed in accordance with the Pasadena Fire Prevention Code (Chapter 14.28 of the City's Municipal Code). Compliance with applicable regulations would minimize the potential for fire and, therefore, the Project's demand for fire protection services.

Construction activities would temporarily create an increased demand for fire-protection services due to the use of equipment, electricity, fuels, and other fire sources that may ignite flammable and combustible materials. As discussed under Section 4.9, Hazards and Hazardous Materials,

the Project has the potential to increase the risks associated with fires due to the presence of heavy construction equipment, including the use of flammable liquids and the presence of combustion engines, which could result in accidental fire, resulting in the need for MM HAZ-1.

Compliance with Pasadena Fire Prevention Code (Chapter 14.28 of the City's Municipal Code) and Standard Specifications for Public Works Construction (Greenbook) and the City's Supplements and Modifications to the Greenbook from Section 4.17, Transportation, would also facilitate fire protection services to the Project. No new or physically altered fire protection facilities would be needed to serve the Project, and thus, there would be no impact, and no mitigation is required.

Police Protection

No Impact.

Project does not involve the development of habitable structures or operational activities that could increase demands for long-term police protection services. The proposed well is not new land use that could attract criminal elements or criminal activities into the area.

If any additional resources are required to patrol the area, the City of Pasadena can adjust staffing accordingly. Any increase in demand for police protection services would not result in a need for new or physically altered police facilities. Construction activities may provide opportunities for crime (e.g., theft and vandalism). However, construction areas and staging areas would be screened with 24-foot sound barriers and fenced, which would prevent theft and vandalism during the construction phase. There would be no impact on police protection services.

Schools

No Impact.

The Project would be in areas designated as Open Space and Park. The proposed Project would not generate a demand for school services because no residential land uses that may be occupied by households with school-aged children are proposed. Maintenance activities on the PWP facilities would not create a demand for school services. No impact on schools would occur with the Project, and no mitigation is required.

Parks

No Impact.

The Project would not generate a demand for parks or recreational facilities because the Project does not propose residential development that may be occupied by households that would utilize local parks and recreational areas. There would be no impact on the level of service at City parks.

Other Public Facilities

No Impact.

The Project would not generate a demand for libraries because the Project does not propose residential development that may be occupied by households, nor would the Project bring in other land uses that may require library services or facilities. No impact on existing library services would occur with the Project.

Long-term operation and maintenance for the Garfield Replacement Well would be largely similar to services for the existing well. Maintenance of the Garfield Replacement Well would increase but would be provided by the same PWP personnel. There would be no need for any physical improvements to existing or construction of new PWP facilities. There would be no impacts to other public facilities, and no mitigation is required.

4.15.3 MITIGATION MEASURES

There would be no significant impacts pertaining to public services; therefore, no mitigation measures are required.

4.16 RECREATION	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would/does the project:				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☒	☐	☐
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☒

4.16.1 EXISTING CONDITIONS

The Project site is zoned Open Space (OS) in the City's Zoning Map and designated as Park in the City's Land Use Plan diagram (City of Pasadena 2020, 2016). Villa Parke (Park) is owned, operated, and maintained by the City. The Park facilities include playground equipment, basketball courts, and grass on the western side, a soccer field complex on the north side, a softball diamond in the central east portion, a swimming pool and Villa Parke Community Center in the southern portion, and picnic areas scattered throughout the Park. The existing Garfield Well is in the northwestern portion of the Park and is housed inside a building and fenced enclosure. The existing Garfield Well site is immediately surrounded by a children's playground, basketball courts, and a restroom facility to the west, soccer field to the north, baseball field to the east, and grassy open area to the south.

4.16.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

Less Than Significant With Mitigation.

The Project would not induce population growth directly or indirectly, which could generate a need for or increase the use of parks and recreational facilities. However, during construction of the Garfield Replacement Well portions of a multi-purpose field and basketball courts of Villa Parke would be closed to the public. There are other field areas within Villa Parke that could be used instead, but there are no other public basketball courts at Villa Parke to use during construction. There are several public parks with basketball courts within the City. These include the following public parks: Brenner, Eaton-Blanche, Grant, Hamilton, Jefferson, La Pintoresca, Robinson, and Washington (City of Pasadena 2021a). In absence of Villa Parke basketball courts during construction, these public courts may be used. However, it should be noted that due to COVID-19 public health concerns, the City has closed all of its facilities where the public congregates and has canceled facility and park reservation requests (City of Pasadena 2021a). As such, certain facilities, including basketball courts, are currently closed. As such, depending on timing of Project construction and City policies regarding COVID-19 public safety concerns, Villa Parke basketball courts may be closed regardless of Project implementation.

Without proper noticing, it is possible that Park users would go into Villa Parke only to find that the basketball courts and a portion of a multi-purpose field are closed. Intermittent closure of these facilities during the construction period would inconvenience a number of Park users. This would be a potentially significant but mitigable impact on recreation, especially during weekends when Park use may be the highest. MM REC-1 requires advanced notification to Park users of closures dates prior to the closure of the amenities at the Project site. Notices would be posted at the parking lots and Park entrance stating the closure times and dates. Use of alternative facilities at Villa Parke or other parks in the City on the days when these portions of the Park are closed would be temporary and would not lead to any significant deterioration of these other facilities. There would be a less than significant impact with mitigation.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

No Impact.

The proposed Project does not include recreational facilities or require the construction or expansion of recreational facilities, which would have an adverse effect on the environment. There would be no impact, and no mitigation is required.

4.16.3 MITIGATION MEASURES

MM REC-1 Prior to the closure of recreational facilities (including basketball courts and open space areas), the Construction Contractor shall post signs at the parking lots and Villa Parke entrances providing at least one week of advanced notice of the dates and times of planned Villa Parke closures.

4.17 TRANSPORTATION	Potentially Significant Impact	Less Than Significant With Mitigation	Less Than Significant Impact	No Impact
Would the project:				
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit roadway, bicycle, and pedestrian facilities?	☐	☐	☒	☐
b) Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☒	☐
d) Result in inadequate emergency access?	☐	☐	☒	☐

4.17.1 EXISTING CONDITIONS

Regional Access

The Foothill Freeway (I-210) starts at the Golden State Freeway (I-5) in the northern portion of the San Fernando Valley, and generally runs in a southeasterly and easterly direction near the southern base of the San Gabriel and San Bernardino Mountains to the I-10 in Redlands. The I-210 has eight travel lanes as it passes along the southern edge of Devil's Gate Dam. Caltrans estimates the 2019 traffic volumes on the I-210 in this area (between the junction of State Route [SR] 134/SR 710 and Lake Avenue) during the peak hour at 23,600 vehicles, with a peak month volume of 339,000 vehicles per day and an average daily traffic volume of 329,000 vehicles (Caltrans 2019).

Local Roadway Network

The Project site can be accessed via SR-134 or I-210 by exiting Fair Oaks Avenue and traveling northward for approximately 0.2 mile to turn right on East Villa Street and continuing eastward for approximately 0.37 mile. North of the intersection of East Villa Street and Garfield Avenue, the Project site is accessed from an access road to Villa Parke off Garfield Avenue.

In 2018, the average daily traffic (ADT) volume on Garfield Avenue between Parke Street and East Villa Street North Windsor Avenue north of Figueroa Drive was 920 ADTs (City of Pasadena 2021b).

Transit Services

The Los Angeles County Metropolitan Transportation Authority (Metro) provides regional bus and passenger train services in the County. Metro Shuttle Route 687 runs along Los Robles Avenue. Pasadena Transit lines 20 and 40 run nearest the Project site, on North Marengo Avenue and Villa Street, respectively. The 210 Metro Rail Line runs along I-210, south of the Project site (Los Angeles County 2017).

4.17.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit roadway, bicycle, and pedestrian facilities?

Less than Significant Impact.

The City of Pasadena's *Transportation Impact Analysis Current Practice and Guidelines* sets forth the City's methodology for determining the level of traffic analysis and review required for development projects (City of Pasadena 2015c). The Guidelines are applicable to projects that would develop residential units or commercial square footage, and do not have a requirement for utility/infrastructure projects. Because the Project would not cause a change in land use that could generate a new population or long-term traffic impacts, no Transportation Impact Analysis is required.

Currently, limited maintenance vehicle trips occur to the existing Garfield Well (approximately one roundtrip per week). The Garfield Replacement Well would require an estimated one round trip visit per day. The total number of daily maintenance visits is not expected to exceed one round trip per day upon implementation of the Project.

Construction activities would generate new vehicle trips from construction equipment and construction crews coming to the site, trucks bringing in building materials, trucks taking out excavated soils and other debris for off-site disposal, and construction equipment leaving the site after each construction phase. Construction activities for the Project would occur sequentially.

Construction workers, equipment delivery vehicles, and haul trucks are expected to access the site via the I-210 or SR-134 at the Fair Oaks or Lave Avenue off-ramps. Trucks would access the site using Fair Oaks Avenue or Lake Avenue exits and designated roadways, in accordance with the PMC Section 10.52, Truck Routes.

Roadway network performance is generally measured by the capacity of roadway intersections, including the ability of each leg of the intersection to handle traffic volumes and the average wait times of vehicles. Since AM and PM peak hours during weekdays handle the greatest amount of traffic at most intersections, the level of service (LOS) at intersections during the AM and PM peak hours is primarily used to evaluate the efficiency of the roadway system. Although the Project would result in limited long-term maintenance related trips, the Project would result in short-term construction-related vehicle and truck trips. Construction activities are required to be conducted in accordance with the Standard Specifications for Public Works Construction (Greenbook) and the City's Supplements and Modifications to the Greenbook to maintain access to all parcels in and near the construction sites. This includes notification of residents and businesses affected by the road work; utility agencies with facilities in the area; the Pasadena Fire and Police Departments; and other emergency service providers. The Greenbook also requires that access be made available at the end of each workday. Additionally, temporary traffic control devices and methods used during construction would be required to conform to the requirements of the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) and the California Supplement to the MUTCD for traffic control during construction activities. The contractor must provide traffic tapers, traffic control devices, barricading, and signs necessary to ensure driver awareness and safety in construction areas and to assist fire and law enforcement personnel.

The Project would not impact a bicycle or pedestrian facility, as the site is located internal to Villa Parke and would use an existing access road as transit into the site. There would be no impact

on the use of mass transit systems with the Project because the Project area is not directly served by a public transportation system and the Project would not create a new land use that could change existing demands for mass transit. As such, the proposed Project would not conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities. There would be a less than significant impact, and no mitigation is required.

b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

Less Than Significant Impact.

Section 15064.3(b)(1) of the State CEQA Guidelines refers to evaluating transportation impacts using vehicle miles traveled (VMT) for land use projects. It should be noted that the proposed Project is not a land use project; it is rather a short-term, construction-based activity and would not generate any long-term change in traffic conditions. On November 3, 2014, the City of Pasadena City Council adopted a resolution to replace the City's transportation performance measures with five new Transportation Performance Measures and new thresholds of significance to determine transportation impacts under CEQA. The new performance measures and CEQA thresholds are consistent with the City's adopted General Plan and Senate Bill (SB) 743 and include VMT per capita, vehicle trips (VT) per capita, proximity and quality of bicycle network, proximity and quality of transit network, and pedestrian accessibility. The new measures support the City's vision of creating a community where people can circulate without cars, which relies upon an integrated multimodal transportation system that provides choices and accessibility for everyone in the City. Per the *Transportation Impact Analysis Current Practice and Guidelines*, any project which is expected to generate fewer than 300 new permanent daily trips is considered exempt, is not expected to generate any impacts, and does not require a full traffic analysis (City of Pasadena 2015c). The Project would have a two one-way personal/work vehicles trips per day (on-road, passenger vehicles), which is below the threshold of 300 daily trips. Also, the City does not require analysis of construction traffic. Therefore, no Project-level analysis of CEQA impacts is required. As such, the Project would not conflict or be inconsistent with Section 15064.3(b) of the State CEQA Guidelines. There would be a less than significant impact, and no mitigation is required.

c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less than Significant Impact.

The Project would not result in any new roadway features or alignments. During construction, there may be obstructing equipment from construction activities south of the Project site (but not on public roadways). At the completion of construction, fencing around the construction area would prevent public access into the Garfield Replacement Well site, but would maintain public access on the Garfield Avenue and the access road leading into Villa Parke. The Garfield Replacement Well would not pose a roadway design hazard or impediment.

Additionally, during construction, adherence to the Greenbook and the City's Supplements and Modifications to the Greenbook, would be required. The Greenbook also requires that access be made available at the end of each workday. Adherence to this regulation would ensure that there would not be increased hazards for any users of the road.

An increase in the number of construction vehicles and trucks on Windsor Avenue during Project construction would increase opportunities for traffic hazards. Flagpersons, signs, and traffic control devices would be provided at the intersection of Ventura Street and Windsor Avenue in accordance with the Greenbook and MUTCD to prevent hazards associated with construction vehicles merging with or diverging from vehicle traffic on Windsor Avenue. Compliance with these regulations would ensure impacts are less than significant, and no mitigation is required.

d) Would the project result in inadequate emergency access?

Less than Significant Impact.

Construction activities associated with the Project would not result in obstruction of Garfield Avenue or Villa Street, which provide emergency access to the Project area. Compliance with the Greenbook and the City's Supplements and Modifications to the Greenbook regarding maintenance of emergency access at all times and the use of a flagperson to direct traffic, as necessary, would ensure that impacts to this roadway would be less than significant. Temporary traffic control devices are also required to be provided in conformance with the MUTCD and the California Supplement to the MUTCD. Therefore, there would be a less than significant impact, and no mitigation is required.

4.17.3 MITIGATION MEASURES

There would be no significant impacts pertaining to transportation; therefore, no mitigation measures are required.

4.18 TRIBAL CULTURAL RESOURCES	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the project:				
a) Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)? or	☐	☐	☐	☒
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?	☐	☒	☐	☐

4.18.1 EXISTING CONDITIONS

This section evaluates the Project's potential for any adverse effects on Tribal Cultural Resources (TCRs). A TCR, as defined in Section 21074 of the Public Resources Code, is a site, feature, place, or cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to California Native American tribe.

Prior to the arrival of the Spanish, the Los Angeles Basin and Channel Islands were occupied by the Tongva. The Tongva lived in large, semi-permanent village established in the fertile lowlands along rivers and streams and in sheltered areas along the coast (Kroeber 1925). Spaniards arrived in California by 1542 when explorer Juan Rodriguez Cabrillo made a temporary landfall at the Chumash village of *Sisolop* (present-day Ventura) (Grant 1978). He was the first of several early explorers, representing several nations, to explore the Alta California coast. However, the end of the prehistoric era in Southern California is marked by the arrival of the Gaspar de Portolá overland expedition from New Spain (Mexico) and the founding of the first Spanish settlement at San Diego on July 16, 1769 (Johnston 1962).

Two Franciscan missions were established in the Los Angeles Basin: Mission San Gabriel Arcángel and Mission San Fernando Rey de España*,* which were founded in September 1771 and in 1797, respectively. The missions were charged with assimilating the indigenous people in their areas to Spanish lifeways. The Tongva became known as the Gabrieleño, a term referring to all indigenous people served by the local mission regardless of their cultural affinity. However, the native population was decimated by the introduction of European diseases, such as measles and smallpox, for which they had no immunity. After 1810, mission populations declined faster than they could be replenished.

In addition to spreading Catholicism, Spain controlled land by issuing large land grants to affluent political leaders. California was under Spanish control until the Mexican Revolution in 1821.

Mexico's independence from Spain in 1822 brought the Mexican Period to California. Mexico secularized the missions in 1833 and expanded on the Spanish practice of granting large tracts of ranch land to soldiers, civil servants, and pioneers (Cleland 1966). Secularization of the missions, planned under the Spanish, was greatly accelerated by the Mexican government. Plans to provide land, training, and living quarters for the Native American population never developed and the mission lands were soon under the control of a relatively few influential Mexican families.

As presented above in Section 4.5, Cultural Resources, there are no known prehistoric archaeological resources within ¼ mile of the Project site, and no resources have been recorded on the site itself. A Sacred Lands File (SLF) Search was completed by the NAHC on December 22, 2020. The search results identified at least one tribal cultural resource within or near the Project site. However, the details regarding these resources are only known by the local tribes. The NAHC recommended consulting with the Gabrieleño Band of Mission Indians–Kizh Nation for additional information regarding the tribal cultural resource. The SLF Search and Project AB 52 notification letters can be found in Appendix C, Cultural and Tribal Cultural Resources Data, of this IS/MND.

Assembly Bill 52 Consultation

The City received two requests from California tribes to be placed on their consultation list. Accordingly, the City of Pasadena submitted a formal notification to the designated contacts for the Gabrieleño Band of Mission Indians–Kizh Nation and the Gabrielino-Tongva Tribe. The City received one request from the Gabrieleño Band of Mission Indians–Kizh Nation Tribe for government-to-government consultation.

The City conducted consultation via telephone conference on December 31, 2020 with the Gabrieleño Band of Mission Indians–Kizh Nation. The meeting commenced at 3:00 PM with Sandra Hernandez-Andrade and Michele Carina representing PWP. The Gabrieleño Band of Mission Indians–Kizh Nation was represented by Andrew Salas and Mathew Teutimez. Daria Sarraf and Kassie Sugimoto from Psomas were also in attendance.

During consultation, PWP gave a brief overview of the Project. The Gabrieliño Band of Mission Indians–Kizh Nation indicated that the Project site is located within an area of prehistoric and historic tribal use. No information was shared by either Mr. Salas or Mr. Teutimez during the consultation confirming the existence of documented tribal cultural resources within the Project site. However, both Mr. Salas and Mr. Teutimez believe the Project site is located within an area that is considered highly sensitive to tribal resources due to its close proximity to a prehistoric trading route and a local water source that would have been an important resource during prehistoric times. Furthermore, the area was used extensively by both the local Native American population and the Spanish during the Spanish ranching era. As such, the Kizh Nation believes the Project site may contain human remains, prehistoric archaeological resources important to the local Native American population, including historic-era tribal cultural resources.

The Gabrieleño Band of Mission Indians–Kizh Nation wishes to share information with PWP to help mitigate any potential impacts to tribal cultural resources. As such, the Gabrieleño Band of Mission Indians–Kizh Nation would provide PWP with maps illustrating culturally sensitive areas to the tribe, such as prehistoric village sites and historic use areas. In return, the Gabrieleño Band of Mission Indians–Kizh Nation requests that PWP implement tribal monitoring within soils that may contain evidence of human occupation. PWP will provide the Gabrieleño Band of Mission Indians–Kizh Nation with geologic and cultural research that has been conducted within the Project site, including a copy of the positive Sacred Lands File (SLF) results and past reports discussing site stratigraphy.

The consultation meeting ended at 4:00 PM on December 31, 2020. However, communication between PWP and the Gabrieleño Band of Mission Indians–Kizh Nation continued into February 2021 via email to discuss mitigation measures intended to reduce impacts to any potential tribal resources during construction. On February 9, 2021, PWP communicated with Brandy Salas from the Gabrieleño Band of Mission Indians–Kizh Nation by phone and an extension was given to the Tribe to review PWP's proposed Mitigation Measures. The extended deadline was February 12, 2021. However, no response to or comments on the mitigation measures were provided to PWP from the Gabrieleño Band of Mission Indians–Kizh Nation by the extended deadline. Therefore, PWP concluded consultation.

However, PWP recognizes this area of Los Angeles County was inhabited by Native Americans, but existing site records and archaeological studies do not indicate archaeological resources significant to Native Americans on the project site. It should be noted that there is always the possibility that undiscovered, intact cultural resources, including tribal cultural resources, may be present below the surface in native sediments. Given the lack of evidence of known resources at the Project site, the City's assessment is that the impacts would be less than significant. Even though impacts would be less than significant, implementation of MM TCR-1 and MM TCR-2 would further recognize the Tribe's concerns during construction activities.

4.18.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?

No Impact.

There are no tribal cultural resources on the Project site that are currently listed, individually or collectively, in either the National Register of Historic Places (NRHP) or the California Register of Historical Resources (CRHR). Therefore, there would be no impacts to documented tribal cultural resources, and no mitigation is required.

ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

Less Than Significant with Mitigation.

As discussed above in Section 4.5 of this IS/MND, there are no documented prehistoric archaeological resources within ¼ mile of the Project site and no prehistoric archaeological resources within the Project site. Nevertheless, it is likely that Native Americans traversed through the Project site in prehistoric times, as suggested by the information provided by the Gabrieleño

Band of Mission Indians–Kizh Nation during tribal consultation. However, it should be noted that the Project site and surrounding areas has been significantly developed through landscaping and hardscaping. As such, potential archaeological resources buried beneath the site are likely to be heavily disturbed. While unlikely, there is always the possibility that buried intact archaeological resources, such as hearth features (roasting pits) and middens (i.e., shell fish remains and other discarded food items) associated with Tongva village sites, historic-era archaeological features (i.e., trash middens, foundations) related to Spanish and Mexican Periods ranching, and human remains could be present in a subsurface context on the Project site.

There would be ground-disturbing activities via drilling, reaching 950 feet bgs, with Project implementation; however, excavations may encounter tribal cultural resources dating to the prehistoric periods of Southern California's Holocene epoch. Given the lack of evidence of known resources at the Project site, the City's assessment is that the impacts would be less than significant. However, even though impacts would be less than significant, implementation of MM TCR-1 and MM TCR-2 would further recognize the Tribe's concerns during construction activities.

MM TCR-1 requires that a qualified Native American Monitoring (NAM) who is culturally affiliated with the Project area and/or otherwise approved by the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government, be retained. Monitoring by the NAM is only to occur onsite when well drilling is scheduled and is not to exceed five consecutive working days. Any discovered resources would be evaluated for significance by the NAM and a mitigation plan would be developed in consultation with PWP and the Project Archaeologist. Additionally, MM TCR-2 requires that in accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found within the Project site, the County Coroner shall be immediately notified of the discovery. In accordance with Public Resources Code (PRC) 5097.98, the NAHC must immediately notify those persons it believes to be the most likely descendant (MLD) of the deceased Native American. Funerary objects, called associated grave goods in PRC 5097.98, are also to be treated according to this statute. The MLD shall complete his/her inspection within 48 hours of being granted access to the site. The designated MLD shall then determine, in consultation with the property owner, the disposition of the human remains. It is then at the MLD's discretion which Tribal entities are consulted with regarding the treatment of human remains. As such, impacts to tribal cultural resources would be less than significant with implementation of MM TCR-1 and MM TCR-2.

4.18.3 MITIGATION MEASURES

MM TCR-1 Prior to commencement of ground-disturbing activities, the City of Pasadena (City) shall retain a qualified Native American Monitor (NAM) who is culturally affiliated with the Project area and/or otherwise approved by the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government to observe ground-disturbing activities, which may include, but are not limited to, pavement removal, pot-holing or augering, grubbing, tree removals, boring, grading, excavation, drilling, and trenching, within the Project Area. Additionally, per MM CUL-1, prior to commencement of ground-disturbing activities, the City shall retain a qualified Archaeologist for on-call services in the event of discovery of cultural resources. Monitoring by the NAM is only to occur onsite when well drilling is scheduled and is not to exceed five consecutive working days. The NAM shall complete daily monitoring logs providing descriptions of the day's activities including construction activities, locations, soil, and any cultural materials identified. All discovered TCRs found during ground-disturbing activities for the Project, shall be temporarily curated in a secure location on site by the Project Archaeologist. If removal of artifacts from the Project site is necessary, each artifact shall be catalogued, and

an inventory will be provided to the Tribal monitor upon each addition. Following the completion of the Project, all TCRs shall be returned to the Tribe. Regardless of discovery, at the completion of all ground-disturbing activities, the Project Archaeologist shall formulate a Monitoring Report and submit said report to the City of Pasadena and the South Central Coastal Information Center (SCCIC) located at California State University, Fullerton and the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government. The report will document all monitoring efforts and the NAM and be completed within 60 days of conclusion of all ground-disturbing activities. The disposition of the resources shall be subject to approval by the City. If resources are discovered, work may proceed in other areas of the site, subject to the direction of the Archaeologist or NAM.

MM TCR-2 In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found within the Project site, the County Coroner shall be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains, and no less than 150 feet from the discovery, shall occur until the County Coroner has determined, within two working days of notification of the discovery, the appropriate treatment and disposition of the human remains. To prevent any further disturbance, the remains shall be kept confidential and secure until treatment is complete. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she shall contact, by telephone, the Native American Heritage Commission (NAHC) in Sacramento within 24 hours, and California Public Resources Code (PRC), Section 5097.98 shall be followed. In accordance with PRC 5097.98, the NAHC must immediately notify those persons it believes to be the most likely descendant (MLD) of the deceased Native American. Funerary objects, called associated grave goods in PRC 5097.98, are also to be treated according to this statute. The MLD shall complete his/her inspection within 48 hours of being granted access to the site. The designated MLD shall then determine, in consultation with the property owner, the disposition of the human remains. It is then at the MLD's discretion which Tribal entities are consulted with regarding the treatment of human remains.

4.19 UTILITIES AND SERVICE SYSTEMS	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Would the project:				
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☒	☐
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has inadequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐

4.19.1 EXISTING CONDITIONS

There are two groundwater wells owned by PWP in and near the Project site, including the existing Garfield Well and Villa Well.

As stated in Section 2.3.3, Utilities, PWP owns and maintains a six-inch potable waterline in Garfield Avenue and a 12-inch to 16-inch water transmission line that conveys water pumped from the Garfield Well to the Sunset Reservoir site. The City's Department of Public Works is responsible for the operation and maintenance of the City's sewer collection and pumping facilities. An eight-inch sanitary sewer main is in Garfield Avenue. The Los Angeles County Flood Control District (LACFCD) has a 42-inch storm drain main line in Garfield Avenue. A storm drain lateral north of the existing Garfield Well site is routed east to west through the Park and collects runoff from the soccer field and park facilities and directs the drainage water into LACFCD's storm drain main line in Garfield Avenue. Southern California Gas (SoCalGas) provides natural gas to the area and owns and operates a four-inch gas transmission line in Garfield Avenue. Southern California Edison (SCE) provides power to the area with power poles and overhead lines located along the eastern edge of Garfield Avenue. The Park has underground electrical utilities to the existing Garfield Well, the restroom facilities northwest of the proposed Garfield Replacement Well location, and the soccer field to the north of the Project site. It is possible that other gas, cable, water, and telephone utilities may exist in the subsurface in the vicinity of the Project site. The Project site's existing utilities are depicted on Exhibit 2-2.

4.19.2 IMPACT ANALYSIS

Impact Discussion

a) Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction of which could cause significant environmental effects?

c) Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has inadequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Less than Significant Impact.

No restroom or other wastewater generating facilities are proposed as part of any of the Project components. During construction, portable toilets would be provided at the site for the construction crew, and these portable toilets would be regularly cleaned and their contents disposed of off-site by an outside company. Wastewater from these portable toilets would not exceed Los Angeles RWQCB treatment requirements. Also, an insignificant amount of wastewater would be generated by these portable toilets, and the Project would not result in the need for new or expanded treatment facilities. Capacity at existing wastewater treatment plants would not be exceeded during construction or operation of the proposed Project. Regarding water treatment facilities, while the Project involves the construction of potable water well infrastructure and the impacts are addressed in this IS/MND, the Project would not result or require construction of new or expanded water treatment facilities beyond the scope of the Project.

The Project itself is the construction of new water infrastructure, and the environmental impacts are addressed in this IS/MND. The intent of the Project is to maintain source capacity of potable water in the City. However, implementation of the Project would not result in the relocation or construction of additional or expanded water infrastructure.

Implementation of the Project would result in a slight increase in impervious surface area associated with the new submersible well pump and associated 16-sf concrete platform with a height of 2 feet; however, the pump would not be enclosed in a building or other type of enclosure. Therefore, operation of the Project would not significantly impact storm water drainage in the area. There would be a less than significant impact.

Operation of the Project is anticipated to consume approximately 1,397,880 kWh/yr. Therefore, although the Project would result in an increase in overall electrical usage compared to existing conditions, no new major infrastructure (i.e., new energy sources) would be required. There would be a less than significant impact.

No demand for natural gas or telecommunication services would be required with implementation of the Project. It is possible that other utilities, such as gas, cable, water, and telephone utilities may exist in the subsurface in the vicinity of the Project site. Therefore, prior to drilling, an Underground Service Alert ticket will be requested by PWP or the contractor to clear the proposed Garfield Replacement Well location of underground utilities. There would be a less than significant impact, and no mitigation is required.

b) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?

Less than Significant Impact.

Project implementation would require water for the control of fugitive dust during grading and excavation activities. A water truck would come to the construction site, with water obtained from off-site sources, as needed. Drilling of the well and production of the Garfield Replacement Well would require extracting groundwater, as intended for the Project. As discussed in Section 4.10, Hydrology and Water Quality, the Project's pumping extraction from the Pasadena Subarea of the Raymond Groundwater Basin during construction, operation, and maintenance activities will be aggregated on a fiscal year basis (July 1 to June 30 of the following calendar year) to conform to the Raymond Basin Adjudication. Therefore, when considering that the Project is to bolster supply to maintain source capacity of potable water in the City, there would be less than significant impacts, and no mitigation is required.

d) Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Less Than Significant Impact.

Construction activities would generate solid wastes, primarily composed of drill cuttings from the pilot borehole drilling and borehole reaming. Construction is estimated to generate approximately 202 cy of solid waste. The City is within the permitted wasteshed jurisdiction of Scholl Canyon Landfill, which is located at 7721 N. Figueroa Street, Los Angeles. The Scholl Canyon Landfill has a permitted daily capacity of 3,400 tons per day (7,025 cy) and has approximately 9,900,000 cy of remaining capacity (CalRecycle 2021). Therefore, the Project's construction-period waste generation of 202 cy represents approximately 3 percent of the landfill's daily permitted capacity. In reality, this waste volume would not be disposed in one day, but over 10 days. There would be sufficient landfill capacity for construction waste from the Project.

Operation of the Project would not generate an appreciable volume of solid waste. All potentially hazardous wastes would be disposed of in accordance with existing regulations, as discussed in Section 4.9, Hazards and Hazardous Materials. The nominal volume of operational solid waste generation would not exceed the daily or remaining capacity of Scholl Canyon Landfill, or the Class III (i.e., hazardous material) landfill used to dispose of any materials that are characterized as hazardous after appropriate laboratory testing. There would be less than significant impacts, and no mitigation is required.

4.19.3 MITIGATION MEASURES

There would be no significant impacts pertaining to utilities and service systems; therefore, no mitigation measures are required.

4.20 WILDFIRE	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
If located in or near State Responsibility Areas or lands classified as Very High Fire Hazard Severity Zones, would the project:				
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☒
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☒
c) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

4.20.1 EXISTING CONDITIONS

According to the Fire and Resource Assessment Program Very High Fire Hazard Severity Zones in LRA As Recommended by CAL FIRE map for the City of Pasadena, the Project site is not located within or near any areas designated as a Very High Fire Hazard Severity Zone (VHFHSZ) in either a Local Responsibility Area (LRA) or a State Responsibility Area (SRA).

4.20.2 IMPACT ANALYSIS

Impact Discussion

a) If located in or near State Responsibility Areas or lands classified as Very High Fire Hazard Severity Zones, would the project substantially impair an adopted emergency response plan or emergency evacuation plan?

b) If located in or near State Responsibility Areas or lands classified as Very High Fire Hazard Severity Zones, would the project due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

c) If located in or near State Responsibility Areas or lands classified as Very High Fire Hazard Severity Zones, would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

d) If located in or near State Responsibility Areas or lands classified as Very High Fire Hazard Severity Zones, would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

No Impact.

As stated above, the Project site is not located within or near any areas designated as a VHFHSZ in either an LRA or a SRA. The nearest VHFHSZ-designated area is located approximately 1.37 miles west of the Project site (CAL FIRE 2011). There would be no impacts related to wildfires, and no mitigation is required.

4.20.3 MITIGATION MEASURES

There would be no significant impacts associated with wildfire; therefore, no mitigation measures are required.

4.21 MANDATORY FINDINGS OF SIGNIFICANCE	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
Does the project:				
a. Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐
b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☐	☒	☐
c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

4.21.1 IMPACT ANALYSIS

a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?

Less than Significant with Mitigation.

As discussed above in Section 4.4, Biological Resources, the Project does not have the potential to impact special status biological species, except for the need to avoid impacts to birds during nesting season. As discussed above in Section 4.5, Cultural Resources, Section 4.7, Geology and Soils, and Section 4.18, Tribal Cultural Resources, the Project would lead to the disturbance of soils that could contain cultural, paleontological, and tribal cultural resources. Mitigation measures have been developed to reduce potential environmental impacts on biological, cultural, paleontological, and tribal cultural resources to less than significant levels.

Implementation of the mitigation measures and adherence to regulations would ensure that the Project does not degrade the quality of the environment; does not substantially reduce the habitat of fish or wildlife species; does not cause a fish or wildlife population to drop below self-sustaining levels; does not threaten to eliminate a plant or animal community; does not reduce the number or restrict the range of Rare or Endangered plant or animal; and does not eliminate important examples of the major periods of California history or prehistory. Impacts would be less than significant with mitigation.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Less than Significant Impact.

As shown in the analysis in Sections 4.1 through 4.20 above, all construction-related impacts would be either less than significant or mitigated to a less than significant level. As demonstrated by the analysis in this IS/MND, there would be no long-term operational impacts, because the Project consists of a potable water well, with minimal energy consumption required and one round vehicle trip required per day. The City of Pasadena has no major construction projects or active planning cases located proximate to the Project site that are anticipated to overlap with the Project in construction or operations (City of Pasadena 2021c). As such, there is no potential contribution to long-term cumulative impacts from implementation of the proposed Project.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less than Significant with Mitigation.

The Project would have potential to effect human beings from construction noise and from temporary and partial Park closures, as detailed in Section 4.13, Noise, and 4.16, Recreation, respectively. However, with implementation of mitigation measures detailed in these sections of the IS/MND, the proposed Project would have less than significant environmental effects on human beings, either directly or indirectly. Therefore, there would be a less than significant impact with mitigation related to adverse effects on human beings.

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APPENDIX A

WELL DESIGN REPORT

Garfield Replacement Well

Well Design Report

Prepared for:

Pasadena Water and Power

Final Report

October 2020

Prepared by:

WOOD RODGERS

GARFIELD REPLACEMENT WELL

WELL DESIGN REPORT

FINAL REPORT

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1.0 INTRODUCTION

1.1 BACKGROUND

Pasadena Water and Power (PWP) is planning to drill and construct a replacement potable water supply well in Villa Parke (Park) in the city of Pasadena, California (City). PWP currently owns two wells in the Park, the Garfield Well and the Villa Well. The Garfield Well has reached the end of its useful service life and has been removed from service. The Garfield Well, located in the northwest portion of the Park, is currently slated for destruction in October of 2020, and it is PWP's desire to replace the Garfield Well to maintain source capacity. The replacement well has been sited approximately 100 feet northwest of the existing Garfield Well.

1.2 PROJECT LOCATION

The City is located in Los Angeles County, south of the San Gabriel Mountains and east of the San Rafael Hills in California, as shown in **Figure 1**. The existing Garfield Well is located on the west side of the Park, approximately 575 feet north and 230 feet east of the intersection of Garfield Avenue and E. Villa Street in Pasadena, California. The planned Garfield Replacement Well is to be located approximately 165 feet due east of Garfield Avenue and approximately 100 feet northwest of the existing Garfield Well (see **Figure 2**).

1.3 EXISTING CONDITIONS

1.3.1 VILLA PARKE

The Park is owned, operated and maintained by the City. The Park is approximately eight acres total in size with a mostly flat ground surface that gently slopes to the south, and is covered primarily in grass with scattered trees. Park facilities include playground equipment, a basketball court, and grass on the western side, a soccer field complex on the north side, a baseball diamond in the central east portion, and a swimming pool and community center in the southern portion. The Garfield Well site is immediately surrounded by the playground, basketball court, and a restroom facility. The Park is currently home to two PWP wells: the Garfield Well and Villa Well. The Garfield Well is located on the western edge of the Park and is housed inside a building and fenced enclosure. The Villa Well is located on the southern edge of the Park and is located in a below-grade vault in the concrete sidewalk in front of the Community Center. The Park is surrounded by residential neighborhoods on all four sides, as shown in Figure 2.

1.3.2 UTILITIES

Located within and adjacent to the Park are the typical utilities that are required to serve a residential community. PWP owns and maintains a six-inch potable waterline in Garfield Avenue, as well as a 12-inch water transmission line that conveys water pumped from the Garfield Well to Villa Street, then into a 16-inch water transmission line that conveys the water to the Sunset Reservoir. The City's Public Works Street Maintenance and Integrated Waste Management (SMIWM) Division is responsible for the operation and maintenance of the City's sewer collection and pumping facilities. An eight-inch sanitary sewer main is located in Garfield Avenue. The Los Angeles County Flood Control District (LACFCD) has a 42-inch storm drain main line in the eastern portion of Garfield Avenue. An 18-inch HDPE storm drain lateral north of the Garfield Well site is routed east to west through the Park, and collects runoff from the soccer field and park facilities and directs the drainage

water into LACFCD's storm drain main line in Garfield Avenue. SoCalGas provides natural gas to the area, and owns and operates a four-inch gas transmission line in Garfield Avenue. Southern California Edison (SCE) provides power to the area with power poles and overhead lines located along the eastern edge of Garfield Avenue. The Park has underground electrical utilities to the existing Garfield Well, the bathroom to the northwest of the proposed well location, and the soccer field to the north. Gas, cable, water, and telephone utilities may exist in the subsurface in the vicinity of the planned well site. Prior to drilling, an Underground Service Alert ticket will be requested by the contractor to clear the proposed location of underground utilities.

1.4 PURPOSE AND SCOPE

The purpose of this report is to provide PWP the design criteria, anticipated production capacity, anticipated groundwater quality, drilling considerations, and an initial well design for the planned Garfield Replacement Well (to be finalized following temporary zone sampling). As part of the design process, Wood Rodgers reviewed historical groundwater level and quality data for other municipal wells, well construction information, potential sources of point-source contamination, required setbacks, and construction constraints.

2.0 HYDROGEOLOGY

2.1 GEOLOGIC SETTING

The City is located within the Raymond Groundwater Basin, hereafter referred to as the Raymond Basin (see **Figure 3**). The Raymond Basin, an alluvial valley approximately 40 square miles in total area.

The Raymond Basin is a structural basin, with the western and northern margins defined on the ground surface by uplifted bedrock forming the San Rafael Hills and the San Gabriel Mountains. The bedrock consists of low-permeability Mesozoic marine sedimentary and metasedimentary rocks, and consolidated basement rocks consisting of pre-Cambrian and Cenozoic crystalline and volcanic rocks. The Raymond Basin is a structurally complex basin, with the Sierra Madre Fault Zone forming the northern margin along the front of the San Gabriel Mountains, faulting in the southern margin along the Raymond Fault, and a north-trending divide that parallels the Eaton Wash in the eastern portion of the Raymond Basin (DWR, 2004). The Raymond Fault is a southwest-northeast trending fault that defines the boundary between the Raymond Basin and the Main San Gabriel Groundwater Basin to the south and southeast.

The Raymond Basin is generally divided into three subareas, including the Monk Hill Subarea, the Pasadena Subarea, and the Santa Anita Subarea (see Figure 3). The Pasadena Subarea is bound to the north by the Monk Hill Subarea and consolidated and crystalline basement rocks of the San Gabriel Mountains, to the east by the Santa Anita Subarea, to the south by the Raymond Fault and the boundary with the Main San Gabriel Groundwater Basin, and to the west by consolidated and crystalline basement rocks of the San Rafael Hills (California Department of Water Resources [DWR], 2004). The planned well site is located within the western portion of the Pasadena Subarea, which is the largest of the three divisions within the Raymond Basin.

Overlying the bedrock is a thick accumulation of more than 1,200 feet of unconsolidated alluvial materials that form the Raymond Basin, consisting of boulders, gravel, sand, silt, and clay in varying

proportions. The unconsolidated to semi-consolidated alluvial sediments were primarily deposited by streams flowing out of the San Gabriel Mountains during the Pleistocene and Holocene. The base of the freshwater-bearing strata occurs at the contact with the underlying bedrock material (RBMB, 2016). Based on the well log for the nearby Villa Well, the effective base of alluvial material beneath the Garfield Well site is anticipated to occur at approximately 950 feet below ground surface (bgs).

The alluvial materials are divided into two geologic units, the Younger and Older Alluvium. The maximum thickness of the Younger Alluvium is typically 150 feet (DWR, 2004), and is mostly unsaturated. The principal water-bearing unit within the Raymond Basin is the Older Alluvium. Where these sediments are saturated and of sufficient permeability and thickness to provide economically viable quantities of water to wells, they form the Raymond Basin aquifers.

2.2 GROUNDWATER

2.2.1 GROUNDWATER OCCURRENCE

The Raymond Basin has a semi-confined to unconfined aquifer system (i.e., groundwater is not separated from the ground surface by an impermeable geologic materials) due to the absence of widespread or laterally continuous confining layers (RBMB, 2016). Holocene alluvium generally forms alluvial fans along the San Gabriel Mountains and stream deposits that follow the course of the major streams and rivers across the valley (RBMB, 2016). This young alluvium provides a highly permeable connection between the surface and the underlying aquifers.

The groundwater gradient in the Raymond Basin is primarily from north to south, from areas of recharge at the base of the San Gabriel Mountains to areas of discharge along the Raymond Fault at hydraulic gradients ranging from approximately 0.040 to 0.090 ft/ft (PWP, 2011). In the vicinity of the planned well site, the prevailing direction of groundwater flow is to the southeast.

The Raymond Fault acts as a leaky hydrologic barrier and defines the boundary between the Raymond Basin and the Main San Gabriel Valley Basin to the south. There is very little subsurface flow reported across the western portion of the Raymond Fault into the Main San Gabriel Valley Basin, where the fault creates a nearly impervious barrier to groundwater flow; however, subsurface flow is reported to increase towards with east, with the highest rates of subsurface flow occurring in the eastern portion of the Raymond Fault near the Santa Anita Subarea (RBMB, 2016).

2.2.2 AQUIFER SYSTEMS

The principal water-bearing formations of the Raymond Basin are unconsolidated and semi-consolidated non-marine sediments of recent and Pleistocene age (Older Alluvium). The sediments vary in gradation from boulders and coarse gravel in areas near the front of the San Gabriel Mountains, to medium- and fine-sand containing a larger amount of silt and clay towards the south (MSGBW, 2016). The thickness of the Older alluvium generally increases southward from the front of the San Gabriel Mountains, and reaches a maximum thickness of approximately 1,140 feet near Pasadena, then thins and decreases in thickness corresponding to shallower bedrock to a depth of approximately 200 feet near the Raymond Fault (DWR, 2004). The Older Alluvium deposits form most of the productive water-bearing deposits in the Raymond Basin.

2.2.3 AQUIFER YIELD

Aquifer transmissivity is a measure of the capability of an aquifer to transmit water, and is defined as the rate of flow through an aquifer that measures one foot in width, extending the full saturated thickness of the aquifer under a unit hydraulic gradient. It is typically expressed in units of gallons per day per foot (gpd/ft) and can be calculated by taking the product of the hydraulic conductivity of an aquifer (in gpd/ft^2) and the aquifer thickness (in feet). Aquifer transmissivity can also be estimated from data collected during a controlled pumping test such as a constant rate drawdown test.

The specific capacity of a well is calculated by dividing the pumping rate (in gpm) by the amount of drawdown measured within a pumping well (in feet), and is expressed as gallons per minute per foot (gpm/ft) of drawdown. As this parameter varies with both time and pumping rate, and is affected by other factors (e.g.: well inefficiencies, well interference, well screen plugging, and regional water level decline), it is preferable to use specific capacity data that were collected at the time the well was originally constructed to evaluate potential extraction rates. However, recent well test data are also useful as a metric to determine current anticipated extraction rates and a wells' specific capacity. Well construction details and well testing data for PWP water supply wells in the vicinity of the planned well site (Garfield, Villa, Sunset, Copelin, and Bangham) are shown in **Figure 4** and summarized in **Table 1** below.

Table 1: Operational Parameters and Construction Details of Nearby PWP Wells

Well Name	Year Built	Casing Depth [ft bgs]	Nominal Casing Dia. [in]	Screen Interval Top & Bottom [ft bgs]	Original Static Water Level [ft bgs] (Year)	Date of Well Testing	Static Water Level [ft bgs]	Pumping Water Level [ft bgs]	Capacity [gpm]	Specific Capacity [gpm/ft]
Garfield	1921	712	26	192-654[1]	Unk.	Sept 2006	238	309	1,417	20
Villa	1925	953	26	212-879	218 (1925)	May 2009	219	249	2,574	86
Sunset	1924	751	26	245-728	222 (1924)	May 2009	274	300	1,306	50
Copelin	1921	700	20	188-668	Unk.	May 2009	250	312	1,076	17
Bangham	1993	680	20	540-660	Unk.	May 2009	312.3	416.8	1,512	14

[1] The top of sediment fill was encountered at 654 feet during a spinner survey on March 16, 1992.

From well testing conducted between 2006 and 2009, the reported specific capacities for the assessed PWP wells in the vicinity of the planned well site range from 14 gallons per minute per foot of drawdown (gpm/ft) in the Bangham Well, to 86 gpm/ft in the Villa Well, with an average capacity of 1,577 gpm. The reported instantaneous discharge rates ranged from 1,076 gpm (Copelin Well) to 2,574 gpm (Villa Well). The data suggest a moderate degree of variability across a small area, likely due to differences in drilling methods, construction depth, total length of well screen, well screen plugging, and application of well development techniques.

2.2.4 HISTORICAL GROUNDWATER LEVELS

Historical groundwater elevations in the Raymond Basin have been recorded by the Los Angeles County Department of Public Works (LACDPW) in the vicinity of the Garfield Well site since the early 1920s. Historical groundwater elevation data were reviewed for five PWP Wells (Garfield, Villa, Sunset, Copelin, and Bangham) near the planned well site, and plotted on a hydrograph to depict groundwater elevation trends over time (see **Figure 5)**. The groundwater elevation data indicate that this portion of the Raymond Basin has experienced water level declines of approximately 90 feet since the period of record began in the late 1920s through the mid-1930s. In the mid-1930s, groundwater elevations partially recovered and stabilized at an elevation of approximately 670 feet mean sea level (msl) through 1955 (the Raymond Basin was adjudicated in 1944). After 1955, groundwater elevations in this portion of the Raymond Basin declined by approximately 80 feet, and averaged approximately 600 feet msl elevation between the late 1960s and 1985. Groundwater elevation declines of approximately 50 feet occurred during the late 1980s and into 1991, with elevations at approximately 550 feet msl, which have been the deepest groundwater levels recorded over the period of record for these assessed PWP wells. Groundwater elevations were increasing since the early 1990s through 2015, and have recovered to early 1940s elevations of approximately 680 feet msl. Between 2015 and 2018, the groundwater elevations in these wells have slightly declined by approximately six feet. Annual, or seasonal fluctuations, are documented to be on the order of 10 to 15 feet.

The hydrograph suggests groundwater elevations in the vicinity of the Garfield Well site have ranged from approximately 512 feet msl in 1991 (the deepest recorded elevation) to 680 feet (msl) in 2015. As of fall 2018, the static groundwater elevation underlying the planned well site was 678 feet msl (or 220 feet bgs), and is anticipated to be at a similar elevation in the planned well.

2.2.5 GROUNDWATER QUALITY

Non-point source constituents of concern within groundwater of the Pasadena Subarea include total dissolved solids, fluoride, and radionuclides. Fluoride and radionuclides are predominantly problematic near the base of the San Gabriel Mountains. Additionally, the Raymond Basin is known to have water quality impairments stemming from anthropogenic contaminants associated with local industry, automobile gas stations, repair shops, and underground storage tanks. These impairments include perchlorate, nitrate (as N), and various Volatile Organic Compounds (VOCs).

There are no widespread or laterally continuous geologic confining layers that hydraulically isolate the shallower aquifers from the deeper aquifers in the Pasadena Subarea of the Raymond Basin. Wells constructed with inadequate sanitary and annular seals, or that have well screen that connect multiple aquifer zones, can increase the potential for the migration of contamination within the Raymond Basin.

Historical groundwater quality data from four select PWP wells, including the Garfield and Villa Wells (inactive) and the Sunset and Bangham Wells (active), were evaluated with respect to state and federal drinking water requirements. Groundwater in the vicinity of these PWP wells has been primarily impacted by perchlorate and nitrate contamination. There is also VOC contamination reported in the Sunset Reservoir area wells (Sunset and Bangham); however, data from the Garfield and Villa Wells suggest that the planned well site does not appear to be impacted by VOC

contamination.

2.2.5.1 NON-POINT SOURCE GROUNDWATER QUALITY IMPAIRMENT

2.2.5.1.1 PERCHLORATE

Perchlorate is an inorganic compound that is not known to naturally occur in the subsurface. It originates in the environment as a contaminant as a result of waste discharge from the manufacturing or testing of solid rocket fuels, with the manufacture of ammonium perchlorate, or from the use of perchloric acid, for example. Perchlorate is highly soluble in groundwater and has been detected in all four of the PWP wells evaluated. Detections of perchlorate in these PWP wells may be associated with the Superfund site that exists at the Jet Propulsion Laboratories (JPL). The Division of Drinking Water (DDW) has established a primary Maximum Contaminant Level (MCL) of 6 micrograms per liter (µg/L) for perchlorate.

As shown in **Figure 6a**, historical concentrations of perchlorate for the selected PWP wells have ranged from non-detect to 31.6 µg/L over the period of record (1997 to 2020). Concentrations of perchlorate have historically exceeded the DDW MCL in all four of the selected PWP Wells. Concentrations of perchlorate in the Garfield Well have ranged between non-detect to 27.7 µg/L. Perchlorate is reported to have exceeded the MCL in the late 1990s, and in 2004 to 2005; however, since 2005, concentrations have mostly been below the MCL. The data suggests a slight increasing trend over time, with concentrations in 2015 at or slightly above the MCL. The most recent data available for the Garfield Well (2017) indicated perchlorate was non-detect. The Villa Well has also had concentrations near or slightly above the MCL, with some concentrations reported as non-detect. The Sunset and Bangham Wells have exhibited overall higher concentrations of perchlorate over time as compared to the PWP wells nearest the planned well site, most likely because they are located closer to the documented perchlorate contamination plume associated with the JPL Superfund site.

2.2.5.1.2 TOTAL DISSOLVED SOLIDS

Total dissolved solids (TDS) in groundwater is a direct measurement of the concentration of dissolved solids in the water, such as minerals and salts, metals, and cations or anions (i.e., calcium, potassium, sodium, chlorides). TDS is regulated by a secondary MCL, where elevated concentrations can affect the taste of water and can lead to the formation of residues and corrosion of water fixtures. DDW has established a recommended secondary MCL of 500 milligrams per liter (mg/L), an upper threshold of 1,000 mg/L, and a short-term MCL of 1,500 mg/L.

As shown in **Figure 6b**, concentrations of TDS for the selected PWP wells have ranged from 234 to 610 mg/L over from 1988 to 2020. Reported concentrations of TDS in the Sunset Well have increased over time, periodically exceeding the secondary recommended MCL since 1996. From 2015 to 2020, TDS concentrations in the Sunset Well have remained above the secondary recommended MCL. The Bangham Well shows an overall increasing trend in TDS concentrations, however has remained below the secondary recommended MCL, with the exception of one reported concentration exceeding this limit in 2016. TDS concentrations reported in the Garfield and Villa Wells have largely remained below the secondary MCL over the period of record, with the Villa Well having one measurement exceeding the secondary recommended MCL in 1999 (510 mg/L). The Garfield Well exhibits the lowest TDS concentrations of the selected PWP Wells, with the most recent TDS measurement of 300 mg/L in 2017.

2.2.5.1.3 NITRATE (AS N)

Nitrate is an inorganic compound and an anthropogenic contaminant which normally does not occur naturally in the subsurface. Elevated concentrations of nitrate are found throughout the Raymond Basin, including in the Pasadena area, and are introduced into shallow aquifers through applied fertilizer, leaky sewer systems, septic systems, and animal impoundments. Wells that connect multiple aquifers can become conduits that allow shallow groundwater with elevated nitrate to migrate into deeper aquifers. DDW has established a primary MCL of 10 mg/L for nitrate (as N).

As shown in **Figure 6C**, nitrate (as N) has been detected in all four selected PWP wells. Concentrations reported in the Sunset Well average 9.9 mg/L, and range from non-detect to 13.5 mg/L. The Sunset Well has multiple reported exceedances of the MCL over the period of record (1989 to 2020). Concentrations reported in the Villa Well average 7.6 mg/L, and range from 3 and 10.4 mg/L. The Villa Well has exceeded the MCL on two occasions, both in May of 1999 (10.4 mg/L). The most recent reported concentration for the Villa Well is 5.2 mg/L in 2010. Reported concentrations of Nitrate (as N) in the Bangham Well range between non-detect and 9.4 mg/L, with an average of 7.4 mg/L. The Bangham Well has no reported exceedances of the DDW MCL. Concentrations of nitrate (as N) in groundwater produced from the Garfield Well range from non-detect to 9.6 mg/L, with an average concentration of 6.7 mg/L. In May 2015, concentrations of nitrate (as N) were reported to be 8.5 mg/L; however, in June 2015, concentrations were reported as non-detect and in August 2017, concentrations were reported to be 1.5 mg/L. The Garfield Well has no reported exceedances of the DDW MCL.

Variations in concentrations of nitrate (as N) among the select wells appear to be a result of geographic location, well construction (well screen depth), and possibly groundwater elevations. Concentrations of nitrate (as N) are highest in the Sunset Well, as compared to the other wells. The Sunset Well has well screen reported to start at a depth of 245 feet bgs, as compared to 540 feet bgs of the nearby Bangham Well. Since 2004, concentrations of nitrate track very similar between the Sunset Well and Bangham Well; however, concentrations in the Bingham Well are lower than the Sunset Well and have remained below the DDW MCL. Between 1998 and 2005, groundwater levels are reported to be anomalously higher in the Sunset Well, as compared to the period of record. During this same period, nitrate was elevated in the Sunset Well, but exhibits a reduction coincident to the decline in reported groundwater levels. This may indicate that the nitrate is mobilized in the underlying aquifers when groundwater elevations increase and saturate the previously unsaturated formations.

2.2.5.1.4 1,2,3-TRICHLOROPROPANE (1,2,3-TCP)

1,2,3-Trichloroproane (1,2,3-TCP) is a chlorinated hydrocarbon compound that is an anthropogenic contaminant often associated with industrial or hazardous waste sites, and it has been used as an industrial cleaning and degreasing agent and has been found as an impurity resulting from the production of soil fumigants (U.S. Environmental Protection Agency [EPA], 2014). DDW has established a primary MCL of 0.005 µg/L for 1,2,3-TCP, which is also currently the laboratory detection limit.

Detections of 1,2,3-TCP above the DDW MCL were identified in the Sunset and Bangham Wells, with reported concentrations ranging from non-detect to as high as 0.014 µg/L (2019) over the period of record for these wells (1989 to 2020), as shown in **Figure 6d.** 1,2,3-TCP has not been detected above

the laboratory detection limit in the Garfield and Villa Wells over their period of record (1989 to 2004).

2.2.5.1.5 TETRACHLOROETHYLENE (PCE)

Tetrachloroethylene (PCE) is a VOC chemical that is an anthropogenic contaminant often associated with dry cleaning, textile operations, and metal degreasing activities (State Water Resources Control Board [SWRCB], 2009). Detections of PCE can be found throughout the Raymond Basin, including in the Pasadena area, and are introduced into the subsurface from contaminating activities on the ground surface. DDW has established a primary MCL of 5.0 µg/L for PCE.

Detections of PCE above the DDW MCL were identified in the Sunset Well, with reported concentrations as high as 23 µg/L (1996), as shown in **Figure 6e.** PCE has been detected in the Bangham Well at concentrations below the MCL, and has overall been showing a decreasing trend since 2012. PCE has not been detected over the laboratory detection limit in the Garfield or Villa Wells.

2.2.5.1.6 TRICHLOROETHYLENE (TCE)

Trichloroethylene (TCE) is a VOC chemical that is an anthropogenic contaminant often associated with commercial or manufacturing facilities that make and supply refrigerant chemicals and degreasers, and it is commonly used as a solvent (U.S. EPA, 2016). Detections of TCE can be found throughout the Raymond Basin, including in the Pasadena area, and are introduced into the subsurface from contaminating activities on the ground surface. DDW has established a primary MCL of 5 µg/L for TCE.

Detections of TCE above the DDW MCL were identified in the Sunset Well, with reported concentrations ranging from non-detect to a high of 31.1 µg/L (1996) over the period of record for this well (1989 to 2020). As shown in **Figure 6f**, the Sunset Well has exceeded the DDW MCL on multiple occasions, exhibiting steep increases followed by sharp declines. TCE has been detected in the Bangham Well at concentrations below the MCL, and has overall been showing a decreasing trend since 2012. The Villa Well has been non-detect for most of the period of record; however, low detections (less than 1 µg/L) were reported in the Villa Well in 2009, with no available data afterward. TCE has not been detected in the Garfield Well over its period of record (1988 to 2017).

2.2.5.2 POINT SOURCE GROUNDWATER CONTAMINATION

Point-source groundwater contamination is a result of specific land use and activities where contaminants have been, or have the potential to be, released into the subsurface. In areas where there are few or no impermeable geologic layers (i.e., aquitards) separating the shallow aquifers from deeper aquifers, there is the potential for surface contaminants to readily migrate into aquifers utilized for water supply. Point-sources of contamination can also migrate between aquifers through wells completed across multiple aquifer systems. It is important, therefore, to identify and evaluate all known sites of environmental concern within the 2-, 5-, and 10-year capture zones of the planned well site, in accordance with the requirements of the State of California Drinking Water Source Assessment Program.

The State of California Water Resources Control (SWRCB) Board GeoTracker program maintains a database for sites that impact, or have the potential to impact, water quality in California. GeoTracker contains records for sites that require cleanup, such as Leaking Underground Storage Tank (LUST) sites, Department of Defense Sites, and Cleanup Program Sites. The database also contains records for various unregulated projects as well as permitted facilities, including: irrigated lands, oil and gas production, operating permitted underground storage tanks (UST), and land disposal sites. The location of known contaminant sites and activities within one mile of the planned well site were identified, as shown on **Figure 7** (SWRCB, 2020). The identified sites were reviewed and inventoried to consist of the following: one open cleanup program site, three closed leaking underground storage tanks, and four permitted underground storage tank sites. All of the identified sites identified are reported as not posing a threat to the groundwater quality. The active potential point sources and approximate distances to the planned well site is described below in **Table 2.**

Table 2: Active Potential Sources of Contamination

Case ID	Distance from Garfield Replacement Well Site [ft]	Direction from Garfield Replacement Well Site	Name	Use of Site	Site Type	Status
SLT43712710	1,500[1]	Northwest[1]	Huntington Memorial Hospital	Medical Facility	Cleanup Program	Open – Inactive (as of 1/29/2015)

[1] The location of the site may be inaccurately displayed on GeoTracker website. Physical address of facility does not match location provided on the map.

The active point source identified as Case ID SLT43712710 in Table 2 is a medical facility (Huntington Memorial Hospital). A letter by the SWRCB, dated November 16, 2001, indicated that the soil and groundwater beneath the site have been impacted with VOCs. Concentrations of PCE were detected in groundwater at 6.06 µg/L, and TCE was detected at 7.83 µg/L. The extents of the release of these chemicals were not provided; however, the site is classified as Category 1, which is used to characterize sites with soil or groundwater contamination that do not pose an immediate threat to human health, and which do not extend offsite onto neighboring properties (SWRCB GeoTracker, 2020). No cleanup activities have been reported, and the site has been classified as "Open – Inactive" since January 19, 2015. An "Open-Inactive" classification is defined as no regulatory oversight activities are being conducted by the Lead Agency (Los Angeles RWQCB).

Of note, the GeoTracker database inaccurately locates the geographic location as being at the intersection of Orange Grove Boulevard and Carter Alley. However, the physical address provided on the SWRCB's regulatory profile, 707 S. Raymond Avenue in Pasadena, is approximately 1.5 miles south of the planned well site. Review of historical aerial imagery indicates that the coordinates provided in the GeoTracker database was a former residence and a small shopping complex that was razed in 2016, and a new multi-story business complex was constructed at that location. Given the Open-Inactive status and the actual location of the Huntington Memorial Hospital, the identified VOC contamination at the actual location likely does not pose a threat to groundwater quality at the planned well site.

3.0 ANTICIPATED CONDITIONS

3.1 DRILLING CONDITIONS

It is anticipated that drilling in this portion of the Pasadena Subarea of the Raymond Basin will be non-problematic with a proper drilling fluids control program. Based on data from nearby well drilling, subsurface materials are expected to consist of sand, gravel, silt, and clay in varying proportions. Depth-to-groundwater levels in wells located in the vicinity of the planned well site are between approximately 220 to 230 feet bgs.

3.2 PRODUCTION CAPACITY AND WATER LEVELS

Available instantaneous production rates for five PWP wells constructed in the vicinity of the planned well site range from 1,000 to 2,500 gpm (see Section 2.2.3) between 2006 and 2009, with an averaged capacity of 1,577 gpm. Original or historical capacity data for these PWP wells are not available. In 2009, the specific capacity of the Garfield Well was reported to be 20 gpm/foot of drawdown; however, wells constructed using reverse rotary drilling techniques are inherently less efficient (i.e. gravel envelope) than wells constructed with the cable tool drilling method.

At the time of construction in the mid-1920s, static groundwater elevations in the Villa and Sunset Wells were slightly higher (approximately 10 feet higher) as compared to current levels, as shown in Figure 5. Groundwater elevations in the Garfield Well have been trending upwards since 1990, with the most recent reported elevation of 677 feet msl, or a depth of 220 feet bgs (October, 2018).

It is therefore anticipated that a well that is constructed at the planned location will have a static water level of approximately 230 feet bgs and may be capable of producing 1,500 gpm. Assuming a conservative specific capacity of 15 gpm/foot of drawdown, the pumping water level would be at a depth of approximately 330 feet bgs (100 feet of drawdown).

3.3 GROUNDWATER QUALITY

Water quality data reviewed from surrounding municipal water supply wells suggest that perchlorate, nitrate (as N), total dissolved solids (TDS), and trichloroethylene (TCE) are the primary constituents of concern detected in groundwater produced from the nearby Garfield and Villa Wells; however, concentrations of these constituents have historically been near or below their respective DDW MCLs, with few instances of MCL exceedances. The minimum and maximum concentrations of the constituents of concern over the period of record, as well as the most recent concentrations available for these nearby PWP wells, are provided in **Table 3** below. These contaminants are likely from overlying land uses which have impacted the shallow aquifers. Due to the known contaminants in the shallow aquifer, the well will require a relatively deep sanitary and annular seal to avoid the shallower aquifers. In addition, PWP will be replacing the Sunset Reservoir with new storage tanks and including treatment systems (Sunset Complex) for removing perchlorate, VOC, and planning for future treatment of nitrate removal. The Garfield Replacement Well will be designed to pump to the future Sunset Complex. Water quality data from select aquifers encountered in the borehole will be achieved during sampling of the pilot borehole.

Table 3: Groundwater Quality of Nearby PWP Wells

PWP Well	Perchlorate [µg /L]			Nitrate (as N) [mg/L]			Total Dissolved Solids [mg/L]			Trichloroethylene (TCE) [µg /L]		
	Min.	Max.	Most Recent	Min.	Max.	Most Recent	Min.	Max.	Most Recent	Min.	Max.	Most Recent
Garfield	ND	**27.7**	ND (8/2017)	ND	9.6	1.5 (2017)	240	**592**	300 (8/2017)	ND	ND	ND (8/2017)
Villa	ND	**9.75**	ND (1/2010)	3.0	**10.4**	5.2 (2/2010)	234	**508**	296 (9/2009)	ND	0.61	0.56 (1/2010)
MCL[1]	6			10			500[2]			5		

*__Red bold__ values are equal to or in excess of primary or secondary (aesthetic) drinking water standards.

[1] Maximum Contaminant Level.

[2] Secondary (aesthetic) drinking water standard.

4.0 PRELIMINARY WELL DESIGN

4.1 RECOMMENDED WELL DRILLING METHOD

To better understand the depth-specific water quality of the underlying aquifers, it is recommended that a pilot borehole be drilled first to obtain lithology and borehole geophysics, followed by temporary zone sampling of four discrete aquifer zones to confirm water quality. The pilot borehole for the well should be a minimum 17.5-inch diameter and drilled using the reverse circulation rotary drilling method. It is anticipated that the pilot borehole will extend to a depth of approximately 950 feet bgs, which is estimated to be the top of the underlying granitic bedrock. Data gathered during the drilling and evaluation of the pilot borehole will be used to confirm the sampling depths for the temporary zone sampling. Collection of water quality samples will occur after each discrete temporary zone has been constructed and developed. Based on water quality data obtained from the temporary zone sampling, the design of the well will be finalized prior to construction. Upon confirmation of the well design, the pilot borehole will be reamed to diameters of 34 inches and 30 inches in order to accommodate the well casing, screen, and the ancillary tubing.

4.2 PROPOSED WELL DESIGN

There are sufficient data available for aquifer properties and groundwater quality for PWP wells in the Garfield area to prepare a design for the new well; however, isolated aquifer zone testing is recommended to verify the water quality of target aquifers, since perchlorate and nitrate (as N) contamination has been documented in the area.

Lithologic logs from the adjacent Garfield Well and nearby Villa Well were evaluated for comparative purposes, as conditions are expected to be similar to those encountered during the drilling of those wells. The anticipated design for the planned Garfield Replacement Well will target the Older Alluvium, with anticipated well screen intervals between 400 feet and 850 feet, as shown on **Figure 8**. The proposed well design illustrates a continuous well screen; however, the final design will be determined based on aquifer material and water quality data. Specific aquifer zones will be strategically selected for well screen, with blank sections of casing adjacent to the clay intervals.

4.2.1 MATERIALS

In order to extend the life expectancy of the well and improve the quality of its service life, it is recommended that, at a minimum, all well components that are saturated be constructed of ASTM A-778 Type 304L stainless steel materials. Under favorable conditions, a well constructed of these materials will have an expected service life of approximately 75 years or more.

4.2.2 CONDUCTOR CASING AND SANITARY SEAL

Prior to borehole drilling, a 36-inch outside diameter (OD) conductor casing will be installed within a 48-inch-diameter borehole to a minimum depth of 80 feet, and be sealed in place with sand-grout placed under pressure. The conductor casing will also serve to satisfy the Los Angeles County and DWR sanitary seal requirements (minimum 50-foot seal for municipal supply wells). The conductor casing and sanitary seal shall be completed within a competent clay layer to provide upper borehole stability during drilling of the production borehole. The driller's log for the existing Garfield Well indicates that a "sandy loam with clay" layer is present at a depth of approximately 80 feet.

4.2.3 WELL CASING AND SCREEN

It is recommended that the proposed well casing and screen be a minimum 18.625-inch outside diameter (OD) throughout its entire length. A wall thickness of 3/8-inch is recommended for the blank section of casing between 200 and 400 feet bgs to accommodate for the hydrostatic forces exerted on the casing during installation of the deep annular cement seal (see Section 4.2.4). The remaining sections of well casing and screen (i.e., +3 to 200 feet and 400 to 860 feet bgs) are proposed to have a wall thickness of 5/16-inch.

The selected well screen pattern is the "Ful-Flo" louvered. The slot size opening will be selected to provide acceptable inlet velocities and sand control based on data obtained from the pilot borehole. The top of well screen is designed to start at a depth of 400 feet bgs to accommodate for an anticipated pumping water level of approximately 330 feet.

4.2.4 GRAVEL ENVELOPE AND SLOT SIZE

It is necessary to design the gravel envelope with the intent to stabilize the geologic formations, while allowing for an efficient well with minimum drawdown. Based on data from drilling and construction of water supply wells within the Raymond Basin, a CEMEX Lapis Lustre 6 x 12 custom blend gravel envelope with a complimentary 0.075-inch "Ful-Flo" louvered slot has been tentatively selected. The final design of the gravel envelope gradation and well screen aperture size will be confirmed with a mechanical grading analysis of formation samples collected during drilling of the pilot borehole.

4.2.5 ANNULAR CEMENT SEAL

To provide additional protection against migration of surface contaminants and downward migration of different water qualities from shallower aquifers, it is recommended that a deep annular cement seal be installed from ground surface to a depth of approximately 370 feet bgs. The final depth of the annular cement seal will be confirmed based on the results of pilot borehole drilling and geophysical borehole logging, and will target a competent clay to be terminated against.

All of the specified well casing components have been evaluated for collapse pressures. **Table 4** below illustrates the maximum seal depth for each well casing type, assuming as additional safety factors that each casing is one percent out-of-round and empty during seal placement (well casings are typically less out-of-round than this percentage and are also filled with fluid during seal placement). A thicker-walled (0.375-inch) section of stainless steel has been included from 200 feet to 400 feet depth to provide additional strength; however, the designed seal depth of 370 feet exceeds the collapse pressures for the blank well casing with 0.375-inch wall thickness. Therefore, the annular seal will be placed in two separate lifts, with sufficient time in between to allow the cement to set, to avoid exceeding the casing collapse pressure associated with the relatively deep cement annular seal.

Table 4: Collapse Pressures for Tubular Materials

Casing Description	Outside Diameter (inches)	Wall Thickness (inches)	Casing Material	Designed Seal Depth (feet)	Collapse Depth with Eccentricity and Empty Casing (feet)
Conductor	36.000	0.500	Steel	80	135.1
Blank	18.625	0.313	Stainless Steel	370	206.7
Blank	18.625	0.375	Stainless Steel	370	322.2
Sounding Pipe	3.500	0.216	Stainless Steel	370	2,758
Gravel Fill Pipe	3.500	0.216	Steel	370	3,189

4.2.6 Accessory Tubing

Installation of an annular cement seal will necessitate the addition of a 3-inch Schedule (Sch.) 40 mild steel gravel fill pipe to a depth of 390 feet bgs. It will allow replenishment of the gravel envelope should it settle during well development and/or routine operation of the well. A 3-inch Sch. 40 ASTM A778 Type 304L stainless steel sounding pipe will be installed, entering the casing at a depth of 398 feet bgs through a 3-inch x 3-inch x 6-foot-long transition box. This will allow access for an electric wireline water level meter or pressure transducer so that accurate water level measurements can be collected once the well is permanently equipped, as well as to provide access for a video survey camera or other survey tooling without requiring the removal of the pump assembly.

5.0 WELL CONSTRUCTION LOGISTICS

5.1 Noise Mitigation

Through Section 9.36.070 of the City's Municipal Code, construction activities are limited within a residential district or 500 feet therefrom to the hours of 7:00 a.m. to 7:00 p.m., Monday through Friday, and from 8:00 a.m. to 5:00 p.m. on Saturday. Construction and repair work is prohibited on Sunday and holidays. Section 9.36.080 of the City's Municipal Code prohibits noise from operation of any powered construction equipment from exceeding 85 dBA at a distance of 100 feet.

Full containment of the well site with temporary noise-mitigating structures will be necessary in order to protect nearby sensitive receptors (i.e., residential structures). The noise-mitigating structures should be a minimum of 24 feet in height and will require noise modeling as well as geotechnical and structural calculations from a Registered Structural Engineer in order to verify compliance with appropriate California building codes for temporary structures. It is anticipated that this will also require a building permit from the City of Pasadena. Periodic weekend work is anticipated during drilling and construction and will require a variance from the City's noise standards. An estimated total of 25 days with 24-hour continuous well drilling and construction operations are anticipated to complete the pilot borehole drilling, temporary zone sampling, production borehole reaming, and well construction portions of this project.

5.2 DISCHARGE CONSIDERATIONS

Water generated during the development and testing of the new well will be conveyed to the discharge point shown on **Figure 9** by means of temporary above-ground piping. The designated discharge point consists of a storm drain manhole situated in a concrete sidewalk and located approximately 140 feet northwest of the planned well location. The discharge point connects to a LACFCD 42-inch diameter storm drain main line in Garfield Avenue.

As necessary, settlement tanks will be utilized to contain highly turbid water discharged during development of the completed well to settle solids. The typical capacity of these holding tanks is approximately 21,000 gallons. Once suspended solids have been allowed to settle, the water will be conveyed to the discharge point identified above. The settled solids collected in the tanks will be hauled off by the drilling contractor as necessary during the discharging phases of the project. The average turbidity of discharged water shall not exceed 100 Nephelometric Turbidity Units (NTU).

Water that has been chlorinated must undergo de-chlorination prior to discharge so that the total chlorine residual is less than 0.019 mg/L, which is the maximum chlorine residual allowed for previous LACFCD discharge permits. A field-measured total residual chlorine concentration greater than 0.1 mg/L shall be deemed out of compliance. The contractor will be allowed to use acceptable products for de-chlorination, such as sodium thiosulfate, upon pre-approval of the Engineer.

During discharge of water, water quality will be field-measured by the contractor at the beginning and end of discharge events. Field-measured water quality will include monitoring chlorine, turbidity, pH, and any other requirements deemed necessary by LACFCD. The discharge events, associated duration, volumes of water anticipated to be discharged, and associated dates are summarized in **Table 5** below. Actual discharge volumes will be recorded by the contractor with a totalizing flowmeter. These values are subject to change based on actual conditions encountered; however, they are a useful metric for the magnitude of discharge to be expected. Prior to discharging, the responsible discharger will provide the required notifications to PWP and LACFCD.

Table 5: Anticipated Discharge Volumes and Durations

Discharge Event	Discharge Duration [hours]	Estimated Average Discharge Rate [gpm]	Estimated Discharge Volume [gallons]
INITIAL DEVELOPMENT BY SWABBING AND AIRLIFTING			
Day 1	24	250	360,000
Day 2	24	250	360,000
Day 3	24	250	360,000
Day 4	24	250	360,000
Day 5	24	250	360,000
		SUBTOTAL:	1,800,000
FINAL DEVELOPMENT BY TEST PUMPING AND SURGING			
Day 6	10	2,500	1,500,000
Day 7	10	2,500	1,500,000
Day 8	10	2,500	1,500,000
Day 9	10	2,500	1,500,000
Day 10	10	2,500	1,500,000
		SUBTOTAL:	7,500,000
WELL & AQUIFER TESTING			
Day 11	8	2,000	960,000
Day 12	12	1,500	1,080,000
		SUBTOTAL:	2,040,000
		TOTAL:	**11,340,000**

5.3 CUTTINGS AND DRILLING FLUIDS DISPOSAL

All drill cuttings and drilling fluids generated during the drilling of the well will be contained, tested and disposed of off-site by the drilling contractor. Disposal of all materials will be required to be conducted in a legal manner per all applicable local, state, and federal regulations by the contractor.

5.4 CONSTRUCTION WORK AREA

The area available for construction (approximately 12,600 square feet) includes the land north of the basketball court, east of the existing restroom, and south of the soccer field. A portion of the existing Garfield Well Site can be used to stage equipment sufficiently to execute the work. Features which will need to be temporarily removed include the park benches and garbage can immediately north of the basketball court, the basketball court hoops, light poles along the east side of the work area, and the northwest portions of the existing Garfield Well site fencing. Features to be protected in place include two light poles located northwest and northeast of the work area, the pine tree northeast of the planned well, and the tree south of the main driveway into the Garfield Well site.

Truck traffic will be required to follow the City of Pasadena approved trucking routes from Parke Street and south on Garfield Avenue. Access to the site will be via the vehicle access driveway south of the basketball court. Immediately south of and adjacent to the driveway and vehicle entrance are ornamental shrubs, several light poles, a steel bollard for the locking vehicle gate, chain link fence, and water blow off stand. Due to the tight turning radius of the access point, portions of the grass

area (approximately 95 feet south of the driveway) will be made available for mobilization/demobilization of equipment. Several features at the entrance to the driveway will need to be temporarily removed to allow access into the site. The features that will need to be removed or protected in place will be specified in the project specifications. Site restoration, as appropriate, will also be included in the project specifications.

5.5 PERMITTING CONSIDERATIONS

5.5.1 GARFIELD REPLACEMENT WELL REQUIRED SETBACKS

The DDW requires that certain minimum distances be maintained between a potable water supply well and specific activities and infrastructure which may present a sanitary hazard. For the planned Garfield Replacement Well, these minimum setback requirements include the following:

- Well Site Control Zone: 50 feet
- Sanitary Sewer Line or Lateral: 50 feet
- Sewer Manhole: 100 feet
- Storm Drain Line or Lateral: 50 feet
- Storm Drain Manhole: 100 feet
- Active Well: case-by-case scenario
- Destroyed Well: case-by-case scenario
- Petroleum or Chemical Pipelines: 500 feet

The planned well site meets all required setbacks as shown on **Figure 10**, with the exception of a nearby storm drain manhole located approximately 64 feet northeast of the proposed well location. The storm drain manhole provides site drainage from the soccer field immediately north of the well site. The storm drain runs east-west, and discharges into the storm drain main on Garfield Avenue. A request will be submitted to DDW to waive the required minimum offset from this feature.

5.5.2 CONTROL ZONE REQUIREMENT

The location of the planned Garfield Replacement Well is in compliance with the California Code of Regulations (CCR) control zone requirement, which states that the area surrounding a new municipal water supply well must be under the control of the well owner to a radius of at least 50 feet (see Figure 10). PWP will take additional measures to protect the well and conform to the appropriate CCR standards (i.e., Chapter 16, Title 22). Appropriate measures will typically take the form of security enclosures (such as a well housing and fencing).

5.5.3 DISCHARGE PERMIT

PWP is enrolled under the Statewide General Permit for Drinking Water System Discharges to Waters of the United States. It is anticipated that a discharge permit will not be needed to discharge to the LACFCD storm drain system; however, in accordance with PWP's existing Notice of Applicability, PWP will notify LACDPW prior to discharging. The contractor will be responsible for meeting all requirements of these permits during discharges from the development and testing of the planned well, and implementing Best Management Practices (BMPs).

6.0 REFERENCES

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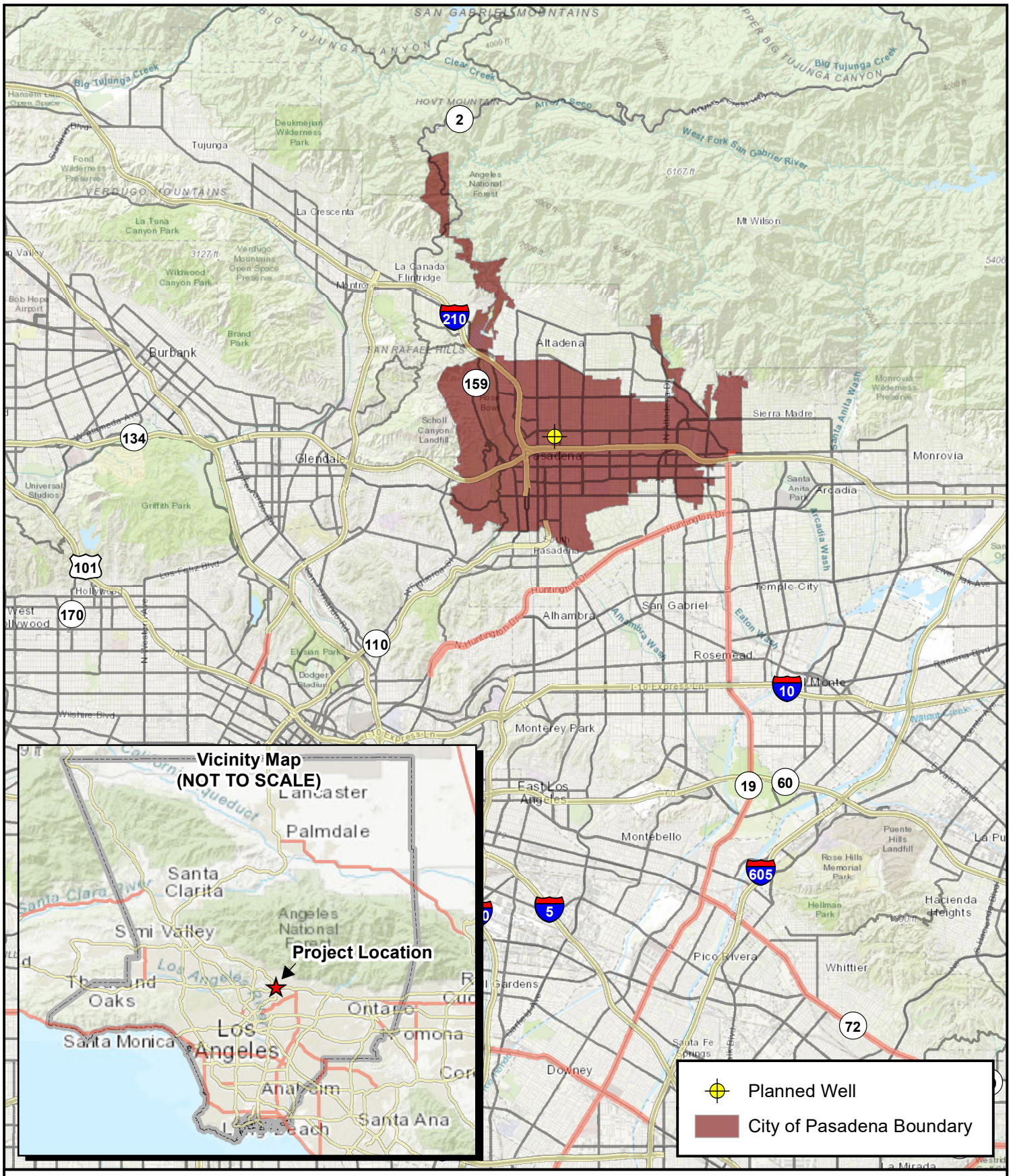


FIGURE 1
PROJECT LOCATION MAP
GARFIELD REPLACEMENT WELL PROJECT
WELL DESIGN REPORT
PASADENA, CA
AUGUST 2020

WOOD RODGERS

J:\Jobs\8796_Pasadena\8796004_Garfield_Well_Design\GIS\Tasks\Well_Design_Report\F1_Project_Location_Map_20200826.mxd 8/27/2020 4:03:20 PM nmitchell

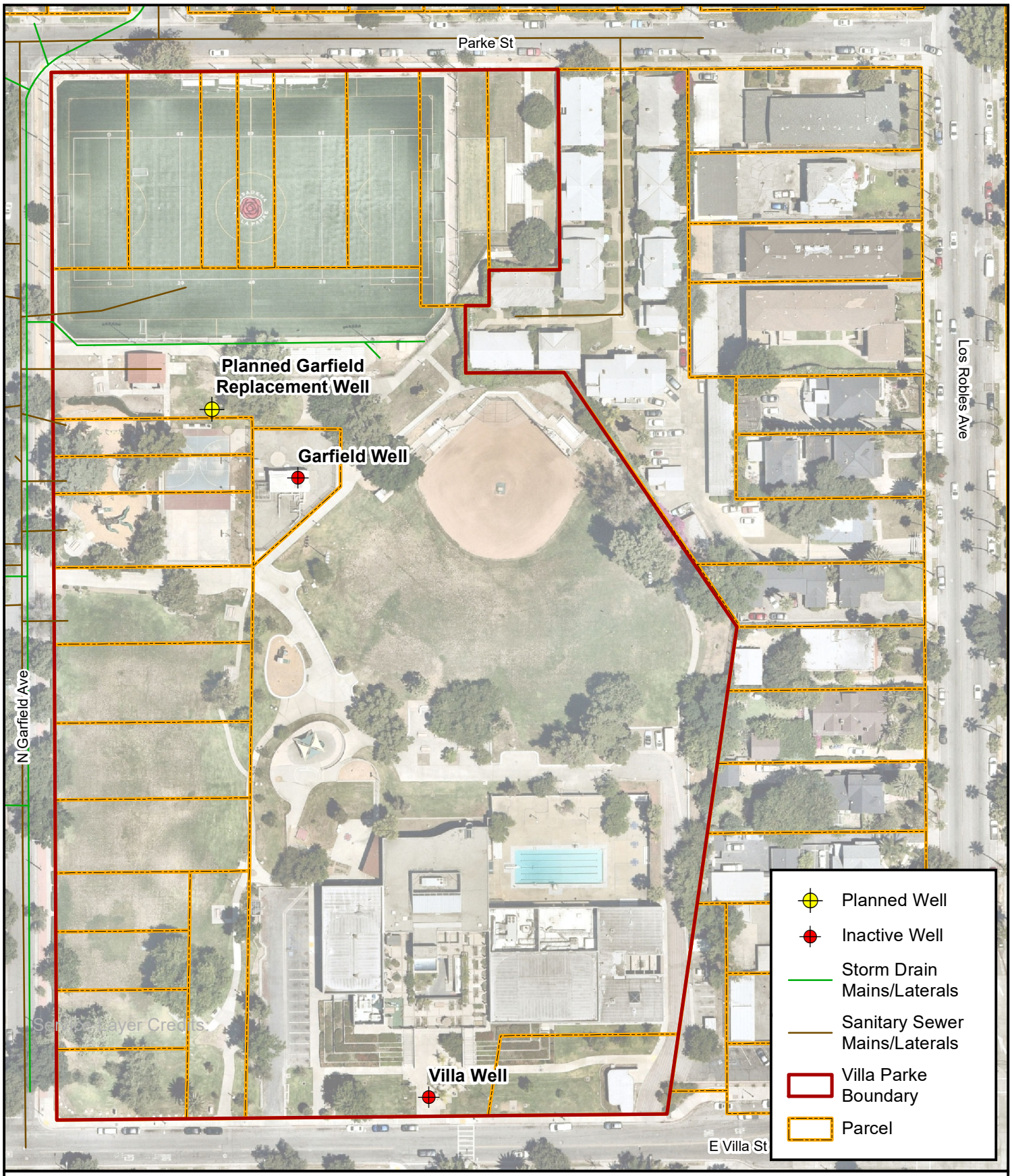


FIGURE 2
DETAILED LOCATION MAP
GARFIELD REPLACEMENT WELL PROJECT
WELL DESIGN REPORT
PASADENA, CA
AUGUST 2020

0 55 110
Feet

NORTH

WOOD RODGERS

J:\Jobs\8796_Pasadena\8796004_Garfield_Well_Design\GIS\Tasks\Well_Design_Report\F2_Detailed_Location_Map_20200828.mxd 8/28/2020 5:53:45 PM jtitular

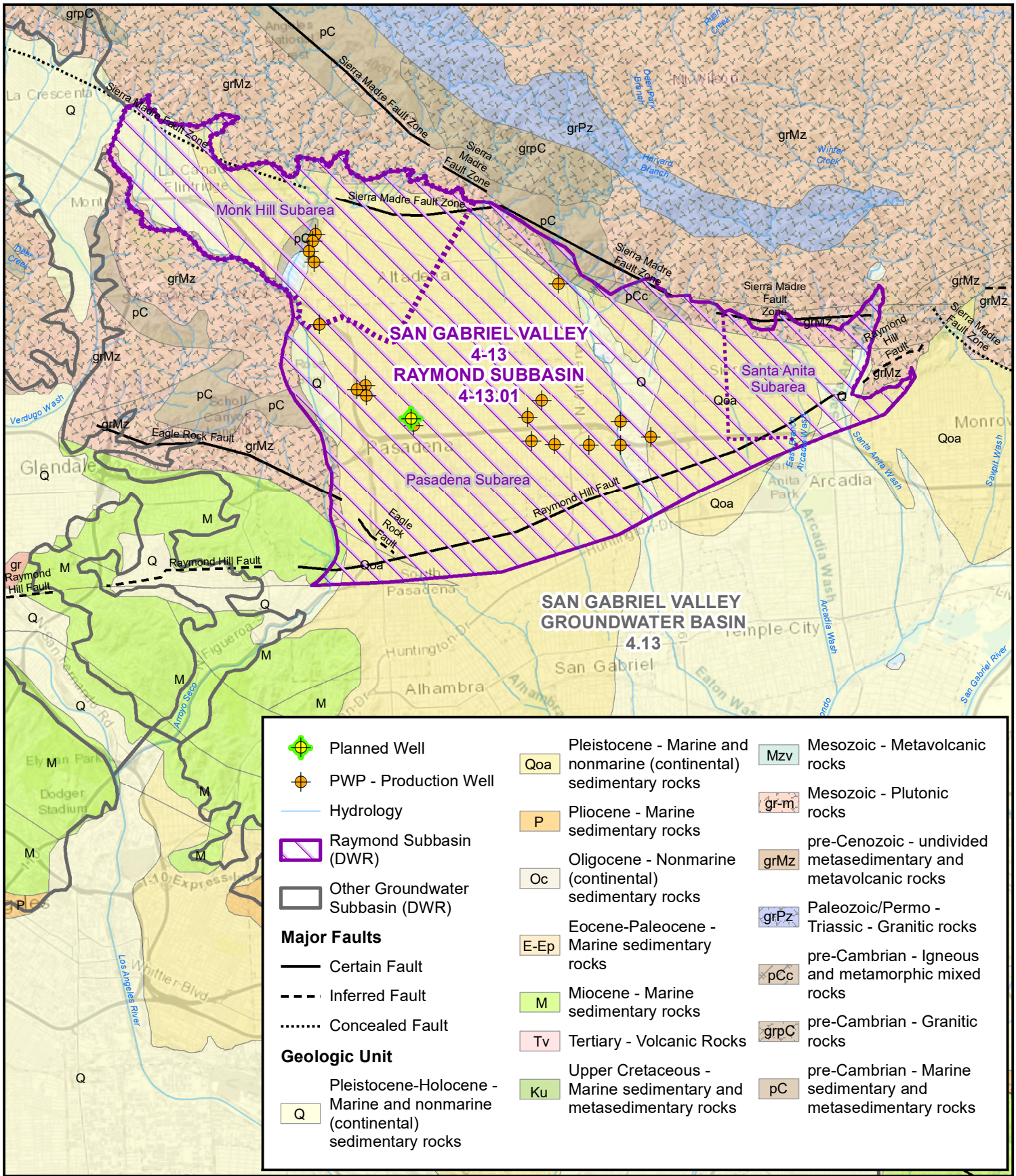


FIGURE 3
SIMPLIFIED GEOLOGIC MAP
GARFIELD REPLACEMENT WELL PROJECT
WELL DESIGN REPORT
PASADENA, CA
AUGUST 2020

0 1 2
Miles

NORTH

WOOD RODGERS

J:\Jobs\8796_Pasadena\8796004_Garfield_Well_Design\GIS\Tasks\Well_Design_Report\F3_Geologic_Map_20200827.mxd 8/28/2020 1:33:54 PM jtitular

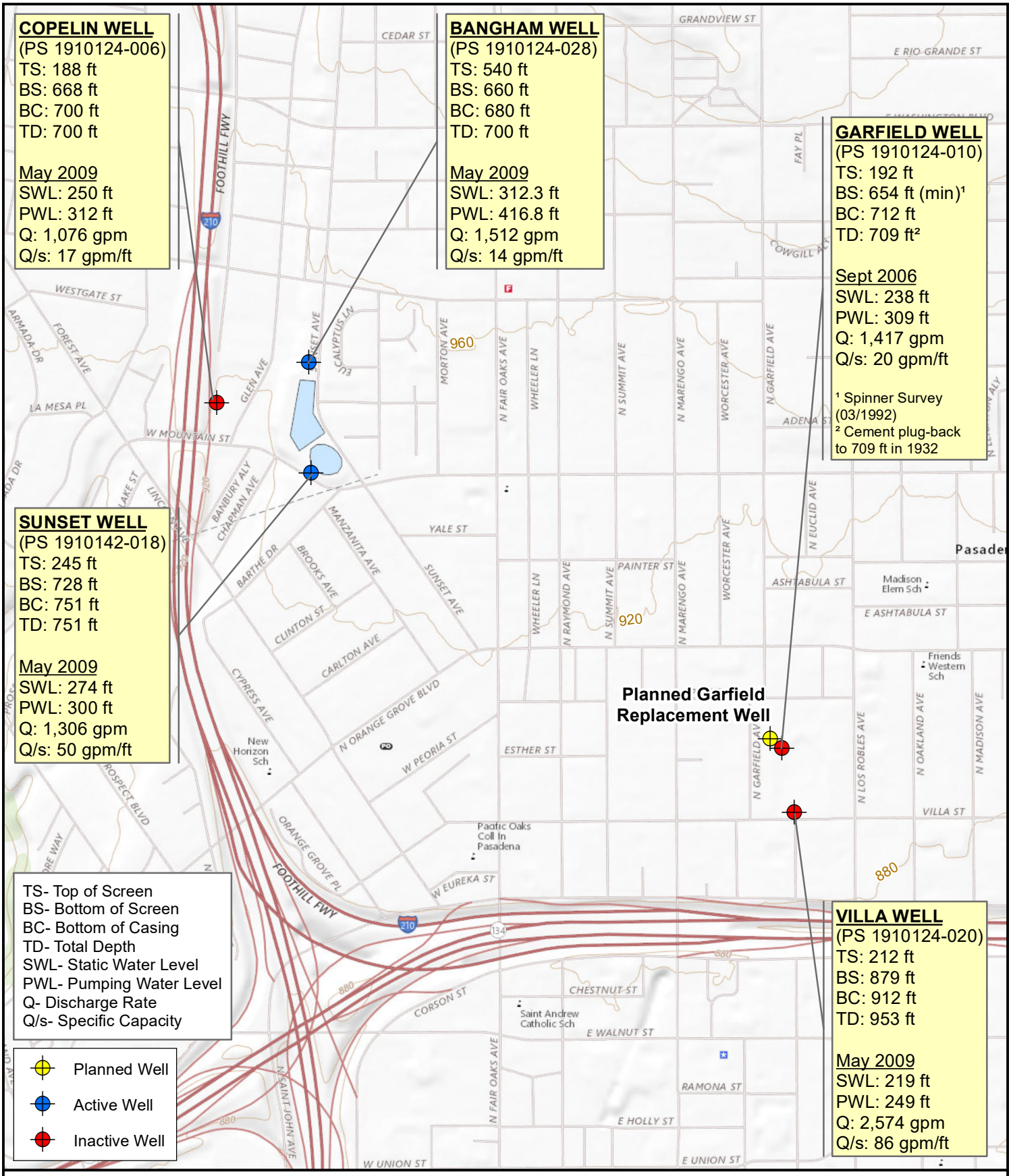
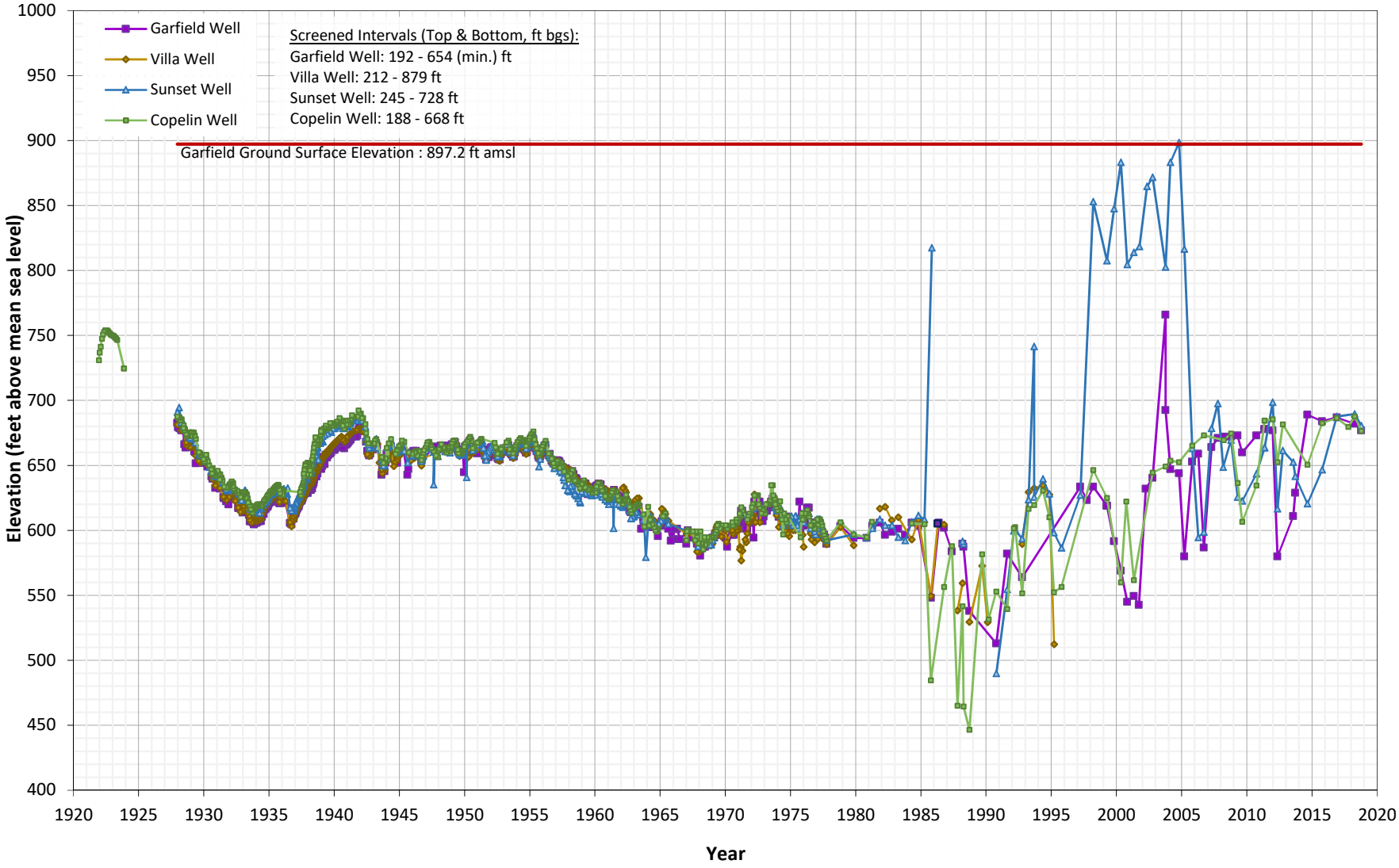


FIGURE 4
MAP OF LOCAL PWP WELLS
GARFIELD REPLACEMENT WELL PROJECT
WELL DESIGN REPORT
PASADENA CA
AUGUST 2020

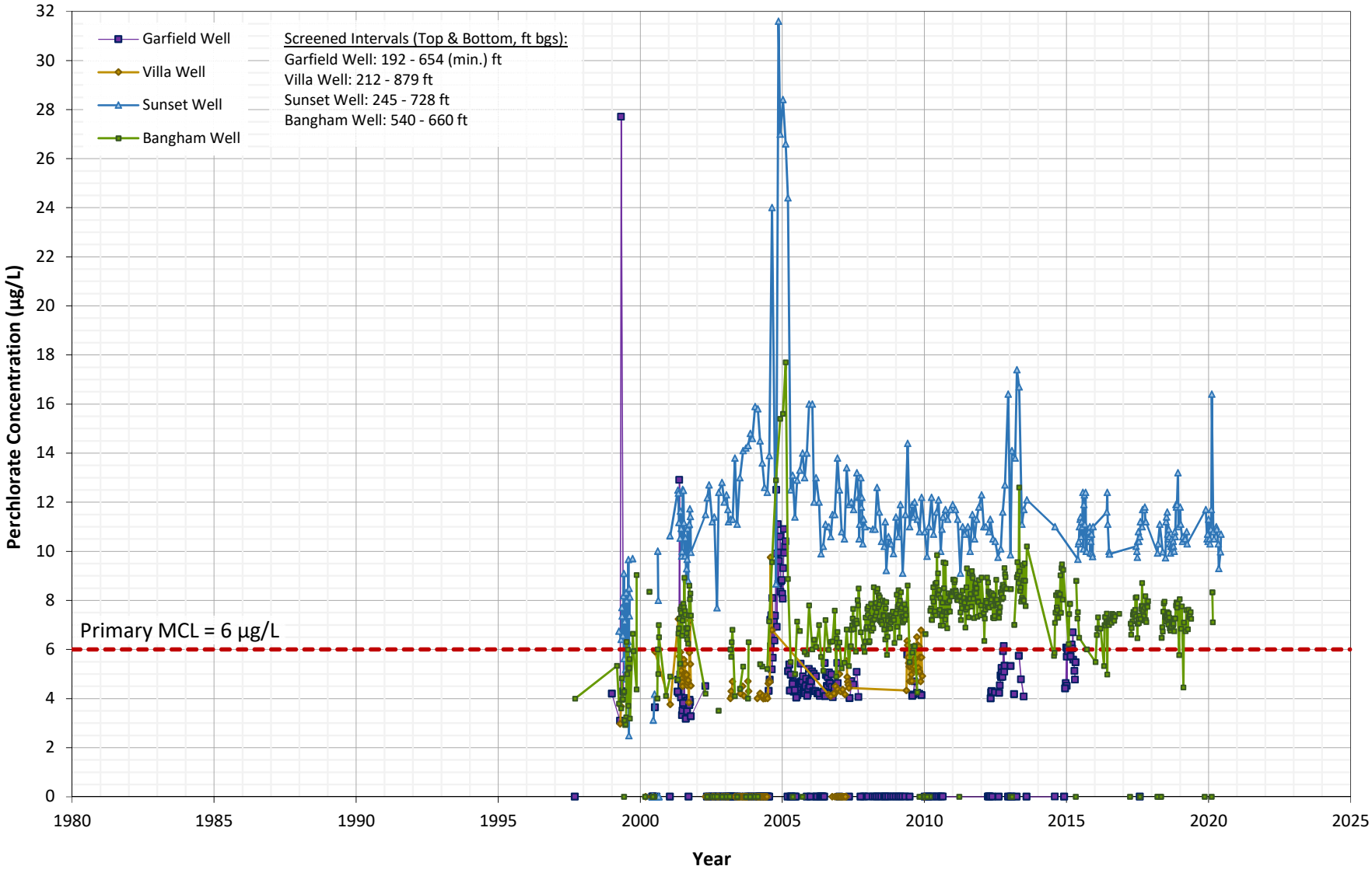
WOOD RODGERS

Figure 5: Historical Groundwater Elevations
PWP Wells near Garfield Well Site



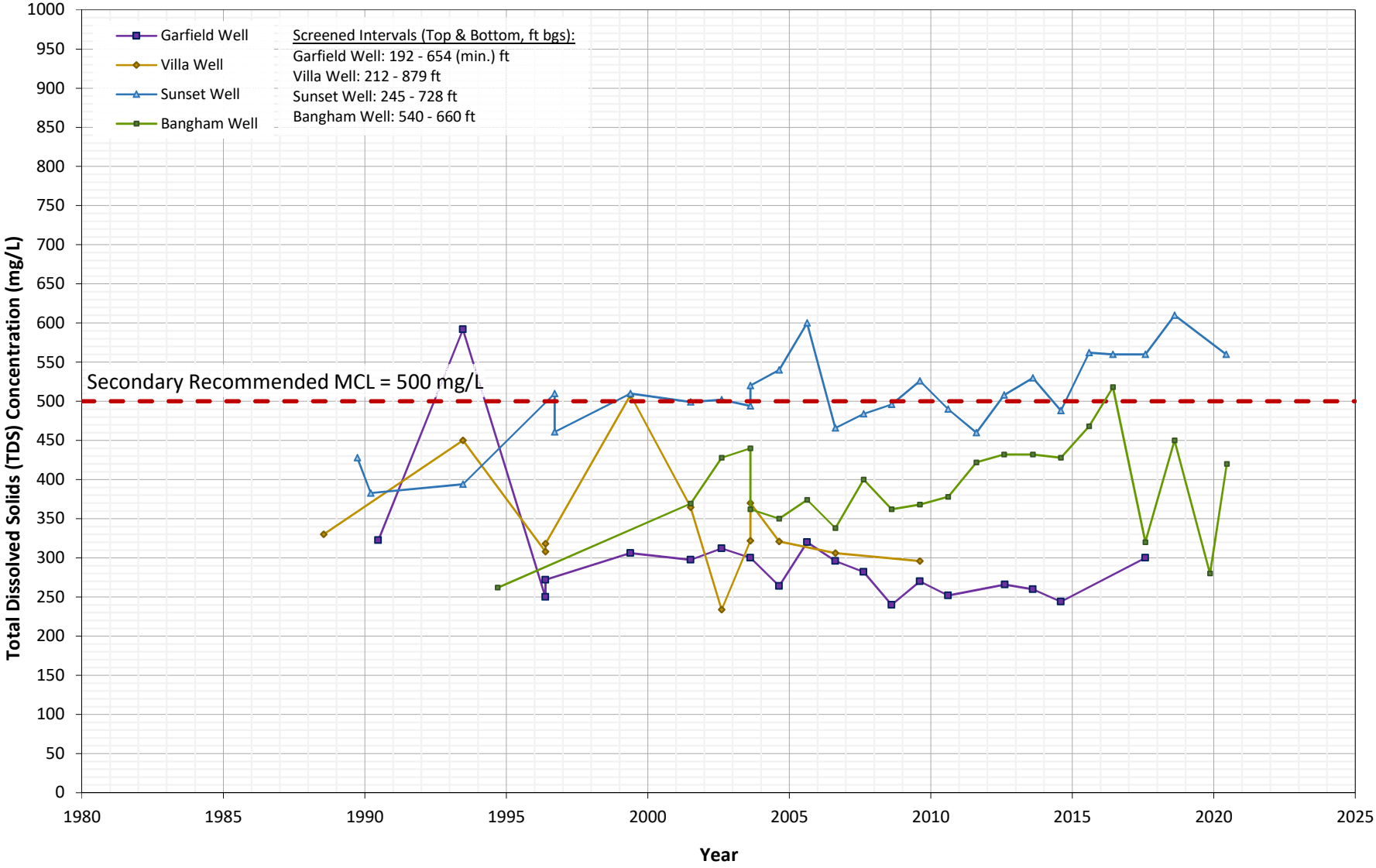
Groundwater elevations shown are reported to be measurements of "static" water level.

Figure 6a: Historical Perchlorate Concentrations



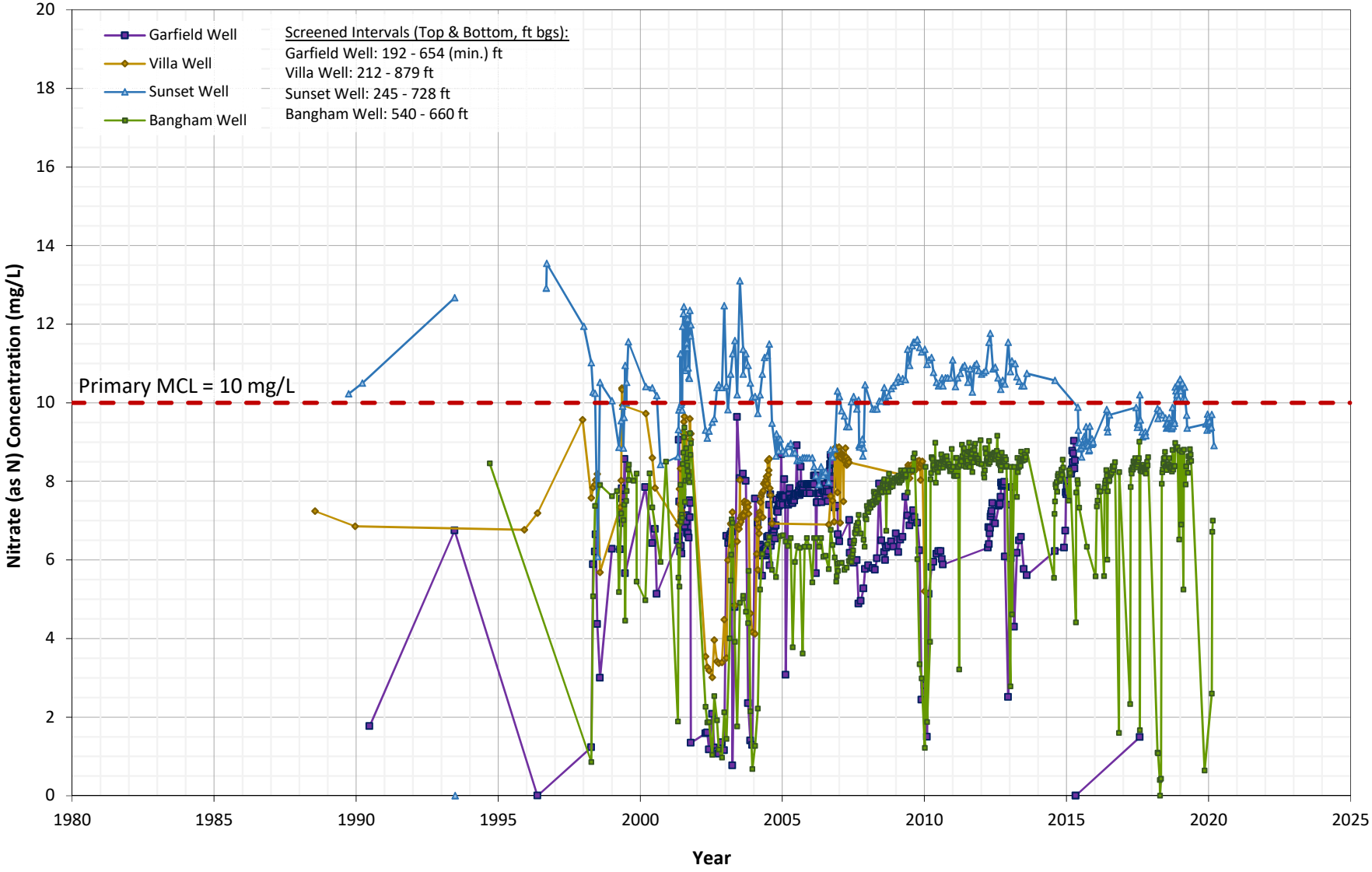
Concentrations less than the detection limit for the purpose of reporting are shown as "0" for charting purposes.

Figure 6b: Historical Total Dissolved Solids (TDS) Concentrations



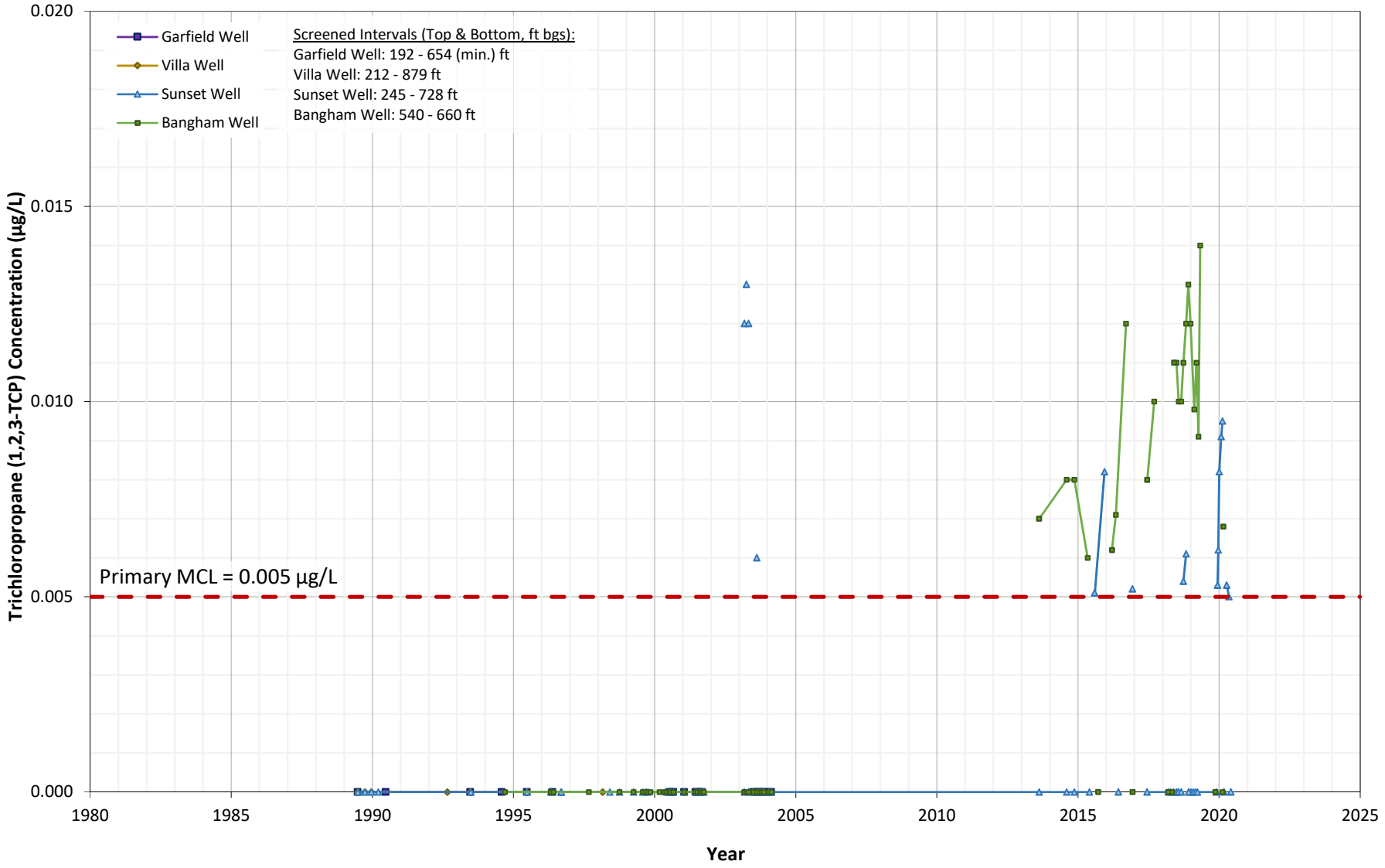
Concentrations less than the detection limit for the purpose of reporting are shown as "0" for charting purposes.

Figure 6c: Historical Nitrate (as N) Concentrations



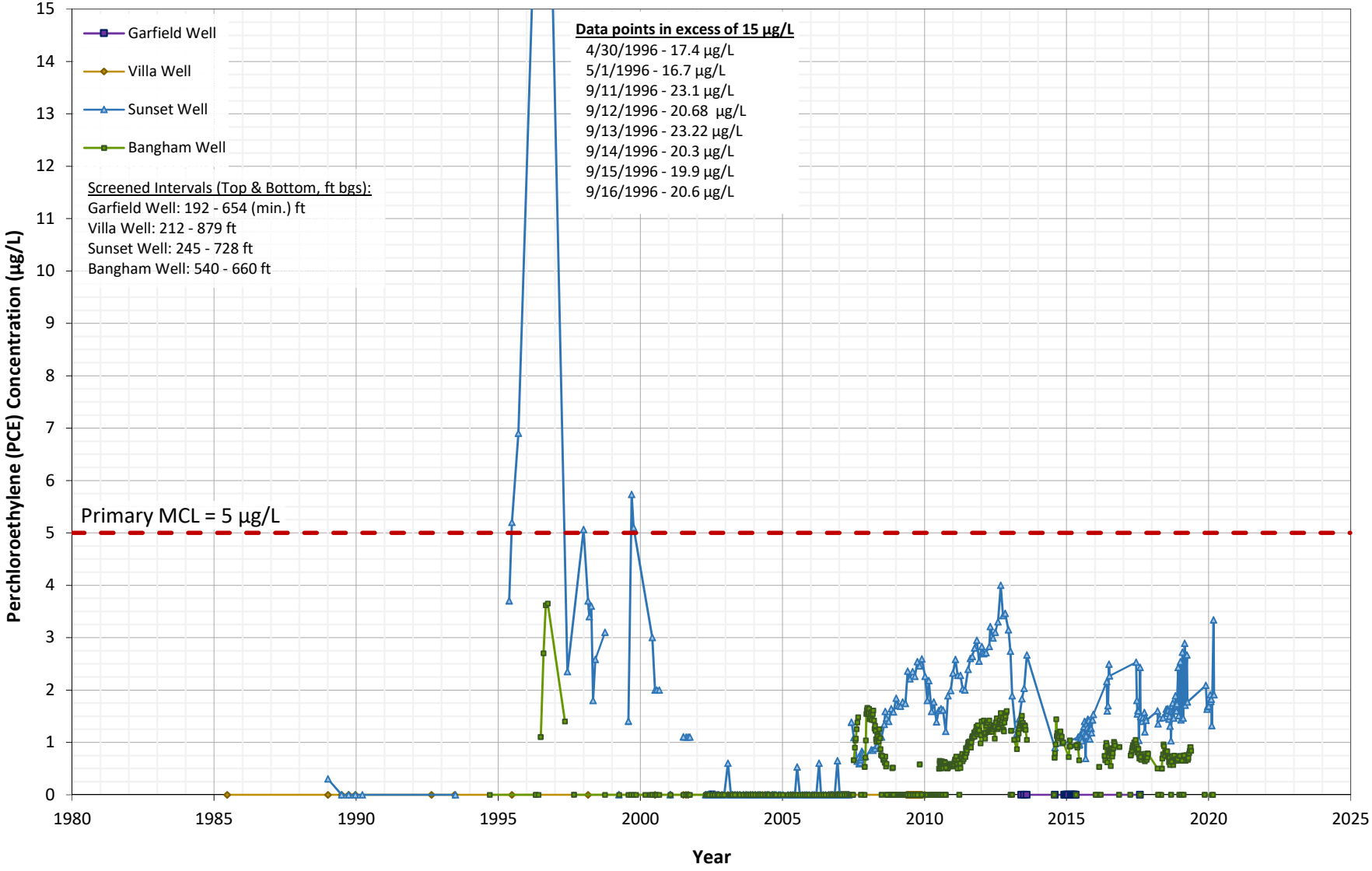
Concentrations less than the detection limit for the purpose of reporting are shown as "0" for charting purposes.

Figure 6d: Historical Trichloropropane (1,2,3-TCP) Concentrations



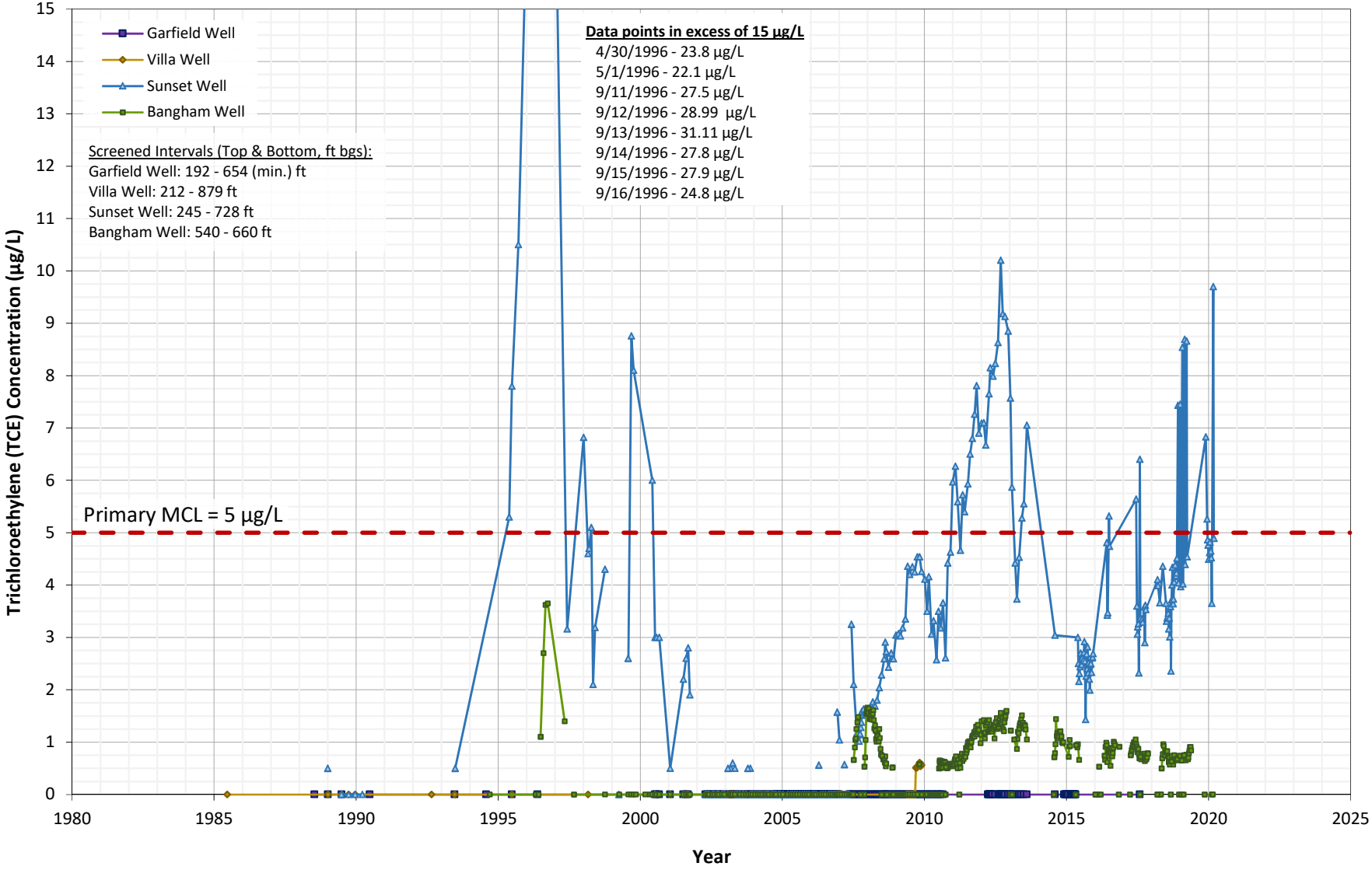
Concentrations less than the detection limit for the purpose of reporting are shown as "0" for charting purposes.

Figure 6e: Historical Tetrachloroethylene (PCE) Concentrations



Concentrations less than the detection limit for the purpose of reporting are shown as "0" for charting purposes.

Figure 6f: Historical Trichloroethylene (TCE) Concentrations



Concentrations less than the detection limit for the purpose of reporting are shown as "0" for charting purposes.

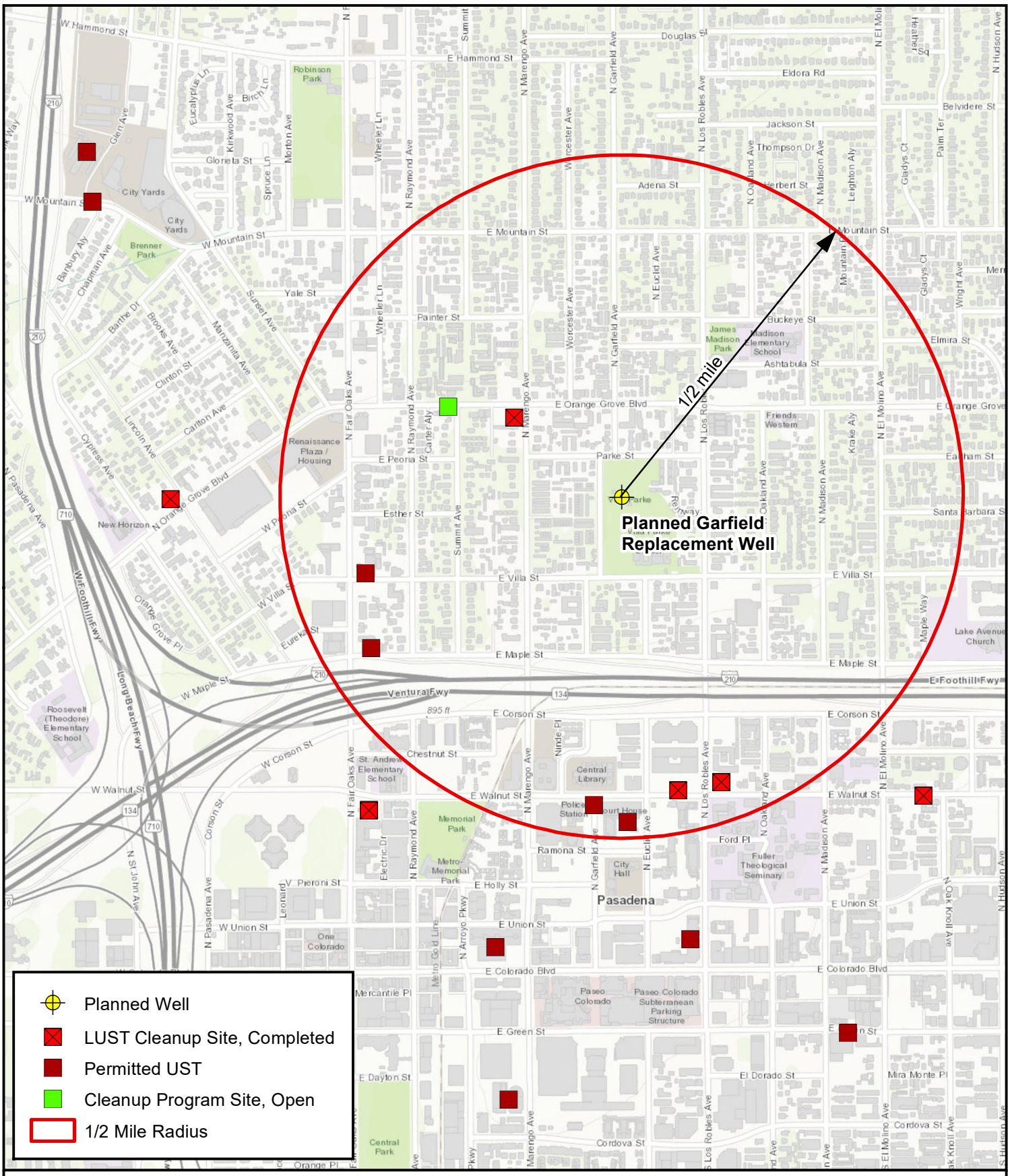


FIGURE 7
SITES OF ENVIRONMENTAL CONCERN
GARFIELD REPLACEMENT WELL PROJECT
WELL DESIGN REPORT
PASADENA, CALIFORNIA
AUGUST 2020

WOOD RODGERS

J:\Jobs\8796_Pasadena\8796004_Garfield_Well_Design\GIS\Tasks\Well_Design_Report\F7_Sites_of_Environmental_Concern_20200826.mxd 8/28/2020 10:10:20 AM jtitular

BOREHOLE DATA

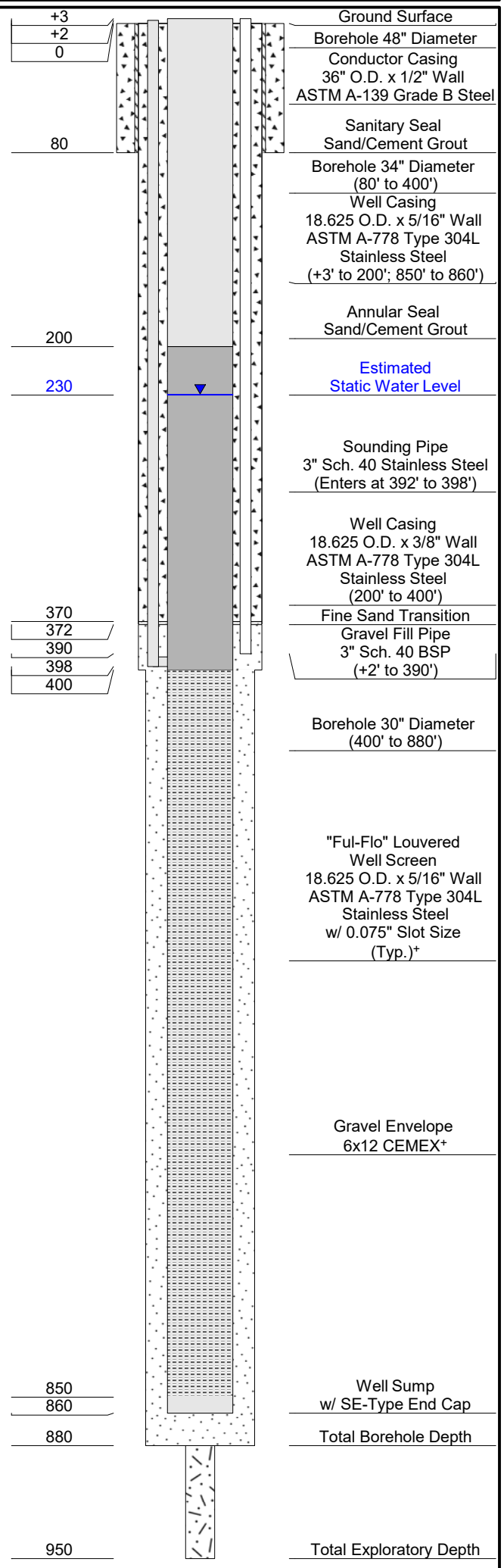
STATE WELL NO. 01N/12W-21K01S
EXISTING GARFIELD WELL

GARFIELD REPLACEMENT WELL DESIGN

Generalized Driller's Log	Estimated USCS Field Classification
Soil, Mostly Clay	SC
Sandy Loam	SM
Gravel	GP
Sandy Loam	SM
Gravel	GP
Sandy Loam with some Gravel	SP
Sandy Loam	SM
Sandy Loam with some Clay	SC
Sandy Loam	SM
Gravel with some good sized rocks	GP
Loose Gravel with some Large Rocks	SP
Sand and Clay Loam with a few Rocks	SC
Sandy Loam with more Clay Content	GP
Sandy Loam with large Clay Content	CL
Fine Gravel	SP
Loose Fine Gravel	SM
Coarse Gravel - Tight	SP
Coarse Gravel	SM
Clay and Sand Loam mixed with Rocks	SP
Loose Fine Gravel	GP
Sandy Loam	CL
Sandy Loam with a few Rocks	GP
Dry Coarse Sand	SM
Fine Sand	SP
Silt	SM
Fine Sand	SP
Fine Gravel with several layers of Silt	CL
Good Gravel	GP
Clay and Sand Loam	CL
Fine Gravel	CH
Sandy Loam	GP
Sand	CH
Sand - Fine and Loose	GP
Sandy Loam	SP
Sandy Loam - Caved Badly	GP
Sandy Loam	CL
Fine Sand	GP
Clay Loam spotted with Gravel	GC
Fine Gravel	GP
Clay - First Water	CH
Clay	GP
No Record	
Water Gravel	
Clay	
Gravel - Cemented	
Boulders	CH
Red Sand	
Boulders	
Clay - Sandy	
Water Gravel	
Boulders - Water	
Clay and Boulders	
Water Gravel	
Clay	
Water Gravel	GP
Clay	CH
Water Gravel	GP
Clay	
Water Gravel	
Clay	CH
Clay	
Hard Clay	SW
Sand, Gravel, Clay, and Decomposed Formation	
Clay, Sand, and Gravel Mixed	CH
Clay	
Sand and Gravel	
Sand, Gravel, and Little Clay Mixed	
Sand	SP
Sand, Gravel, and Little Clay	
Sand and Gravel	
Coarse Sand and Gravel	SW
Sand, Gravel, and Clay Mixed	SP
Decomposed Formation, Sand, Gravel, Clay, and Few Boulders	CH
Cemented Sand and Gravel	SP
Hard Clay	CH
Sand and Sandy Clay	SP
Hard Clay	CH
Sand, Gravel, and Little Clay Mixed	SC
Hard Clay	SW
Sandy Clay	CH
Sand, Gravel, and Clay	SW
Hard Clay	SP
Sand, Gravel, Clay, and Rock	SC
Sand, Gravel, Little Clay, and Boulders	Rk
Sand	
Blue Clay, Sand, Little Granite, and Some Rock	
Blue Granite	

0, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950

Villa Well Lithology
720 - 950 ft
STATE WELL NO. 01N/12W-21K02S



+Well screen aperature size and intervals, and the gravel envelope gradation will be finalized upon collection of data from the pilot borehole.

WELL INFORMATION
Construction Date: May 17, 1921
Modification Dates: 1932, 1935, & One Unknown Event
Drilling Method: Cable Tool

WATER QUALITY (8/8/2017)
Nitrate (as N): 1.49 mg/L
Perchlorate: N.D.
1,2,3-TCP: N.D. (3/3/2004)
Perchloroethylene (PCE): N.D.
Trichloroethylene (TCE): N.D.

WELL PRODUCTION
Date: September 2006
Static Water Level = 238 ft bgs
Pumping Water Level = 309 ft bgs
Q = 1,417 gpm
Q/s = 20 gpm/foot of drawdown

PROJECT NO. **8769.004**	WELL DESIGN PROFILE FOR **CITY OF PASADENA GARFIELD REPLACEMENT WELL** PASADENA, CALIFORNIA	WOOD RODGERS BUILDING RELATIONSHIPS ONE PROJECT AT A TIME	DATE: 9/25/20 11:03 SCALE: V: 1" = 90' DRAWN BY: J. TITULAR DESIGNED BY: S. SPAETH CHECKED BY: J. REISCHE
FIGURE **8**			J:\Jobs\8796_Pasadena\8796004_Garfield_Well_Design\Strater

NO.	DESCRIPTION	ENGR. INIT	BY	DATE
1	Well Design	JNT		09/25/2020
			APPROVED	

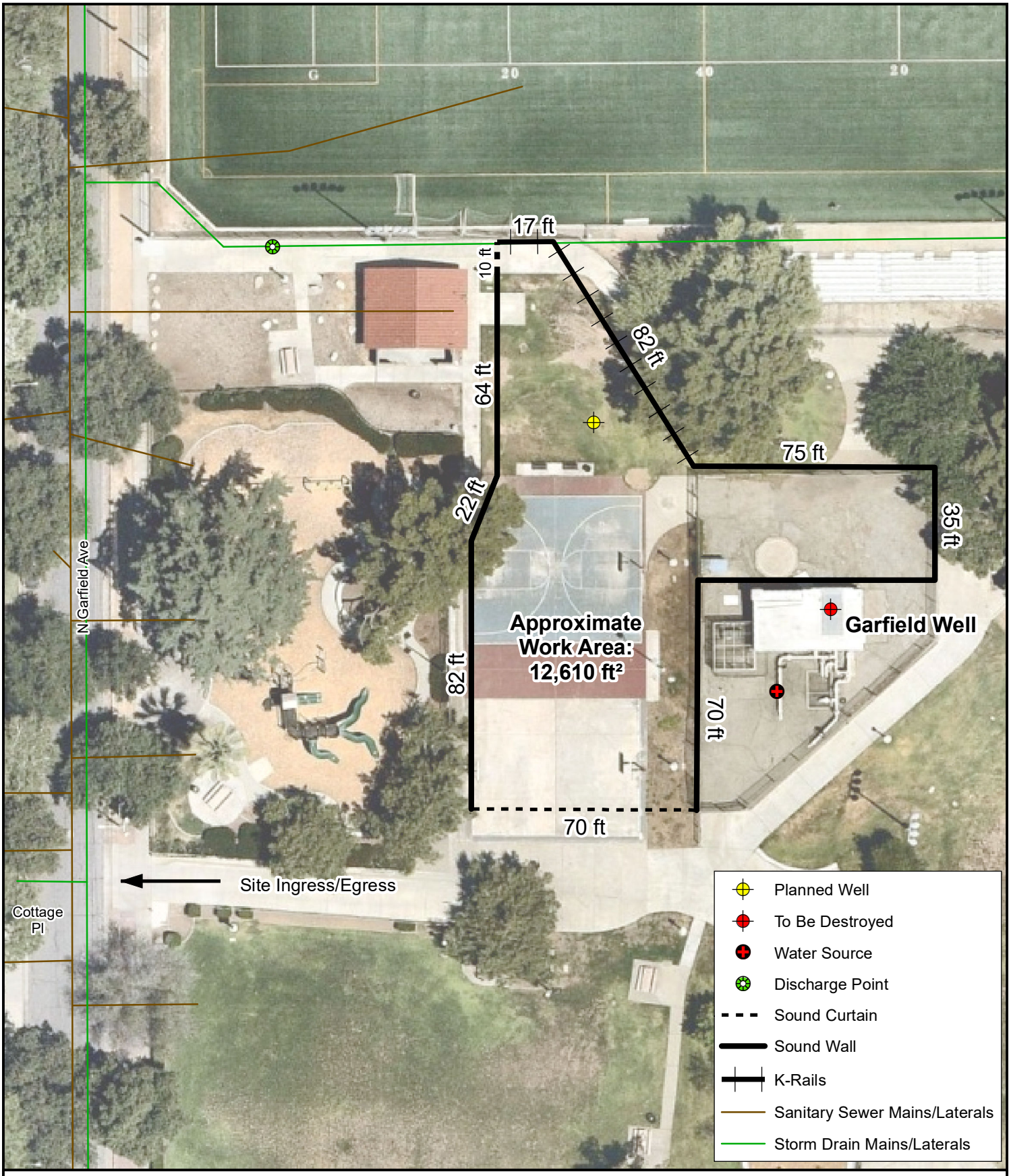


FIGURE 9
WATER SOURCE AND DISCHARGE LOCATION MAP
GARFIELD REPLACEMENT WELL PROJECT
WELL DESIGN REPORT
PASADENA CA
OCTOBER 2020

0 20 40
Feet

NORTH

WOOD RODGERS

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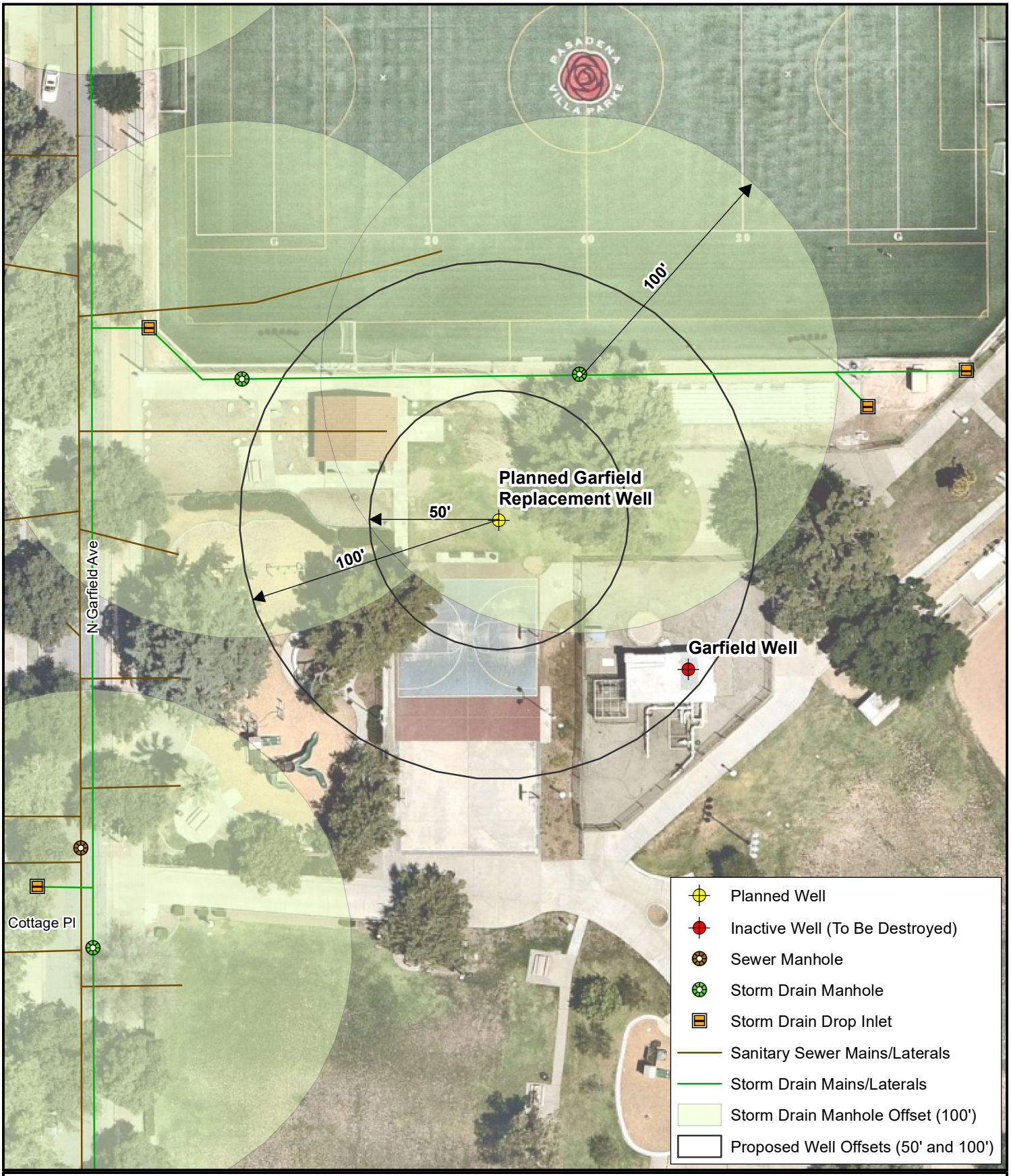

FIGURE 10
REGULATORY OFFSET MAP
GARFIELD REPLACEMENT WELL PROJECT
WELL DESIGN REPORT
PASADENA CA
OCTOBER 2020

0 25 50
Feet

NORTH

WOOD RODGERS

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APPENDIX B

AIR QUALITY AND GREENHOUSE GAS EMISSIONS MODELING DATA

Garfield Replacement Well Project IS-MND

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.29	12,610.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2022
Utility Company	Pasadena Water & Power				
CO2 Intensity (lb/MWhr)	1664.14	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - .

Land Use - .

Construction Phase - Per PWP

Off-road Equipment - crane, backhoe

Off-road Equipment - crane, rough terrain forklift

Off-road Equipment - .

Off-road Equipment - 1 crane, 1 backhoe, 2 off-highway trucks, 1 rough terrain forklift (Gradall)

Off-road Equipment - 1 drill rig, 2 pumps, 1 backhoe

Off-road Equipment - 1 drill rig, 1 air compressor, 1 off highway truck (vacuum truck), 2 pumps

Off-road Equipment - drill rig, 1 air compressor, 1 off-highway truck (for vacuum truck), rough terrain forklift (gradall), 2 pumps

Off-road Equipment - 1 air compressor, 1 drill rig, 1 off-highway trucks, 2 pumps (circulation pumps), 1 rough terrain forklift (gradall)

Off-road Equipment - 2 pumps, 1 off-highway truck

Trips and VMT - .

Grading -

Vehicle Trips - .

Energy Use - provided per PWP

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	6.00
tblConstructionPhase	NumDays	100.00	12.00
tblConstructionPhase	NumDays	100.00	156.00
tblConstructionPhase	NumDays	1.00	12.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	NT24E	0.00	110.85
tblLandUse	LandUseSquareFeet	0.00	12,610.00
tblLandUse	LotAcreage	0.00	0.29
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	16.00
tblTripsAndVMT	HaulingTripNumber	0.00	13.00
tblTripsAndVMT	HaulingTripNumber	0.00	29.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	2.00	6.00
tblTripsAndVMT	VendorTripNumber	2.00	6.00
tblTripsAndVMT	VendorTripNumber	2.00	6.00
tblTripsAndVMT	WorkerTripNumber	15.00	18.00
tblTripsAndVMT	WorkerTripNumber	15.00	18.00
tblTripsAndVMT	WorkerTripNumber	13.00	15.00
tblVehicleTrips	ST_TR	0.00	2.00
tblVehicleTrips	SU_TR	0.00	2.00
tblVehicleTrips	WD_TR	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.1410	45.6995	45.6912	0.1089	0.3075	2.1040	2.3636	0.0833	2.0511	2.1210	0.0000	10,467.1053	10,467.1053	1.9711	0.0000	10,516.3831
2022	0.5781	6.4271	4.4593	0.0109	0.0943	0.2654	0.3597	0.0259	0.2442	0.2701	0.0000	1,070.7799	1,070.7799	0.2896	0.0000	1,078.0194
Maximum	**5.1410**	**45.6995**	**45.6912**	**0.1089**	**0.3075**	**2.1040**	**2.3636**	**0.0833**	**2.0511**	**2.1210**	**0.0000**	**10,467.1053**	**10,467.1053**	**1.9711**	**0.0000**	**10,516.3831**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.1410	45.6995	45.6912	0.1089	0.3075	2.1040	2.3636	0.0833	2.0511	2.1210	0.0000	10,467.1053	10,467.1053	1.9711	0.0000	10,516.3831
2022	0.5781	6.4271	4.4593	0.0109	0.0943	0.2654	0.3597	0.0259	0.2442	0.2701	0.0000	1,070.7799	1,070.7799	0.2896	0.0000	1,078.0194
Maximum	**5.1410**	**45.6995**	**45.6912**	**0.1089**	**0.3075**	**2.1040**	**2.3636**	**0.0833**	**2.0511**	**2.1210**	**0.0000**	**10,467.1053**	**10,467.1053**	**1.9711**	**0.0000**	**10,516.3831**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Area	0.2817	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.2817**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2817	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.2817**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2021	3/13/2021	6	12	
2	Well Drilling 1	Trenching	3/16/2021	3/29/2021	7	14	
3	Well Drilling 2	Trenching	4/11/2021	4/17/2021	7	7	

4	Well Construction	Trenching	4/18/2021	4/22/2021	7	5	
5	Well Development	Trenching	4/23/2021	4/27/2021	7	5	
6	Well Testing and Sampling	Trenching	4/28/2021	5/2/2021	7	5	
7	Demobilization	Building Construction	5/3/2021	5/8/2021	6	6	
8	Site Restoration and Cleanup	Building Construction	5/9/2021	5/22/2021	6	12	
9	Above Grade Improvements	Building Construction	2/24/2022	8/24/2022	6	156	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Cranes	1	8.00	231	0.29
Site Preparation	Excavators	0	8.00	158	0.38
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Off-Highway Trucks	0	8.00	402	0.38
Site Preparation	Rough Terrain Forklifts	1	8.00	100	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Well Drilling 1	Air Compressors	1	24.00	78	0.48
Well Drilling 1	Bore/Drill Rigs	1	24.00	221	0.50
Well Drilling 1	Excavators	0	24.00	158	0.38
Well Drilling 1	Off-Highway Trucks	1	12.00	402	0.38
Well Drilling 1	Pumps	2	24.00	84	0.74
Well Drilling 1	Rough Terrain Forklifts	1	12.00	100	0.40
Well Drilling 2	Air Compressors	1	24.00	78	0.48
Well Drilling 2	Bore/Drill Rigs	1	24.00	221	0.50
Well Drilling 2	Excavators	0	24.00	158	0.38
Well Drilling 2	Off-Highway Trucks	1	12.00	402	0.38

Well Drilling 2	Pumps	2	24.00	84	0.74
Well Drilling 2	Rough Terrain Forklifts	1	12.00	100	0.40
Well Construction	Bore/Drill Rigs	1	24.00	221	0.50
Well Construction	Pumps	2	24.00	84	0.74
Well Construction	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Well Development	Air Compressors	1	24.00	78	0.48
Well Development	Bore/Drill Rigs	1	24.00	221	0.50
Well Development	Off-Highway Trucks	1	12.00	402	0.38
Well Development	Pumps	2	24.00	84	0.74
Well Testing and Sampling	Off-Highway Trucks	1	8.00	402	0.38
Well Testing and Sampling	Pumps	2	8.00	84	0.74
Demobilization	Cranes	1	8.00	231	0.29
Demobilization	Excavators	0	8.00	158	0.38
Demobilization	Forklifts	0	6.00	89	0.20
Demobilization	Rough Terrain Forklifts	1	8.00	100	0.40
Demobilization	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Restoration and Cleanup	Cranes	1	8.00	231	0.29
Site Restoration and Cleanup	Excavators	0	8.00	158	0.38
Site Restoration and Cleanup	Forklifts	0	6.00	89	0.20
Site Restoration and Cleanup	Off-Highway Trucks	2	8.00	402	0.38
Site Restoration and Cleanup	Rough Terrain Forklifts	1	8.00	100	0.40
Site Restoration and Cleanup	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Above Grade Improvements	Cranes	1	8.00	231	0.29
Above Grade Improvements	Forklifts	0	6.00	89	0.20
Above Grade Improvements	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Well Drilling 1	6	18.00	6.00	16.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Drilling 2	6	18.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Construction	4	10.00	6.00	13.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Development	5	15.00	6.00	29.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Testing and Sampling	3	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demobilization	2	5.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Restoration and Cleanup	5	5.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Above Grade Improvements	2	5.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7234	8.3574	6.5372	0.0123		0.3711	0.3711		0.3414	0.3414		1,193.4081	1,193.4081	0.3860		1,203.0574
Total	**0.7234**	**8.3574**	**6.5372**	**0.0123**	**0.0000**	**0.3711**	**0.3711**	**0.0000**	**0.3414**	**0.3414**		**1,193.4081**	**1,193.4081**	**0.3860**		**1,203.0574**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0573**	**0.6074**	**0.4631**	**2.3600e-003**	**0.1278**	**1.9500e-003**	**0.1298**	**0.0348**	**1.8500e-003**	**0.0366**		**246.1874**	**246.1874**	**0.0129**		**246.5094**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7234	8.3574	6.5372	0.0123		0.3711	0.3711		0.3414	0.3414	0.0000	1,193.4081	1,193.4081	0.3860		1,203.0574
Total	**0.7234**	**8.3574**	**6.5372**	**0.0123**	**0.0000**	**0.3711**	**0.3711**	**0.0000**	**0.3414**	**0.3414**	**0.0000**	**1,193.4081**	**1,193.4081**	**0.3860**		**1,203.0574**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432

Total	**0.0573**	**0.6074**	**0.4631**	**2.3600e-003**	**0.1278**	**1.9500e-003**	**0.1298**	**0.0348**	**1.8500e-003**	**0.0366**		**246.1874**	**246.1874**	**0.0129**		**246.5094**

3.3 Well Drilling 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.0263	44.7492	44.7836	0.1046		2.1002	2.1002		2.0475	2.0475		10,018.6318	10,018.6318	1.9483		10,067.3389
Total	**5.0263**	**44.7492**	**44.7836**	**0.1046**		**2.1002**	**2.1002**		**2.0475**	**2.0475**		**10,018.6318**	**10,018.6318**	**1.9483**		**10,067.3389**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.7600e-003	0.3103	0.0762	8.8000e-004	0.0200	9.6000e-004	0.0209	5.4800e-003	9.1000e-004	6.3900e-003		95.0609	95.0609	6.8000e-003		95.2308
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	**0.1147**	**0.9504**	**0.9075**	**4.3200e-003**	**0.2596**	**3.8200e-003**	**0.2634**	**0.0699**	**3.5900e-003**	**0.0735**		**448.4735**	**448.4735**	**0.0228**		**449.0442**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.0263	44.7492	44.7836	0.1046		2.1002	2.1002		2.0475	2.0475	0.0000	10,018.6318	10,018.6318	1.9483		10,067.3389
Total	**5.0263**	**44.7492**	**44.7836**	**0.1046**		**2.1002**	**2.1002**		**2.0475**	**2.0475**	**0.0000**	**10,018.6318**	**10,018.6318**	**1.9483**		**10,067.3389**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.7600e-003	0.3103	0.0762	8.8000e-004	0.0200	9.6000e-004	0.0209	5.4800e-003	9.1000e-004	6.3900e-003		95.0609	95.0609	6.8000e-003		95.2308
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	**0.1147**	**0.9504**	**0.9075**	**4.3200e-003**	**0.2596**	**3.8200e-003**	**0.2634**	**0.0699**	**3.5900e-003**	**0.0735**		**448.4735**	**448.4735**	**0.0228**		**449.0442**

3.4 Well Drilling 2 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	5.0263	44.7492	44.7836	0.1046		2.1002	2.1002		2.0475	2.0475		10,018.6318	10,018.6318	1.9483		10,067.3389
Total	**5.0263**	**44.7492**	**44.7836**	**0.1046**		**2.1002**	**2.1002**		**2.0475**	**2.0475**		**10,018.6318**	**10,018.6318**	**1.9483**		**10,067.3389**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	**0.1050**	**0.6400**	**0.8313**	**3.4400e-003**	**0.2396**	**2.8600e-003**	**0.2425**	**0.0644**	**2.6800e-003**	**0.0671**		**353.4125**	**353.4125**	**0.0160**		**353.8134**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.0263	44.7492	44.7836	0.1046		2.1002	2.1002		2.0475	2.0475	0.0000	10,018.6318	10,018.6318	1.9483		10,067.3389
Total	**5.0263**	**44.7492**	**44.7836**	**0.1046**		**2.1002**	**2.1002**		**2.0475**	**2.0475**	**0.0000**	**10,018.6318**	**10,018.6318**	**1.9483**		**10,067.3389**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	**0.1050**	**0.6400**	**0.8313**	**3.4400e-003**	**0.2396**	**2.8600e-003**	**0.2425**	**0.0644**	**2.6800e-003**	**0.0671**		**353.4125**	**353.4125**	**0.0160**		**353.8134**

3.5 Well Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6188	34.0158	35.4464	0.0771		1.6758	1.6758		1.6270	1.6270		7,377.1014	7,377.1014	1.3808		7,411.6216
Total	**3.6188**	**34.0158**	**35.4464**	**0.0771**		**1.6758**	**1.6758**		**1.6270**	**1.6270**		**7,377.1014**	**7,377.1014**	**1.3808**		**7,411.6216**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day					
Hauling	0.0222	0.7060	0.1734	1.9900e-003	0.0455	2.1700e-003	0.0476	0.0125	2.0800e-003	0.0145		216.2636	216.2636	0.0155		216.6502
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
Total	**0.0890**	**1.3199**	**0.7101**	**4.5700e-003**	**0.1957**	**4.3000e-003**	**0.2000**	**0.0532**	**4.0900e-003**	**0.0573**		**483.8960**	**483.8960**	**0.0290**		**484.6203**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6188	34.0158	35.4464	0.0771		1.6758	1.6758		1.6270	1.6270	0.0000	7,377.1014	7,377.1014	1.3808		7,411.6215
Total	**3.6188**	**34.0158**	**35.4464**	**0.0771**		**1.6758**	**1.6758**		**1.6270**	**1.6270**	**0.0000**	**7,377.1014**	**7,377.1014**	**1.3808**		**7,411.6215**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0222	0.7060	0.1734	1.9900e-003	0.0455	2.1700e-003	0.0476	0.0125	2.0800e-003	0.0145		216.2636	216.2636	0.0155		216.6502
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040

Total	**0.0890**	**1.3199**	**0.7101**	**4.5700e-003**	**0.1957**	**4.3000e-003**	**0.2000**	**0.0532**	**4.0900e-003**	**0.0573**		**483.8960**	**483.8960**	**0.0290**		**484.6203**

3.6 Well Development - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.8415	42.3308	41.3424	0.0994		2.0065	2.0065		1.9613	1.9613		9,517.9779	9,517.9779	1.7864		9,562.6370
Total	**4.8415**	**42.3308**	**41.3424**	**0.0994**		**2.0065**	**2.0065**		**1.9613**	**1.9613**		**9,517.9779**	**9,517.9779**	**1.7864**		**9,562.6370**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0495	1.5749	0.3868	4.4500e-003	0.1014	4.8500e-003	0.1063	0.0278	4.6400e-003	0.0324		482.4342	482.4342	0.0345		483.2965
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.1402**	**2.2051**	**1.1077**	**7.5600e-003**	**0.3075**	**7.4300e-003**	**0.3149**	**0.0833**	**7.0700e-003**	**0.0904**		**803.6792**	**803.6792**	**0.0496**		**804.9187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.8415	42.3308	41.3424	0.0994		2.0065	2.0065		1.9613	1.9613	0.0000	9,517.9779	9,517.9779	1.7864		9,562.6369
Total	**4.8415**	**42.3308**	**41.3424**	**0.0994**		**2.0065**	**2.0065**		**1.9613**	**1.9613**	**0.0000**	**9,517.9779**	**9,517.9779**	**1.7864**		**9,562.6369**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0495	1.5749	0.3868	4.4500e-003	0.1014	4.8500e-003	0.1063	0.0278	4.6400e-003	0.0324		482.4342	482.4342	0.0345		483.2965
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.1402**	**2.2051**	**1.1077**	**7.5600e-003**	**0.3075**	**7.4300e-003**	**0.3149**	**0.0833**	**7.0700e-003**	**0.0904**		**803.6792**	**803.6792**	**0.0496**		**804.9187**

3.7 Well Testing and Sampling - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	1.3667	11.6834	11.0856	0.0264		0.5483	0.5483		0.5328	0.5328		2,524.5943	2,524.5943	0.4815		2,536.6311
Total	**1.3667**	**11.6834**	**11.0856**	**0.0264**		**0.5483**	**0.5483**		**0.5328**	**0.5328**		**2,524.5943**	**2,524.5943**	**0.4815**		**2,536.6311**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0573**	**0.6074**	**0.4631**	**2.3600e-003**	**0.1278**	**1.9500e-003**	**0.1298**	**0.0348**	**1.8500e-003**	**0.0366**		**246.1874**	**246.1874**	**0.0129**		**246.5094**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3667	11.6834	11.0856	0.0264		0.5483	0.5483		0.5328	0.5328	0.0000	2,524.5943	2,524.5943	0.4815		2,536.6311
Total	**1.3667**	**11.6834**	**11.0856**	**0.0264**		**0.5483**	**0.5483**		**0.5328**	**0.5328**	**0.0000**	**2,524.5943**	**2,524.5943**	**0.4815**		**2,536.6311**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0573**	**0.6074**	**0.4631**	**2.3600e-003**	**0.1278**	**1.9500e-003**	**0.1298**	**0.0348**	**1.8500e-003**	**0.0366**		**246.1874**	**246.1874**	**0.0129**		**246.5094**

3.8 Demobilization - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5361	6.4616	4.2770	9.2200e-003		0.2594	0.2594		0.2386	0.2386		892.5080	892.5080	0.2887		899.7244
Total	**0.5361**	**6.4616**	**4.2770**	**9.2200e-003**		**0.2594**	**0.2594**		**0.2386**	**0.2386**		**892.5080**	**892.5080**	**0.2887**		**899.7244**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
Total	**0.0430**	**0.5976**	**0.3526**	**2.0400e-003**	**0.0943**	**1.6800e-003**	**0.0960**	**0.0259**	**1.6000e-003**	**0.0275**		**214.0199**	**214.0199**	**0.0119**		**214.3182**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5361	6.4616	4.2770	9.2200e-003		0.2594	0.2594		0.2386	0.2386	0.0000	892.5080	892.5080	0.2887		899.7244
Total	**0.5361**	**6.4616**	**4.2770**	**9.2200e-003**		**0.2594**	**0.2594**		**0.2386**	**0.2386**	**0.0000**	**892.5080**	**892.5080**	**0.2887**		**899.7244**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520

Total	**0.0430**	**0.5976**	**0.3526**	**2.0400e-003**	**0.0943**	**1.6800e-003**	**0.0960**	**0.0259**	**1.6000e-003**	**0.0275**		**214.0199**	**214.0199**	**0.0119**		**214.3182**

3.9 Site Restoration and Cleanup - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9352	18.8841	13.7459	0.0387		0.7572	0.7572		0.6967	0.6967		3,750.4541	3,750.4541	1.2130		3,780.7784
Total	**1.9352**	**18.8841**	**13.7459**	**0.0387**		**0.7572**	**0.7572**		**0.6967**	**0.6967**		**3,750.4541**	**3,750.4541**	**1.2130**		**3,780.7784**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
Total	**0.0430**	**0.5976**	**0.3526**	**2.0400e-003**	**0.0943**	**1.6800e-003**	**0.0960**	**0.0259**	**1.6000e-003**	**0.0275**		**214.0199**	**214.0199**	**0.0119**		**214.3182**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9352	18.8841	13.7459	0.0387		0.7572	0.7572		0.6967	0.6967	0.0000	3,750.4541	3,750.4541	1.2130		3,780.7784
Total	**1.9352**	**18.8841**	**13.7459**	**0.0387**		**0.7572**	**0.7572**		**0.6967**	**0.6967**	**0.0000**	**3,750.4541**	**3,750.4541**	**1.2130**		**3,780.7784**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.0238	0.0163	0.1841	5.4000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		53.6126	53.6126	1.5800e-003		53.6520
Total	**0.0430**	**0.5976**	**0.3526**	**2.0400e-003**	**0.0943**	**1.6800e-003**	**0.0960**	**0.0259**	**1.6000e-003**	**0.0275**		**214.0199**	**214.0199**	**0.0119**		**214.3182**

3.10 Above Grade Improvements - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.5377	5.8599	4.1303	8.8800e-003		0.2639	0.2639		0.2427	0.2427		860.0693	860.0693	0.2782		867.0234
Total	**0.5377**	**5.8599**	**4.1303**	**8.8800e-003**		**0.2639**	**0.2639**		**0.2427**	**0.2427**		**860.0693**	**860.0693**	**0.2782**		**867.0234**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0180	0.5525	0.1595	1.4900e-003	0.0384	1.0800e-003	0.0395	0.0111	1.0300e-003	0.0121		158.9822	158.9822	9.9900e-003		159.2320
Worker	0.0224	0.0147	0.1696	5.2000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		51.7285	51.7285	1.4200e-003		51.7641
Total	**0.0404**	**0.5672**	**0.3291**	**2.0100e-003**	**0.0943**	**1.5200e-003**	**0.0958**	**0.0259**	**1.4300e-003**	**0.0273**		**210.7106**	**210.7106**	**0.0114**		**210.9960**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5377	5.8599	4.1303	8.8800e-003		0.2639	0.2639		0.2427	0.2427	0.0000	860.0693	860.0693	0.2782		867.0234
Total	**0.5377**	**5.8599**	**4.1303**	**8.8800e-003**		**0.2639**	**0.2639**		**0.2427**	**0.2427**	**0.0000**	**860.0693**	**860.0693**	**0.2782**		**867.0234**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0180	0.5525	0.1595	1.4900e-003	0.0384	1.0800e-003	0.0395	0.0111	1.0300e-003	0.0121		158.9822	158.9822	9.9900e-003		159.2320
Worker	0.0224	0.0147	0.1696	5.2000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		51.7285	51.7285	1.4200e-003		51.7641
Total	**0.0404**	**0.5672**	**0.3291**	**2.0100e-003**	**0.0943**	**1.5200e-003**	**0.0958**	**0.0259**	**1.4300e-003**	**0.0273**		**210.7106**	**210.7106**	**0.0114**		**210.9960**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2817	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	0.2817	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2497					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**0.2817**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2497					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**0.2817**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Garfield Replacement Well Project IS-MND

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.29	12,610.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2022
Utility Company	Pasadena Water & Power				
CO2 Intensity (lb/MWhr)	1664.14	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - .

Land Use - .

Construction Phase - Per PWP

Off-road Equipment - crane, backhoe

Off-road Equipment - crane, rough terrain forklift

Off-road Equipment - .

Off-road Equipment - 1 crane, 1 backhoe, 2 off-highway trucks, 1 rough terrain forklift (Gradall)

Off-road Equipment - 1 drill rig, 2 pumps, 1 backhoe

Off-road Equipment - 1 drill rig, 1 air compressor, 1 off highway truck (vacuum truck), 2 pumps

Off-road Equipment - drill rig, 1 air compressor, 1 off-highway truck (for vacuum truck), rough terrain forklift (gradall), 2 pumps

Off-road Equipment - 1 air compressor, 1 drill rig, 1 off-highway trucks, 2 pumps (circulation pumps), 1 rough terrain forklift (gradall)

Off-road Equipment - 2 pumps, 1 off-highway truck

Trips and VMT - .

Grading -

Vehicle Trips - .

Energy Use - provided per PWP

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	6.00
tblConstructionPhase	NumDays	100.00	12.00
tblConstructionPhase	NumDays	100.00	156.00
tblConstructionPhase	NumDays	1.00	12.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	NT24E	0.00	110.85
tblLandUse	LandUseSquareFeet	0.00	12,610.00
tblLandUse	LotAcreage	0.00	0.29
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	16.00
tblTripsAndVMT	HaulingTripNumber	0.00	13.00
tblTripsAndVMT	HaulingTripNumber	0.00	29.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	2.00	6.00
tblTripsAndVMT	VendorTripNumber	2.00	6.00
tblTripsAndVMT	VendorTripNumber	2.00	6.00
tblTripsAndVMT	WorkerTripNumber	15.00	18.00
tblTripsAndVMT	WorkerTripNumber	15.00	18.00
tblTripsAndVMT	WorkerTripNumber	13.00	15.00
tblVehicleTrips	ST_TR	0.00	2.00
tblVehicleTrips	SU_TR	0.00	2.00
tblVehicleTrips	WD_TR	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.1312	45.6913	45.7328	0.1091	0.3075	2.1040	2.3635	0.0833	2.0511	2.1210	0.0000	10,485.2755	10,485.2755	1.9706	0.0000	10,534.5406
2022	0.5749	6.4272	4.4602	0.0110	0.0943	0.2653	0.3596	0.0259	0.2441	0.2700	0.0000	1,078.4965	1,078.4965	0.2891	0.0000	1,085.7230
Maximum	**5.1312**	**45.6913**	**45.7328**	**0.1091**	**0.3075**	**2.1040**	**2.3635**	**0.0833**	**2.0511**	**2.1210**	**0.0000**	**10,485.2755**	**10,485.2755**	**1.9706**	**0.0000**	**10,534.5406**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.1312	45.6913	45.7328	0.1091	0.3075	2.1040	2.3635	0.0833	2.0511	2.1210	0.0000	10,485.2755	10,485.2755	1.9706	0.0000	10,534.5406
2022	0.5749	6.4272	4.4602	0.0110	0.0943	0.2653	0.3596	0.0259	0.2441	0.2700	0.0000	1,078.4965	1,078.4965	0.2891	0.0000	1,085.7230
Maximum	**5.1312**	**45.6913**	**45.7328**	**0.1091**	**0.3075**	**2.1040**	**2.3635**	**0.0833**	**2.0511**	**2.1210**	**0.0000**	**10,485.2755**	**10,485.2755**	**1.9706**	**0.0000**	**10,534.5406**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Area	0.2817	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.2817**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2817	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.2817**	**0.0000**	**1.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**0.0000**	**2.3000e-004**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2021	3/13/2021	6	12	
2	Well Drilling 1	Trenching	3/16/2021	3/29/2021	7	14	
3	Well Drilling 2	Trenching	4/11/2021	4/17/2021	7	7	

4	Well Construction	Trenching	4/18/2021	4/22/2021	7	5	
5	Well Development	Trenching	4/23/2021	4/27/2021	7	5	
6	Well Testing and Sampling	Trenching	4/28/2021	5/2/2021	7	5	
7	Demobilization	Building Construction	5/3/2021	5/8/2021	6	6	
8	Site Restoration and Cleanup	Building Construction	5/9/2021	5/22/2021	6	12	
9	Above Grade Improvements	Building Construction	2/24/2022	8/24/2022	6	156	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Cranes	1	8.00	231	0.29
Site Preparation	Excavators	0	8.00	158	0.38
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Off-Highway Trucks	0	8.00	402	0.38
Site Preparation	Rough Terrain Forklifts	1	8.00	100	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Well Drilling 1	Air Compressors	1	24.00	78	0.48
Well Drilling 1	Bore/Drill Rigs	1	24.00	221	0.50
Well Drilling 1	Excavators	0	24.00	158	0.38
Well Drilling 1	Off-Highway Trucks	1	12.00	402	0.38
Well Drilling 1	Pumps	2	24.00	84	0.74
Well Drilling 1	Rough Terrain Forklifts	1	12.00	100	0.40
Well Drilling 2	Air Compressors	1	24.00	78	0.48
Well Drilling 2	Bore/Drill Rigs	1	24.00	221	0.50
Well Drilling 2	Excavators	0	24.00	158	0.38
Well Drilling 2	Off-Highway Trucks	1	12.00	402	0.38

Well Drilling 2	Pumps	2	24.00	84	0.74
Well Drilling 2	Rough Terrain Forklifts	1	12.00	100	0.40
Well Construction	Bore/Drill Rigs	1	24.00	221	0.50
Well Construction	Pumps	2	24.00	84	0.74
Well Construction	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Well Development	Air Compressors	1	24.00	78	0.48
Well Development	Bore/Drill Rigs	1	24.00	221	0.50
Well Development	Off-Highway Trucks	1	12.00	402	0.38
Well Development	Pumps	2	24.00	84	0.74
Well Testing and Sampling	Off-Highway Trucks	1	8.00	402	0.38
Well Testing and Sampling	Pumps	2	8.00	84	0.74
Demobilization	Cranes	1	8.00	231	0.29
Demobilization	Excavators	0	8.00	158	0.38
Demobilization	Forklifts	0	6.00	89	0.20
Demobilization	Rough Terrain Forklifts	1	8.00	100	0.40
Demobilization	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Restoration and Cleanup	Cranes	1	8.00	231	0.29
Site Restoration and Cleanup	Excavators	0	8.00	158	0.38
Site Restoration and Cleanup	Forklifts	0	6.00	89	0.20
Site Restoration and Cleanup	Off-Highway Trucks	2	8.00	402	0.38
Site Restoration and Cleanup	Rough Terrain Forklifts	1	8.00	100	0.40
Site Restoration and Cleanup	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Above Grade Improvements	Cranes	1	8.00	231	0.29
Above Grade Improvements	Forklifts	0	6.00	89	0.20
Above Grade Improvements	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Well Drilling 1	6	18.00	6.00	16.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Drilling 2	6	18.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Construction	4	10.00	6.00	13.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Development	5	15.00	6.00	29.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Testing and Sampling	3	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demobilization	2	5.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Restoration and Cleanup	5	5.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Above Grade Improvements	2	5.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7234	8.3574	6.5372	0.0123		0.3711	0.3711		0.3414	0.3414		1,193.4081	1,193.4081	0.3860		1,203.0574
Total	**0.7234**	**8.3574**	**6.5372**	**0.0123**	**0.0000**	**0.3711**	**0.3711**	**0.0000**	**0.3414**	**0.3414**		**1,193.4081**	**1,193.4081**	**0.3860**		**1,203.0574**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0525**	**0.6061**	**0.4745**	**2.4500e-003**	**0.1278**	**1.9100e-003**	**0.1297**	**0.0348**	**1.8100e-003**	**0.0366**		**256.0300**	**256.0300**	**0.0124**		**256.3400**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7234	8.3574	6.5372	0.0123		0.3711	0.3711		0.3414	0.3414	0.0000	1,193.4081	1,193.4081	0.3860		1,203.0574
Total	**0.7234**	**8.3574**	**6.5372**	**0.0123**	**0.0000**	**0.3711**	**0.3711**	**0.0000**	**0.3414**	**0.3414**	**0.0000**	**1,193.4081**	**1,193.4081**	**0.3860**		**1,203.0574**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687

Total	**0.0525**	**0.6061**	**0.4745**	**2.4500e-003**	**0.1278**	**1.9100e-003**	**0.1297**	**0.0348**	**1.8100e-003**	**0.0366**		**256.0300**	**256.0300**	**0.0124**		**256.3400**

3.3 Well Drilling 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.0263	44.7492	44.7836	0.1046		2.1002	2.1002		2.0475	2.0475		10,018.6318	10,018.6318	1.9483		10,067.3389
Total	**5.0263**	**44.7492**	**44.7836**	**0.1046**		**2.1002**	**2.1002**		**2.0475**	**2.0475**		**10,018.6318**	**10,018.6318**	**1.9483**		**10,067.3389**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5300e-003	0.3066	0.0719	8.9000e-004	0.0200	9.4000e-004	0.0209	5.4800e-003	9.0000e-004	6.3800e-003		96.7367	96.7367	6.5600e-003		96.9008
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	**0.1049**	**0.9421**	**0.9492**	**4.4900e-003**	**0.2596**	**3.7600e-003**	**0.2633**	**0.0699**	**3.5400e-003**	**0.0734**		**466.6437**	**466.6437**	**0.0223**		**467.2017**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.0263	44.7492	44.7836	0.1046		2.1002	2.1002		2.0475	2.0475	0.0000	10,018.6318	10,018.6318	1.9483		10,067.3389
Total	**5.0263**	**44.7492**	**44.7836**	**0.1046**		**2.1002**	**2.1002**		**2.0475**	**2.0475**	**0.0000**	**10,018.6318**	**10,018.6318**	**1.9483**		**10,067.3389**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5300e-003	0.3066	0.0719	8.9000e-004	0.0200	9.4000e-004	0.0209	5.4800e-003	9.0000e-004	6.3800e-003		96.7367	96.7367	6.5600e-003		96.9008
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	**0.1049**	**0.9421**	**0.9492**	**4.4900e-003**	**0.2596**	**3.7600e-003**	**0.2633**	**0.0699**	**3.5400e-003**	**0.0734**		**466.6437**	**466.6437**	**0.0223**		**467.2017**

3.4 Well Drilling 2 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	5.0263	44.7492	44.7836	0.1046		2.1002	2.1002		2.0475	2.0475		10,018.6318	10,018.6318	1.9483		10,067.3389
Total	**5.0263**	**44.7492**	**44.7836**	**0.1046**		**2.1002**	**2.1002**		**2.0475**	**2.0475**		**10,018.6318**	**10,018.6318**	**1.9483**		**10,067.3389**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	**0.0954**	**0.6356**	**0.8773**	**3.6000e-003**	**0.2396**	**2.8200e-003**	**0.2424**	**0.0644**	**2.6400e-003**	**0.0671**		**369.9070**	**369.9070**	**0.0158**		**370.3009**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.0263	44.7492	44.7836	0.1046		2.1002	2.1002		2.0475	2.0475	0.0000	10,018.6318	10,018.6318	1.9483		10,067.3389
Total	**5.0263**	**44.7492**	**44.7836**	**0.1046**		**2.1002**	**2.1002**		**2.0475**	**2.0475**	**0.0000**	**10,018.6318**	**10,018.6318**	**1.9483**		**10,067.3389**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	**0.0954**	**0.6356**	**0.8773**	**3.6000e-003**	**0.2396**	**2.8200e-003**	**0.2424**	**0.0644**	**2.6400e-003**	**0.0671**		**369.9070**	**369.9070**	**0.0158**		**370.3009**

3.5 Well Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6188	34.0158	35.4464	0.0771		1.6758	1.6758		1.6270	1.6270		7,377.1014	7,377.1014	1.3808		7,411.6216
Total	**3.6188**	**34.0158**	**35.4464**	**0.0771**		**1.6758**	**1.6758**		**1.6270**	**1.6270**		**7,377.1014**	**7,377.1014**	**1.3808**		**7,411.6216**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day					
Hauling	0.0217	0.6974	0.1635	2.0300e-003	0.0455	2.1400e-003	0.0476	0.0125	2.0500e-003	0.0145		220.0760	220.0760	0.0149		220.4494
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
Total	**0.0828**	**1.3094**	**0.7186**	**4.7100e-003**	**0.1957**	**4.2300e-003**	**0.1999**	**0.0532**	**4.0200e-003**	**0.0572**		**498.8814**	**498.8814**	**0.0280**		**499.5816**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6188	34.0158	35.4464	0.0771		1.6758	1.6758		1.6270	1.6270	0.0000	7,377.1014	7,377.1014	1.3808		7,411.6215
Total	**3.6188**	**34.0158**	**35.4464**	**0.0771**		**1.6758**	**1.6758**		**1.6270**	**1.6270**	**0.0000**	**7,377.1014**	**7,377.1014**	**1.3808**		**7,411.6215**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0217	0.6974	0.1635	2.0300e-003	0.0455	2.1400e-003	0.0476	0.0125	2.0500e-003	0.0145		220.0760	220.0760	0.0149		220.4494
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609

Total	**0.0828**	**1.3094**	**0.7186**	**4.7100e-003**	**0.1957**	**4.2300e-003**	**0.1999**	**0.0532**	**4.0200e-003**	**0.0572**		**498.8814**	**498.8814**	**0.0280**		**499.5816**

3.6 Well Development - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.8415	42.3308	41.3424	0.0994		2.0065	2.0065		1.9613	1.9613		9,517.9779	9,517.9779	1.7864		9,562.6370
Total	**4.8415**	**42.3308**	**41.3424**	**0.0994**		**2.0065**	**2.0065**		**1.9613**	**1.9613**		**9,517.9779**	**9,517.9779**	**1.7864**		**9,562.6370**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0484	1.5558	0.3648	4.5200e-003	0.1014	4.7800e-003	0.1062	0.0278	4.5700e-003	0.0324		490.9388	490.9388	0.0333		491.7718
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.1309**	**2.1826**	**1.1212**	**7.7700e-003**	**0.3075**	**7.3200e-003**	**0.3148**	**0.0833**	**6.9600e-003**	**0.0903**		**826.6827**	**826.6827**	**0.0481**		**827.8844**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.8415	42.3308	41.3424	0.0994		2.0065	2.0065		1.9613	1.9613	0.0000	9,517.9779	9,517.9779	1.7864		9,562.6369
Total	**4.8415**	**42.3308**	**41.3424**	**0.0994**		**2.0065**	**2.0065**		**1.9613**	**1.9613**	**0.0000**	**9,517.9779**	**9,517.9779**	**1.7864**		**9,562.6369**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0484	1.5558	0.3648	4.5200e-003	0.1014	4.7800e-003	0.1062	0.0278	4.5700e-003	0.0324		490.9388	490.9388	0.0333		491.7718
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.1309**	**2.1826**	**1.1212**	**7.7700e-003**	**0.3075**	**7.3200e-003**	**0.3148**	**0.0833**	**6.9600e-003**	**0.0903**		**826.6827**	**826.6827**	**0.0481**		**827.8844**

3.7 Well Testing and Sampling - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	1.3667	11.6834	11.0856	0.0264		0.5483	0.5483		0.5328	0.5328		2,524.5943	2,524.5943	0.4815		2,536.6311
Total	**1.3667**	**11.6834**	**11.0856**	**0.0264**		**0.5483**	**0.5483**		**0.5328**	**0.5328**		**2,524.5943**	**2,524.5943**	**0.4815**		**2,536.6311**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0525**	**0.6061**	**0.4745**	**2.4500e-003**	**0.1278**	**1.9100e-003**	**0.1297**	**0.0348**	**1.8100e-003**	**0.0366**		**256.0300**	**256.0300**	**0.0124**		**256.3400**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3667	11.6834	11.0856	0.0264		0.5483	0.5483		0.5328	0.5328	0.0000	2,524.5943	2,524.5943	0.4815		2,536.6311
Total	**1.3667**	**11.6834**	**11.0856**	**0.0264**		**0.5483**	**0.5483**		**0.5328**	**0.5328**	**0.0000**	**2,524.5943**	**2,524.5943**	**0.4815**		**2,536.6311**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0525**	**0.6061**	**0.4745**	**2.4500e-003**	**0.1278**	**1.9100e-003**	**0.1297**	**0.0348**	**1.8100e-003**	**0.0366**		**256.0300**	**256.0300**	**0.0124**		**256.3400**

3.8 Demobilization - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5361	6.4616	4.2770	9.2200e-003		0.2594	0.2594		0.2386	0.2386		892.5080	892.5080	0.2887		899.7244
Total	**0.5361**	**6.4616**	**4.2770**	**9.2200e-003**		**0.2594**	**0.2594**		**0.2386**	**0.2386**		**892.5080**	**892.5080**	**0.2887**		**899.7244**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804
Total	**0.0397**	**0.5973**	**0.3537**	**2.1100e-003**	**0.0943**	**1.6400e-003**	**0.0959**	**0.0259**	**1.5600e-003**	**0.0274**		**221.8669**	**221.8669**	**0.0114**		**222.1517**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5361	6.4616	4.2770	9.2200e-003		0.2594	0.2594		0.2386	0.2386	0.0000	892.5080	892.5080	0.2887		899.7244
Total	**0.5361**	**6.4616**	**4.2770**	**9.2200e-003**		**0.2594**	**0.2594**		**0.2386**	**0.2386**	**0.0000**	**892.5080**	**892.5080**	**0.2887**		**899.7244**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804

Total	**0.0397**	**0.5973**	**0.3537**	**2.1100e-003**	**0.0943**	**1.6400e-003**	**0.0959**	**0.0259**	**1.5600e-003**	**0.0274**		**221.8669**	**221.8669**	**0.0114**		**222.1517**

3.9 Site Restoration and Cleanup - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9352	18.8841	13.7459	0.0387		0.7572	0.7572		0.6967	0.6967		3,750.4541	3,750.4541	1.2130		3,780.7784
Total	**1.9352**	**18.8841**	**13.7459**	**0.0387**		**0.7572**	**0.7572**		**0.6967**	**0.6967**		**3,750.4541**	**3,750.4541**	**1.2130**		**3,780.7784**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804
Total	**0.0397**	**0.5973**	**0.3537**	**2.1100e-003**	**0.0943**	**1.6400e-003**	**0.0959**	**0.0259**	**1.5600e-003**	**0.0274**		**221.8669**	**221.8669**	**0.0114**		**222.1517**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9352	18.8841	13.7459	0.0387		0.7572	0.7572		0.6967	0.6967	0.0000	3,750.4541	3,750.4541	1.2130		3,780.7784
Total	**1.9352**	**18.8841**	**13.7459**	**0.0387**		**0.7572**	**0.7572**		**0.6967**	**0.6967**	**0.0000**	**3,750.4541**	**3,750.4541**	**1.2130**		**3,780.7784**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.0214	0.0147	0.2014	5.7000e-004	0.0559	4.5000e-004	0.0563	0.0148	4.2000e-004	0.0152		56.9385	56.9385	1.6800e-003		56.9804
Total	**0.0397**	**0.5973**	**0.3537**	**2.1100e-003**	**0.0943**	**1.6400e-003**	**0.0959**	**0.0259**	**1.5600e-003**	**0.0274**		**221.8669**	**221.8669**	**0.0114**		**222.1517**

3.10 Above Grade Improvements - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	0.5377	5.8599	4.1303	8.8800e-003		0.2639	0.2639		0.2427	0.2427		860.0693	860.0693	0.2782		867.0234
Total	**0.5377**	**5.8599**	**4.1303**	**8.8800e-003**		**0.2639**	**0.2639**		**0.2427**	**0.2427**		**860.0693**	**860.0693**	**0.2782**		**867.0234**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0171	0.5540	0.1441	1.5300e-003	0.0384	1.0400e-003	0.0395	0.0111	1.0000e-003	0.0121		163.4915	163.4915	9.3800e-003		163.7261
Worker	0.0201	0.0133	0.1858	5.5000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		54.9356	54.9356	1.5200e-003		54.9735
Total	**0.0372**	**0.5673**	**0.3299**	**2.0800e-003**	**0.0943**	**1.4800e-003**	**0.0958**	**0.0259**	**1.4000e-003**	**0.0273**		**218.4272**	**218.4272**	**0.0109**		**218.6996**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5377	5.8599	4.1303	8.8800e-003		0.2639	0.2639		0.2427	0.2427	0.0000	860.0693	860.0693	0.2782		867.0234
Total	**0.5377**	**5.8599**	**4.1303**	**8.8800e-003**		**0.2639**	**0.2639**		**0.2427**	**0.2427**	**0.0000**	**860.0693**	**860.0693**	**0.2782**		**867.0234**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0171	0.5540	0.1441	1.5300e-003	0.0384	1.0400e-003	0.0395	0.0111	1.0000e-003	0.0121		163.4915	163.4915	9.3800e-003		163.7261
Worker	0.0201	0.0133	0.1858	5.5000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		54.9356	54.9356	1.5200e-003		54.9735
Total	**0.0372**	**0.5673**	**0.3299**	**2.0800e-003**	**0.0943**	**1.4800e-003**	**0.0958**	**0.0259**	**1.4000e-003**	**0.0273**		**218.4272**	**218.4272**	**0.0109**		**218.6996**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2817	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Unmitigated	0.2817	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2497					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**0.2817**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0320					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2497					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Landscaping	1.0000e-005	0.0000	1.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e-004	2.2000e-004	0.0000		2.3000e-004
Total	**0.2817**	**0.0000**	**1.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**2.2000e-004**	**2.2000e-004**	**0.0000**		**2.3000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Garfield Replacement Well Project IS-MND

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.29	12,610.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2022
Utility Company	Pasadena Water & Power				
CO2 Intensity (lb/MWhr)	1664.14	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - .

Land Use - .

Construction Phase - Per PWP

Off-road Equipment - crane, backhoe

Off-road Equipment - crane, rough terrain forklift

Off-road Equipment - .

Off-road Equipment - 1 crane, 1 backhoe, 2 off-highway trucks, 1 rough terrain forklift (Gradall)

Off-road Equipment - 1 drill rig, 2 pumps, 1 backhoe

Off-road Equipment - 1 drill rig, 1 air compressor, 1 off highway truck (vacuum truck), 2 pumps

Off-road Equipment - drill rig, 1 air compressor, 1 off-highway truck (for vacuum truck), rough terrain forklift (gradall), 2 pumps

Off-road Equipment - 1 air compressor, 1 drill rig, 1 off-highway trucks, 2 pumps (circulation pumps), 1 rough terrain forklift (gradall)

Off-road Equipment - 2 pumps, 1 off-highway truck

Trips and VMT - .

Grading -

Vehicle Trips - .

Energy Use - provided per PWP

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	6.00
tblConstructionPhase	NumDays	100.00	12.00
tblConstructionPhase	NumDays	100.00	156.00
tblConstructionPhase	NumDays	1.00	12.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	NT24E	0.00	110.85
tblLandUse	LandUseSquareFeet	0.00	12,610.00
tblLandUse	LotAcreage	0.00	0.29
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	16.00
tblTripsAndVMT	HaulingTripNumber	0.00	13.00
tblTripsAndVMT	HaulingTripNumber	0.00	29.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	2.00	6.00
tblTripsAndVMT	VendorTripNumber	2.00	6.00
tblTripsAndVMT	VendorTripNumber	2.00	6.00
tblTripsAndVMT	WorkerTripNumber	15.00	18.00
tblTripsAndVMT	WorkerTripNumber	15.00	18.00
tblTripsAndVMT	WorkerTripNumber	13.00	15.00
tblVehicleTrips	ST_TR	0.00	2.00
tblVehicleTrips	SU_TR	0.00	2.00
tblVehicleTrips	WD_TR	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0973	0.9016	0.8454	2.0500e-003	5.7400e-003	0.0403	0.0460	1.5600e-003	0.0388	0.0404	0.0000	179.5098	179.5098	0.0369	0.0000	180.4319
2022	0.0449	0.5021	0.3476	8.5000e-004	7.2200e-003	0.0207	0.0279	1.9900e-003	0.0190	0.0210	0.0000	76.0148	76.0148	0.0205	0.0000	76.5265
Maximum	**0.0973**	**0.9016**	**0.8454**	**2.0500e-003**	**7.2200e-003**	**0.0403**	**0.0460**	**1.9900e-003**	**0.0388**	**0.0404**	**0.0000**	**179.5098**	**179.5098**	**0.0369**	**0.0000**	**180.4319**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0973	0.9016	0.8454	2.0500e-003	5.7400e-003	0.0403	0.0460	1.5600e-003	0.0388	0.0404	0.0000	179.5096	179.5096	0.0369	0.0000	180.4317
2022	0.0449	0.5021	0.3476	8.5000e-004	7.2200e-003	0.0207	0.0279	1.9900e-003	0.0190	0.0210	0.0000	76.0147	76.0147	0.0205	0.0000	76.5264
Maximum	**0.0973**	**0.9016**	**0.8454**	**2.0500e-003**	**7.2200e-003**	**0.0403**	**0.0460**	**1.9900e-003**	**0.0388**	**0.0404**	**0.0000**	**179.5096**	**179.5096**	**0.0369**	**0.0000**	**180.4317**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**3-1-2021**	**5-31-2021**	0.9909	0.9909
4	**12-1-2021**	**2-28-2022**	0.0150	0.0150
5	**3-1-2022**	**5-31-2022**	0.2761	0.2761
6	**6-1-2022**	**8-31-2022**	0.2551	0.2551
		Highest	0.9909	0.9909

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0514	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1,055.1310	1,055.1310	0.0184	3.8000e-003	1,056.7244
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0514**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1,055.1310**	**1,055.1310**	**0.0184**	**3.8000e-003**	**1,056.7244**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0514	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1,055.1310	1,055.1310	0.0184	3.8000e-003	1,056.7244
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0514**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1,055.1310**	**1,055.1310**	**0.0184**	**3.8000e-003**	**1,056.7244**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2021	3/13/2021	6	12	
2	Well Drilling 1	Trenching	3/16/2021	3/29/2021	7	14	
3	Well Drilling 2	Trenching	4/11/2021	4/17/2021	7	7	
4	Well Construction	Trenching	4/18/2021	4/22/2021	7	5	
5	Well Development	Trenching	4/23/2021	4/27/2021	7	5	
6	Well Testing and Sampling	Trenching	4/28/2021	5/2/2021	7	5	
7	Demobilization	Building Construction	5/3/2021	5/8/2021	6	6	
8	Site Restoration and Cleanup	Building Construction	5/9/2021	5/22/2021	6	12	
9	Above Grade Improvements	Building Construction	2/24/2022	8/24/2022	6	156	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Cranes	1	8.00	231	0.29
Site Preparation	Excavators	0	8.00	158	0.38
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Off-Highway Trucks	0	8.00	402	0.38
Site Preparation	Rough Terrain Forklifts	1	8.00	100	0.40

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Well Drilling 1	Air Compressors	1	24.00	78	0.48
Well Drilling 1	Bore/Drill Rigs	1	24.00	221	0.50
Well Drilling 1	Excavators	0	24.00	158	0.38
Well Drilling 1	Off-Highway Trucks	1	12.00	402	0.38
Well Drilling 1	Pumps	2	24.00	84	0.74
Well Drilling 1	Rough Terrain Forklifts	1	12.00	100	0.40
Well Drilling 2	Air Compressors	1	24.00	78	0.48
Well Drilling 2	Bore/Drill Rigs	1	24.00	221	0.50
Well Drilling 2	Excavators	0	24.00	158	0.38
Well Drilling 2	Off-Highway Trucks	1	12.00	402	0.38
Well Drilling 2	Pumps	2	24.00	84	0.74
Well Drilling 2	Rough Terrain Forklifts	1	12.00	100	0.40
Well Construction	Bore/Drill Rigs	1	24.00	221	0.50
Well Construction	Pumps	2	24.00	84	0.74
Well Construction	Tractors/Loaders/Backhoes	1	24.00	97	0.37
Well Development	Air Compressors	1	24.00	78	0.48
Well Development	Bore/Drill Rigs	1	24.00	221	0.50
Well Development	Off-Highway Trucks	1	12.00	402	0.38
Well Development	Pumps	2	24.00	84	0.74
Well Testing and Sampling	Off-Highway Trucks	1	8.00	402	0.38
Well Testing and Sampling	Pumps	2	8.00	84	0.74
Demobilization	Cranes	1	8.00	231	0.29
Demobilization	Excavators	0	8.00	158	0.38
Demobilization	Forklifts	0	6.00	89	0.20
Demobilization	Rough Terrain Forklifts	1	8.00	100	0.40
Demobilization	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Restoration and Cleanup	Cranes	1	8.00	231	0.29
Site Restoration and Cleanup	Excavators	0	8.00	158	0.38
Site Restoration and Cleanup	Forklifts	0	6.00	89	0.20

Site Restoration and Cleanup	Off-Highway Trucks	2	8.00	402	0.38
Site Restoration and Cleanup	Rough Terrain Forklifts	1	8.00	100	0.40
Site Restoration and Cleanup	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Above Grade Improvements	Cranes	1	8.00	231	0.29
Above Grade Improvements	Forklifts	0	6.00	89	0.20
Above Grade Improvements	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Drilling 1	6	18.00	6.00	16.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Drilling 2	6	18.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Construction	4	10.00	6.00	13.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Development	5	15.00	6.00	29.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Well Testing and Sampling	3	8.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demobilization	2	5.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Restoration and Cleanup	5	5.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Above Grade Improvements	2	5.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3400e-003	0.0501	0.0392	7.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	6.4959	6.4959	2.1000e-003	0.0000	6.5484
Total	**4.3400e-003**	**0.0501**	**0.0392**	**7.0000e-005**	**0.0000**	**2.2300e-003**	**2.2300e-003**	**0.0000**	**2.0500e-003**	**2.0500e-003**	**0.0000**	**6.4959**	**6.4959**	**2.1000e-003**	**0.0000**	**6.5484**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.5500e-003	9.6000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.3000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8874	0.8874	5.0000e-005	0.0000	0.8888
Worker	2.1000e-004	1.6000e-004	1.8200e-003	1.0000e-005	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4747	0.4747	1.0000e-005	0.0000	0.4750
Total	**3.2000e-004**	**3.7100e-003**	**2.7800e-003**	**2.0000e-005**	**7.6000e-004**	**1.0000e-005**	**7.6000e-004**	**2.1000e-004**	**1.0000e-005**	**2.1000e-004**	**0.0000**	**1.3621**	**1.3621**	**6.0000e-005**	**0.0000**	**1.3638**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3400e-003	0.0501	0.0392	7.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	6.4958	6.4958	2.1000e-003	0.0000	6.5484
Total	**4.3400e-003**	**0.0501**	**0.0392**	**7.0000e-005**	**0.0000**	**2.2300e-003**	**2.2300e-003**	**0.0000**	**2.0500e-003**	**2.0500e-003**	**0.0000**	**6.4958**	**6.4958**	**2.1000e-003**	**0.0000**	**6.5484**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.5500e-003	9.6000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.3000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8874	0.8874	5.0000e-005	0.0000	0.8888
Worker	2.1000e-004	1.6000e-004	1.8200e-003	1.0000e-005	5.3000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4747	0.4747	1.0000e-005	0.0000	0.4750
Total	**3.2000e-004**	**3.7100e-003**	**2.7800e-003**	**2.0000e-005**	**7.6000e-004**	**1.0000e-005**	**7.6000e-004**	**2.1000e-004**	**1.0000e-005**	**2.1000e-004**	**0.0000**	**1.3621**	**1.3621**	**6.0000e-005**	**0.0000**	**1.3638**

3.3 Well Drilling 1 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0352	0.3132	0.3135	7.3000e-004		0.0147	0.0147		0.0143	0.0143	0.0000	63.6213	63.6213	0.0124	0.0000	63.9306
Total	**0.0352**	**0.3132**	**0.3135**	**7.3000e-004**		**0.0147**	**0.0147**		**0.0143**	**0.0143**	**0.0000**	**63.6213**	**63.6213**	**0.0124**	**0.0000**	**63.9306**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	7.0000e-005	2.2100e-003	5.2000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.6098	0.6098	4.0000e-005	0.0000	0.6109
Vendor	1.3000e-004	4.1400e-003	1.1200e-003	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.0353	1.0353	6.0000e-005	0.0000	1.0369
Worker	5.4000e-004	4.2000e-004	4.7600e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2460	1.2460	4.0000e-005	0.0000	1.2470
Total	**7.4000e-004**	**6.7700e-003**	**6.4000e-003**	**3.0000e-005**	**1.7800e-003**	**3.0000e-005**	**1.8000e-003**	**4.9000e-004**	**3.0000e-005**	**5.0000e-004**	**0.0000**	**2.8912**	**2.8912**	**1.4000e-004**	**0.0000**	**2.8947**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0352	0.3132	0.3135	7.3000e-004		0.0147	0.0147		0.0143	0.0143	0.0000	63.6212	63.6212	0.0124	0.0000	63.9305
Total	**0.0352**	**0.3132**	**0.3135**	**7.3000e-004**		**0.0147**	**0.0147**		**0.0143**	**0.0143**	**0.0000**	**63.6212**	**63.6212**	**0.0124**	**0.0000**	**63.9305**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.0000e-005	2.2100e-003	5.2000e-004	1.0000e-005	1.4000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.6098	0.6098	4.0000e-005	0.0000	0.6109
Vendor	1.3000e-004	4.1400e-003	1.1200e-003	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.0353	1.0353	6.0000e-005	0.0000	1.0369
Worker	5.4000e-004	4.2000e-004	4.7600e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2460	1.2460	4.0000e-005	0.0000	1.2470

Total	**7.4000e-004**	**6.7700e-003**	**6.4000e-003**	**3.0000e-005**	**1.7800e-003**	**3.0000e-005**	**1.8000e-003**	**4.9000e-004**	**3.0000e-005**	**5.0000e-004**	**0.0000**	**2.8912**	**2.8912**	**1.4000e-004**	**0.0000**	**2.8947**

3.4 Well Drilling 2 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0176	0.1566	0.1567	3.7000e-004		7.3500e-003	7.3500e-003		7.1700e-003	7.1700e-003	0.0000	31.8106	31.8106	6.1900e-003	0.0000	31.9653
Total	**0.0176**	**0.1566**	**0.1567**	**3.7000e-004**		**7.3500e-003**	**7.3500e-003**		**7.1700e-003**	**7.1700e-003**	**0.0000**	**31.8106**	**31.8106**	**6.1900e-003**	**0.0000**	**31.9653**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0700e-003	5.6000e-004	1.0000e-005	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5176	0.5176	3.0000e-005	0.0000	0.5184
Worker	2.7000e-004	2.1000e-004	2.3800e-003	1.0000e-005	6.9000e-004	1.0000e-005	7.0000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6230	0.6230	2.0000e-005	0.0000	0.6235
Total	**3.4000e-004**	**2.2800e-003**	**2.9400e-003**	**2.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.4000e-004**	**2.2000e-004**	**1.0000e-005**	**2.3000e-004**	**0.0000**	**1.1407**	**1.1407**	**5.0000e-005**	**0.0000**	**1.1419**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0176	0.1566	0.1567	3.7000e-004		7.3500e-003	7.3500e-003		7.1700e-003	7.1700e-003	0.0000	31.8106	31.8106	6.1900e-003	0.0000	31.9652
Total	**0.0176**	**0.1566**	**0.1567**	**3.7000e-004**		**7.3500e-003**	**7.3500e-003**		**7.1700e-003**	**7.1700e-003**	**0.0000**	**31.8106**	**31.8106**	**6.1900e-003**	**0.0000**	**31.9652**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0700e-003	5.6000e-004	1.0000e-005	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5176	0.5176	3.0000e-005	0.0000	0.5184
Worker	2.7000e-004	2.1000e-004	2.3800e-003	1.0000e-005	6.9000e-004	1.0000e-005	7.0000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6230	0.6230	2.0000e-005	0.0000	0.6235
Total	**3.4000e-004**	**2.2800e-003**	**2.9400e-003**	**2.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.4000e-004**	**2.2000e-004**	**1.0000e-005**	**2.3000e-004**	**0.0000**	**1.1407**	**1.1407**	**5.0000e-005**	**0.0000**	**1.1419**

3.5 Well Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road	9.0500e-003	0.0850	0.0886	1.9000e-004		4.1900e-003	4.1900e-003		4.0700e-003	4.0700e-003	0.0000	16.7310	16.7310	3.1300e-003	0.0000	16.8093
Total	**9.0500e-003**	**0.0850**	**0.0886**	**1.9000e-004**		**4.1900e-003**	**4.1900e-003**		**4.0700e-003**	**4.0700e-003**	**0.0000**	**16.7310**	**16.7310**	**3.1300e-003**	**0.0000**	**16.8093**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.8000e-003	4.2000e-004	1.0000e-005	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4955	0.4955	3.0000e-005	0.0000	0.4964
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	1.1000e-004	8.0000e-005	9.5000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2472	0.2472	1.0000e-005	0.0000	0.2474
Total	**2.1000e-004**	**3.3600e-003**	**1.7700e-003**	**1.0000e-005**	**4.7000e-004**	**1.0000e-005**	**5.0000e-004**	**1.3000e-004**	**1.0000e-005**	**1.4000e-004**	**0.0000**	**1.1125**	**1.1125**	**6.0000e-005**	**0.0000**	**1.1141**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0500e-003	0.0850	0.0886	1.9000e-004		4.1900e-003	4.1900e-003		4.0700e-003	4.0700e-003	0.0000	16.7310	16.7310	3.1300e-003	0.0000	16.8093
Total	**9.0500e-003**	**0.0850**	**0.0886**	**1.9000e-004**		**4.1900e-003**	**4.1900e-003**		**4.0700e-003**	**4.0700e-003**	**0.0000**	**16.7310**	**16.7310**	**3.1300e-003**	**0.0000**	**16.8093**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.8000e-003	4.2000e-004	1.0000e-005	1.1000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4955	0.4955	3.0000e-005	0.0000	0.4964
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	1.1000e-004	8.0000e-005	9.5000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2472	0.2472	1.0000e-005	0.0000	0.2474
Total	**2.1000e-004**	**3.3600e-003**	**1.7700e-003**	**1.0000e-005**	**4.7000e-004**	**1.0000e-005**	**5.0000e-004**	**1.3000e-004**	**1.0000e-005**	**1.4000e-004**	**0.0000**	**1.1125**	**1.1125**	**6.0000e-005**	**0.0000**	**1.1141**

3.6 Well Development - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0121	0.1058	0.1034	2.5000e-004		5.0200e-003	5.0200e-003		4.9000e-003	4.9000e-003	0.0000	21.5864	21.5864	4.0500e-003	0.0000	21.6877
Total	**0.0121**	**0.1058**	**0.1034**	**2.5000e-004**		**5.0200e-003**	**5.0200e-003**		**4.9000e-003**	**4.9000e-003**	**0.0000**	**21.5864**	**21.5864**	**4.0500e-003**	**0.0000**	**21.6877**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	1.2000e-004	4.0100e-003	9.4000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.1053	1.1053	8.0000e-005	0.0000	1.1073
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	1.6000e-004	1.3000e-004	1.4200e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3708	0.3708	1.0000e-005	0.0000	0.3711
Total	**3.3000e-004**	**5.6200e-003**	**2.7600e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.7000e-004**	**2.1000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**1.8459**	**1.8459**	**1.1000e-004**	**0.0000**	**1.8487**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0121	0.1058	0.1034	2.5000e-004		5.0200e-003	5.0200e-003		4.9000e-003	4.9000e-003	0.0000	21.5864	21.5864	4.0500e-003	0.0000	21.6877
Total	**0.0121**	**0.1058**	**0.1034**	**2.5000e-004**		**5.0200e-003**	**5.0200e-003**		**4.9000e-003**	**4.9000e-003**	**0.0000**	**21.5864**	**21.5864**	**4.0500e-003**	**0.0000**	**21.6877**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	4.0100e-003	9.4000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.1053	1.1053	8.0000e-005	0.0000	1.1073
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	1.6000e-004	1.3000e-004	1.4200e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3708	0.3708	1.0000e-005	0.0000	0.3711

Total	**3.3000e-004**	**5.6200e-003**	**2.7600e-003**	**1.0000e-005**	**7.5000e-004**	**1.0000e-005**	**7.7000e-004**	**2.1000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**1.8459**	**1.8459**	**1.1000e-004**	**0.0000**	**1.8487**

3.7 Well Testing and Sampling - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4200e-003	0.0292	0.0277	7.0000e-005		1.3700e-003	1.3700e-003		1.3300e-003	1.3300e-003	0.0000	5.7257	5.7257	1.0900e-003	0.0000	5.7530
Total	**3.4200e-003**	**0.0292**	**0.0277**	**7.0000e-005**		**1.3700e-003**	**1.3700e-003**		**1.3300e-003**	**1.3300e-003**	**0.0000**	**5.7257**	**5.7257**	**1.0900e-003**	**0.0000**	**5.7530**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	9.0000e-005	7.0000e-005	7.6000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1978	0.1978	1.0000e-005	0.0000	0.1979
Total	**1.4000e-004**	**1.5500e-003**	**1.1600e-003**	**0.0000**	**3.1000e-004**	**0.0000**	**3.2000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.5675**	**0.5675**	**3.0000e-005**	**0.0000**	**0.5682**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4200e-003	0.0292	0.0277	7.0000e-005		1.3700e-003	1.3700e-003		1.3300e-003	1.3300e-003	0.0000	5.7257	5.7257	1.0900e-003	0.0000	5.7530
Total	**3.4200e-003**	**0.0292**	**0.0277**	**7.0000e-005**		**1.3700e-003**	**1.3700e-003**		**1.3300e-003**	**1.3300e-003**	**0.0000**	**5.7257**	**5.7257**	**1.0900e-003**	**0.0000**	**5.7530**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4800e-003	4.0000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3697	0.3697	2.0000e-005	0.0000	0.3703
Worker	9.0000e-005	7.0000e-005	7.6000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1978	0.1978	1.0000e-005	0.0000	0.1979
Total	**1.4000e-004**	**1.5500e-003**	**1.1600e-003**	**0.0000**	**3.1000e-004**	**0.0000**	**3.2000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.5675**	**0.5675**	**3.0000e-005**	**0.0000**	**0.5682**

3.8 Demobilization - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Off-Road	1.6100e-003	0.0194	0.0128	3.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	2.4290	2.4290	7.9000e-004	0.0000	2.4487
Total	**1.6100e-003**	**0.0194**	**0.0128**	**3.0000e-005**		**7.8000e-004**	**7.8000e-004**		**7.2000e-004**	**7.2000e-004**	**0.0000**	**2.4290**	**2.4290**	**7.9000e-004**	**0.0000**	**2.4487**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.7800e-003	4.8000e-004	0.0000	1.1000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4437	0.4437	3.0000e-005	0.0000	0.4444
Worker	6.0000e-005	5.0000e-005	5.7000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1483	0.1483	0.0000	0.0000	0.1485
Total	**1.2000e-004**	**1.8300e-003**	**1.0500e-003**	**0.0000**	**2.7000e-004**	**0.0000**	**2.9000e-004**	**7.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.5920**	**0.5920**	**3.0000e-005**	**0.0000**	**0.5928**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6100e-003	0.0194	0.0128	3.0000e-005		7.8000e-004	7.8000e-004		7.2000e-004	7.2000e-004	0.0000	2.4290	2.4290	7.9000e-004	0.0000	2.4487
Total	**1.6100e-003**	**0.0194**	**0.0128**	**3.0000e-005**		**7.8000e-004**	**7.8000e-004**		**7.2000e-004**	**7.2000e-004**	**0.0000**	**2.4290**	**2.4290**	**7.9000e-004**	**0.0000**	**2.4487**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.7800e-003	4.8000e-004	0.0000	1.1000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4437	0.4437	3.0000e-005	0.0000	0.4444
Worker	6.0000e-005	5.0000e-005	5.7000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1483	0.1483	0.0000	0.0000	0.1485
Total	**1.2000e-004**	**1.8300e-003**	**1.0500e-003**	**0.0000**	**2.7000e-004**	**0.0000**	**2.9000e-004**	**7.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.5920**	**0.5920**	**3.0000e-005**	**0.0000**	**0.5928**

3.9 Site Restoration and Cleanup - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0116	0.1133	0.0825	2.3000e-004		4.5400e-003	4.5400e-003		4.1800e-003	4.1800e-003	0.0000	20.4141	20.4141	6.6000e-003	0.0000	20.5792
Total	**0.0116**	**0.1133**	**0.0825**	**2.3000e-004**		**4.5400e-003**	**4.5400e-003**		**4.1800e-003**	**4.1800e-003**	**0.0000**	**20.4141**	**20.4141**	**6.6000e-003**	**0.0000**	**20.5792**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.5500e-003	9.6000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.3000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8874	0.8874	5.0000e-005	0.0000	0.8888
Worker	1.3000e-004	1.0000e-004	1.1300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2967	0.2967	1.0000e-005	0.0000	0.2969
Total	**2.4000e-004**	**3.6500e-003**	**2.0900e-003**	**1.0000e-005**	**5.6000e-004**	**1.0000e-005**	**5.6000e-004**	**1.6000e-004**	**1.0000e-005**	**1.6000e-004**	**0.0000**	**1.1841**	**1.1841**	**6.0000e-005**	**0.0000**	**1.1856**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0116	0.1133	0.0825	2.3000e-004		4.5400e-003	4.5400e-003		4.1800e-003	4.1800e-003	0.0000	20.4141	20.4141	6.6000e-003	0.0000	20.5792
Total	**0.0116**	**0.1133**	**0.0825**	**2.3000e-004**		**4.5400e-003**	**4.5400e-003**		**4.1800e-003**	**4.1800e-003**	**0.0000**	**20.4141**	**20.4141**	**6.6000e-003**	**0.0000**	**20.5792**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	3.5500e-003	9.6000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.3000e-004	7.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8874	0.8874	5.0000e-005	0.0000	0.8888
Worker	1.3000e-004	1.0000e-004	1.1300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2967	0.2967	1.0000e-005	0.0000	0.2969

Total	**2.4000e-004**	**3.6500e-003**	**2.0900e-003**	**1.0000e-005**	**5.6000e-004**	**1.0000e-005**	**5.6000e-004**	**1.6000e-004**	**1.0000e-005**	**1.6000e-004**	**0.0000**	**1.1841**	**1.1841**	**6.0000e-005**	**0.0000**	**1.1856**

3.10 Above Grade Improvements - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0419	0.4571	0.3222	6.9000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	60.8589	60.8589	0.0197	0.0000	61.3509
Total	**0.0419**	**0.4571**	**0.3222**	**6.9000e-004**		**0.0206**	**0.0206**		**0.0189**	**0.0189**	**0.0000**	**60.8589**	**60.8589**	**0.0197**	**0.0000**	**61.3509**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0439	0.0119	1.2000e-004	2.9500e-003	8.0000e-005	3.0300e-003	8.5000e-004	8.0000e-005	9.3000e-004	0.0000	11.4347	11.4347	6.8000e-004	0.0000	11.4518
Worker	1.5700e-003	1.1800e-003	0.0136	4.0000e-005	4.2700e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	3.7212	3.7212	1.0000e-004	0.0000	3.7238
Total	**2.9300e-003**	**0.0451**	**0.0254**	**1.6000e-004**	**7.2200e-003**	**1.1000e-004**	**7.3400e-003**	**1.9900e-003**	**1.1000e-004**	**2.1000e-003**	**0.0000**	**15.1559**	**15.1559**	**7.8000e-004**	**0.0000**	**15.1756**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0419	0.4571	0.3222	6.9000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	60.8588	60.8588	0.0197	0.0000	61.3509
Total	**0.0419**	**0.4571**	**0.3222**	**6.9000e-004**		**0.0206**	**0.0206**		**0.0189**	**0.0189**	**0.0000**	**60.8588**	**60.8588**	**0.0197**	**0.0000**	**61.3509**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3600e-003	0.0439	0.0119	1.2000e-004	2.9500e-003	8.0000e-005	3.0300e-003	8.5000e-004	8.0000e-005	9.3000e-004	0.0000	11.4347	11.4347	6.8000e-004	0.0000	11.4518
Worker	1.5700e-003	1.1800e-003	0.0136	4.0000e-005	4.2700e-003	3.0000e-005	4.3100e-003	1.1400e-003	3.0000e-005	1.1700e-003	0.0000	3.7212	3.7212	1.0000e-004	0.0000	3.7238
Total	**2.9300e-003**	**0.0451**	**0.0254**	**1.6000e-004**	**7.2200e-003**	**1.1000e-004**	**7.3400e-003**	**1.9900e-003**	**1.1000e-004**	**2.1000e-003**	**0.0000**	**15.1559**	**15.1559**	**7.8000e-004**	**0.0000**	**15.1756**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,055.1310	1,055.1310	0.0184	3.8000e-003	1,056.7244
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,055.1310	1,055.1310	0.0184	3.8000e-003	1,056.7244
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	1.39782e+006	1,055.1310	0.0184	3.8000e-003	1,056.7244
Total		**1,055.1310**	**0.0184**	**3.8000e-003**	**1,056.7244**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	1.39782e+006	1,055.1310	0.0184	3.8000e-003	1,056.7244
Total		**1,055.1310**	**0.0184**	**3.8000e-003**	**1,056.7244**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0514	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0514	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.8400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0456					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	**0.0514**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.8400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0456					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	**0.0514**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX C

CULTURAL AND TRIBAL CULTURAL RESOURCES DATA

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

SECRETARY
Merri Lopez-Keifer
Luiseño

PARLIAMENTARIAN
Russell Attebery
Karuk

COMMISSIONER
Marshall McKay
Wintun

COMMISSIONER
William Mungary
Paiute/White Mountain Apache

COMMISSIONER
Julie Tumamait-Stenslie
Chumash

COMMISSIONER
[**Vacant**]

COMMISSIONER
[**Vacant**]

EXECUTIVE SECRETARY
Christina Snider
Pomo

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

December 22, 2020

Kassie Sugimoto
Psomas

Via Email to: Kassie.Sugimoto@psomas.com

Re: Garfield Replacement Well 3PAS013400 Project, Los Angeles County

Dear Ms. Sugimoto:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were positive. Please contact the Gabrieleno Band of Mission Indians – Kizh Nation on the attached list for more information. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Los Angeles County
12/22/2020

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393 — Gabrieleno
Covina, CA, 91723
Phone: (626) 926 - 4131
admin@gabrielenoindians.org

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693 — Gabrieleno
San Gabriel, CA, 91778
Phone: (626) 483 - 3564
Fax: (626) 286-1262
GTTribalcouncil@aol.com

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231 — Gabrielino
Los Angeles, CA, 90012
Phone: (951) 807 - 0479
sgoad@gabrielino-tongva.com

Gabrielino Tongva Indians of California Tribal Council
Robert Dorame, Chairperson
P.O. Box 490 — Gabrielino
Bellflower, CA, 90707
Phone: (562) 761 - 6417
Fax: (562) 761-6417
gtongva@gmail.com

Gabrielino-Tongva Tribe
Charles Alvarez,
23454 Vanowen Street — Gabrielino
West Hills, CA, 91307
Phone: (310) 403 - 6048
roadkingcharles@aol.com

Santa Rosa Band of Cahuilla Indians
Lovina Redner, Tribal Chair
P.O. Box 391820 — Cahuilla
Anza, CA, 92539
Phone: (951) 659 - 2700
Fax: (951) 659-2228
lsaul@santarosa-nsn.gov

Soboba Band of Luiseno Indians
Joseph Ontiveros, Cultural Resource Department
P.O. BOX 487 — Cahuilla
San Jacinto, CA, 92581 — Luiseno
Phone: (951) 663 - 5279
Fax: (951) 654-4198
jontiveros@soboba-nsn.gov

Soboba Band of Luiseno Indians
Scott Cozart, Chairperson
P. O. Box 487 — Cahuilla
San Jacinto, CA, 92583 — Luiseno
Phone: (951) 654 - 2765
Fax: (951) 654-4198
jontiveros@soboba-nsn.gov

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

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Garfield Replacement Well 3PAS013400 Project, Los Angeles County.

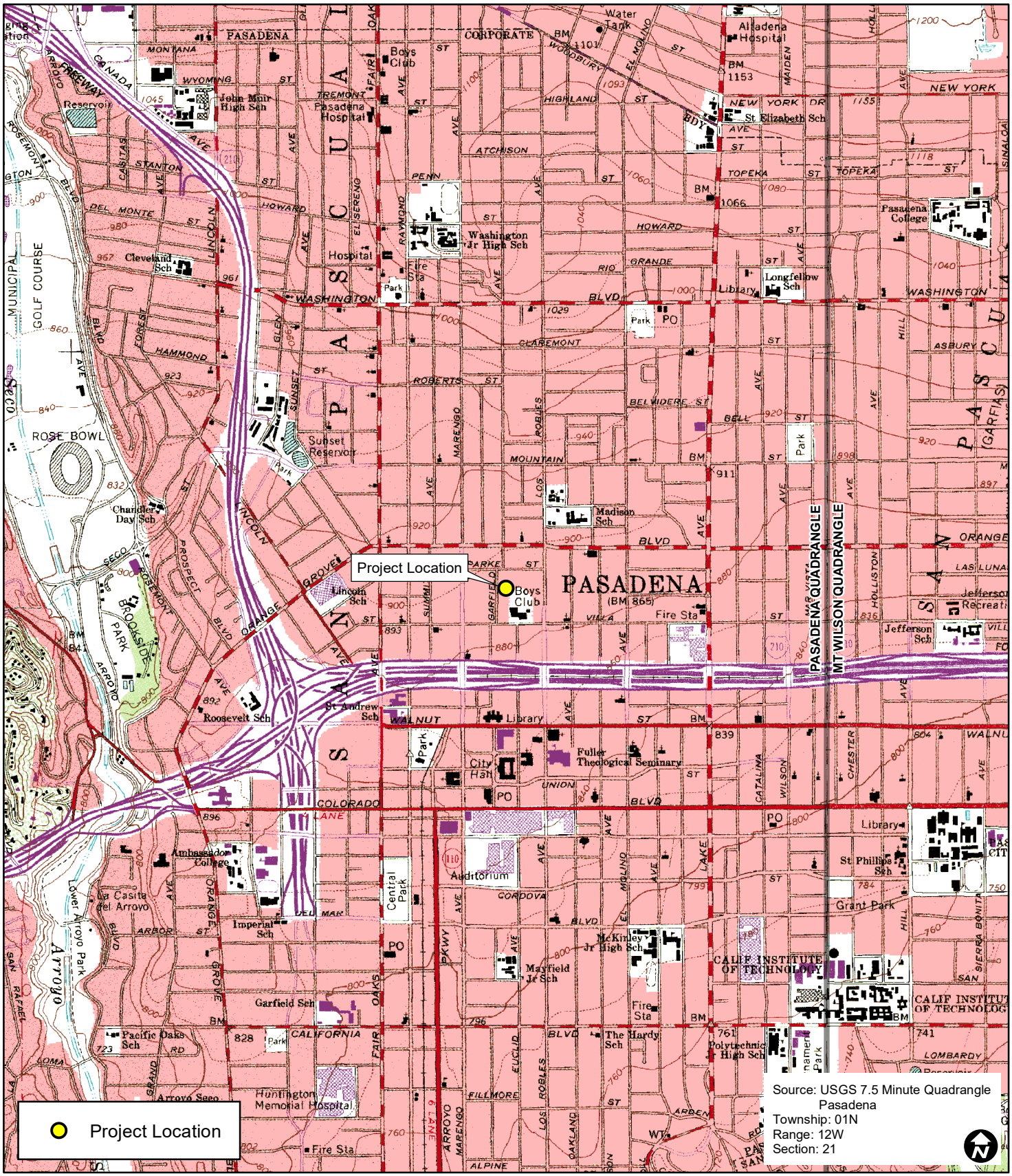
State of California -- The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

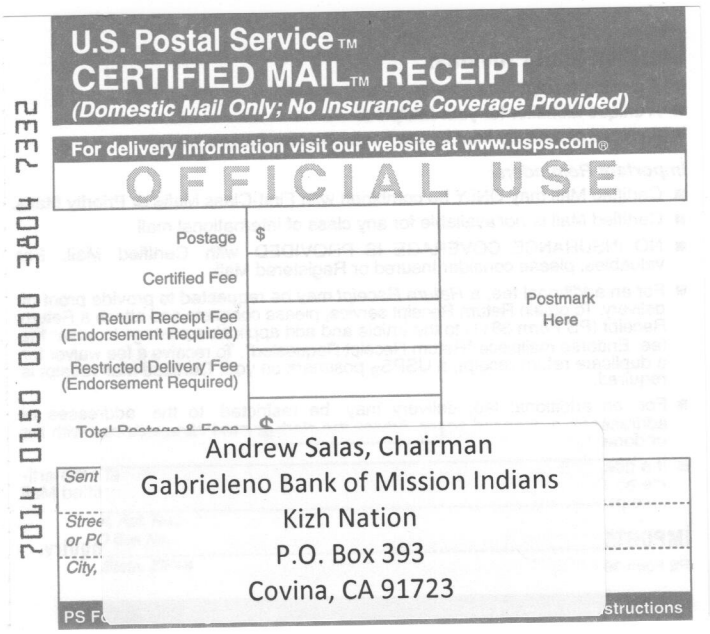
Primary #
HRI #
Trinomial

*Resource Name or #: _____

*Map Name: Pasadena *Scale: 1:24,000 *Date of Map: Digital 2014



*Required Information



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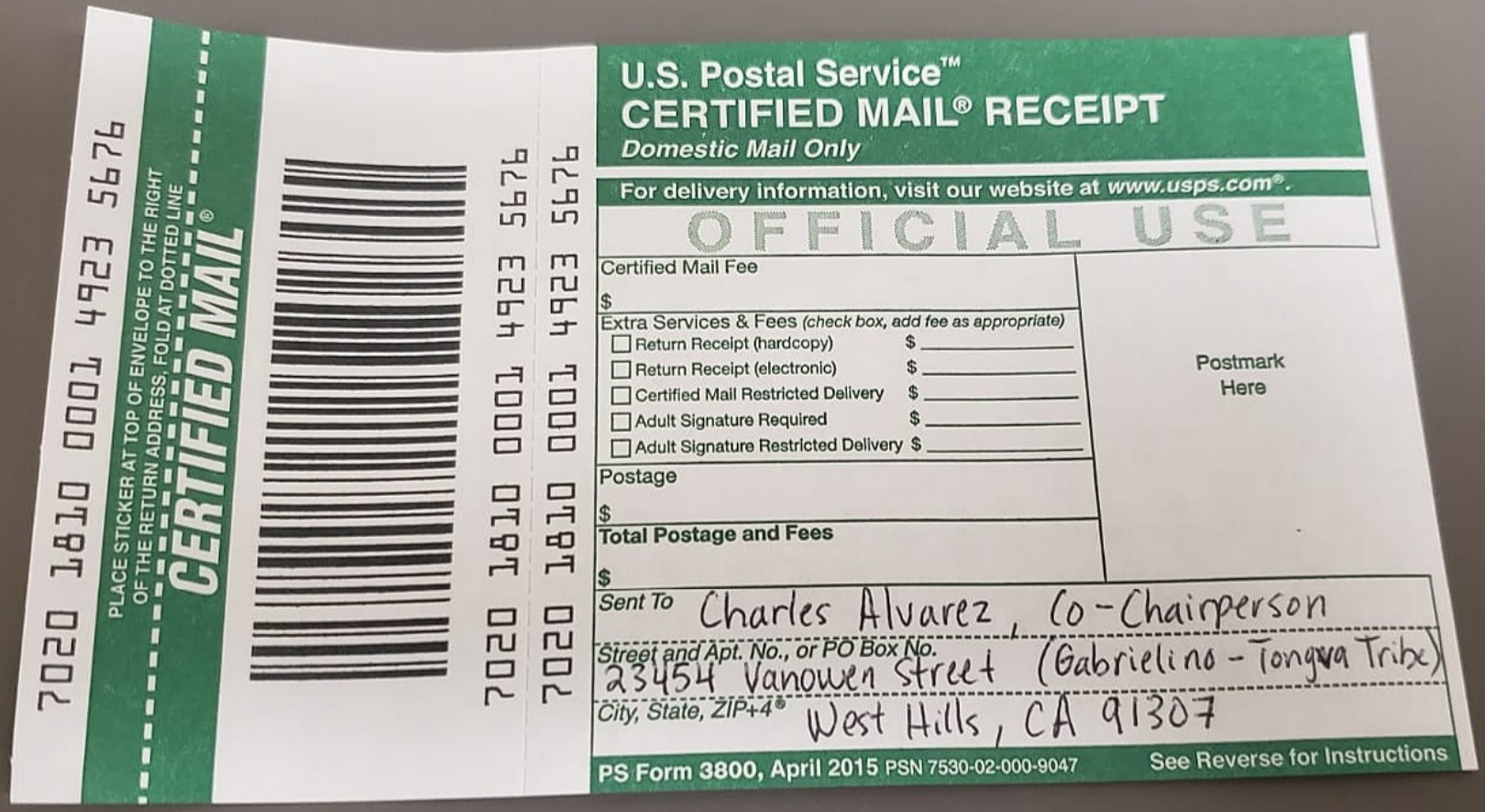
Andrew Salas, Chairman
Gabrieleno Bank of Mission Indians
Kizh Nation
P.O. Box 393
Covina, CA 91723



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Sent To Charles Alvarez, Co-Chairperson

Street and Apt. No., or PO Box No. 23454 Vanowen Street (Gabrielino-Tongva Tribe)

City, State, ZIP+4® West Hills, CA 91307

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

APPENDIX D

ENERGY DATA

Energy Use Summary

Construction Phase (gallons/construction period	Gasoline	Diesel
Construction Vehicles	0	6,119
Worker Trips	392	2
Vendor Trips	101	1
Haul Trucks	0	177
Total	**493**	**6,299**

Operations Phase (gallons/year)		Gasoline	Diesel	Natural Gas (kBTU/yr)	Electricity (kWh/yr)
	0	0	0	0	2,300
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
All Land Uses		0	0	0	2,300

Offroad Construction Equipment Energy Use

PhaseName	OffRoadEquipmentType	OffRoadEquipmentUnitAmount	UsageHours	HorsePower	Load Factor	Horsepower Category	Num Days	Year	Fuel Consumption Rate (gal/hour)		Fuel Type	Total Fuel Consumption (gal/construction period)	
Site Preparation	Cranes	1	8	231	0.29	300	12	2021	3.3		Diesel	92	
Site Preparation	Excavators	0	8	158	0.38	175	12	2021	2.9		Diesel	0	
Site Preparation	Graders	0	8	187	0.41	175	12	2021	3.1		Diesel	0	
Site Preparation	Off-Highway Trucks	0	8	402	0.38	300	12	2021	4.2		Diesel	0	
Site Preparation	Rough Terrain Forklifts	1	8	100	0.4	100	12	2021	0.9		Diesel	33	
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37	100	12	2021	1.6		Diesel	56	
Well Drilling 1	Air Compressors	1	24	78	0.48	100	14	2021	1.3		Diesel	214	
Well Drilling 1	Bore/Drill Rigs	1	24	221	0.5	100	14	2021	2.2		Diesel	363	
Well Drilling 1	Excavators	0	24	158	0.38	175	14	2021	2.9		Diesel	0	
Well Drilling 1	Off-Highway Trucks	1	12	402	0.38	300	14	2021	4.2		Diesel	265	
Well Drilling 1	Pumps	2	24	84	0.74	100	14	2021	1.3		Diesel	667	
Well Drilling 1	Rough Terrain Forklifts	1	12	100	0.4	100	14	2021	0.9		Diesel	58	
Well Drilling 2	Air Compressors	1	24	78	0.48	100	7	2021	1.3		Diesel	107	
Well Drilling 2	Bore/Drill Rigs	1	24	221	0.5	100	7	2021	2.2		Diesel	181	
Well Drilling 2	Excavators	0	24	158	0.38	175	7	2021	2.9		Diesel	0	
Well Drilling 2	Off-Highway Trucks	1	12	402	0.38	300	7	2021	4.2		Diesel	133	
Well Drilling 2	Pumps	2	24	84	0.74	100	7	2021	1.3		Diesel	333	
Well Drilling 2	Rough Terrain Forklifts	1	12	100	0.4	100	7	2021	0.9		Diesel	29	
Well Construction	Bore/Drill Rigs	1	24	221	0.5	100	5	2021	2.2		Diesel	130	
Well Construction	Pumps	2	24	84	0.74	100	5	2021	1.3		Diesel	238	
Well Construction	Tractors/Loaders/Backhoes	1	24	97	0.37	100	5	2021	1.6		Diesel	71	
Well Development	Air Compressors	1	24	78	0.48	100	5	2021	1.3		Diesel	76	
Well Development	Bore/Drill Rigs	1	24	221	0.5	100	5	2021	2.2		Diesel	130	
Well Development	Off-Highway Trucks	1	12	402	0.38	300	5	2021	4.2		Diesel	95	
Well Development	Pumps	2	24	84	0.74	100	5	2021	1.3		Diesel	238	
Well Testing and Sampling	Off-Highway Trucks	1	8	402	0.38	300	5	2021	4.2		Diesel	63	
Well Testing and Sampling	Pumps	2	8	84	0.74	100	5	2021	1.3		Diesel	79	
Demobilization	Cranes	1	8	231	0.29	300	6	2021	3.3		Diesel	46	
Demobilization	Excavators	0	8	158	0.38	175	6	2021	2.9		Diesel	0	
Demobilization	Forklifts	0	6	89	0.2	100	6	2021	2.0		Diesel	0	
Demobilization	Rough Terrain Forklifts	1	8	100	0.4	100	6	2021	0.9		Diesel	16	
Demobilization	Tractors/Loaders/Backhoes	0	8	97	0.37	100	6	2021	1.6		Diesel	0	
Site Restoration and Cleanup	Cranes	1	8	231	0.29	300	12	2021	3.3		Diesel	92	
Site Restoration and Cleanup	Excavators	0	8	158	0.38	175	12	2021	2.9		Diesel	0	
Site Restoration and Cleanup	Forklifts	0	6	89	0.2	100	12	2021	2.0		Diesel	0	
Site Restoration and Cleanup	Off-Highway Trucks	2	8	402	0.38	300	12	2021	4.2		Diesel	303	
Site Restoration and Cleanup	Rough Terrain Forklifts	1	8	100	0.4	100	12	2021	0.9		Diesel	33	
Site Restoration and Cleanup	Tractors/Loaders/Backhoes	1	8	97	0.37	100	12	2021	1.6		Diesel	56	
Above Grade Improvements	Cranes	1	8	231	0.29	300	156	2021	3.3		Diesel	1,190	
Above Grade Improvements	Forklifts	0	6	89	0.2	100	156	2021	2.0		Diesel	0	
Above Grade Improvements	Tractors/Loaders/Backhoes	1	8	97	0.37	100	156	2021	1.6		Diesel	734	
										Total	**Gasoline**		**-**
										Total	**Diesel**		**6,119**

Onroad Construction Energy Use

Year 2021

Vehicle Types	MPG by Fuel Type			Population by Fuel Type			
	GAS	DSL	ELEC	GAS	DSL	ELEC	Total
LDA	30.0	47.5		6,444,755	55,086	107,407	6,499,841
LDT1	25.8	22.3		715,053	416	3,766	715,469
LDT2	23.8	34.7		2,207,489	12,809	17,083	2,220,298
LHDT1	10.4	21.2		176,982	113,082		290,064
LHDT2	9.1	19.2		29,883	44,616		74,500
MCY	36.4			286,161			286,161
MDV	19.4	26.6		1,569,538	30,444	7,447	1,599,981
MH	5.1	10.5		35,587	12,386		47,973
MHDT	5.0	10.4		25,313	122,609		147,922
HHDT	4.0	6.6		82	106,417		106,499
OBUS	5.0	8.2		5,971	4,250		10,222
SBUS	9.1	7.5		2,479	6,589		9,067
UBUS	4.8	6.0		944	14	17	958

Input							**Gasoline Consumption**			**Diesel Consumption**		
Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker	Vendor	Haul	Worker	Vendor	Haul
Site Preparation	8	6	0	14.7	6.9	20						
Well Drilling 1	18	6	16	14.7	6.9	20						
Well Drilling 2	18	6	0	14.7	6.9	20						
Well Construction	10	6	13	14.7	6.9	20						
Well Development	15	6	29	14.7	6.9	20						
Well Testing and Sampling	8	6	0	14.7	6.9	20						
Adjusted												
Site Preparation	96	72	0	14.7	6.9	20	59	25	0	0	0	0
Well Drilling 1	252	84	16	14.7	6.9	20	155	29	0	1	0	49
Well Drilling 2	126	42	0	14.7	6.9	20	77	15	0	0	0	0
Well Construction	50	30	13	14.7	6.9	20	31	10	0	0	0	40
Well Development	75	30	29	14.7	6.9	20	46	10	0	0	0	88
Well Testing and Sampling	40	30	0	14.7	6.9	20	25	10	0	0	0	0
Total							**392**	**101**	**0**	**2**	**1**	**177**

APPENDIX E

PALEONTOLOGICAL RECORDS SEARCH

Natural History Museum
of Los Angeles County
900 Exposition Boulevard
Los Angeles, CA 90007

tel 213.763.DINO
www.nhm.org

Research & Collections

e-mail: paleorecords@nhm.org

December 16, 2020

PSOMAS
Attn: Kassie Sugimoto
re: Paleontological resources for the Garfield Replacement Well 3PAS013400 Project

Dear Kassie:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for proposed development at the Garfield Replacement Well project area as outlined on the portion of the Pasadena USGS topographic quadrangle map that you sent to me via e-mail on December 8, 2020. We do not have any fossil localities that lie directly within the proposed project area, but we do have fossil localities nearby from the same sedimentary deposits that occur in the proposed project area, either at the surface or at depth.

The following table shows the closest known localities in the collection of the Natural History Museum of Los Angeles County.

Locality Number	Location	Formation	Taxa	Depth
LACM VPCIT 424	Near intersection of Burleigh Rd and Avenue 64	Topanga Formation	Fish (Osteichthyes)	Unknown
LACM IP 24835, 23222	on Fair Oaks Ave; north of the intersection of Fair Oaks and the Arroyo Seco Freeway	Unknown formation (Pliocene)	Invertebrates	Surface, along bluff next to sidewalk
LACM VP 1023	Workman & Alhambra Sts in Los Angeles	Unknown Formation (Pleistocene)	Birds (Aves)	Unknown (excavations for storm drains)
LACM VP 2032	Los Angeles Brickyard Mission Rd. & Daly St.	Unknown Formation (Pleistocene, silt & clay)	Mastodon (*Mammut*)	20-35 ft bgs
LACM VP 3363	W of Monterey Pass Road in Coyote Pass; E of the Long Beach Freeway & S of the N boundary of Section 32	Unknown Formation (Pleistocene; sand and silt)	Horse (*Equus*)	Unknown

VP, Vertebrate Paleontology; IP, Invertebrate Paleontology; bgs, below ground surface

This records search covers only the records of the Natural History Museum of Los Angeles County ("NHMLA"). It is not intended as a paleontological assessment of the project

area for the purposes of CEQA or NEPA. Potentially fossil-bearing units are present in the project area, either at the surface or in the subsurface. As such, NHMLA recommends that a full paleontological assessment of the project area be conducted by a paleontologist meeting Bureau of Land Management or Society of Vertebrate Paleontology standards.

Sincerely,

Alyssa Bell, Ph.D.
Natural History Museum of Los Angeles County

enclosure: invoice

APPENDIX F

ENVIRONMENTAL DATA RESOURCES REPORT

Garfield Replacement Well
552 Garfield Avenue
Pasadena, CA 91101

Inquiry Number: 6303008.2s
December 15, 2020

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

552 GARFIELD AVENUE
PASADENA, CA 91101

COORDINATES

Latitude (North):	34.1557310 - 34° 9' 20.63''
Longitude (West):	118.1434160 - 118° 8' 36.29''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	394596.1
UTM Y (Meters):	3779819.0
Elevation:	894 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5636829 PASADENA, CA
Version Date:	2012
Northeast Map:	5636853 MOUNT WILSON, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140515
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
552 GARFIELD AVENUE
PASADENA, CA 91101

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	ENTERPRISE CLEANERS	316 E ORANGE GROVE B	EDR Hist Cleaner	Higher	535, 0.101, NNW
A2	ENTER. CLEANERS	316 E ORANGE GROVE B	DRYCLEANERS	Higher	535, 0.101, NNW
A3	ENTERPRISE CLEANERS	316 E ORANGEGROVE	RCRA-SQG, FINDS, ECHO, EMI	Higher	535, 0.101, NNW
A4	J F CLEANERS	340 E ORANGE GROVE	EDR Hist Cleaner	Higher	546, 0.103, North
A5	SANI WASH	332 E ORANGE GROVE	EDR Hist Cleaner	Higher	546, 0.103, North
B6	NEW CINGULAR WIRELES	386 E ORANGE GROVE B	RCRA NonGen / NLR	Higher	567, 0.107, NNE
B7	GAUNT J A	392 E ORANGE GROVE	EDR Hist Auto	Higher	584, 0.111, NNE
A8	HORTUS	284 E ORANGE GROVE B	RCRA-SQG	Higher	587, 0.111, NNW
C9	LOS ROBLES CLEANERS	491 N LOS ROBLES A	EDR Hist Cleaner	Lower	645, 0.122, SE
A10	ATESHIAN A M	313 E ORANGE GROVE	EDR Hist Cleaner	Higher	652, 0.123, NNW
B11	NEW ERA CLEANERS	408 E ORANGE GROVE B	RCRA-SQG, CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	721, 0.137, NE
B12	NEW ERA CLEANERS	408 E ORANGE GROVE B	DRYCLEANERS	Higher	721, 0.137, NE
B13	NEW ERA CLEANERS & L	408 E ORANGE GROVE B	DRYCLEANERS	Higher	721, 0.137, NE
D14	JOSEPH LOGSDON	230 E ORANGE GROVE B	SWEEPS UST, LOS ANGELES CO. HMS	Higher	772, 0.146, NW
C15	WESTERN DENTAL SERVI	470 N LOS ROBLES	RCRA NonGen / NLR	Lower	807, 0.153, SE
D16	ARCO #1073	208 ORANGE GROVE BLV	LUST, Cortese, HIST CORTESE, CERS	Higher	926, 0.175, NW
D17	MCNALL, LEE	201 E. ORANGE GROVE	RCRA NonGen / NLR	Higher	927, 0.176, NW
18	99 CENTS ONLY STORES	442 N LOS ROBLES AVE	CERS HAZ WASTE, CERS	Lower	942, 0.178, SE
D19	ARCO FACILITY #1073	208 E. ORANGE GROVE	UST	Higher	945, 0.179, NW
D20	ARCO PRODUCTS #01073	208 E ORANGE GROVE B	SWEEPS UST, LOS ANGELES CO. HMS	Higher	945, 0.179, NW
D21	TAE HO CHOI	208 E ORANGE GROVE	HIST UST	Higher	945, 0.179, NW
E22	YOUTH MOVING ON C/O	650 N OAKLAND AVE	RCRA NonGen / NLR	Higher	1057, 0.200, ENE
E23	YOUTH MOVING ON NON	650 N OAKLAND AVE	RCRA NonGen / NLR	Higher	1057, 0.200, ENE
E24	YOUTH MOVING ON	650 N OAKLAND AVE	RCRA NonGen / NLR	Higher	1057, 0.200, ENE
E25	YOUTH MOVING ON	650 N. OAKLAND AVE	RCRA NonGen / NLR	Higher	1057, 0.200, ENE
26	PASADENA LAWNMOWERS	170 E ORANGE GROVE B	RCRA NonGen / NLR	Higher	1109, 0.210, WNW
27	LUIS MARQUEZ	501 N. SUMMIT AVENUE	RCRA NonGen / NLR	Higher	1215, 0.230, WSW
F28	KAISER PERMANENTE	393 WALNUT ST	LUST, Cortese, CERS	Lower	2047, 0.388, South
F29	KAISER PERMANENTE	393 WALNUT ST	LUST	Lower	2047, 0.388, South
30	ARCO #614	445 WALNUT ST E	LUST, Cortese, HIST CORTESE, CERS	Lower	2079, 0.394, SSE
31	SOUTH PASADENA CITY	200 NORTH GARFIELD	WMUDS/SWAT	Lower	2315, 0.438, South
32	ELECTRO CIRCUITS, IN	401 EAST GREEN STREE	FUSRAP	Lower	3865, 0.732, South
G33	CALIFORNIA INSTITUTE		FUDS	Lower	5064, 0.959, SE
G34	CALIFORNIA INSTITUTE		ENVIROSTOR	Lower	5084, 0.963, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROLS Institutional Controls Sites List

Federal ERNS list

ERNS Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST Leaking Underground Storage Tanks on Indian Land
CPS-SLIC Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST Underground Storage Tank Listing
AST Aboveground Petroleum Storage Tank Facilities
INDIAN UST Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP Voluntary Cleanup Priority Listing
VCP Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY Recycler Database
HAULERS Registered Waste Tire Haulers Listing
INDIAN ODI Report on the Status of Open Dumps on Indian Lands
ODI Open Dump Inventory
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL Delisted National Clandestine Laboratory Register
AOCONCERN Key Areas of Concerns in Los Angeles County
HIST Cal-Sites Historical Calsites Database

SCH ..... School Property Evaluation Program
CDL ..... Clandestine Drug Labs
Toxic Pits ..... Toxic Pits Cleanup Act Sites
US CDL ..... National Clandestine Laboratory Register
PFAS ..... PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

CERS TANKS ..... California Environmental Reporting System (CERS) Tanks
CA FID UST ..... Facility Inventory Database

Local Land Records

LIENS ..... Environmental Liens Listing
LIENS 2 ..... CERCLA Lien Information
DEED ..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
CHMIRS ..... California Hazardous Material Incident Report System
LDS ..... Land Disposal Sites Listing
MCS ..... Military Cleanup Sites Listing
SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PRP ..... Potentially Responsible Parties
PADS ..... PCB Activity Database System
ICIS ..... Integrated Compliance Information System
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ..... Material Licensing Tracking System
COAL ASH DOE ..... Steam-Electric Plant Operation Data
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ..... PCB Transformer Registration Database
RADINFO ..... Radiation Information Database
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ..... Incident and Accident Data
CONSENT ..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV ..... Indian Reservations
UMTRA ..... Uranium Mill Tailings Sites
LEAD SMELTERS ..... Lead Smelter Sites
US AIRS ..... Aerometric Information Retrieval System Facility Subsystem

US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CUPA Listings	CUPA Resources List
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
LOS ANGELES CO. HMS	HMS: Street Number List
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
LA Co. Site Mitigation	Site Mitigation List
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
CIWQS	California Integrated Water Quality System
CERS	CERS
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)
MINES MRDS	Mineral Resources Data System
HWTS	Hazardous Waste Tracking System
LOS ANGELES CO LF METHANE	Methane Producing Landfills

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/15/2020 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ENTERPRISE CLEANERS EPA ID:: CAD981614134	***316 E ORANGEGROVE***	***NNW 0 - 1/8 (0.101 mi.)***	***A3***	***10***
HORTUS EPA ID:: CAP000033316	284 E ORANGE GROVE B	NNW 0 - 1/8 (0.111 mi.)	A8	17
NEW ERA CLEANERS EPA ID:: CAR000162131	***408 E ORANGE GROVE B***	***NE 1/8 - 1/4 (0.137 mi.)***	***B11***	***20***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 07/27/2020 has revealed that there is

1 ENVIROSTOR site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA INSTITUTE Facility Id: 80000987 Status: Inactive - Needs Evaluation		SE 1/2 - 1 (0.963 mi.)	G34	89

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 4 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO #1073 Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 09/08/2020 Status: Completed - Case Closed Facility Id: 911030016 Status: Remediation Plan Global Id: T0603702022 Global ID: T0603702022	***208 ORANGE GROVE BLV***	***NW 1/8 - 1/4 (0.175 mi.)***	***D16***	***51***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAISER PERMANENTE Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: 911010025 Status: Remediation Plan Global ID: T0603702020	***393 WALNUT ST***	***S 1/4 - 1/2 (0.388 mi.)***	***F28***	***78***
KAISER PERMANENTE Database: LUST, Date of Government Version: 09/08/2020 Status: Completed - Case Closed Global Id: T0603702020	393 WALNUT ST	S 1/4 - 1/2 (0.388 mi.)	F29	80
ARCO #614 Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 09/08/2020 Status: Completed - Case Closed Facility Id: 911010034 Status: Remedial action (cleanup) Underway Global Id: T0603702021 Global ID: T0603702021	***445 WALNUT ST E***	***SSE 1/4 - 1/2 (0.394 mi.)***	***30***	***84***

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO FACILITY #1073 Database: UST, Date of Government Version: 09/08/2020 Facility Id: 19-080-000349	208 E. ORANGE GROVE	NW 1/8 - 1/4 (0.179 mi.)	D19	59

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is 1 WMUDS/SWAT site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SOUTH PASADENA CITY	200 NORTH GARFIELD	S 1/4 - 1/2 (0.438 mi.)	31	87

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 07/20/2020 has revealed that there are 2 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEW ERA CLEANERS	***408 E ORANGE GROVE B***	***NE 1/8 - 1/4 (0.137 mi.)***	***B11***	***20***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
99 CENTS ONLY STORES	***442 N LOS ROBLES AVE***	***SE 1/8 - 1/4 (0.178 mi.)***	***18***	***57***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JOSEPH LOGSDON Status: A Comp Number: 14906	***230 E ORANGE GROVE B***	***NW 1/8 - 1/4 (0.146 mi.)***	***D14***	***47***
ARCO PRODUCTS #01073 Status: A Tank Status: A Comp Number: 12049	***208 E ORANGE GROVE B***	***NW 1/8 - 1/4 (0.179 mi.)***	***D20***	***60***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TAE HO CHOI Facility Id: 00000026548	208 E ORANGE GROVE	NW 1/8 - 1/4 (0.179 mi.)	D21	62

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/15/2020 has revealed that there are 9 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEW CINGULAR WIRELES EPA ID:: CAL000444931	386 E ORANGE GROVE B	NNE 0 - 1/8 (0.107 mi.)	B6	14
MCNALL, LEE EPA ID:: CAC002998400	201 E. ORANGE GROVE	NW 1/8 - 1/4 (0.176 mi.)	D17	54
YOUTH MOVING ON C/O EPA ID:: CAC003032690	650 N OAKLAND AVE	ENE 1/8 - 1/4 (0.200 mi.)	E22	63
YOUTH MOVING ON NON EPA ID:: CAC002985743	650 N OAKLAND AVE	ENE 1/8 - 1/4 (0.200 mi.)	E23	66
YOUTH MOVING ON	650 N OAKLAND AVE	ENE 1/8 - 1/4 (0.200 mi.)	E24	68

EPA ID:: CAC003032286				
YOUTH MOVING ON EPA ID:: CAC002996877	650 N. OAKLAND AVE	ENE 1/8 - 1/4 (0.200 mi.)	E25	71
PASADENA LAWNMOWERS EPA ID:: CAL000447525	170 E ORANGE GROVE B	WNW 1/8 - 1/4 (0.210 mi.)	26	73
LUIS MARQUEZ EPA ID:: CAC002996508	501 N. SUMMIT AVENUE	WSW 1/8 - 1/4 (0.230 mi.)	27	76

Lower Elevation	Address	Direction / Distance	Map ID	Page
WESTERN DENTAL SERVI EPA ID:: CAL000149170	470 N LOS ROBLES	SE 1/8 - 1/4 (0.153 mi.)	C15	48

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 08/05/2020 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA INSTITUTE		SE 1/2 - 1 (0.959 mi.)	G33	89

FUSRAP: DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

A review of the FUSRAP list, as provided by EDR, and dated 08/08/2017 has revealed that there is 1 FUSRAP site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ELECTRO CIRCUITS, IN Site Status: Eliminated from consideration under FUSRAP Site ID: CA.08	401 EAST GREEN STREE	S 1/2 - 1 (0.732 mi.)	32	88

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 06/22/2020 has revealed that there are 3 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO #1073 Cleanup Status: COMPLETED - CASE CLOSED	***208 ORANGE GROVE BLV***	***NW 1/8 - 1/4 (0.175 mi.)***	***D16***	***51***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAISER PERMANENTE Cleanup Status: COMPLETED - CASE CLOSED	***393 WALNUT ST***	***S 1/4 - 1/2 (0.388 mi.)***	***F28***	***78***
ARCO #614	***445 WALNUT ST E***	***SSE 1/4 - 1/2 (0.394 mi.)***	***30***	***84***

Cleanup Status: COMPLETED - CASE CLOSED

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there are 3 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ENTER. CLEANERS	316 E ORANGE GROVE B	NNW 0 - 1/8 (0.101 mi.)	A2	9
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 08/19/2020				
NEW ERA CLEANERS	408 E ORANGE GROVE B	NE 1/8 - 1/4 (0.137 mi.)	B12	43
Database: DRYCLEANERS, Date of Government Version: 08/06/2020				
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 08/19/2020				
EPA Id: CAD054847520				
EPA Id: CAR000162131				
NEW ERA CLEANERS & L	408 E ORANGE GROVE B	NE 1/8 - 1/4 (0.137 mi.)	B13	47
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 08/19/2020				

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO #1073	***208 ORANGE GROVE BLV***	***NW 1/8 - 1/4 (0.175 mi.)***	***D16***	***51***
Reg Id: 911030016				

Lower Elevation	Address	Direction / Distance	Map ID	Page
ARCO #614	***445 WALNUT ST E***	***SSE 1/4 - 1/2 (0.394 mi.)***	***30***	***84***
Reg Id: 911010034				

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station,

service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GAUNT J A	392 E ORANGE GROVE	NNE 0 - 1/8 (0.111 mi.)	B7	17

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 5 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

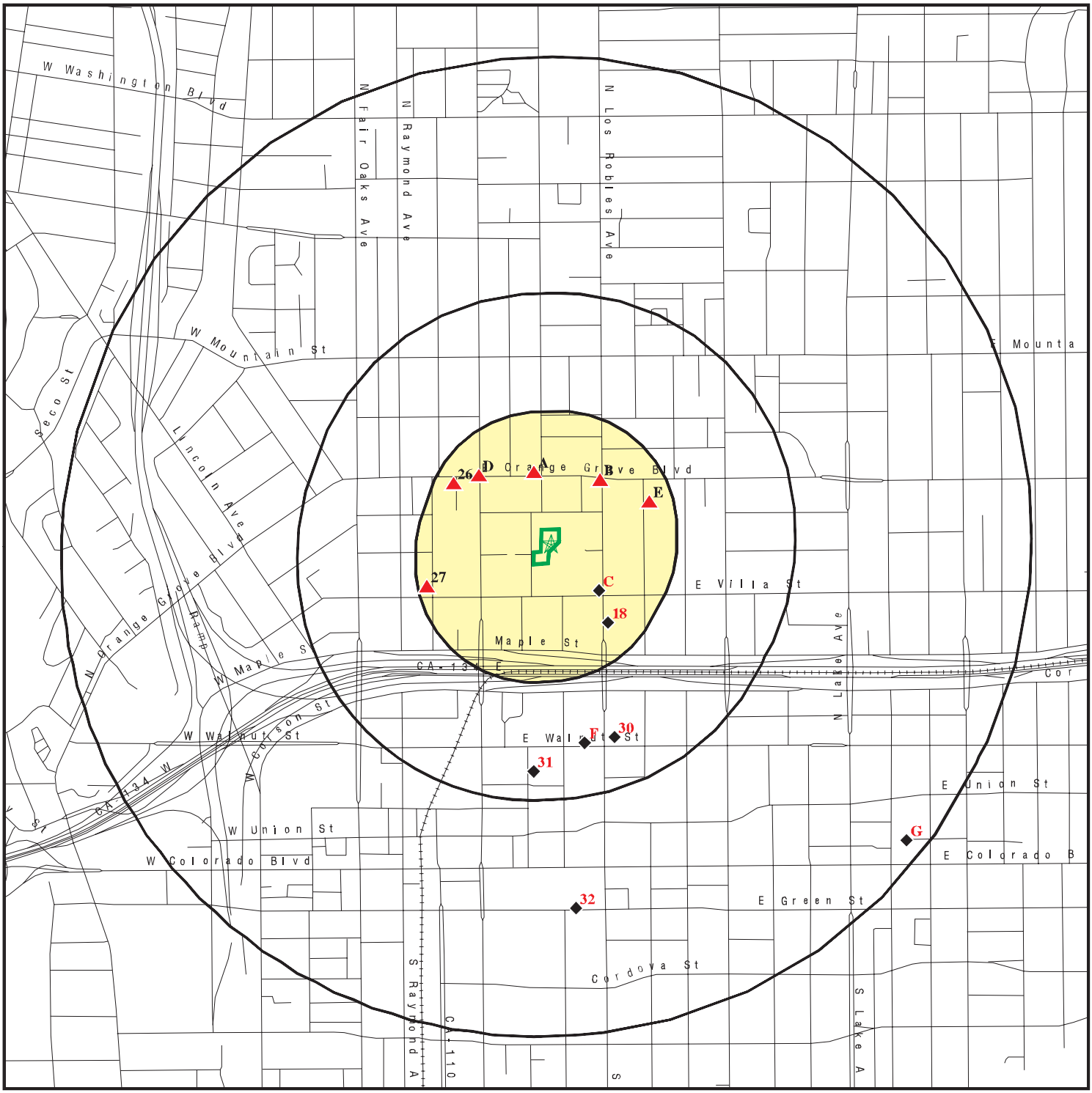
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ENTERPRISE CLEANERS	316 E ORANGE GROVE B	NNW 0 - 1/8 (0.101 mi.)	A1	9
J F CLEANERS	340 E ORANGE GROVE	N 0 - 1/8 (0.103 mi.)	A4	13
SANI WASH	332 E ORANGE GROVE	N 0 - 1/8 (0.103 mi.)	A5	14
ATESHIAN A M	313 E ORANGE GROVE	NNW 0 - 1/8 (0.123 mi.)	A10	19

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOS ROBLES CLEANERS	491 N LOS ROBLES A	SE 0 - 1/8 (0.122 mi.)	C9	19

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 6303008.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Garfield Replacement Well	CLIENT:	Psomas
ADDRESS:	552 Garfield Avenue Pasadena CA 91101	CONTACT:	Daria Sarraf
		INQUIRY #:	6303008.2s
LAT/LONG:	34.155731 / 118.143416	DATE:	December 15, 2020 6:56 pm

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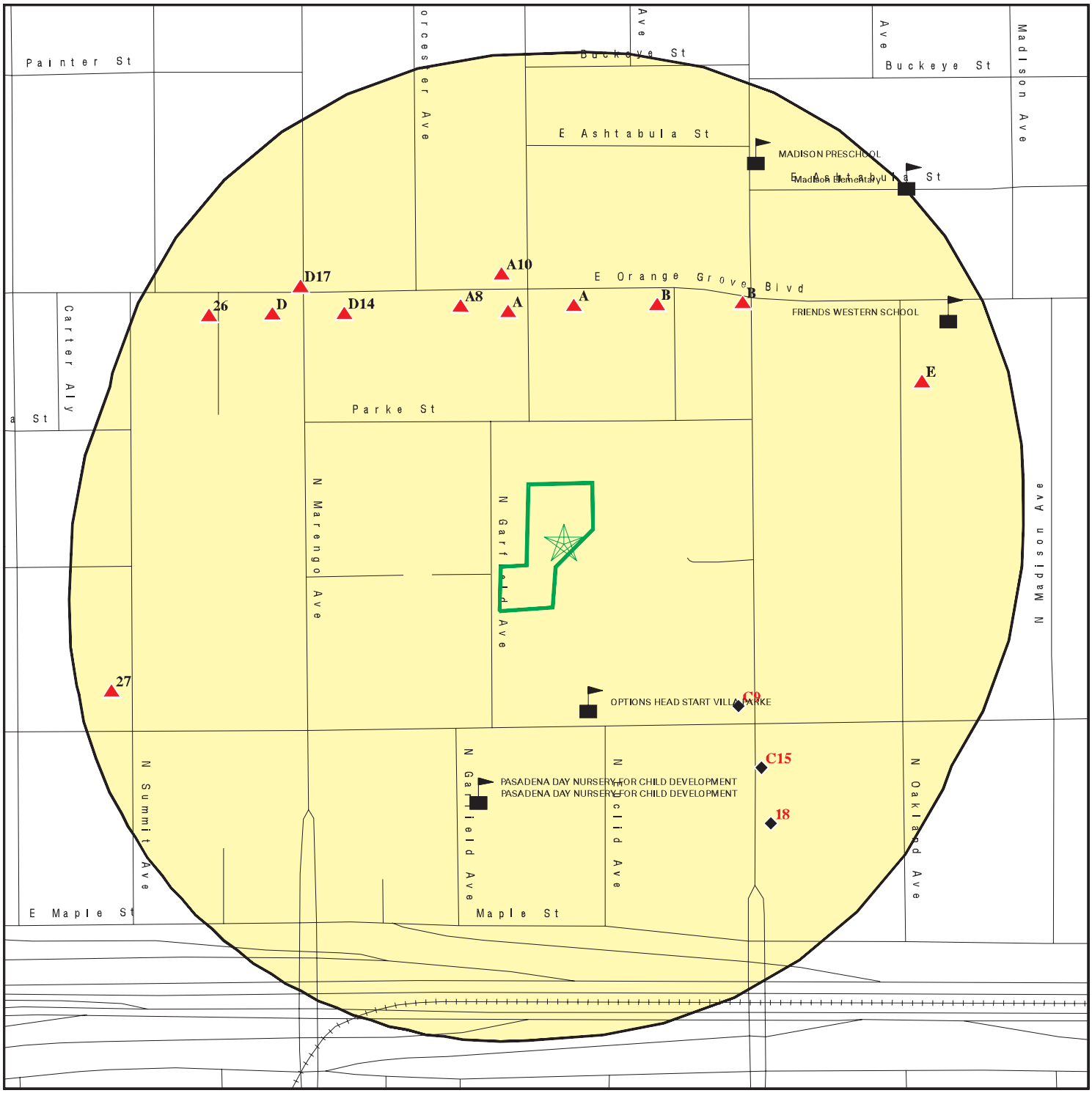
DETAIL MAP - 6303008.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Garfield Replacement Well	CLIENT: Psomas
ADDRESS: 552 Garfield Avenue Pasadena CA 91101	CONTACT: Daria Sarraf INQUIRY #: 6303008.2s
LAT/LONG: 34.155731 / 118.143416	DATE: December 15, 2020 6:57 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		2	1	NR	NR	NR	3
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	1	NR	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	1	3	NR	NR	4

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	1	NR	NR	1
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
AOCONCERN	1.000		0	0	0	0	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	2	NR	NR	NR	2
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	2	NR	NR	NR	2
HIST UST	0.250		0	1	NR	NR	NR	1
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	8	NR	NR	NR	9
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	1	NR	1
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	1	2	NR	NR	3
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		1	2	NR	NR	NR	3
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	1	1	NR	NR	2
LOS ANGELES CO. HMS	0.001		0	NR	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
LOS ANGELES CO LF METHANE	0.500		0	0	0	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		5	NR	NR	NR	NR	5
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	10	20	7	3	0	40

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **ENTERPRISE CLEANERS** **EDR Hist Cleaner** **1009126903**
NNW **316 E ORANGE GROVE BLVD** **N/A**
< 1/8 **PASADENA, CA 91100**
0.101 mi.
535 ft. **Site 1 of 7 in cluster A**

Relative: EDR Hist Cleaner
Higher

Actual: **904 ft.**

Year:	Name:	Type:
1961	ENTERPRISE CLEANERS	CLEANERS AND DYERS
1961	ENTERPRISE CLEANERS	CLEANERS AND DYERS
1970	ENTERPRISE CLEANERS	Not reported
1971	ENTERPRISE CLEANERS	CLEANERS AND DYERS
1976	ENTERPRISE CLEANERS	CLEANERS AND DYERS
1976	ENTERPRISE CLEANERS	CLEANERS AND DYERS
1976	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1977	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1978	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1979	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1980	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1982	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1983	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1985	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1986	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1987	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1988	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1989	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1990	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1991	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1992	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs
1993	ENTERPRISE CLEANERS	Drycleaning Plants, Except Rugs

A2 **ENTER. CLEANERS** **DRYCLEANERS** **S121693576**
NNW **316 E ORANGE GROVE BLVD** **N/A**
< 1/8 **PASADENA, CA 91104**
0.101 mi.
535 ft. **Site 2 of 7 in cluster A**

Relative: DRYCLEAN SOUTH COAST:
Higher

Actual: **904 ft.**

Name:	ENTER. CLEANERS
Address:	316 E ORANGE GROVE BLVD
City,State,Zip:	PASADENA, CA 91104
Facility ID:	10437
Application Number:	C40970
Permit Number:	M30613
Status:	A
Representative Name:	Not reported
Representative Telephone:	Not reported
Permit Status:	INACT_NR
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	394.6000061
UTM North:	3780

Name:	ENTER. CLEANERS
Address:	316 E ORANGE GROVE BLVD
City,State,Zip:	PASADENA, CA 91104
Facility ID:	10437

ENTER. CLEANERS (Continued) **S121693576**

Application Number:	C38363
Permit Number:	M21137
Status:	A
Representative Name:	Not reported
Representative Telephone:	Not reported
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	394.6000061
UTM North:	3780

A3 **ENTERPRISE CLEANERS** **RCRA-SQG 1000217429**
NNW **316 E ORANGEGROVE** **FINDS CAD981614134**
< 1/8 **PASADENA, CA 91104** **ECHO**
0.101 mi. **EMI**
535 ft. **Site 3 of 7 in cluster A**

Relative: **Higher**
Actual: **904 ft.**

RCRA-SQG:

Date Form Received by Agency:		1996-09-01 00:00:00.0
Handler Name:	ENTERPRISE CLEANERS	
Handler Address:		316 E ORANGEGROVE
Handler City,State,Zip:		PASADENA, CA 91104
EPA ID:		CAD981614134
Contact Name:		Not reported
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		3
Mailing Address:		E ORANGEGROVE
Mailing City,State,Zip:		PASADENA, CA 91104
Owner Name:		ALBERT C MOOREFEELD
Owner Type:		Private
Operator Name:		NOT REQUIRED
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No

ENTERPRISE CLEANERS (Continued) **1000217429**

Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2000-09-15 17:29:45.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	Not reported

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ALBERT C MOOREFEELD
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

ENTERPRISE CLEANERS (Continued) **1000217429**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1996-09-01 00:00:00.0
Handler Name: ENTERPRISE CLEANERS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002724053

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000217429

ENTERPRISE CLEANERS (Continued) **1000217429**

Registry ID:	110002724053
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002724053
Name:	ENTERPRISE CLEANERS
Address:	316 E ORANGEGROVE
City,State,Zip:	PASADENA, CA 91104

EMI:

Name:	ENTER. CLEANERS
Address:	316 E ORANGE GROVE BL
City,State,Zip:	PASADENA, CA 91104
Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	10437
Air District Name:	SC
SIC Code:	7216
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	ENTER. CLEANERS
Address:	316 E ORANGE GROVE BL
City,State,Zip:	PASADENA, CA 91104
Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	10437
Air District Name:	SC
SIC Code:	7216
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

A4 **J F CLEANERS** **EDR Hist Cleaner** **1009126923**
North **340 E ORANGE GROVE BLVD** **N/A**
< 1/8 **PASADENA, CA**
0.103 mi.
546 ft. **Site 4 of 7 in cluster A**

Relative: EDR Hist Cleaner
Higher

Actual: Year: Name: Type:
903 ft. 1970 THRIFT D LUX CLEANERS Not reported

J F CLEANERS (Continued) **1009126923**

1971	THRIFT D LUX CLEANERS	CLEANERS AND DYERS
1976	J F CLEANERS	CLEANERS AND DYERS
1976	J F CLEANERS	CLEANERS AND DYERS

A5 **SANI WASH** **EDR Hist Cleaner** **1009144679**
North **332 E ORANGE GROVE BLVD** **N/A**
< 1/8 **PASADENA, CA**
0.103 mi.
546 ft. **Site 5 of 7 in cluster A**

Relative: EDR Hist Cleaner
Higher

Actual: **903 ft.**

Year:	Name:	Type:
1971	SANI WASH	LAUNDRIES SELF SERVE
1971	SANI WASH	LAUNDRIES SELF SERVE
1976	WASHING WELL THE	LAUNDRIES SELF SERVE
1976	WASHING WELL THE	LAUNDRIES SELF SERVE

B6 **NEW CINGULAR WIRELESS PCS LLC** **RCRA NonGen / NLR** **1025871814**
NNE **386 E ORANGE GROVE BLVD** **CAL000444931**
< 1/8 **PASADENA, CA 91104**
0.107 mi.
567 ft. **Site 1 of 5 in cluster B**

Relative: RCRA NonGen / NLR:
Higher

Actual: **903 ft.**

Date Form Received by Agency:	2019-04-02 00:00:00.0
Handler Name:	NEW CINGULAR WIRELESS PCS LLC
Handler Address:	386 E ORANGE GROVE BLVD
Handler City,State,Zip:	PASADENA, CA 91104
EPA ID:	CAL000444931
Contact Name:	DERONICA LAMB
Contact Address:	308 S. AKARD ST ROOM 1700
Contact City,State,Zip:	DALLAS, TX 75202-0000
Contact Telephone:	800-566-9347
Contact Fax:	214-464-1424
Contact Email:	DR1429@ATT.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	308 S. AKARD ST. ROOM 1700
Mailing City,State,Zip:	DALLAS, TX 75202-0000
Owner Name:	NEW CINGULAR WIRELESS PCS, LLC
Owner Type:	Other
Operator Name:	DERONICA LAMB
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No

NEW CINGULAR WIRELESS PCS LLC (Continued) **1025871814**

Transfer Facility Activity:	No
Recycler Activity with Storage:	Yes
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-06-28 17:52:30.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NEW CINGULAR WIRELESS PCS, LLC
Legal Status:	Other

NEW CINGULAR WIRELESS PCS LLC (Continued) **1025871814**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	308 S. AKARD ST. ROOM 1700
Owner/Operator City,State,Zip:	DALLAS, TX 75202-0000
Owner/Operator Telephone:	800-566-9347
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DERONICA LAMB
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	308 S. AKARD ST ROOM 1700
Owner/Operator City,State,Zip:	DALLAS, TX 75202-0000
Owner/Operator Telephone:	800-566-9347
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-04-02 00:00:00.0
Handler Name:	NEW CINGULAR WIRELESS PCS LLC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	517911
NAICS Description:	TELECOMMUNICATIONS RESELLERS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

B7 **GAUNT J A** **EDR Hist Auto** **1009015013**
NNE **392 E ORANGE GROVE AV** **N/A**
< 1/8 **PASADENA, CA**
0.111 mi.
584 ft. **Site 2 of 5 in cluster B**

Relative: EDR Hist Auto
Higher

Actual: Year: Name: Type:
903 ft. 1927 GAUNT J A AUTOMOBILE REPAIRING AND SERVICE STATIONS
1932 GAUNT J A AUTOMOBILE REPAIRING
1932 GAUNT J A AUTOMOBILE REPAIRING
1937 GAUNT J A AUTOMOBILE REPAIRING

A8 **HORTUS** **RCRA-SQG** **1025878353**
NNW **284 E ORANGE GROVE BLVD** **CAP000033316**
< 1/8 **PASADENA, CA 91104**
0.111 mi.
587 ft. **Site 6 of 7 in cluster A**

Relative: RCRA-SQG:
Higher

Actual:
905 ft.

Date Form Received by Agency:		1997-10-30 00:00:00.0
Handler Name:	HORTUS	
Handler Address:		284 E ORANGE GROVE BLVD
Handler City,State,Zip:		PASADENA, CA 91104
EPA ID:		CAP000033316
Contact Name:		GARY JONES
Contact Address:		284 E ORANGE GROVE BLVD
Contact City,State,Zip:		PASADENA, CA 91104
Contact Telephone:		626-792-8255
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		284 E ORANGE GROVE BLVD
Mailing City,State,Zip:		PASADENA, CA 91104
Owner Name:		HORTUS
Owner Type:		Private
Operator Name:		Not reported
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No

HORTUS (Continued) **1025878353**

Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2002-10-22 12:10:16.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HORTUS
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	284 E ORANGE GROVE BLVD
Owner/Operator City,State,Zip:	PASADENA, CA 91104
Owner/Operator Telephone:	626-792-8255
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

HORTUS (Continued) **1025878353**

Historic Generators:
Receive Date: 1997-10-30 00:00:00.0
Handler Name: HORTUS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C9 **LOS ROBLES CLEANERS** **EDR Hist Cleaner** **1009162985**
SE **491 N LOS ROBLES AVE** **N/A**
< 1/8 **PASADENA, CA**
0.122 mi.
645 ft. **Site 1 of 2 in cluster C**

Relative: EDR Hist Cleaner
Lower

Actual:
885 ft.

Year:	Name:	Type:
1951	LOS ROBLES CLEANERS	CLEANERS AND DYERS

A10 **ATESHIAN A M** **EDR Hist Cleaner** **1009143783**
NNW **313 E ORANGE GROVE AV** **N/A**
< 1/8 **PASADENA, CA**
0.123 mi.
652 ft. **Site 7 of 7 in cluster A**

Relative: EDR Hist Cleaner
Higher

Actual:
906 ft.

Year:	Name:	Type:
1932	PERLMAN PHILIP	CLOTHES PRESSERS AND CLEANERS
1942	ATESHIAN A M	CLOTHES PRESSERS AND CLEANERS
1942	ATESHLAN A M	CLOTHES PRESSERS AND CLEANERS

B11 **NEW ERA CLEANERS** **RCRA-SQG** **1008372047**
NE **408 E ORANGE GROVE BLVD** **CERS HAZ WASTE** **CAR000162131**
1/8-1/4 **PASADENA, CA 91104** **HAZNET**
0.137 mi. **CERS**
721 ft. **Site 3 of 5 in cluster B** **HWTS**

Relative:
Higher

Actual:
901 ft.

RCRA-SQG:

Date Form Received by Agency:		2005-03-22 00:00:00.0
Handler Name:	NEW ERA CLEANERS	
Handler Address:		408 E ORANGE GROVE BLVD
Handler City,State,Zip:		PASADENA, CA 91104-4347
EPA ID:		CAR000162131
Contact Name:		YOUNG SANG JEON
Contact Address:		408 E ORANGE GROVE BLVD
Contact City,State,Zip:		PASADENA, CA 91104-4347
Contact Telephone:		626-203-2395
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		408 E ORANGE GROVE BLVD
Mailing City,State,Zip:		PASADENA, CA 91104-4347
Owner Name:		JAMES KIM
Owner Type:		Private
Operator Name:		YOUNG SANG JEON
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

NEW ERA CLEANERS (Continued) **1008372047**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2005-05-03 20:05:07.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D039
Waste Description:	TETRACHLOROETHYLENE
Waste Code:	F002
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JAMES KIM
Legal Status:	Private
Date Became Current:	1990-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	188 KENNEDY AVENUE
Owner/Operator City,State,Zip:	VENTURA, CA 93003
Owner/Operator Telephone:	Not reported

NEW ERA CLEANERS (Continued) **1008372047**

Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	YOUNG SANG JEON
Legal Status:	Private
Date Became Current:	1993-06-23 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2005-03-22 00:00:00.0
Handler Name: NEW ERA CLEANERS	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	81232
NAICS Description:	DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED)

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

CERS HAZ WASTE:

Name:	NEW ERA CLEANERS
Address:	408 E ORANGE GROVE BLVD
City,State,Zip:	PASADENA, CA 91104
Site ID:	137781
CERS ID:	10307974
CERS Description:	Hazardous Waste Generator

HAZNET:

Name:	NEW ERA CLEANERS
Address:	408 E ORANGE GROVE BLVD
Address 2:	Not reported
City,State,Zip:	PASADENA, CA 911044347

NEW ERA CLEANERS (Continued) **1008372047**

Contact:	YOUNG SANG JEON
Telephone:	6262032395
Mailing Name:	Not reported
Mailing Address:	408 E ORANGE GROVE BLVD
Year:	2008
Gepaid:	CAR000162131
TSD EPA ID:	CAD008302903
CA Waste Code:	211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.25
Year:	2008
Gepaid:	CAR000162131
TSD EPA ID:	CAD008302903
CA Waste Code:	211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	-
Tons:	Not reported
Year:	2008
Gepaid:	CAR000162131
TSD EPA ID:	CAD008302903
CA Waste Code:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	-
Tons:	Not reported
Year:	2008
Gepaid:	CAR000162131
TSD EPA ID:	CAD008302903
CA Waste Code:	741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	-
Tons:	Not reported
Year:	2008
Gepaid:	CAR000162131
TSD EPA ID:	NVR000076158
CA Waste Code:	211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method:	H020 - Solvents Recovery
Tons:	0.4587
Year:	2008
Gepaid:	CAR000162131
TSD EPA ID:	NVR000076158
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H020 - Solvents Recovery
Tons:	Not reported
Year:	2008
Gepaid:	CAR000162131
TSD EPA ID:	NVR000076158
CA Waste Code:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	H020 - Solvents Recovery

NEW ERA CLEANERS (Continued) **1008372047**

Tons: Not reported

Year: 2007
Gepaid: CAR000162131
TSD EPA ID: NVR000076158
CA Waste Code: -
Disposal Method: H020 - Solvents Recovery
Tons: Not reported

Year: 2007
Gepaid: CAR000162131
TSD EPA ID: NVR000076158
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H020 - Solvents Recovery
Tons: Not reported

Year: 2007
Gepaid: CAR000162131
TSD EPA ID: NVR000076158
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: H020 - Solvents Recovery
Tons: Not reported

Click this hyperlink while viewing on your computer to access
5 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2006
Gen EPA ID: CAR000162131

Shipment Date: 20060802
Creation Date: 11/21/2006 18:30:32
Receipt Date: 20060807
Manifest ID: 25296532
Trans EPA ID: CAR000166827
Trans Name: AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID: CAR000161836
Trans 2 Name: TECHNICHEM INC
TSDF EPA ID: NVR000076158
Trans Name: RESOLVENT INC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code: F002
Meth Code: R01 - Recycler
Quantity Tons: 0.22935
Waste Quantity: 55
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

NEW ERA CLEANERS (Continued) **1008372047**

Shipment Date:	20060802
Creation Date:	11/21/2006 18:30:32
Receipt Date:	20060807
Manifest ID:	25296532
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060802
Creation Date:	11/21/2006 18:30:32
Receipt Date:	20060807
Manifest ID:	25296532
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060802
Creation Date:	11/21/2006 18:30:32
Receipt Date:	20060807
Manifest ID:	25296532
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158

NEW ERA CLEANERS (Continued) **1008372047**

Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2007
Gen EPA ID:	CAR000162131
Shipment Date:	20071204
Creation Date:	5/15/2008 18:30:08
Receipt Date:	20071213
Manifest ID:	000272361GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	Not reported
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071204
Creation Date:	5/15/2008 18:30:08
Receipt Date:	20071213
Manifest ID:	000272361GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.

NEW ERA CLEANERS (Continued) **1008372047**

RCRA Code:	F002
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071204
Creation Date:	5/15/2008 18:30:08
Receipt Date:	20071213
Manifest ID:	000272361GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20071204
Creation Date:	5/15/2008 18:30:08
Receipt Date:	20071213
Manifest ID:	000272361GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

NEW ERA CLEANERS (Continued) **1008372047**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070713
Creation Date:	3/4/2008 18:30:28
Receipt Date:	20070719
Manifest ID:	000272801GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070713
Creation Date:	3/4/2008 18:30:28
Receipt Date:	20070719
Manifest ID:	000272801GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070713
Creation Date:	3/4/2008 18:30:28
Receipt Date:	20070719
Manifest ID:	000272801GBF
Trans EPA ID:	CAR000166827

NEW ERA CLEANERS (Continued) **1008372047**

Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070713
Creation Date:	3/4/2008 18:30:28
Receipt Date:	20070719
Manifest ID:	000272801GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	Not reported
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070110
Creation Date:	12/10/2007 18:30:18
Receipt Date:	20070111
Manifest ID:	000237508GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported

NEW ERA CLEANERS (Continued) **1008372047**

RCRA Code:	Not reported
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20070110
Creation Date:	12/10/2007 18:30:18
Receipt Date:	20070111
Manifest ID:	000237508GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2008
Gen EPA ID:	CAR000162131
Shipment Date:	20080731
Creation Date:	9/25/2008 18:30:09
Receipt Date:	20080804
Manifest ID:	000403568GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	P

NEW ERA CLEANERS (Continued) **1008372047**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080731
Creation Date:	9/25/2008 18:30:09
Receipt Date:	20080804
Manifest ID:	000403568GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080731
Creation Date:	9/25/2008 18:30:09
Receipt Date:	20080804
Manifest ID:	000403568GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	G
Additional Code 1:	D039
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080731

NEW ERA CLEANERS (Continued) **1008372047**

Creation Date:	9/25/2008 18:30:09
Receipt Date:	20080804
Manifest ID:	000403568GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008302903
Trans Name:	VEOLIA ES TECHNICAL SOLUTIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	D039
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080430
Creation Date:	10/1/2008 18:30:17
Receipt Date:	20080512
Manifest ID:	000380810GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080430
Creation Date:	10/1/2008 18:30:17
Receipt Date:	20080512
Manifest ID:	000380810GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158

NEW ERA CLEANERS (Continued) **1008372047**

Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080430
Creation Date:	10/1/2008 18:30:17
Receipt Date:	20080512
Manifest ID:	000380810GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20080430
Creation Date:	10/1/2008 18:30:17
Receipt Date:	20080512
Manifest ID:	000380810GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	Not reported
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported

NEW ERA CLEANERS (Continued) **1008372047**

Waste Quantity:	Not reported
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080219
Creation Date:	8/20/2008 18:30:25
Receipt Date:	20080228
Manifest ID:	000380552GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	Not reported
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080219
Creation Date:	8/20/2008 18:30:25
Receipt Date:	20080228
Manifest ID:	000380552GBF
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAR000161836
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

NEW ERA CLEANERS (Continued) **1008372047**

Additional Info:

Year:	2005
Gen EPA ID:	CAR000162131
Shipment Date:	20051208
Creation Date:	3/14/2007 18:30:24
Receipt Date:	20051219
Manifest ID:	24800063
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051208
Creation Date:	3/14/2007 18:30:24
Receipt Date:	20051219
Manifest ID:	24800063
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051208
Creation Date:	3/14/2007 18:30:24
Receipt Date:	20051219
Manifest ID:	24800063
Trans EPA ID:	CAR000166827

NEW ERA CLEANERS (Continued) **1008372047**

Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	R01 - Recycler
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20051208
Creation Date:	3/14/2007 18:30:24
Receipt Date:	20051219
Manifest ID:	24800063
Trans EPA ID:	CAR000166827
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20051012
Creation Date:	6/22/2006 18:31:22
Receipt Date:	20051017
Manifest ID:	24799904
Trans EPA ID:	CAR000036921
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported

NEW ERA CLEANERS (Continued) **1008372047**

RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051012
Creation Date:	6/22/2006 18:31:22
Receipt Date:	20051017
Manifest ID:	24799904
Trans EPA ID:	CAR000036921
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc.
RCRA Code:	F002
Meth Code:	R01 - Recycler
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051012
Creation Date:	6/22/2006 18:31:22
Receipt Date:	20051017
Manifest ID:	24799904
Trans EPA ID:	CAR000036921
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

NEW ERA CLEANERS (Continued) **1008372047**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051012
Creation Date:	6/22/2006 18:31:22
Receipt Date:	20051017
Manifest ID:	24799904
Trans EPA ID:	CAR000036921
Trans Name:	AMERICAN INDUSTRIAL SERVICES
Trans 2 EPA ID:	CAD981375983
Trans 2 Name:	TECHNICHEM INC
TSDF EPA ID:	NVR000076158
Trans Name:	RESOLVENT INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

CERS:

Name:	NEW ERA CLEANERS
Address:	408 E ORANGE GROVE BLVD
City,State,Zip:	PASADENA, CA 91104
Site ID:	137781
CERS ID:	10307974
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	137781
Site Name:	NEW ERA CLEANERS
Violation Date:	8/29/2014
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 01/14/2015.
Violation Division:	Pasadena Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	137781
Site Name:	NEW ERA CLEANERS
Violation Date:	8/29/2014
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 01/14/2015.

NEW ERA CLEANERS (Continued) **1008372047**

Violation Division: Pasadena Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 137781
Site Name: NEW ERA CLEANERS
Violation Date: 8/29/2014
Citation: HSC 6.95 25510(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25510(a)
Violation Description: Failure to report a release or threatened release of a hazardous material to the unified program agency and to OES.
Violation Notes: Returned to compliance on 01/14/2015.
Violation Division: Pasadena Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 137781
Site Name: NEW ERA CLEANERS
Violation Date: 8/29/2014
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 01/14/2015.
Violation Division: Pasadena Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 137781
Site Name: NEW ERA CLEANERS
Violation Date: 8/29/2014
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 01/14/2015.
Violation Division: Pasadena Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 137781
Site Name: NEW ERA CLEANERS
Violation Date: 8/29/2014
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 01/14/2015.
Violation Division: Pasadena Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 137781
Site Name: NEW ERA CLEANERS

NEW ERA CLEANERS (Continued) **1008372047**

Violation Date: 8/29/2014
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 01/14/2015.
Violation Division: Pasadena Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 137781
Site Name: NEW ERA CLEANERS
Violation Date: 8/29/2014
Citation: HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name.
Violation Notes: Returned to compliance on 01/14/2015.
Violation Division: Pasadena Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 137781
Site Name: NEW ERA CLEANERS
Violation Date: 8/29/2014
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 01/14/2015.
Violation Division: Pasadena Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Pasadena Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-10-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Lupe,employee
Eval Division: Los Angeles County Fire Department
Eval Program: HW

NEW ERA CLEANERS (Continued) **1008372047**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-24-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Itzy Vazquez, Employee
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Coordinates:
Site ID: 137781
Facility Name: NEW ERA CLEANERS
Env Int Type Code: HWG
Program ID: 10307974
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 34.157820
Longitude: -118.142050

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 408 E. Orange Grove Bl.
Affiliation City: Pasadena
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91104
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Young S. Jeon
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (626) 203-2395

Affiliation Type Desc: Document Preparer
Entity Name: ELLICE JEON
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: NEW ERA CLEANERS
Entity Title: Not reported
Affiliation Address: Not reported

NEW ERA CLEANERS (Continued) **1008372047**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Los Angeles County Fire
Entity Title:	Not reported
Affiliation Address:	5825 Rickenbacker Road
Affiliation City:	Commerce
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90040-3027
Affiliation Phone:	(323) 890-4000
Affiliation Type Desc:	Environmental Contact
Entity Name:	ellice jeon
Entity Title:	Not reported
Affiliation Address:	1844 N. Santa Anita Ave
Affiliation City:	Arcadia
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91006
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	ELLICE JEON
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Young S. Jeon
Entity Title:	Not reported
Affiliation Address:	1844 N. Santa Anita Ave.
Affiliation City:	Arcadia
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91006
Affiliation Phone:	(626) 203-2395
Affiliation Type Desc:	Property Owner
Entity Name:	New Era Cleaners LLC
Entity Title:	Not reported
Affiliation Address:	1844 N. Santa Anita Ave
Affiliation City:	Arcadia
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91006
Affiliation Phone:	(626) 533-4044

NEW ERA CLEANERS (Continued) **1008372047**

HWTS:

Name:	NEW ERA CLEANERS
Address:	408 E ORANGE GROVE BLVD
Address 2:	Not reported
City,State,Zip:	PASADENA, CA 911044347
EPA ID:	CAR000162131
Inactive Date:	Not reported
Create Date:	08/23/2005
Last Act Date:	05/02/2018
Mailing Name:	Not reported
Mailing Address:	408 E ORANGE GROVE BLVD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	PASADENA, CA 911044347
Owner Name:	YOUNG SANG JEON
Owner Address:	408 E ORANGE GROVE BLVD
Owner Address 2:	Not reported
Owner City,State,Zip:	PASADENA, CA 911044347
Contact Name:	ELLICE JEON
Contact Address:	1844 N SANTA ANITA AVE
Contact Address 2:	Not reported
City,State,Zip:	ARCADIA, CA 91006

NAICS:

EPA ID:	CAR000162131
Create Date:	2008-08-05 08:10:41.990
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
Issued EPA ID Date:	2005-08-23 15:01:35
Inactive Date:	Not reported
Facility Name:	NEW ERA CLEANERS
Facility Address:	408 E ORANGE GROVE BLVD
Facility Address 2:	Not reported
Facility City:	PASADENA
Facility County:	Not reported
Facility State:	CA
Facility Zip:	911044347

B12 **NEW ERA CLEANERS** **DRYCLEANERS** **S100940696**
NE **408 E ORANGE GROVE BLVD** **N/A**
1/8-1/4 **PASADENA, CA 91104**
0.137 mi.
721 ft. **Site 4 of 5 in cluster B**

Relative:
Higher

Actual:
901 ft.

DRYCLEAN SOUTH COAST:

Name:	NEW ERA CLEANERS
Address:	408 E ORANGE GROVE BLVD
City,State,Zip:	PASADENA, CA 91104
Facility ID:	98033
Application Number:	282829
Permit Number:	D74928
Status:	A
Representative Name:	YOUNG JEON
Representative Telephone:	626 7961707
Permit Status:	INACT_NR
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported

NEW ERA CLEANERS (Continued) **S100940696**

CCAT Description: Not reported
UTM East: 394.73498535
UTM North: 3780.0490723

Name: NEW ERA CLEANERS
Address: 408 E ORANGE GROVE BLVD
City,State,Zip: PASADENA, CA 91104
Facility ID: 98033
Application Number: 364413
Permit Number: Not reported
Status: A
Representative Name: YOUNG JEON
Representative Telephone: 626 7961707
Permit Status: Not reported
BCAT Number: 000601
BCAT Description: DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 394.73498535
UTM North: 3780.0490723

Name: NEW ERA CLEANERS
Address: 408 E ORANGE GROVE BLVD
City,State,Zip: PASADENA, CA 91104
Facility ID: 98033
Application Number: 397933
Permit Number: F49936
Status: A
Representative Name: YOUNG JEON
Representative Telephone: 626 7961707
Permit Status: INACTIVE
BCAT Number: 000603
BCAT Description: DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 394.73498535
UTM North: 3780.0490723

Name: NEW ERA CLEANERS
Address: 408 E ORANGE GROVE BLVD
City,State,Zip: PASADENA, CA 91104
Facility ID: 98033
Application Number: 397934
Permit Number: F50529
Status: A
Representative Name: YOUNG JEON
Representative Telephone: 626 7961707
Permit Status: INACT_NR
BCAT Number: 000603
BCAT Description: DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 394.73498535
UTM North: 3780.0490723

Name: NEW ERA CLEANERS
Address: 408 E ORANGE GROVE BLVD

NEW ERA CLEANERS (Continued) **S100940696**

City,State,Zip:	PASADENA, CA 91104
Facility ID:	98033
Application Number:	466724
Permit Number:	Not reported
Status:	A
Representative Name:	YOUNG JEON
Representative Telephone:	626 7961707
Permit Status:	Not reported
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	394.73498535
UTM North:	3780.0490723

Name:	NEW ERA CLEANERS
Address:	408 E ORANGE GROVE BLVD
City,State,Zip:	PASADENA, CA 91104
Facility ID:	98033
Application Number:	466725
Permit Number:	F93148
Status:	A
Representative Name:	YOUNG JEON
Representative Telephone:	626 7961707
Permit Status:	ACTIVE
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	394.73498535
UTM North:	3780.0490723

Name:	NEW ERA CLEANERS
Address:	408 E ORANGE GROVE BLVD
City,State,Zip:	PASADENA, CA 91104
Facility ID:	98033
Application Number:	471564
Permit Number:	F91602
Status:	A
Representative Name:	YOUNG JEON
Representative Telephone:	626 7961707
Permit Status:	ACTIVE
BCAT Number:	000233
BCAT Description:	DRY CLEANING EQUIP PETROLEUM SOLVENT
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	394.73498535
UTM North:	3780.0490723

DRYCLEANERS:

Name:	TIM KANESHIRO DBA NEW ERA DRY CLEANERS
Address:	408 E ORANGE GROVE BLVD
City,State,Zip:	PASADENA, CA 911044347
EPA Id:	CAD054847520
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211

NEW ERA CLEANERS (Continued) **S100940696**

SIC Description:	Power Laundries, Family and Commercial
Create Date:	04/11/1983
Facility Active:	No
Inactive Date:	06/30/1999
Facility Addr2:	Not reported
Owner Name:	TIM KANESHIRO
Owner Address:	408 E ORANGE GROVE BLVD
Owner Address 2:	Not reported
Owner Telephone:	8187961707
Contact Name:	TIM KANESHIRO
Contact Address:	INACT PER INCOMPLETE 99VQ PROCESS-
Contact Address 2:	CR00
Contact Telephone:	8187961707
Mailing Name:	DO NOT USE NOT A FEDERAL ID NUNMBER
Mailing Address 1:	408 E ORANGE GROVE BLVD
Mailing Address 2:	Not reported
Mailing City:	PASADENA
Mailing State:	CA
Mailing Zip:	911044347
Owner Fax:	Not reported
Region Code:	3

Name:	NEW ERA CLEANERS
Address:	408 E ORANGE GROVE BLVD
City,State,Zip:	PASADENA, CA 911044347
EPA Id:	CAR000162131
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	08/23/2005
Facility Active:	Yes
Inactive Date:	Not reported
Facility Addr2:	Not reported
Owner Name:	YOUNG SANG JEON
Owner Address:	408 E ORANGE GROVE BLVD
Owner Address 2:	Not reported
Owner Telephone:	6267961707
Contact Name:	ELLICE JEON
Contact Address:	1844 N SANTA ANITA AVE
Contact Address 2:	Not reported
Contact Telephone:	6265334044
Mailing Name:	Not reported
Mailing Address 1:	408 E ORANGE GROVE BLVD
Mailing Address 2:	Not reported
Mailing City:	PASADENA
Mailing State:	CA
Mailing Zip:	911044347
Owner Fax:	Not reported
Region Code:	3

B13 **NEW ERA CLEANERS & LAUNDRY,JAMES J.KIM** **DRYCLEANERS** **S121699764**
NE **408 E ORANGE GROVE BLVD** **N/A**
1/8-1/4 **PASADENA, CA 91104**
0.137 mi.
721 ft. **Site 5 of 5 in cluster B**

Relative:
Higher

Actual:
901 ft.

DRYCLEAN SOUTH COAST:

Name:	NEW ERA CLEANERS & LAUNDRY,JAMES J.KIM
Address:	408 E ORANGE GROVE BLVD
City,State,Zip:	PASADENA, CA 91104
Facility ID:	82422
Application Number:	240560
Permit Number:	Not reported
Status:	O
Representative Name:	JAMES KIM
Representative Telephone:	818 7961707
Permit Status:	Not reported
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	394.79998779
UTM North:	3780.1000977

Name:	NEW ERA CLEANERS & LAUNDRY,JAMES J.KIM
Address:	408 E ORANGE GROVE BLVD
City,State,Zip:	PASADENA, CA 91104
Facility ID:	82422
Application Number:	240894
Permit Number:	D36234
Status:	O
Representative Name:	JAMES KIM
Representative Telephone:	818 7961707
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	394.79998779
UTM North:	3780.1000977

D14 **JOSEPH LOGSDON** **SWEEPS UST** **S102055904**
NW **230 E ORANGE GROVE BLVD** **LOS ANGELES CO. HMS** **N/A**
1/8-1/4 **PASADENA, CA 91104**
0.146 mi.
772 ft. **Site 1 of 6 in cluster D**

Relative:
Higher

Actual:
910 ft.

SWEEPS UST:

Name:	JOSEPH LOGSDON
Address:	230 E ORANGE GROVE
City:	PASADENA
Status:	Active
Comp Number:	14906
Number:	9
Board Of Equalization:	Not reported
Referral Date:	12-07-90
Action Date:	12-07-90
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported

JOSEPH LOGSDON (Continued) **S102055904**

Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

LOS ANGELES CO. HMS:
Name: JOSEPH LOGSDON
Address: 230 E ORANGE GROVE BLVD
City,State,Zip: PASADENA, CA 91104
Region: LA
Permit Category: Not reported
Facility Id: 014332-014906
Facility Type: Not reported
Facility Status: Removed
Area: 3J
Permit Number: Not reported
Permit Status: Not reported

C15 **WESTERN DENTAL SERVICES INC** **RCRA NonGen / NLR** **1024794587**
SE **470 N LOS ROBLES** **CAL000149170**
1/8-1/4 **PASADENA, CA 91101**
0.153 mi.
807 ft. **Site 2 of 2 in cluster C**

Relative: **Lower**
Actual: **882 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 1994-08-18 00:00:00.0
Handler Name: WESTERN DENTAL SERVICES INC
Handler Address: 470 N LOS ROBLES
Handler City,State,Zip: PASADENA, CA 91101-0000
EPA ID: CAL000149170
Contact Name: KAREN NGUYEN
Contact Address: 530 S MAIN ST
Contact City,State,Zip: ORANGE, CA 92868-0000
Contact Telephone: 714-571-3564
Contact Fax: 714-571-3599
Contact Email: KNGUYEN@WESTERNDENTAL.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 530 S MAIN STREET
Mailing City,State,Zip: ORANGE, CA 92868-0000
Owner Name: WESTERN DENTAL SERVICES, INC
Owner Type: Other
Operator Name: KAREN NGUYEN
Operator Type: Other
Short-Term Generator Activity: No
Importer Activity: No

WESTERN DENTAL SERVICES INC (Continued) **1024794587**

Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:43:24.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:
Owner/Operator Indicator: Owner

WESTERN DENTAL SERVICES INC (Continued) **1024794587**

Owner/Operator Name:	WESTERN DENTAL SERVICES, INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	530 S MAIN STREET
Owner/Operator City,State,Zip:	ORANGE, CA 92868-0000
Owner/Operator Telephone:	714-480-3000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KAREN NGUYEN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	530 S MAIN ST
Owner/Operator City,State,Zip:	ORANGE, CA 92868-0000
Owner/Operator Telephone:	714-571-3564
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1994-08-18 00:00:00.0
Handler Name:	WESTERN DENTAL SERVICES INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	62121
NAICS Description:	OFFICES OF DENTISTS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

D16 **ARCO #1073** **LUST** **S101297748**
NW **208 ORANGE GROVE BLVD E** **Cortese** **N/A**
1/8-1/4 **PASADENA, CA 91103** **HIST CORTESE**
0.175 mi. **CERS**
926 ft. **Site 2 of 6 in cluster D**

Relative:
Higher

Actual:
911 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	911030016	
Status:	Remediation Plan	
Substance:	Hydrocarbons	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603702022	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19080	
Cross Street:	MARENGO AVE	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		8/13/1991
Date Leak Record Entered:	6/2/1992	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		1/10/1994
Date the Case was Closed:		Not reported
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1152.034541241019739073228588
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		8/13/1991
Remediation Plan Submitted:		11/15/1996
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		15
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	=	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	ARCO	
RP Address:	Not reported	
Program:	LUST	
Lat/Long:	34.1577037 / -1	
Local Agency Staff:	UNK	

ARCO #1073 (Continued) **S101297748**

Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

LUST:
Name: ARCO #1073
Address: 208 ORANGE GROVE BLVD E
City,State,Zip: PASADENA, CA 91103
Lead Agency: PASADENA, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702022
Global Id: T0603702022
Latitude: 34.157563
Longitude: -118.146366
Status: Completed - Case Closed
Status Date: 03/24/2004
Case Worker: JW
RB Case Number: 911030016
Local Agency: PASADENA, CITY OF
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

LUST:
Global Id: T0603702022
Contact Type: Local Agency Caseworker
Contact Name: JAMES WECKERLE
Organization Name: PASADENA, CITY OF
Address: 199 S Los Robles Ave
City: Pasadena
Email: jweckerle@ci.pasadena.ca.us
Phone Number: 6267444115

Global Id: T0603702022
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603702022
Action Type: Other
Date: 08/13/1991
Action: Leak Reported

LUST:
Global Id: T0603702022
Status: Open - Case Begin Date

ARCO #1073 (Continued) **S101297748**

Status Date: 08/13/1991

Global Id: T0603702022
Status: Open - Site Assessment
Status Date: 08/13/1991

Global Id: T0603702022
Status: Open - Remediation
Status Date: 11/15/1996

Global Id: T0603702022
Status: Completed - Case Closed
Status Date: 03/24/2004

CORTESE:
Name: ARCO #1073
Address: 208 ORANGE GROVE BLVD E
City,State,Zip: PASADENA, CA 91103
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0603702022
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: ARCO #1073
edr_fadd1: 208 ORANGE GROVE
City,State,Zip: PASADENA, CA 91103
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 911030016

CERS:
Name: ARCO #1073
Address: 208 ORANGE GROVE BLVD E
City,State,Zip: PASADENA, CA 91103
Site ID: 193085
CERS ID: T0603702022

ARCO #1073 (Continued) **S101297748**

CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: YUE RONG - LOS ANGELES RWQCB (REGION 4)
Entity Title: Not reported
Affiliation Address: 320 W. 4TH ST., SUITE 200
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: JAMES WECKERLE - PASADENA, CITY OF
Entity Title: Not reported
Affiliation Address: 199 S Los Robles Ave
Affiliation City: Pasadena
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 6267444115

D17 **MCNALL, LEE** **RCRA NonGen / NLR** **1024778455**
NW **201 E. ORANGE GROVE BLVD** **CAC002998400**
1/8-1/4 **PASADENA, CA 91103**
0.176 mi.
927 ft. **Site 3 of 6 in cluster D**

Relative: **Higher**

Actual: **913 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 2019-01-28 00:00:00.0
Handler Name: MCNALL, LEE
Handler Address: 201 E. ORANGE GROVE BLVD
Handler City,State,Zip: PASADENA, CA 91103
EPA ID: CAC002998400
Contact Name: MCNALL, LEE
Contact Address: 201 E. ORANGE GROVE BLVD
Contact City,State,Zip: PASADENA, CA 91103
Contact Telephone: 626-449-0688
Contact Fax: Not reported
Contact Email: ANDREWC@PWSEI.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 201 E. ORANGE GROVE BLVD
Mailing City,State,Zip: PASADENA, CA 91103
Owner Name: MCNALL, LEE
Owner Type: Other
Operator Name: MCNALL, LEE
Operator Type: Other

MCNALL, LEE (Continued) **1024778455**

Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-02-22 19:40:39.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

MCNALL, LEE (Continued) **1024778455**

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MCNALL, LEE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	201 E. ORANGE GROVE BLVD
Owner/Operator City,State,Zip:	PASADENA, CA 91103
Owner/Operator Telephone:	626-449-0688
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MCNALL, LEE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	201 E. ORANGE GROVE BLVD
Owner/Operator City,State,Zip:	PASADENA, CA 91103
Owner/Operator Telephone:	626-449-0688
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-01-28 00:00:00.0
Handler Name: MCNALL, LEE	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

18
SE
1/8-1/4
0.178 mi.
942 ft.

99 CENTS ONLY STORES #7
442 N LOS ROBLES AVE
PASADENA, CA 91101

CERS HAZ WASTE
CERS

S123535733
N/A

Relative:
Lower

Actual:
880 ft.

CERS HAZ WASTE:
Name: 99 CENTS ONLY STORES #7
Address: 442 N LOS ROBLES AVE
City,State,Zip: PASADENA, CA 91101
Site ID: 88558
CERS ID: 10445248
CERS Description: Hazardous Waste Generator

CERS:
Name: 99 CENTS ONLY STORES #7
Address: 442 N LOS ROBLES AVE
City,State,Zip: PASADENA, CA 91101
Site ID: 88558
CERS ID: 10445248
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-11-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Pasadena Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-09-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTED BY Z. SONGCO CONSENT GIVEN BY JUAN CABRERA
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-18-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Veroncia Alcala
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-09-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS

99 CENTS ONLY STORES #7 (Continued) **S123535733**

Coordinates:

Site ID:	88558
Facility Name:	99 Cents Only Stores #7
Env Int Type Code:	HWG
Program ID:	10445248
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	34.153420
Longitude:	-118.141430

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Janelle Brown
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	Los Robles Villa Properties
Entity Title:	Not reported
Affiliation Address:	4469 Estrondo Drive
Affiliation City:	Encino
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91436
Affiliation Phone:	(818) 784-9732

Affiliation Type Desc:	CUPA District
Entity Name:	Los Angeles County Fire
Entity Title:	Not reported
Affiliation Address:	5825 Rickenbacker Road
Affiliation City:	Commerce
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90040-3027
Affiliation Phone:	(323) 890-4000

Affiliation Type Desc:	Identification Signer
Entity Name:	Edgar Flores
Entity Title:	Compliance Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	99 Cents Only Stores
Entity Title:	Not reported
Affiliation Address:	4000 Union Pacific Avenue
Affiliation City:	Commerce

99 CENTS ONLY STORES #7 (Continued) **S123535733**

Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90023
Affiliation Phone:	(323) 980-8145
Affiliation Type Desc:	Parent Corporation
Entity Name:	99 Cents Only Stores LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	99 Cents Only Stores
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(626) 356-0990
Affiliation Type Desc:	Environmental Contact
Entity Name:	EDGAR FLORES
Entity Title:	Not reported
Affiliation Address:	4000 Union Pacific Avenue
Affiliation City:	Commerce
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90023
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	4000 Union Pacific Avenue
Affiliation City:	Commerce
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90023
Affiliation Phone:	Not reported

D19 **ARCO FACILITY #1073** **UST** **U003937952**
NW **208 E. ORANGE GROVE** **N/A**
1/8-1/4 **PASADENA, CA 91103**
0.179 mi.
945 ft. **Site 4 of 6 in cluster D**

Relative: UST:
Higher

Actual:
912 ft.

Name:	ARCO FACILITY #1073
Address:	208 E. ORANGE GROVE
City,State,Zip:	PASADENA, CA 91103
Facility ID:	19-080-000349
Permitting Agency:	PASADENA, CITY OF

ARCO FACILITY #1073 (Continued) **U003937952**

Latitude: 34.158911
Longitude: -118.145018

D20 **ARCO PRODUCTS #01073** **SWEEPS UST** **S102055835**
NW **208 E ORANGE GROVE BLVD** **LOS ANGELES CO. HMS** **N/A**
1/8-1/4 **PASADENA, CA 91103**
0.179 mi.
945 ft. **Site 5 of 6 in cluster D**

Relative: Higher

Actual: 912 ft.

SWEEPS UST:

Name:	ARCO GAS STATION
Address:	208 E ORANGE GROVE BLVD
City:	PASADENA
Status:	Not reported
Comp Number:	12049
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-080-012049-000005
Tank Status:	Not reported
Capacity:	280
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	1

Name:	ARCO GAS STATION
Address:	208 E ORANGE GROVE BLVD
City:	PASADENA
Status:	Active
Comp Number:	12049
Number:	1
Board Of Equalization:	Not reported
Referral Date:	12-07-90
Action Date:	12-07-90
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-080-012049-000001
Tank Status:	A
Capacity:	10000
Active Date:	06-07-90
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	4

Name:	ARCO GAS STATION
Address:	208 E ORANGE GROVE BLVD
City:	PASADENA
Status:	Active
Comp Number:	12049
Number:	1
Board Of Equalization:	Not reported
Referral Date:	12-07-90

ARCO PRODUCTS #01073 (Continued) **S102055835**

Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-012049-000002
Tank Status: A
Capacity: 10000
Active Date: 06-07-90
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: ARCO GAS STATION
Address: 208 E ORANGE GROVE BLVD
City: PASADENA
Status: Active
Comp Number: 12049
Number: 1
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-012049-000003
Tank Status: A
Capacity: 10000
Active Date: 06-07-90
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: ARCO GAS STATION
Address: 208 E ORANGE GROVE BLVD
City: PASADENA
Status: Active
Comp Number: 12049
Number: 1
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-012049-000004
Tank Status: A
Capacity: 10000
Active Date: 06-07-90
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

LOS ANGELES CO. HMS:
Name: ARCO PRODUCTS #01073
Address: 208 E ORANGE GROVE BLVD
City,State,Zip: PASADENA, CA 91103
Region: LA

ARCO PRODUCTS #01073 (Continued) **S102055835**

Permit Category: T
Facility Id: 011971-012049
Facility Type: 0
Facility Status: Removed
Area: 3J
Permit Number: 00003655T
Permit Status: Removed

D21 **TAE HO CHOI** **HIST UST** **U001566696**
NW **208 E ORANGE GROVE** **N/A**
1/8-1/4 **PASADENA, CA 91103**
0.179 mi.
945 ft. **Site 6 of 6 in cluster D**

Relative:
Higher

Actual:
912 ft.

HIST UST:
Name: TAE HO CHOI
Address: 208 E ORANGE GROVE
City,State,Zip: PASADENA, CA 91103
File Number: 0002641F
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002641F.pdf
Region: STATE
Facility ID: 00000026548
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 0000000000
Owner Name: ARCO PETROLEUM PRODUCTS CO.
Owner Address: 515 SOUTH FLOWER STREET
Owner City,St,Zip: LOS ANGELES, CA 90071
Total Tanks: 0005

Tank Num: 001
Container Num: 0000000001
Year Installed: 1968
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 0000167
Leak Detection: Stock Inventor, 10

Tank Num: 002
Container Num: 0000000002
Year Installed: 1968
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 0000167
Leak Detection: Stock Inventor, 10

Tank Num: 003
Container Num: 0000000003
Year Installed: 1968
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 0000167
Leak Detection: Stock Inventor, 10

TAE HO CHOI (Continued) **U001566696**

Tank Num:	004
Container Num:	0000000004
Year Installed:	1972
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000167
Leak Detection:	Stock Inventor, 10

Tank Num:	005
Container Num:	0000000005
Year Installed:	Not reported
Tank Capacity:	00000280
Tank Used for:	PRODUCT
Type of Fuel:	WASTE OIL
Container Construction Thickness:	0000093
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

E22 **YOUTH MOVING ON C/O ANCHOR PACIFICA GROUP** **RCRA NonGen / NLR** **1025852522**
ENE **650 N OAKLAND AVE** **CAC003032690**
1/8-1/4 **PASADENA, CA 91101**
0.200 mi.
1057 ft. **Site 1 of 4 in cluster E**

Relative: **Higher**
Actual: **897 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2019-09-06 00:00:00.0
Handler Name:	YOUTH MOVING ON C/O ANCHOR PACIFICA GROUP
Handler Address:	650 N OAKLAND AVE
Handler City,State,Zip:	PASADENA, CA 91101
EPA ID:	CAC003032690
Contact Name:	BRETT DEINE
Contact Address:	1010 E UNION ST
Contact City,State,Zip:	PASADENA, CA 91106
Contact Telephone:	626-440-7070
Contact Fax:	Not reported
Contact Email:	VIANCATARANGO@ALLIANCE-ENVIRO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1010 E UNION ST
Mailing City,State,Zip:	PASADENA, CA 91106
Owner Name:	YOUTH MOVING ON C/O ANCHOR PACIFICA
Owner Type:	Other
Operator Name:	BRETT DEINE
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No

YOUTH MOVING ON C/O ANCHOR PACIFICA GROUP (Continued) **1025852522**

Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-09-10 12:40:47.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	YOUTH MOVING ON C/O ANCHOR PACIFICA
Legal Status:	Other

YOUTH MOVING ON C/O ANCHOR PACIFICA GROUP (Continued) **1025852522**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1010 E UNION ST
Owner/Operator City,State,Zip:	PASADENA, CA 91106
Owner/Operator Telephone:	626-440-7070
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	BRETT DEINE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1010 E UNION ST
Owner/Operator City,State,Zip:	PASADENA, CA 91106
Owner/Operator Telephone:	626-440-7070
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-09-06 00:00:00.0
Handler Name:	YOUTH MOVING ON C/O ANCHOR PACIFICA GROUP
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E23
ENE
1/8-1/4
0.200 mi.
1057 ft.

YOUTH MOVING ON NON PROFIT OAKLAND SUMMIT APTS
650 N OAKLAND AVE
PASADENA, CA 91101

Site 2 of 4 in cluster E

RCRA NonGen / NLR | **1024765874** | **CAC002985743**

Relative:
Higher

Actual:
897 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2018-10-19 00:00:00.0
Handler Name:	YOUTH MOVING ON NON PROFIT OAKLAND SUMMIT APTS
Handler Address:	650 N OAKLAND AVE
Handler City,State,Zip:	PASADENA, CA 91101
EPA ID:	CAC002985743
Contact Name:	MELISSA REIN
Contact Address:	650 N OAKLAND AVE
Contact City,State,Zip:	PASADENA, CA 91101
Contact Telephone:	626-792-8917
Contact Fax:	Not reported
Contact Email:	OS@ANCHORPACIFICA.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	650 N OAKLAND AVE
Mailing City,State,Zip:	PASADENA, CA 91101
Owner Name:	YOUTH MOVING ON NON PROFIT OAKLAND
Owner Type:	Other
Operator Name:	MELISSA REIN
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

YOUTH MOVING ON NON PROFIT OAKLAND SUMMIT APTS (Continued) **1024765874**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-11-20 16:30:04.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	YOUTH MOVING ON NON PROFIT OAKLAND
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	650 N OAKLAND AVE
Owner/Operator City,State,Zip:	PASADENA, CA 91101
Owner/Operator Telephone:	626-792-8917
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MELISSA REIN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	650 N OAKLAND AVE
Owner/Operator City,State,Zip:	PASADENA, CA 91101
Owner/Operator Telephone:	626-792-8917
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

YOUTH MOVING ON NON PROFIT OAKLAND SUMMIT APTS (Continued) **1024765874**

Historic Generators:
- Receive Date: 2018-10-19 00:00:00.0
- Handler Name: YOUTH MOVING ON NON PROFIT OAKLAND SUMMIT APTS
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

E24
ENE
1/8-1/4
0.200 mi.
1057 ft.

YOUTH MOVING ON
650 N OAKLAND AVE
PASADENA, CA 91101

Site 3 of 4 in cluster E

RCRA NonGen / NLR **1025852139** **CAC003032286**

Relative: Higher

Actual: 897 ft.

RCRA NonGen / NLR:
- Date Form Received by Agency: 2019-09-04 00:00:00.0
- Handler Name: YOUTH MOVING ON
- Handler Address: 650 N OAKLAND AVE
- Handler City,State,Zip: PASADENA, CA 91101
- EPA ID: CAC003032286
- Contact Name: BRETT DEVINE
- Contact Address: 1010 E UNION ST
- Contact City,State,Zip: PASADENA, CA 91106
- Contact Telephone: 626-440-7070
- Contact Fax: Not reported
- Contact Email: TAMMYHURLEY@ALLIANCE-ENVIRO.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Not reported
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 1010 E UNION ST
- Mailing City,State,Zip: PASADENA, CA 91106
- Owner Name: YOUTH MOVING ON

YOUTH MOVING ON (Continued) **1025852139**

Owner Type:	Other
Operator Name:	BRETT DEVINE
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-09-10 12:40:41.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

YOUTH MOVING ON (Continued) **1025852139**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: BRETT DEVINE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1010 E UNION ST
Owner/Operator City,State,Zip: PASADENA, CA 91106
Owner/Operator Telephone: 626-440-7070
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: YOUTH MOVING ON
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1010 E UNION ST
Owner/Operator City,State,Zip: PASADENA, CA 91106
Owner/Operator Telephone: 626-440-7070
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2019-09-04 00:00:00.0
Handler Name: YOUTH MOVING ON
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E25
ENE
1/8-1/4
0.200 mi.
1057 ft.

YOUTH MOVING ON
650 N. OAKLAND AVE
PASADENA, CA 91101

Site 4 of 4 in cluster E

RCRA NonGen / NLR **1024776940**
CAC002996877

Relative:
Higher

Actual:
897 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-01-16 00:00:00.0
Handler Name:	YOUTH MOVING ON	
Handler Address:		650 N. OAKLAND AVE
Handler City,State,Zip:		PASADENA, CA 91101
EPA ID:		CAC002996877
Contact Name:		GARY OGANESYAN
Contact Address:		650 N. OAKLAND AVE
Contact City,State,Zip:		PASADENA, CA 91101
Contact Telephone:		818-210-6112
Contact Fax:		Not reported
Contact Email:		JBENNER@BURNS-ENVIRO.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1010 E. UNION ST
Mailing City,State,Zip:		PASADENA, CA 91106
Owner Name:		YOUTH MOVING ON
Owner Type:		Other
Operator Name:		GARY OGANESYAN
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

YOUTH MOVING ON (Continued) **1024776940**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-02-22 19:40:07.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GARY OGANESYAN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	650 N. OAKLAND AVE
Owner/Operator City,State,Zip:	PASADENA, CA 91101
Owner/Operator Telephone:	818-210-6112
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	YOUTH MOVING ON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1010 E. UNION ST
Owner/Operator City,State,Zip:	PASADENA, CA 91106
Owner/Operator Telephone:	818-210-6112
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

YOUTH MOVING ON (Continued) **1024776940**

Historic Generators:
- Receive Date: 2019-01-16 00:00:00.0
- Handler Name: YOUTH MOVING ON
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

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26 WNW 1/8-1/4 0.210 mi. 1109 ft. **PASADENA LAWNMOWERS & NURSERY INC** **RCRA NonGen / NLR** **1025874394**
170 E ORANGE GROVE BLVD **CAL000447525**
PASADENA, CA 91103

Relative: Higher

Actual: 914 ft.

RCRA NonGen / NLR:
- Date Form Received by Agency: 2019-07-18 00:00:00.0
- Handler Name: PASADENA LAWNMOWERS & NURSERY INC
- Handler Address: 170 E ORANGE GROVE BLVD
- Handler City,State,Zip: PASADENA, CA 91103
- EPA ID: CAL000447525
- Contact Name: MAYRA MUNOZ
- Contact Address: 170 E ORANGE GROVE BLVD
- Contact City,State,Zip: PASADENA, CA 91103
- Contact Telephone: 626-710-8520
- Contact Fax: Not reported
- Contact Email: PASSADENALAWN@YAHOO.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Handler Activities
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 170 E ORANGE GROVE BLVD
- Mailing City,State,Zip: PASADENA, CA 91103
- Owner Name: PASADENA LAWNMOWERS & NURSERY INC

PASADENA LAWNMOWERS & NURSERY INC (Continued) **1025874394**

Owner Type:	Other
Operator Name:	MAYRA MUNOZ
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-07-29 17:14:12.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

PASADENA LAWNMOWERS & NURSERY INC (Continued) **1025874394**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: PASADENA LAWNMOWERS & NURSERY INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 170 E ORANGE GROVE BLVD
Owner/Operator City,State,Zip: PASADENA, CA 91103
Owner/Operator Telephone: 626-744-9202
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: MAYRA MUNOZ
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 170 E ORANGE GROVE BLVD
Owner/Operator City,State,Zip: PASADENA, CA 91103
Owner/Operator Telephone: 626-710-8520
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2019-07-18 00:00:00.0
Handler Name: PASADENA LAWNMOWERS & NURSERY INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

27
WSW
1/8-1/4
0.230 mi.
1215 ft.

LUIS MARQUEZ
501 N. SUMMIT AVENUE
PASADENA, CA 91103

RCRA NonGen / NLR | **1024776573** / **CAC002996508**

Relative:
Higher

Actual:
898 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-01-14 00:00:00.0
Handler Name:	LUIS MARQUEZ	
Handler Address:		501 N. SUMMIT AVENUE
Handler City,State,Zip:		PASADENA, CA 91103
EPA ID:		CAC002996508
Contact Name:		LUIS MARQUEZ
Contact Address:		501 N. SUMMIT AVENUE
Contact City,State,Zip:		PASADENA, CA 91103
Contact Telephone:		626-826-6747
Contact Fax:		Not reported
Contact Email:		LUPE@FRESHAIRENVIRONMENTAL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		501 N. SUMMIT AVENUE
Mailing City,State,Zip:		PASADENA, CA 91103
Owner Name:		LUIS MARQUEZ
Owner Type:		Other
Operator Name:		LUIS MARQUEZ
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

LUIS MARQUEZ (Continued) **1024776573**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-02-22 19:40:00.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	LUIS MARQUEZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	501 N. SUMMIT AVENUE
Owner/Operator City,State,Zip:	PASADENA, CA 91103
Owner/Operator Telephone:	626-826-6747
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	LUIS MARQUEZ
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	501 N. SUMMIT AVENUE
Owner/Operator City,State,Zip:	PASADENA, CA 91103
Owner/Operator Telephone:	626-826-6747
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

LUIS MARQUEZ (Continued) **1024776573**

Historic Generators:
Receive Date: 2019-01-14 00:00:00.0
Handler Name: LUIS MARQUEZ
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

F28 **KAISER PERMANENTE** **LUST** **S102432103**
South **393 WALNUT ST** **Cortese** **N/A**
1/4-1/2 **PASADENA, CA 91101** **CERS**
0.388 mi.
2047 ft. **Site 1 of 2 in cluster F**

Relative:
Lower

Actual:
865 ft.

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 911010025
Status: Remediation Plan
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603702020
W Global ID: Not reported
Staff: UNK
Local Agency: 19080
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: 12/15/1985
Date Leak First Reported: 11/10/1986
Date Leak Record Entered: 8/11/1987
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 11/10/1986
Date the Case was Closed: Not reported
How Leak Discovered: Not reported

KAISER PERMANENTE (Continued) **S102432103**

How Leak Stopped:	Not reported
Cause of Leak:	Structure Failure
Leak Source:	Piping
Operator:	Not reported
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	4364.313245569810233297469056 1
Source of Cleanup Funding:	Piping
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	11/10/1986
Remediation Plan Submitted:	3/9/1995
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	KAISER PERMANEMTE
RP Address:	Not reported
Program:	LUST
Lat/Long:	34.1496961 / -1
Local Agency Staff:	UNK
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	OLD CASE #000305

CORTESE:

Name:	KAISER PERMANENTE
Address:	393 WALNUT ST
City,State,Zip:	PASADENA, CA 91101
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0603702020
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported

KAISER PERMANENTE (Continued) **S102432103**

Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:
Name: KAISER PERMANENTE
Address: 393 WALNUT ST
City,State,Zip: PASADENA, CA 91101
Site ID: 211938
CERS ID: T0603702020
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: MATTHEW COHEN - SWRCB
Entity Title: Not reported
Affiliation Address: 1001 I Street
Affiliation City: SACRAMENTO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9163415751

Affiliation Type Desc: Local Agency Caseworker
Entity Name: JAMES WECKERLE - PASADENA, CITY OF
Entity Title: Not reported
Affiliation Address: 199 S Los Robles Ave
Affiliation City: Pasadena
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 6267444115

Affiliation Type Desc: Regional Board Caseworker
Entity Name: YUE RONG - LOS ANGELES RWQCB (REGION 4)
Entity Title: Not reported
Affiliation Address: 320 W. 4TH ST., SUITE 200
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

F29 **KAISER PERMANENTE** **LUST** **S104583593**
South **393 WALNUT ST** **N/A**
1/4-1/2 **PASADENA, CA 91101**
0.388 mi.
2047 ft. **Site 2 of 2 in cluster F**

Relative:
Lower

Actual:
865 ft.

LUST:
Name: KAISER PERMANENTE
Address: 393 WALNUT ST
City,State,Zip: PASADENA, CA 91101
Lead Agency: SWRCB
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702020
Global Id: T0603702020

KAISER PERMANENTE (Continued) **S104583593**

Latitude:	34.1496605843803
Longitude:	-118.142171087714
Status:	Completed - Case Closed
Status Date:	07/18/2018
Case Worker:	MC
RB Case Number:	911010025
Local Agency:	PASADENA, CITY OF
File Location:	Not reported
Local Case Number:	TT
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	There is a State Water Board closure Order for this case issued 8/13/2015. The State Water Board needs confirmation that the corrective action wells and wastes have been removed from the site in order to close the case. Once confirmation has been received State Water Board can issue a Uniform Closure Letter and close the case. Attempts to reach the RP have failed. gwl 4/14/2016.

LUST:

Global Id:	T0603702020
Contact Type:	Local Agency Caseworker
Contact Name:	JAMES WECKERLE
Organization Name:	PASADENA, CITY OF
Address:	199 S Los Robles Ave
City:	Pasadena
Email:	jweckerle@ci.pasadena.ca.us
Phone Number:	6267444115

Global Id:	T0603702020
Contact Type:	Regional Board Caseworker
Contact Name:	MATTHEW COHEN
Organization Name:	SWRCB
Address:	1001 I Street
City:	SACRAMENTO
Email:	matthew.cohen@waterboards.ca.gov
Phone Number:	9163415751

Global Id:	T0603702020
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0603702020
Action Type:	ENFORCEMENT
Date:	09/17/1986
Action:	Staff Letter

Global Id:	T0603702020
Action Type:	ENFORCEMENT
Date:	02/07/1986
Action:	Staff Letter

KAISER PERMANENTE (Continued) **S104583593**

Global Id: T0603702020
Action Type: ENFORCEMENT
Date: 02/01/1988
Action: Staff Letter

Global Id: T0603702020
Action Type: Other
Date: 11/10/1986
Action: Leak Reported

Global Id: T0603702020
Action Type: ENFORCEMENT
Date: 07/18/2018
Action: Closure/No Further Action Letter

Global Id: T0603702020
Action Type: RESPONSE
Date: 07/19/1991
Action: Remedial Progress Report

Global Id: T0603702020
Action Type: RESPONSE
Date: 04/28/2003
Action: Preliminary Site Assessment Report

Global Id: T0603702020
Action Type: RESPONSE
Date: 10/03/1986
Action: Correspondence

Global Id: T0603702020
Action Type: RESPONSE
Date: 09/03/1986
Action: Interim Remedial Action Report

Global Id: T0603702020
Action Type: RESPONSE
Date: 09/16/2003
Action: Other Report / Document

Global Id: T0603702020
Action Type: RESPONSE
Date: 02/25/1986
Action: Site Assessment Report

Global Id: T0603702020
Action Type: RESPONSE
Date: 06/19/1990
Action: Other Workplan

Global Id: T0603702020
Action Type: RESPONSE
Date: 02/08/1990
Action: Remedial Progress Report

Global Id: T0603702020
Action Type: RESPONSE

KAISER PERMANENTE (Continued) **S104583593**

Date: 02/05/2003
Action: Soil and Water Investigation Workplan

Global Id: T0603702020
Action Type: RESPONSE
Date: 10/23/1991
Action: Soil and Water Investigation Workplan

Global Id: T0603702020
Action Type: RESPONSE
Date: 03/09/1995
Action: Site Assessment Report

Global Id: T0603702020
Action Type: ENFORCEMENT
Date: 03/27/2015
Action: Notification - Public Participation Document

Global Id: T0603702020
Action Type: ENFORCEMENT
Date: 08/13/2015
Action: State Water Board Closure Order

Global Id: T0603702020
Action Type: RESPONSE
Date: 01/11/1986
Action: Remedial Progress Report

Global Id: T0603702020
Action Type: Other
Date: 12/15/1985
Action: Leak Discovery

Global Id: T0603702020
Action Type: ENFORCEMENT
Date: 06/12/2003
Action: Staff Letter

Global Id: T0603702020
Action Type: ENFORCEMENT
Date: 07/04/2018
Action: Site Visit / Inspection / Sampling

LUST:
Global Id: T0603702020
Status: Open - Case Begin Date
Status Date: 12/15/1985

Global Id: T0603702020
Status: Open - Site Assessment
Status Date: 11/10/1986

Global Id: T0603702020
Status: Open - Remediation
Status Date: 03/09/1995

Global Id: T0603702020

KAISER PERMANENTE (Continued) **S104583593**

Status: Open - Eligible for Closure
Status Date: 12/13/2013

Global Id: T0603702020
Status: Open - Eligible for Closure
Status Date: 08/14/2015

Global Id: T0603702020
Status: Completed - Case Closed
Status Date: 07/18/2018

30
SSE
1/4-1/2
0.394 mi.
2079 ft.

ARCO #614
445 WALNUT ST E
PASADENA, CA 91101

LUST **S101297749**
Cortese **N/A**
HIST CORTESE
CERS

Relative:
Lower

Actual:
863 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	911010034	
Status:	Remedial action (cleanup) Underway	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603702021	
W Global ID:	W0603710124	
Staff:	UNK	
Local Agency:	19080	
Cross Street:	LOS ROBLES	
Enforcement Type:	Not reported	
Date Leak Discovered:	1/3/1989	
Date Leak First Reported:		1/4/1989
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	1/3/1989	
Date Case Last Changed on Database:		9/30/1992
Date the Case was Closed:		Not reported
How Leak Discovered:	Nuisance Conditions	
How Leak Stopped:	Not reported	
Cause of Leak:	Spill	
Leak Source:	Piping	
Operator:	ALHAR,VIC	
Water System:	PASADENA-CITY, WATER DEPT.	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1758.008728814514070205314196
Source of Cleanup Funding:		Piping
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		1/13/1989
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported

ARCO #614 (Continued) **S101297749**

Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: ARCO PETROLEUM PRODUCTS
RP Address: 17315 STUDEBAKER RD, CERRITOS, CA 90701
Program: LUST
Lat/Long: 34.1496971 / -1
Local Agency Staff: UNK
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: G19/124-FLBLVLG
Summary: CROSBY & OVERTON IN CHARGE OF CLEANUP PROCEDURE

LUST:
Name: ARCO #0614
Address: 445 WALNUT ST E
City,State,Zip: PASADENA, CA 91101
Lead Agency: PASADENA, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603702021
Global Id: T0603702021
Latitude: 34.149838
Longitude: -118.141067
Status: Completed - Case Closed
Status Date: 02/22/2005
Case Worker: JW
RB Case Number: 911010034
Local Agency: PASADENA, CITY OF
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0603702021
Contact Type: Local Agency Caseworker
Contact Name: JAMES WECKERLE
Organization Name: PASADENA, CITY OF
Address: 199 S Los Robles Ave
City: Pasadena
Email: jweckerle@ci.pasadena.ca.us
Phone Number: 6267444115

Global Id: T0603702021
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles

ARCO #614 (Continued) **S101297749**

Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603702021
Action Type: Other
Date: 01/04/1989
Action: Leak Reported

Global Id: T0603702021
Action Type: Other
Date: 01/03/1989
Action: Leak Discovery

Global Id: T0603702021
Action Type: Other
Date: 01/03/1989
Action: Leak Stopped

LUST:
Global Id: T0603702021
Status: Open - Case Begin Date
Status Date: 01/03/1989

Global Id: T0603702021
Status: Open - Remediation
Status Date: 01/13/1989

Global Id: T0603702021
Status: Completed - Case Closed
Status Date: 02/22/2005

CORTESE:
Name: ARCO #0614
Address: 445 WALNUT ST E
City,State,Zip: PASADENA, CA 91101
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0603702021
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported

ARCO #614 (Continued) **S101297749**

Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: ARCO #614
edr_fadd1: 445 WALNUT
City,State,Zip: PASADENA, CA 91101
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 911010034

CERS:
Name: ARCO #0614
Address: 445 WALNUT ST E
City,State,Zip: PASADENA, CA 91101
Site ID: 214612
CERS ID: T0603702021
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: YUE RONG - LOS ANGELES RWQCB (REGION 4)
Entity Title: Not reported
Affiliation Address: 320 W. 4TH ST., SUITE 200
Affiliation City: Los Angeles
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Local Agency Caseworker
Entity Name: JAMES WECKERLE - PASADENA, CITY OF
Entity Title: Not reported
Affiliation Address: 199 S Los Robles Ave
Affiliation City: Pasadena
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 6267444115

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31 **SOUTH PASADENA CITY DUMP** **WMUDS/SWAT** **S103441486**
South **200 NORTH GARFIELD** **N/A**
1/4-1/2 **SOUTH PASADENA, CA**
0.438 mi.
2315 ft.

Relative:
Lower

Actual:
867 ft.

WMUDS/SWAT:
Edit Date: Not reported
Complexity: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Base Meridian: Not reported
NPID: Not reported

SOUTH PASADENA CITY DUMP (Continued) **S103441486**

Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Not reported
Agency Name:	CITY OF SOUTH PASADENA
Agency Department:	Not reported
Agency Address:	Not reported
Agency City,St,Zip:	Not reported
Agency Contact:	Not reported
Agency Telephone:	Not reported
Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	CA
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	4
Facility Type:	Not reported
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	Not reported
Primary SIC:	Not reported
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	CITY OF SOUTH PASADENA
Threat to Water Quality:	Not reported
Sub Chapter 15:	False
Regional Board Project Officer:	LT
Number of WMUDS at Facility:	1
Section Range:	Not reported
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Self-Monitoring Rept. Frequency:	Not reported
Waste Discharge System ID:	4 190238NUR
Solid Waste Information ID:	Not reported

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32 **ELECTRO CIRCUITS, INC.** **FUSRAP** **1016603119**
South **401 EAST GREEN STREET** **N/A**
1/2-1 **PASADENA, CA**
0.732 mi.
3865 ft.

Relative: FUSRAP:
Lower

Site Name:	ELECTRO CIRCUITS, INC.
Site Id:	CA.08
Site Status:	Eliminated from consideration under FUSRAP
Designated Name:	Not Designated
Alternate Name:	None
Location Street Address:	401 EAST GREEN STREET
Location City:	PASADENA

Actual:
843 ft.

ELECTRO CIRCUITS, INC. (Continued) **1016603119**

Location State:	CA
Location County:	Not reported
Evaluation Year:	1994
Site Oprerations:	Conducted ultrasonic tests on uranium ingots in the early 1950s.
Site Disposition:	Eliminated - Potential for contamination remote based on limited operations at the site
Radioactice Materials Handled:	Yes
Primary Radioactivce Materials Handled:	Uranium Metal
Radiological Survey(S):	No
Long Term Care Requirements:	Not reported
Historical Operations:	Not reported
Website URL:	www.lm.doe.gov/Considered_Sites/Electro_Circuits_Inc_-_CA_08.aspx

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G33 **CALIFORNIA INSTITUTE OF TECHNOLOGY** **FUDS** **1024904019**
SE **N/A**
1/2-1 **PASADENA, CA**
0.959 mi.
5064 ft. **Site 1 of 2 in cluster G**

Relative: **Lower**

Actual: **818 ft.**

FUDS:

EPA Region:	09
Installation ID:	CA99799FA37200
Congressional District Number:	27
Facility Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY
FUDS Number:	J09CA7343
City:	PASADENA
State:	CA
County:	LOS ANGELES
Object ID:	1089
USACE District:	Los Angeles District (SPL)
Status:	Properties without projects
Current Owner:	Private Sector
EMS Map Link:	https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=63079
Eligibility:	Ineligible
Has Projects:	No
NPL Status:	Not Listed
Latitude:	34.146666670000002
Longitude:	-118.13027778

G34 **CALIFORNIA INSTITUTE OF TECHNOLOGY** **ENVIROSTOR** **1008176493**
SE **N/A**
1/2-1 **PASADENA, CA**
0.963 mi.
5084 ft. **Site 2 of 2 in cluster G**

Relative: **Lower**

Actual: **818 ft.**

ENVIROSTOR:

Name:	CALIFORNIA INSTITUTE OF TECHNOLOGY
Address:	Not reported
City,State,Zip:	PASADENA, CA
Facility ID:	80000987
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	0

CALIFORNIA INSTITUTE OF TECHNOLOGY (Continued) **1008176493**

NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 41
Senate: 25
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 34.14666
Longitude: -118.1302
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799FA37200
Alias Type: Federal Facility ID
Alias Name: J09CA7343
Alias Type: INPR
Alias Name: 80000987
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 09/10/1999
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates 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 the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The 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 potential NPL site.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 87

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/18/2020
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/18/2020
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/18/2020
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/18/2020
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/06/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/11/2020
Number of Days to Update: 82

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 87

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/27/2020
Date Data Arrived at EDR: 07/27/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/27/2020
Date Data Arrived at EDR: 07/27/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/10/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/29/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/26/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 78
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/15/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 07/21/2020
Date Data Arrived at EDR: 09/03/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 83
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 09/03/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/03/2020
Number of Days to Update: 86

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/03/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/29/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/26/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 78

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/23/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/27/2020
Date Data Arrived at EDR: 07/27/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/16/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/21/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/11/2020
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
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 takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/14/2020
Date Data Arrived at EDR: 09/15/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/11/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/29/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 75

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 10/30/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/27/2020
Date Data Arrived at EDR: 07/27/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2019
Date Data Arrived at EDR: 05/28/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site 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 dumpsites. 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. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 05/20/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/06/2020
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 08/03/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 78

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks
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.

Date of Government Version: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/26/2020
Date Data Arrived at EDR: 08/28/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 81

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The 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 deed restrictions that are active. Some sites have multiple deed restrictions. The 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.

Date of Government Version: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81
Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/20/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 83
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/30/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 78
Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo 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. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/15/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/18/2020
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 08/05/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/21/2020
Number of Days to Update: 69

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/17/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/08/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/21/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/02/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/06/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/18/2020
Next Scheduled EDR Contact: 12/28/2020
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/17/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 79

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 07/24/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 10/21/2020
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/14/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 34

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/05/2020
Date Data Arrived at EDR: 08/10/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 59

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/12/2020
Next Scheduled EDR Contact: 01/31/2021
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 42
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/30/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/06/2021
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 09/24/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/27/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/21/2020
Number of Days to Update: 6

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/22/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/06/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/06/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/20/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 09/10/2020
Date Data Arrived at EDR: 09/15/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 66

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 11/24/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/04/2020
Date Data Arrived at EDR: 08/25/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 85
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78
Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97
Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/16/2020
Date Data Arrived at EDR: 09/17/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 84
Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/10/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 09/04/2020
Date Data Arrived at EDR: 09/15/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 66
Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/08/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/27/2020
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/28/2020
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/06/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/17/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/17/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 10/21/2020
Number of Days to Update: 65

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/22/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 74

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/23/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 08/19/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 14

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 11/13/2020
Number of Days to Update: 79

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/06/2020
Date Data Arrived at EDR: 08/28/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 81

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/18/2020
Next Scheduled EDR Contact: 12/28/2020
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 78

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/05/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 79

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/04/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/05/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/17/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/17/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/06/2020
Date Data Arrived at EDR: 07/07/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/06/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/10/2020
Date Made Active in Reports: 10/29/2020
Number of Days to Update: 80
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 1
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/07/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/09/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/16/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84
Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81
Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 07/20/2020
Date Data Arrived at EDR: 07/21/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 78
Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 10/13/2020
Date Data Arrived at EDR: 10/14/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 06/30/2020
Date Data Arrived at EDR: 07/01/2020
Date Made Active in Reports: 07/17/2020
Number of Days to Update: 16

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 06/01/2020
Number of Days to Update: 13

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 06/17/2020
Date Data Arrived at EDR: 06/18/2020
Date Made Active in Reports: 09/02/2020
Number of Days to Update: 76

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 07/16/2020
Date Data Arrived at EDR: 07/22/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 78

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 70

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/30/2020
Date Data Arrived at EDR: 07/01/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 78

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 10/13/2020
Number of Days to Update: 75

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 10/14/2020
Number of Days to Update: 76

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 12/03/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 71

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/06/2020
Date Data Arrived at EDR: 07/10/2020
Date Made Active in Reports: 09/28/2020
Number of Days to Update: 80

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 10/01/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/13/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 78

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/09/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/25/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42
Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 10/12/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/25/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/25/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/25/2020
Date Data Arrived at EDR: 04/14/2020
Date Made Active in Reports: 07/01/2020
Number of Days to Update: 78
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/09/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/27/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 64

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/05/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 09/23/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 1

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 08/20/2020
Date Data Arrived at EDR: 08/24/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 77

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/15/2020
Next Scheduled EDR Contact: 03/08/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 16

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 09/23/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 10/13/2020
Number of Days to Update: 75

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 06/10/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 10/19/2020
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/02/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/02/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 79

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/02/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/01/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 10/19/2020
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/03/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 1

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/06/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/06/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 27
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/24/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 78
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 08/04/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 78
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/04/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 82
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/23/2020
Number of Days to Update: 84

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 08/03/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 78

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 08/03/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 82

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 07/27/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 75

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/11/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 08/20/2020
Date Data Arrived at EDR: 08/20/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 81

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 07/30/2020
Date Data Arrived at EDR: 07/31/2020
Date Made Active in Reports: 10/16/2020
Number of Days to Update: 77

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 09/16/2020
Number of Days to Update: 21

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/03/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/07/2020
Date Data Arrived at EDR: 07/08/2020
Date Made Active in Reports: 09/25/2020
Number of Days to Update: 79

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/16/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 09/18/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/16/2020
Next Scheduled EDR Contact: 01/04/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/04/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 04/15/2020
Number of Days to Update: 70

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 83

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 08/11/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 75

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 08/06/2020
Date Data Arrived at EDR: 08/06/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 81

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 07/10/2020
Date Data Arrived at EDR: 07/22/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 78

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/23/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 07/10/2020
Date Data Arrived at EDR: 07/22/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 77

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/26/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/23/2020
Date Data Arrived at EDR: 06/29/2020
Date Made Active in Reports: 09/15/2020
Number of Days to Update: 78

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 10/07/2020
Next Scheduled EDR Contact: 01/11/2021
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 08/06/2020
Date Data Arrived at EDR: 08/07/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 80

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 11/03/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 10/20/2020
Date Made Active in Reports: 11/02/2020
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/09/2020
Next Scheduled EDR Contact: 01/18/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/30/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/03/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

GARFIELD REPLACEMENT WELL
552 GARFIELD AVENUE
PASADENA, CA 91101

TARGET PROPERTY COORDINATES

Latitude (North):	34.155731 - 34° 9' 20.63''
Longitude (West):	118.143416 - 118° 8' 36.30''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	394596.1
UTM Y (Meters):	3779819.0
Elevation:	894 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5636829 PASADENA, CA
Version Date:	2012
Northeast Map:	5636853 MOUNT WILSON, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

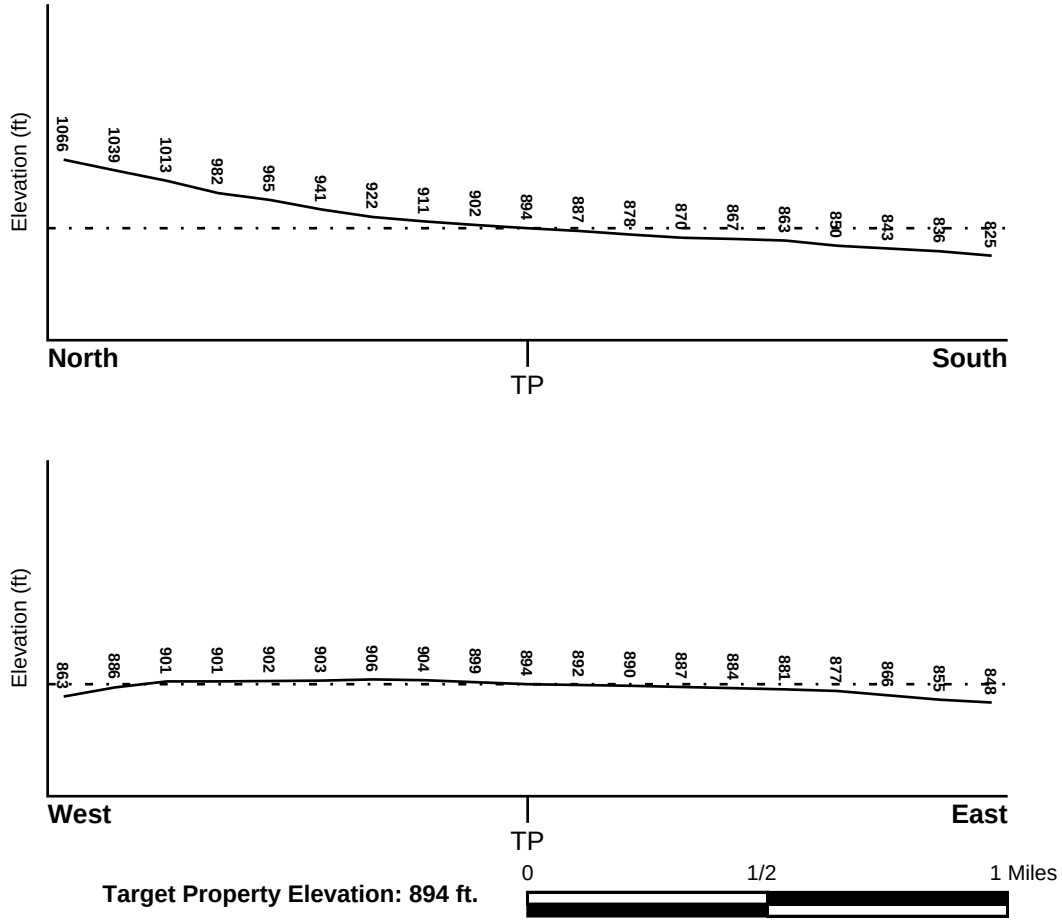
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1375F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PASADENA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
sandy loam
gravelly - sandy loam
silt loam
clay
fine sand
gravelly - sand
sand
fine sandy loam

Surficial Soil Types:
sandy loam
gravelly - sandy loam
silt loam
clay
fine sand
gravelly - sand
sand
fine sandy loam

Shallow Soil Types:
fine sandy loam
gravelly - loam
sandy clay
sandy clay loam
clay
silty clay
sand

Deeper Soil Types:
gravelly - sandy loam
sandy loam
very gravelly - sandy loam
stratified
very fine sandy loam
weathered bedrock
sand
gravelly - fine sandy loam
silty clay loam
clay loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000142191	0 - 1/8 Mile North
B4	USGS40000142165	0 - 1/8 Mile SSE
9	USGS40000142244	1/2 - 1 Mile ENE
D11	USGS40000142254	1/2 - 1 Mile WNW
18	USGS40000142268	1/2 - 1 Mile WNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

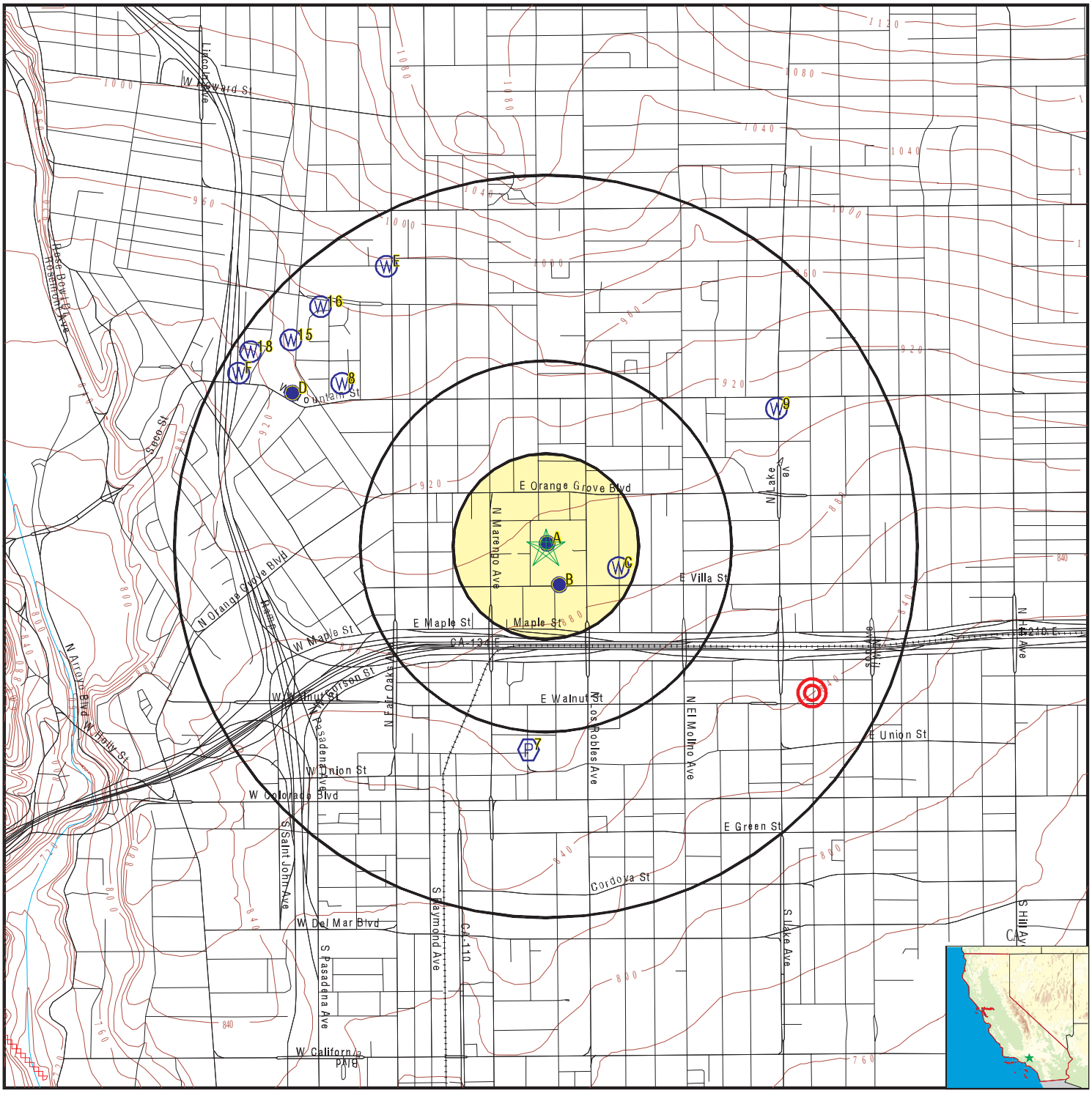
MAP ID	WELL ID	LOCATION FROM TP
7	CA1910020	1/2 - 1 Mile South

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CADDW0000018152	0 - 1/8 Mile SE
B3	CADDW0000008567	0 - 1/8 Mile SSE
C5	CADWR0000018600	1/8 - 1/4 Mile ESE
C6	CADWR0000009060	1/8 - 1/4 Mile ESE
8	CADWR0000029607	1/2 - 1 Mile NW
D10	CADDW0000009632	1/2 - 1 Mile WNW
E12	476	1/2 - 1 Mile NNW
E13	477	1/2 - 1 Mile NNW
E14	473	1/2 - 1 Mile NNW
15	CADDW0000006918	1/2 - 1 Mile NW
16	CADPR0000000961	1/2 - 1 Mile NW
F17	CADWR0000037627	1/2 - 1 Mile WNW
F19	CADDW0000000673	1/2 - 1 Mile WNW

PHYSICAL SETTING SOURCE MAP - 6303008.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Garfield Replacement Well	CLIENT:	Psomas
ADDRESS:	552 Garfield Avenue Pasadena CA 91101	CONTACT:	Daria Sarraf
		INQUIRY #:	6303008.2s
LAT/LONG:	34.155731 / 118.143416	DATE:	December 15, 2020 6:57 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
SE
0 - 1/8 Mile
Higher

CA WELLS **CADDW0000018152**

Well ID:	1910124-010	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	GARFIELD-INACTIVE 2/16/18	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1910124-010&store_num=		
GeoTracker Data:	Not Reported		

A2
North
0 - 1/8 Mile
Higher

FED USGS **USGS40000142191**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N012W21K001S	Type:	Well
Description:	Not Reported	HUC:	18070105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	712
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

B3
SSE
0 - 1/8 Mile
Lower

CA WELLS **CADDW0000008567**

Well ID:	1910124-020	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	VILLA-INACTIVE 2/16/18	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1910124-020&store_num=		
GeoTracker Data:	Not Reported		

B4
SSE
0 - 1/8 Mile
Lower

FED USGS **USGS40000142165**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N012W21K002S	Type:	Well
Description:	Not Reported	HUC:	18070105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

Construction Date:	Not Reported	Well Depth:	912
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

C5
ESE **CA WELLS** **CADWR0000018600**
1/8 - 1/4 Mile
Lower

Well ID:	01N12W21K002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01N12W21K002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01N12W21K002S&store_num=		
GeoTracker Data:	Not Reported		

C6
ESE **CA WELLS** **CADWR0000009060**
1/8 - 1/4 Mile
Lower

Well ID:	01N12W21K001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01N12W21K001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01N12W21K001S&store_num=		
GeoTracker Data:	Not Reported		

7
South **FRDS PWS** **CA1910020**
1/2 - 1 Mile
Lower

Epa region:	09	State:	CA
Pwsid:	CA1910020	Pwsname:	EAST PASADENA WATER CO.
Cityserved:	Not Reported	Stateserved:	CA
Zipserved:	Not Reported	Fipscounty:	06037
Status:	Active	Retpopsrvd:	9834
Pwssvcconn:	2980	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	MORALES, LAWRENCE	Contactorgname:	MORALES, LAWRENCE
Contactphone:	626-793-6189	Contactaddress1:	3725 MOUNTAIN VIEW AVENUE
Contactaddress2:	Not Reported	Contactcity:	PASADENA
Contactstate:	CA	Contactzip:	91107
Pwsactivitycode:	A		

Pwsid:	CA1910020	Facid:	10
Facname:	WELL 09 - CL2	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	CA1910020	Facid:	5238
Facname:	WELL 09 - CL2	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	CA1910020	Facid:	5271
Facname:	WELL 07 - CL2	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA1910020	Facid:	5272
Facname:	WELL 08 - CL2	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA1910020	Facid:	55296
Facname:	WELL 11 - CL2	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA1910020	Facid:	5894
Facname:	RESERVOIR 01-EFFLUENT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	inorganics removal
Trtprocess:	rapid mix	Factypecode:	TP
Pwsid:	CA1910020	Facid:	5899
Facname:	RESERVOIR 2 EFF-TREATED (WELL 7&9)		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	inorganics removal	Trtprocess:	rapid mix
Factypecode:	TP		
Pwsid:	CA1910020	Facid:	6032
Facname:	RESERVOIR 01-INFLUENT (WELLS 7&9) - TRTD		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	inorganics removal	Trtprocess:	rapid mix
Factypecode:	TP		
Pwsid:	CA1910020	Facid:	8
Facname:	WELL 07 - CL2	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA1910020	Facid:	9
Facname:	WELL 08 - CL2	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA1910020	Facid:	CA1910020010
Facname:	WELL 09 - CL2	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA1910020	Facid:	CA1910020011
Facname:	RESERVOIR 2 EFF-TREATED (WELL 7&9)		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	inorganics removal	Trtprocess:	rapid mix
Factypecode:	TP		
PWS ID:	CA1910020	PWS name:	EAST PASADENA WATER CO.
Address:	Not Reported	Care of:	Not Reported
City:	PASADENA	State:	CA
Zip:	91107	Owner:	EAST PASADENA WATER CO.
Source code:	Ground water	Population:	6782
PWS ID:	CA1910020	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported

PWS zip:	Not Reported	PWS name:	EAST PASADENA WATER CO.
PWS type code:	C	Retail population served:	9719
Contact:	WAYNE GOEHRING	Contact address:	3725 EAST MOUNTAIN VIEW AVE
Contact address:	PASADENA	Contact city:	CA
Contact state:	91	Contact zip:	6267936189
Contact telephone:	Not Reported		
County:	Not Reported	Source:	Ground water
Treatment Objective:	INORGANICS REMOVAL	Process:	RAPID MIX
Population:	6885		
PWS ID:	CA1910020	Activity status:	Active
Date system activated:	7706	Date system deactivated:	Not Reported
Retail population:	00006693	System name:	EAST PASADENA WATER CO.
System address:	Not Reported	System address:	3725 E MOUNTAIN VIEW AV
System city:	PASADENA	System state:	CA
System zip:	91107		
County FIPS:	037	City served:	EAST PASADENA
Population served:	5,001 - 10,000 Persons	Treatment:	Treated
Latitude:	340852	Longitude:	1180836
Violation id:	216003	Orig code:	S
State:	CA	Violation Year:	2002
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	05/01/2002
Cmp edt:	05/31/2002		
Violation ID:	216003	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	08/16/2002
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		
Violation ID:	Not Reported	Orig Code:	S
Enforcemnt FY:	2002	Enforcement Action:	08/16/2002
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Not Reported
PWS name:	EAST PASADENA WATER CO.	Population served:	9719
PWS type code:	C	Violation ID:	0216003
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Repeat Minor (TCR)
Compliance start date:	5/1/2002 0:00:00	Compliance end date:	5/31/2002 0:00:00
Enforcement date:	8/16/2002 0:00:00	Enforcement action:	State AO (w/o Penalty) Issued
Violation measurement:	Not Reported		

8
NW
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000029607**

Well ID:	01N12W20A001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01N12W20A001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01N12W20A001S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

9
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000142244**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N024W24B003S	Type:	Well
Description:	Not Reported	HUC:	18070103
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	204
Well Depth Units:	ft	Well Hole Depth:	204
Well Hole Depth Units:	ft		

D10
WNW
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000009632**

Well ID:	1910124-018	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	SUNSET	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1910124-018&store_num=		
GeoTracker Data:	Not Reported		

D11
WNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000142254**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N012W20A001S	Type:	Well
Description:	Not Reported	HUC:	18070105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	751
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

E12
NNW
1/2 - 1 Mile
Higher

CA WELLS **476**

Seq:	476	Prim sta c:	01N/12W-21K01 S
Frds no:	1910124010	County:	19
District:	15	User id:	MET

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System no:	1910124	Water type:	G
Source nam:	GARFIELD	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	341000.0	Longitude:	1180900.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910124	System nam:	Pasadena-City, Water Dept.
Hqname:	Not Reported	Address:	150 S. LOS ROBLES AVE. #200
City:	PASADENA	State:	CA
Zip:	91101	Zip ext:	7215
Pop serv:	155000	Connection:	37200
Area serve:	PASADENA		

Sample date:	08-AUG-17	Finding:	3.4e-002
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	08-AUG-17	Finding:	505.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	08-AUG-17	Finding:	1.49
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	08-AUG-17	Finding:	49.2
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	08-AUG-17	Finding:	90.6
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	08-AUG-17	Finding:	0.78
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	08-AUG-17	Finding:	4.21
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	08-AUG-17	Finding:	2.18
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	08-AUG-17	Finding:	16.3
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	08-AUG-17	Finding:	12.9
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		

Sample date:	08-AUG-17	Finding:	22.7
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	08-AUG-17	Finding:	7.85
Chemical:	PH, LABORATORY	Report units:	Not Reported

Dlr:	0.		
Sample date:	08-AUG-17	Finding:	70.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	85.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	122.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	31.2
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	10.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	41.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	2.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	15.
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	2.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-AUG-17	Finding:	0.34
Chemical:	COBALT	Report units:	UG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	2600.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	08-AUG-17	Finding:	84.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	08-AUG-17	Finding:	2.6
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	6.6
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	08-AUG-17	Finding:	0.147
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	08-AUG-17	Finding:	0.27
Chemical:	CAPTAN	Report units:	UG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	300.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	0.287
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-MAY-15	Finding:	6.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	05-MAY-15	Finding:	37.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-MAY-15	Finding:	5.47
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	28-APR-15	Finding:	36.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-APR-15	Finding:	4.77
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-APR-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-APR-15	Finding:	36.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-APR-15	Finding:	2.6
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	21-APR-15	Finding:	5.12
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-APR-15	Finding:	39.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-APR-15	Finding:	38.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-APR-15	Finding:	37.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-APR-15	Finding:	5.58
Chemical:	PERCHLORATE	Report units:	UG/L

Dlr:	4.		
Sample date:	31-MAR-15	Finding:	38.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	31-MAR-15	Finding:	6.69
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	24-MAR-15	Finding:	6.03
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	24-MAR-15	Finding:	36.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-MAR-15	Finding:	6.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	17-MAR-15	Finding:	36.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-MAR-15	Finding:	36.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-MAR-15	Finding:	6.04
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-MAR-15	Finding:	5.71
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-MAR-15	Finding:	1.04
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	03-MAR-15	Finding:	34.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-MAR-15	Finding:	1.04
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	27-JAN-15	Finding:	5.92
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	27-JAN-15	Finding:	35.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-JAN-15	Finding:	6.01
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	20-JAN-15	Finding:	34.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-JAN-15	Finding:	4.51
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-JAN-15	Finding:	5.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	13-JAN-15	Finding:	33.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-JAN-15	Finding:	6.07
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	06-JAN-15	Finding:	34.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-DEC-14	Finding:	29.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-DEC-14	Finding:	4.62
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	24-DEC-14	Finding:	4.41
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	24-DEC-14	Finding:	27.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-DEC-14	Finding:	27.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-DEC-14	Finding:	1.67
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	09-DEC-14	Finding:	1.93
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	09-DEC-14	Finding:	3.6
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	24.7
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	14.
Chemical:	COLOR	Report units:	UNITS

Dlr:	0.		
Sample date:	12-AUG-14	Finding:	432.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	88.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	120.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	38.5
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	5.81
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	23.5
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	54.8
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	12-AUG-14	Finding:	1.27
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-AUG-14	Finding:	244.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	24.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-AUG-14	Finding:	0.9
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	21-AUG-13	Finding:	7.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	21-AUG-13	Finding:	36.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	7.64
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	14-AUG-13	Finding:	1.37
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	1.24
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	14-AUG-13	Finding:	25.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-AUG-13	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	1.37
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	14-AUG-13	Finding:	1.
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	14-AUG-13	Finding:	57.6
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	14-AUG-13	Finding:	28.2
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	9.21
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	38.6
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	134.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	85.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	23.9
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	4.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	450.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	85.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L

Dlr:	0.		
Sample date:	09-JUL-13	Finding:	29.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JUL-13	Finding:	4.08
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	04-JUN-13	Finding:	28.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JUN-13	Finding:	4.78
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-MAY-13	Finding:	27.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	5.73
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-MAR-13	Finding:	4.17
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-MAR-13	Finding:	34.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-FEB-13	Finding:	26.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-JAN-13	Finding:	5.32
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	22-JAN-13	Finding:	32.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-DEC-12	Finding:	26.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-NOV-12	Finding:	5.33
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-NOV-12	Finding:	35.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-OCT-12	Finding:	5.09
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	30-OCT-12	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-OCT-12	Finding:	6.14
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	24-OCT-12	Finding:	34.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-OCT-12	Finding:	34.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-OCT-12	Finding:	5.92
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-OCT-12	Finding:	4.88
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-OCT-12	Finding:	35.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-OCT-12	Finding:	5.06
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-OCT-12	Finding:	34.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-SEP-12	Finding:	5.24
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	25-SEP-12	Finding:	35.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-SEP-12	Finding:	4.87
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	18-SEP-12	Finding:	33.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-SEP-12	Finding:	32.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-SEP-12	Finding:	4.94
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	04-SEP-12	Finding:	4.53
Chemical:	PERCHLORATE	Report units:	UG/L

Dlr:	4.		
Sample date:	04-SEP-12	Finding:	32.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-AUG-12	Finding:	4.22
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	28-AUG-12	Finding:	32.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-AUG-12	Finding:	0.433
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	20-AUG-12	Finding:	30.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-AUG-12	Finding:	266.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	20-AUG-12	Finding:	0.94
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	20-AUG-12	Finding:	47.2
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	20-AUG-12	Finding:	25.2
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	20-AUG-12	Finding:	10.2
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-AUG-12	Finding:	36.1
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	20-AUG-12	Finding:	132.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	20-AUG-12	Finding:	82.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	20-AUG-12	Finding:	82.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	20-AUG-12	Finding:	7.23
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	20-AUG-12	Finding:	411.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	20-AUG-12	Finding:	24.2
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	20-AUG-12	Finding:	3.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	03-JUL-12	Finding:	4.24
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-JUL-12	Finding:	32.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-MAY-12	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-MAY-12	Finding:	4.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	22-MAY-12	Finding:	31.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-MAY-12	Finding:	31.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-MAY-12	Finding:	4.24
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	08-MAY-12	Finding:	30.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-12	Finding:	29.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-APR-12	Finding:	28.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-APR-12	Finding:	30.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-APR-12	Finding:	27.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-12	Finding:	1.69
Chemical:	CHLOROFORM (THM)	Report units:	UG/L

Dlr:	1.		
Sample date:	03-APR-12	Finding:	26.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-APR-12	Finding:	1.69
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

E13
NNW
1/2 - 1 Mile
Higher

CA WELLS 477

Seq:	477	Prim sta c:	01N/12W-21K02 S
Frds no:	1910124020	County:	19
District:	15	User id:	MET
System no:	1910124	Water type:	G
Source nam:	VILLA	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	341000.0	Longitude:	1180900.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1910124	System nam:	Pasadena-City, Water Dept.
Hqname:	Not Reported	Address:	150 S. LOS ROBLES AVE. #200
City:	PASADENA	State:	CA
Zip:	91101	Zip ext:	7215
Pop serv:	155000	Connection:	37200
Area serve:	PASADENA		

E14
NNW
1/2 - 1 Mile
Higher

CA WELLS 473

Seq:	473	Prim sta c:	01N/12W-20A01 S
Frds no:	1910124018	County:	19
District:	15	User id:	MET
System no:	1910124	Water type:	G
Source nam:	SUNSET	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	341000.0	Longitude:	1180900.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1910124	System nam:	Pasadena-City, Water Dept.
Hqname:	Not Reported	Address:	150 S. LOS ROBLES AVE. #200
City:	PASADENA	State:	CA
Zip:	91101	Zip ext:	7215
Pop serv:	155000	Connection:	37200
Area serve:	PASADENA		
Sample date:	29-MAR-18	Finding:	9.6
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	29-MAR-18	Finding:	1.35
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-MAR-18	Finding:	3.99
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-MAR-18	Finding:	0.93
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-MAR-18	Finding:	9.93
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-MAR-18	Finding:	9.85
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-OCT-17	Finding:	9.16
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-OCT-17	Finding:	1.42
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-OCT-17	Finding:	3.53
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-OCT-17	Finding:	0.98
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-OCT-17	Finding:	3.61
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-OCT-17	Finding:	1.15
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-OCT-17	Finding:	9.26
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-OCT-17	Finding:	1.47
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-OCT-17	Finding:	2.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-OCT-17	Finding:	1.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	10-OCT-17	Finding:	9.16
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-OCT-17	Finding:	0.67
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-17	Finding:	1.57
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-17	Finding:	3.58
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-17	Finding:	1.38
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-17	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-SEP-17	Finding:	1.47
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-SEP-17	Finding:	3.29
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-SEP-17	Finding:	1.03
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-SEP-17	Finding:	9.13
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-SEP-17	Finding:	9.26
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-SEP-17	Finding:	1.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-SEP-17	Finding:	3.35
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-SEP-17	Finding:	1.04
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-AUG-17	Finding:	3.37
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-AUG-17	Finding:	1.01
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	15-AUG-17	Finding:	9.56
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-AUG-17	Finding:	1.49
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-AUG-17	Finding:	6.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-AUG-17	Finding:	1.67
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-AUG-17	Finding:	0.274
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-AUG-17	Finding:	7.58
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	240.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	345.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	91.9
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	28.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	32.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	2.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	29.
Chemical:	SILICA	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	150.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		

Sample date:	08-AUG-17	Finding:	2.3
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	08-AUG-17	Finding:	0.16
Chemical:	COBALT	Report units:	UG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	3.8
Chemical:	MOLYDBENDUM	Report units:	UG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	5.6
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	08-AUG-17	Finding:	55.
Chemical:	ALUMINUM	Report units:	UG/L
Dlr:	50.		
Sample date:	08-AUG-17	Finding:	6.1
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	08-AUG-17	Finding:	0.309
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	12.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-AUG-17	Finding:	560.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	0.856
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	3.4e-002
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	897.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	10.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-AUG-17	Finding:	65.8
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-17	Finding:	131.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	08-AUG-17	Finding:	0.57
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L

Dlr:	0.1		
Sample date:	08-AUG-17	Finding:	2.43
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JUL-17	Finding:	9.45
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JUL-17	Finding:	1.04
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JUL-17	Finding:	2.32
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-JUL-17	Finding:	0.87
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-JUL-17	Finding:	9.46
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-JUL-17	Finding:	1.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-JUL-17	Finding:	3.26
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-JUL-17	Finding:	0.98
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUL-17	Finding:	9.48
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JUL-17	Finding:	3.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUL-17	Finding:	0.9
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUL-17	Finding:	1.61
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUL-17	Finding:	3.06
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUL-17	Finding:	1.08
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	05-JUL-17	Finding:	9.75
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-JUL-17	Finding:	9.37
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUL-17	Finding:	1.54
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-JUN-17	Finding:	1.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-JUN-17	Finding:	0.74
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-JUN-17	Finding:	3.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-JUN-17	Finding:	5.64
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-JUN-17	Finding:	1.99
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-JUN-17	Finding:	9.88
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUN-17	Finding:	2.53
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-JUL-16	Finding:	4.74
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-JUL-16	Finding:	1.52
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-JUL-16	Finding:	9.89
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	12-JUL-16	Finding:	9.69
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-JUL-16	Finding:	2.27
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUL-16	Finding:	2.49
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	05-JUL-16	Finding:	5.32
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUL-16	Finding:	1.76
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUN-16	Finding:	9.26
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUN-16	Finding:	1.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUN-16	Finding:	3.47
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUN-16	Finding:	1.15
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-JUN-16	Finding:	3.42
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-JUN-16	Finding:	560.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-16	Finding:	3.e-002
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-JUN-16	Finding:	1.1
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-JUN-16	Finding:	0.21
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	14-JUN-16	Finding:	3.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-16	Finding:	1.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	14-JUN-16	Finding:	18.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	14-JUN-16	Finding:	19.6
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		

Sample date:	14-JUN-16	Finding:	844.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	14-JUN-16	Finding:	844.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	14-JUN-16	Finding:	7.32
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-JUN-16	Finding:	198.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-16	Finding:	9.37
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-JUN-16	Finding:	411.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-16	Finding:	86.2
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-16	Finding:	47.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-16	Finding:	68.4
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUN-16	Finding:	134.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	14-JUN-16	Finding:	0.62
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	14-JUN-16	Finding:	1.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-16	Finding:	9.83
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-JUN-16	Finding:	2.16
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-16	Finding:	4.81
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-16	Finding:	1.29
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	15-DEC-15	Finding:	9.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-DEC-15	Finding:	8.2e-003
Chemical:	1,2,3-TRICHLOROPROPANE	Report units:	UG/L
Dlr:	5.e-003		
Sample date:	15-DEC-15	Finding:	1.53
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-DEC-15	Finding:	2.69
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-DEC-15	Finding:	1.02
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-DEC-15	Finding:	0.98
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-DEC-15	Finding:	9.78
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	08-DEC-15	Finding:	8.96
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-DEC-15	Finding:	1.43
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-DEC-15	Finding:	2.62
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-DEC-15	Finding:	9.08
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-DEC-15	Finding:	9.91
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	01-DEC-15	Finding:	1.43
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-DEC-15	Finding:	2.61
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-DEC-15	Finding:	1.12
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	24-NOV-15	Finding:	8.94
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-NOV-15	Finding:	1.18
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-NOV-15	Finding:	2.33
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-NOV-15	Finding:	1.05
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-NOV-15	Finding:	9.03
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-NOV-15	Finding:	1.26
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-NOV-15	Finding:	2.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-NOV-15	Finding:	1.03
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-NOV-15	Finding:	9.94
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-NOV-15	Finding:	9.06
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-NOV-15	Finding:	1.28
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-NOV-15	Finding:	2.48
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-NOV-15	Finding:	0.9
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-NOV-15	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-NOV-15	Finding:	1.06
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-NOV-15	Finding:	1.99
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	03-NOV-15	Finding:	0.86
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-OCT-15	Finding:	8.79
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	27-OCT-15	Finding:	1.21
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-OCT-15	Finding:	2.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-OCT-15	Finding:	38.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-OCT-15	Finding:	0.84
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-OCT-15	Finding:	8.77
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-OCT-15	Finding:	1.42
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-OCT-15	Finding:	2.52
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	20-OCT-15	Finding:	38.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	20-OCT-15	Finding:	0.92
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-OCT-15	Finding:	8.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-OCT-15	Finding:	0.8
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-OCT-15	Finding:	1.22
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-OCT-15	Finding:	2.32
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	13-OCT-15	Finding:	39.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-OCT-15	Finding:	2.82
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-OCT-15	Finding:	39.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-OCT-15	Finding:	0.93
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-OCT-15	Finding:	8.88
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-OCT-15	Finding:	1.44
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-SEP-15	Finding:	1.28
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-SEP-15	Finding:	2.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	29-SEP-15	Finding:	39.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-SEP-15	Finding:	0.89
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-15	Finding:	65.3
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	22-SEP-15	Finding:	126.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	22-SEP-15	Finding:	0.61
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	22-SEP-15	Finding:	1.35
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-15	Finding:	2.68
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-15	Finding:	39.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	22-SEP-15	Finding:	0.86
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-SEP-15	Finding:	1.13
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-SEP-15	Finding:	2.26
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-SEP-15	Finding:	41.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-SEP-15	Finding:	0.81
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-SEP-15	Finding:	0.69
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-SEP-15	Finding:	1.43
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-SEP-15	Finding:	39.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-SEP-15	Finding:	0.56
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-SEP-15	Finding:	1.16
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-SEP-15	Finding:	2.55
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-SEP-15	Finding:	40.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-SEP-15	Finding:	0.92
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-AUG-15	Finding:	1.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-AUG-15	Finding:	2.92
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	25-AUG-15	Finding:	1.07
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	25-AUG-15	Finding:	40.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-AUG-15	Finding:	1.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-AUG-15	Finding:	2.71
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-AUG-15	Finding:	39.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-AUG-15	Finding:	0.99
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-AUG-15	Finding:	2.57
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-AUG-15	Finding:	562.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	0.14
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	39.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-AUG-15	Finding:	0.96
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-AUG-15	Finding:	0.41
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-AUG-15	Finding:	1.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	11-AUG-15	Finding:	18.7
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	1.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	930.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US

Dlr:	0.		
Sample date:	11-AUG-15	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	206.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	206.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	388.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	104.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	31.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-AUG-15	Finding:	1.19
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JUL-15	Finding:	39.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-JUL-15	Finding:	2.61
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JUL-15	Finding:	0.91
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-JUL-15	Finding:	1.19
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUL-15	Finding:	0.83
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUL-15	Finding:	1.03
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-JUL-15	Finding:	38.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	21-JUL-15	Finding:	2.48
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	14-JUL-15	Finding:	0.85
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-JUL-15	Finding:	1.08
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-JUL-15	Finding:	2.49
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-JUL-15	Finding:	39.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUL-15	Finding:	2.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUL-15	Finding:	39.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUL-15	Finding:	1.15
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUL-15	Finding:	0.82
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-JUN-15	Finding:	1.11
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-JUN-15	Finding:	0.75
Chemical:	1,1-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-JUN-15	Finding:	39.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-JUN-15	Finding:	2.44
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JUN-15	Finding:	0.96
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JUN-15	Finding:	2.31
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JUN-15	Finding:	39.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-JUN-15	Finding:	0.62
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	16-JUN-15	Finding:	2.16
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-JUN-15	Finding:	0.95
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-JUN-15	Finding:	39.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-JUN-15	Finding:	0.56
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JUN-15	Finding:	1.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JUN-15	Finding:	2.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JUN-15	Finding:	0.65
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JUN-15	Finding:	41.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUN-15	Finding:	3.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JUN-15	Finding:	1.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JUN-15	Finding:	0.59
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JUN-15	Finding:	43.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUN-15	Finding:	9.67
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	21-NOV-14	Finding:	160.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	21-NOV-14	Finding:	2.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		

Sample date:	21-NOV-14	Finding:	36.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-NOV-14	Finding:	13.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	12-AUG-14	Finding:	346.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	97.8
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	24.7
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	58.7
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	111.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	12-AUG-14	Finding:	0.59
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-AUG-14	Finding:	0.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-AUG-14	Finding:	3.04
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-AUG-14	Finding:	488.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	46.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-AUG-14	Finding:	0.87
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	12-AUG-14	Finding:	184.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	6.91
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	828.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US

Dlr:	0.		
Sample date:	12-AUG-14	Finding:	21.2
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	4.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	21-AUG-13	Finding:	2.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	21-AUG-13	Finding:	36.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	47.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-AUG-13	Finding:	0.23
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	530.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	7.05
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-AUG-13	Finding:	2.67
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-AUG-13	Finding:	0.57
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	14-AUG-13	Finding:	124.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	14-AUG-13	Finding:	62.3
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	32.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	96.3
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	372.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	14-AUG-13	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	7.47
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	876.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	4.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	19.7
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	14-AUG-13	Finding:	0.65
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	14-AUG-13	Finding:	2.06
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JUL-13	Finding:	1.58
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JUL-13	Finding:	46.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-JUL-13	Finding:	5.55
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JUL-13	Finding:	2.03
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUN-13	Finding:	46.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JUN-13	Finding:	5.28
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUN-13	Finding:	1.83
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUN-13	Finding:	1.39
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	07-MAY-13	Finding:	46.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	4.53
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-13	Finding:	1.44
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-13	Finding:	1.17
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-APR-13	Finding:	1.17
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-APR-13	Finding:	3.73
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-APR-13	Finding:	47.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-APR-13	Finding:	0.71
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-MAR-13	Finding:	1.25
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-MAR-13	Finding:	48.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-MAR-13	Finding:	0.85
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-MAR-13	Finding:	4.42
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-FEB-13	Finding:	1.89
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-FEB-13	Finding:	5.87
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-FEB-13	Finding:	48.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	05-FEB-13	Finding:	1.32
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-JAN-13	Finding:	2.74
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-JAN-13	Finding:	7.57
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-JAN-13	Finding:	47.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-JAN-13	Finding:	2.08
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-JAN-13	Finding:	9.86
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	19-DEC-12	Finding:	2.57
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-DEC-12	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	19-DEC-12	Finding:	8.85
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	19-DEC-12	Finding:	3.15
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-NOV-12	Finding:	2.64
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-NOV-12	Finding:	46.3
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-NOV-12	Finding:	9.13
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-NOV-12	Finding:	3.46
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-OCT-12	Finding:	46.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-OCT-12	Finding:	2.63
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	10-OCT-12	Finding:	3.42
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-OCT-12	Finding:	9.18
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-SEP-12	Finding:	2.84
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-SEP-12	Finding:	45.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-SEP-12	Finding:	4.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-SEP-12	Finding:	10.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-AUG-12	Finding:	508.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	8.63
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-AUG-12	Finding:	3.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-AUG-12	Finding:	0.65
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-AUG-12	Finding:	125.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	08-AUG-12	Finding:	34.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	86.6
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	356.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	196.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	08-AUG-12	Finding:	196.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	7.32
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	831.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	3.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	26.3
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	9.e-002
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-AUG-12	Finding:	47.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-AUG-12	Finding:	2.26
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-AUG-12	Finding:	0.379
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	08-AUG-12	Finding:	9.75
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	08-AUG-12	Finding:	62.4
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUL-12	Finding:	2.15
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JUL-12	Finding:	48.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUL-12	Finding:	3.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-JUL-12	Finding:	8.23
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUN-12	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	06-JUN-12	Finding:	7.99
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUN-12	Finding:	2.99
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUN-12	Finding:	1.99
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAY-12	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-12	Finding:	8.15
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAY-12	Finding:	3.21
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAY-12	Finding:	2.
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-APR-12	Finding:	2.83
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-APR-12	Finding:	7.65
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-APR-12	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-APR-12	Finding:	1.68
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-MAR-12	Finding:	6.67
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-MAR-12	Finding:	47.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-MAR-12	Finding:	1.31
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-MAR-12	Finding:	2.71
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	07-FEB-12	Finding:	1.4
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-FEB-12	Finding:	2.69
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-FEB-12	Finding:	7.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-FEB-12	Finding:	47.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JAN-12	Finding:	1.96
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	11-JAN-12	Finding:	2.83
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JAN-12	Finding:	7.09
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JAN-12	Finding:	47.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-JAN-12	Finding:	1.49
Chemical:	CIS-1,2-DICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JAN-12	Finding:	1.96
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

15
NW
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000006918**

Well ID:	1910124-028	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	BANGHAM	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1910124-028&store_num=		
GeoTracker Data:	Not Reported		

16
NW
1/2 - 1 Mile
Higher

CA WELLS **CADPR0000000961**

Well ID:	91294	Well Type:	UNK
Source:	Department of Pesticide Regulation		

Other Name:	91294	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=91294&store_num=		
GeoTracker Data:	Not Reported		

F17
WNW **CA WELLS** **CADWR0000037627**
1/2 - 1 Mile
Higher

Well ID:	01N12W20B001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01N12W20B001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01N12W20B001S&store_num=		
GeoTracker Data:	Not Reported		

18
WNW **FED USGS** **USGS40000142268**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N012W20B001S	Type:	Well
Description:	Not Reported	HUC:	18070105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	700
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

F19
WNW **CA WELLS** **CADDW0000000673**
1/2 - 1 Mile
Higher

Well ID:	1910124-006	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	COPELIN-INACTIVE 2/16/18	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1910124-006&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91101	35	1

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX G

NOISE DATA AND CALCULATIONS

Summary

File Name on Meter	LxT_Data.044.s
File Name on PC	LxT_0004615-20210410 211207-LxT_Data.044.ldbi
Serial Number	0004615
Model	SoundTrack LxT®
Firmware Version	2.301
User	
Location	
Job Description	
Note	

Measurement

Description	
Start	2021-04-10 21:12:07
Stop	2021-04-12 08:24:34
Duration	24:26:01.703
Run Time	24:26:01.703
Pause	00:00:00.0
Pre-Calibration	2021-03-11 11:02:53
Post-Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	A Weighting
Detector	Slow
Preamplifier	PRMLxT1
Microphone Correction	Off
Integration Method	Linear
Overload	141.9 dB

	A	**C**	**Z**	
Under Range Peak	**98.1**	95.1	100.1	dB
Under Range Limit	**36.1**	34.1	42.1	dB
Noise Floor	23.4	23.9	31.3	dB

Results

L_{Aeq}	58.4		
LAE	107.8		
EA	6.727	mPa²h	
EA8	2.203	mPa²h	
EA40	11.013	mPa²h	
$L_{Apeak\ (max)}$	2021-04-12 08:24:32	114.8	dB
L_{ASmax}	2021-04-11 07:58:58	86.1	dB
L_{ASmin}	2021-04-12 01:16:42	40.2	dB
SEA	-99.94	dB	

LAS > 85.0 dB (Exceedance Counts / Duration)	1	0.9 s
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s
L_{Apeak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
L_{Apeak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
L_{Apeak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

L_{Ceq}	69.0	dB
L_{Aeq}	58.4	dB
L_{Ceq} - L_{Aeq}	10.7	dB
L_{AIeq}	61.7	dB
L_{Aeq}	58.4	dB
L_{AIeq} - L_{Aeq}	3.3	dB

	A		**C**		**Z**	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**

L_{eq}	58.4		69.0			
$L_{S(max)}$	86.1	2021/04/11 7:58:58				
$L_{S(min)}$	40.2	2021/04/12 1:16:42				
$L_{Peak(max)}$	114.8	2021/04/12 8:24:32				

Overload Count	0	
Overload Duration	0.0	s

Dose Settings

Dose Name	OSHA-1	OSHA-2	
Exchange Rate	5	5	dB
Threshold	90	80	dB
Criterion Level	90	90	dB
Criterion Duration	8	8	h

Results

Dose	-99.94	0.01	%
Projected Dose	-99.94	0.00	%
TWA (Projected)	-99.94	13.2	dB
TWA (t)	-99.94	21.3	dB
Lep (t)	63.2	63.2	dB

Statistics

LAI1.70	66.5	dB
LAI8.30	59.0	dB
LAI25.00	54.8	dB
LAI50.00	52.1	dB
LAI75.00	49.5	dB
LAI90.00	47.3	dB

Calibration History

Preamp	**Date**	**dB re. 1V/Pa**	**6.3**	**8.0**	**10.0**
PRMLxT1	2021-04-11 07:53:56	-48.16			
PRMLxT1	2021-04-10 21:15:04	-48.20			
PRMLxT1	2021-03-11 11:02:53	-48.35			
PRMLxT1	2021-03-11 09:14:28	-48.21			
PRMLxT1	2021-03-02 14:03:01	-48.13			
PRMLxT1	2021-03-02 13:18:14	-48.21			
PRMLxT1	2021-02-23 15:39:58	-48.20			
PRMLxT1	2021-02-23 14:06:46	-48.22			
PRMLxT1	2020-07-28 12:41:27	-48.31			
PRMLxT1	2020-07-27 12:18:49	-48.26			
PRMLxT1	2020-02-27 14:57:45	-48.18			

Record #	Date	Time	Run Duration	Run Time	Pause	LAeq	LAE	LASmin	LASmin Time	LASmax	LASmax Time	LApeak (max)	LApeak (max) Time
1	2021-04-10	21:12:07	00:00:10.2	00:00:10.2	00:00:00.0	51.2	61.3	48.5	21:12:12	55.6	21:12:08	77.6	21:12:08
2	2021-04-11	07:58:43	00:00:16.8	00:00:16.8	00:00:00.0	75.8	88.1	47.9	07:58:48	86.1	07:58:58	110.6	07:58:58
3	2021-04-11	07:59:00	00:01:00.0	00:01:00.0	00:00:00.0	67.9	85.7	55.4	07:59:41	81.5	07:59:00	105.4	07:59:43
4	2021-04-11	08:00:00	00:01:00.0	00:01:00.0	00:00:00.0	63.5	81.3	48.0	08:00:58	76.8	08:00:00	102.8	08:00:00
5	2021-04-11	08:01:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	48.0	08:01:29	58.9	08:01:01	86.7	08:01:01
6	2021-04-11	08:02:00	00:01:00.0	00:01:00.0	00:00:00.0	60.6	78.3	48.3	08:02:04	71.4	08:02:55	96.6	08:02:55
7	2021-04-11	08:03:00	00:01:00.0	00:01:00.0	00:00:00.0	61.3	79.0	49.0	08:03:39	74.7	08:03:00	98.6	08:03:00
8	2021-04-11	08:04:00	00:01:00.0	00:01:00.0	00:00:00.0	57.3	75.1	49.0	08:04:30	68.7	08:04:15	96.8	08:04:02
9	2021-04-11	08:05:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	47.4	08:05:24	67.1	08:05:50	86.7	08:05:49
10	2021-04-11	08:06:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	47.5	08:06:17	61.6	08:06:06	86.7	08:06:06
11	2021-04-11	08:07:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	48.6	08:07:37	65.2	08:07:50	83.5	08:07:50
12	2021-04-11	08:08:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	49.4	08:08:12	59.2	08:08:41	72.2	08:08:40
13	2021-04-11	08:09:00	00:01:00.0	00:01:00.0	00:00:00.0	58.2	75.9	49.9	08:09:10	69.3	08:09:23	87.9	08:09:23
14	2021-04-11	08:10:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.8	49.0	08:10:10	55.0	08:10:32	68.6	08:10:31
15	2021-04-11	08:11:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.3	51.2	08:11:24	58.5	08:11:42	72.8	08:11:42
16	2021-04-11	08:12:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	48.7	08:12:18	53.0	08:12:59	65.6	08:12:00
17	2021-04-11	08:13:00	00:01:00.0	00:01:00.0	00:00:00.0	63.4	81.2	50.7	08:13:59	77.8	08:13:06	89.4	08:13:06
18	2021-04-11	08:14:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.8	49.8	08:14:19	53.2	08:14:42	79.2	08:14:39
19	2021-04-11	08:15:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	49.1	08:15:46	62.3	08:15:09	87.0	08:15:09
20	2021-04-11	08:16:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.2	49.7	08:16:25	52.0	08:16:11	76.4	08:16:40
21	2021-04-11	08:17:00	00:01:00.0	00:01:00.0	00:00:00.0	67.4	85.2	49.8	08:17:59	79.7	08:17:46	94.5	08:17:45
22	2021-04-11	08:18:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	48.7	08:18:32	58.0	08:18:53	77.2	08:18:23
23	2021-04-11	08:19:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	48.1	08:19:12	63.8	08:19:24	85.6	08:19:24
24	2021-04-11	08:20:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.0	49.2	08:20:01	51.7	08:20:35	67.6	08:20:06
25	2021-04-11	08:21:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	49.8	08:21:43	62.7	08:21:26	75.3	08:21:25
26	2021-04-11	08:22:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	50.0	08:22:57	59.5	08:22:26	72.5	08:22:25
27	2021-04-11	08:23:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.3	49.4	08:23:32	53.9	08:23:56	72.7	08:23:56
28	2021-04-11	08:24:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	50.0	08:24:57	53.0	08:24:01	72.5	08:24:01
29	2021-04-11	08:25:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	71.9	48.4	08:25:06	64.0	08:25:34	84.9	08:25:12
30	2021-04-11	08:26:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	48.9	08:26:01	68.3	08:26:51	89.5	08:26:24
31	2021-04-11	08:27:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.5	08:27:22	52.8	08:27:04	65.6	08:27:04
32	2021-04-11	08:28:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.5	50.4	08:28:02	67.9	08:28:59	92.4	08:28:59
33	2021-04-11	08:29:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	49.9	08:29:38	66.1	08:29:00	92.4	08:29:00
34	2021-04-11	08:30:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	51.3	08:30:00	58.5	08:30:59	72.0	08:30:59
35	2021-04-11	08:31:00	00:01:00.0	00:01:00.0	00:00:00.0	60.7	78.5	55.7	08:31:40	65.2	08:31:26	81.7	08:31:54
36	2021-04-11	08:32:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.5	51.6	08:32:28	66.9	08:32:38	82.1	08:32:37
37	2021-04-11	08:33:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.7	52.0	08:33:52	65.5	08:33:03	78.1	08:33:03
38	2021-04-11	08:34:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.4	08:34:50	54.6	08:34:06	66.9	08:34:05
39	2021-04-11	08:35:00	00:01:00.0	00:01:00.0	00:00:00.0	58.5	76.3	49.7	08:35:59	68.7	08:35:30	82.4	08:35:29
40	2021-04-11	08:36:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	48.8	08:36:12	52.4	08:36:40	69.4	08:36:46
41	2021-04-11	08:37:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.2	49.5	08:37:16	51.3	08:37:37	64.5	08:37:25
42	2021-04-11	08:38:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	49.6	08:38:00	58.3	08:38:17	74.1	08:38:17
43	2021-04-11	08:39:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	49.1	08:39:04	58.4	08:39:58	73.1	08:39:21
44	2021-04-11	08:40:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	49.3	08:40:59	60.8	08:40:12	75.5	08:40:11
45	2021-04-11	08:41:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	49.4	08:41:00	56.4	08:41:26	69.6	08:41:05
46	2021-04-11	08:42:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.5	50.0	08:42:16	55.4	08:42:37	69.1	08:42:35
47	2021-04-11	08:43:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.1	50.1	08:43:23	58.0	08:43:11	72.9	08:43:47
48	2021-04-11	08:44:00	00:01:00.0	00:01:00.0	00:00:00.0	59.1	76.9	52.9	08:44:50	66.8	08:44:19	85.0	08:44:19
49	2021-04-11	08:45:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	52.9	08:45:16	58.9	08:45:31	78.3	08:45:31
50	2021-04-11	08:46:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	52.8	08:46:55	59.6	08:46:14	73.9	08:46:14
51	2021-04-11	08:47:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	50.4	08:47:31	62.7	08:47:08	82.4	08:47:15
52	2021-04-11	08:48:00	00:01:00.0	00:01:00.0	00:00:00.0	49.8	67.6	49.2	08:48:56	50.7	08:48:23	66.1	08:48:23
53	2021-04-11	08:49:00	00:01:00.0	00:01:00.0	00:00:00.0	58.5	76.2	49.4	08:49:01	68.5	08:49:57	84.5	08:49:57
54	2021-04-11	08:50:00	00:01:00.0	00:01:00.0	00:00:00.0	59.8	77.6	50.8	08:50:12	66.4	08:50:48	82.2	08:50:00
55	2021-04-11	08:51:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	51.1	08:51:52	63.1	08:51:41	81.0	08:51:41
56	2021-04-11	08:52:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	50.1	08:52:42	60.7	08:52:55	81.6	08:52:46
57	2021-04-11	08:53:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.1	48.0	08:53:38	66.4	08:53:02	87.4	08:53:02
58	2021-04-11	08:54:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	47.8	08:54:10	51.6	08:54:34	65.1	08:54:18
59	2021-04-11	08:55:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.0	48.6	08:55:16	56.2	08:55:48	71.0	08:55:48
60	2021-04-11	08:56:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	48.6	08:56:02	64.0	08:56:52	78.7	08:56:17
61	2021-04-11	08:57:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	48.8	08:57:37	63.2	08:57:45	79.0	08:57:44
62	2021-04-11	08:58:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	47.6	08:58:18	52.3	08:58:23	71.1	08:58:37
63	2021-04-11	08:59:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	49.0	08:59:30	69.2	08:59:11	90.7	08:59:11
64	2021-04-11	09:00:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	48.9	09:00:36	56.3	09:00:07	73.0	09:00:06
65	2021-04-11	09:01:00	00:01:00.0	00:01:00.0	00:00:00.0	57.3	75.1	48.3	09:01:07	67.6	09:01:38	81.2	09:01:38
66	2021-04-11	09:02:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	48.2	09:02:03	52.5	09:02:47	65.4	09:02:47
67	2021-04-11	09:03:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	49.1	09:03:22	53.4	09:03:58	69.1	09:03:51
68	2021-04-11	09:04:00	00:01:00.0	00:01:00.0	00:00:00.0	57.6	75.4	51.4	09:04:03	67.4	09:04:10	83.7	09:04:10
69	2021-04-11	09:05:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	73.9	50.3	09:05:33	64.2	09:05:09	83.4	09:05:14
70	2021-04-11	09:06:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.4	49.0	09:06:22	69.3	09:06:55	85.7	09:06:54
71	2021-04-11	09:07:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.0	50.8	09:07:25	57.8	09:07:17	74.6	09:07:16
72	2021-04-11	09:08:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	48.7	09:08:56	64.9	09:08:39	79.5	09:08:37

73	2021-04-11	09:09:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	48.9	09:09:29	51.8	09:09:41	66.5	09:09:48
74	2021-04-11	09:10:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	49.6	09:10:00	56.1	09:10:59	70.9	09:10:59
75	2021-04-11	09:11:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.2	49.6	09:11:40	62.7	09:11:03	79.5	09:11:03
76	2021-04-11	09:12:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	49.0	09:12:26	53.0	09:12:57	74.9	09:12:57
77	2021-04-11	09:13:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	49.7	09:13:55	63.0	09:13:43	79.6	09:13:43
78	2021-04-11	09:14:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	50.5	09:14:12	56.1	09:14:00	75.0	09:14:44
79	2021-04-11	09:15:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	51.3	09:15:57	55.2	09:15:47	79.1	09:15:47
80	2021-04-11	09:16:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	50.6	09:16:33	63.1	09:16:56	77.1	09:16:09
81	2021-04-11	09:17:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.0	09:17:48	58.4	09:17:00	73.4	09:17:05
82	2021-04-11	09:18:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	48.9	09:18:17	52.7	09:18:54	72.8	09:18:28
83	2021-04-11	09:19:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	50.7	09:19:36	67.1	09:19:25	87.9	09:19:40
84	2021-04-11	09:20:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	49.6	09:20:36	63.7	09:20:10	79.7	09:20:10
85	2021-04-11	09:21:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	49.9	09:21:45	58.6	09:21:12	75.3	09:21:11
86	2021-04-11	09:22:00	00:01:00.0	00:01:00.0	00:00:00.0	64.6	82.4	49.7	09:22:01	78.4	09:22:19	92.0	09:22:18
87	2021-04-11	09:23:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	48.8	09:23:52	57.7	09:23:24	83.2	09:23:36
88	2021-04-11	09:24:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	49.3	09:24:23	65.1	09:24:09	83.0	09:24:08
89	2021-04-11	09:25:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	49.0	09:25:31	58.1	09:25:25	78.2	09:25:57
90	2021-04-11	09:26:00	00:01:00.0	00:01:00.0	00:00:00.0	60.3	78.0	55.7	09:26:56	74.5	09:26:21	102.5	09:26:21
91	2021-04-11	09:27:00	00:01:00.0	00:01:00.0	00:00:00.0	58.8	76.6	55.1	09:27:48	67.0	09:27:59	84.2	09:27:55
92	2021-04-11	09:28:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.1	52.7	09:28:43	66.3	09:28:00	82.8	09:28:53
93	2021-04-11	09:29:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.6	52.5	09:29:59	57.3	09:29:23	77.9	09:29:20
94	2021-04-11	09:30:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	52.5	09:30:18	60.0	09:30:51	86.1	09:30:21
95	2021-04-11	09:31:00	00:01:00.0	00:01:00.0	00:00:00.0	58.1	75.9	52.8	09:31:49	67.2	09:31:14	91.1	09:31:13
96	2021-04-11	09:32:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	50.6	09:32:38	63.2	09:32:15	87.9	09:32:15
97	2021-04-11	09:33:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	51.6	09:33:00	57.4	09:33:56	74.2	09:33:21
98	2021-04-11	09:34:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.5	53.5	09:34:38	62.2	09:34:13	82.2	09:34:13
99	2021-04-11	09:35:00	00:01:00.0	00:01:00.0	00:00:00.0	58.6	76.3	53.4	09:35:41	69.6	09:35:30	88.1	09:35:29
100	2021-04-11	09:36:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.1	53.7	09:36:04	64.3	09:36:57	86.1	09:36:57
101	2021-04-11	09:37:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	53.5	09:37:58	62.1	09:37:00	77.4	09:37:00
102	2021-04-11	09:38:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	53.5	09:38:44	55.7	09:38:55	73.0	09:38:55
103	2021-04-11	09:39:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	53.5	09:39:15	55.8	09:39:57	80.1	09:39:46
104	2021-04-11	09:40:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	54.0	09:40:05	57.6	09:40:58	71.4	09:40:57
105	2021-04-11	09:41:00	00:01:00.0	00:01:00.0	00:00:00.0	57.6	75.4	54.6	09:41:36	62.6	09:41:53	77.7	09:41:32
106	2021-04-11	09:42:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	54.2	09:42:59	56.6	09:42:01	75.2	09:42:55
107	2021-04-11	09:43:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.6	53.8	09:43:41	61.8	09:43:29	78.7	09:43:28
108	2021-04-11	09:44:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	54.0	09:44:32	60.0	09:44:54	76.2	09:44:52
109	2021-04-11	09:45:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	54.2	09:45:04	60.1	09:45:23	79.1	09:45:23
110	2021-04-11	09:46:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	54.8	09:46:44	58.1	09:46:19	75.5	09:46:17
111	2021-04-11	09:47:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	54.3	09:47:27	56.7	09:47:12	78.7	09:47:00
112	2021-04-11	09:48:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	54.6	09:48:53	68.0	09:48:36	84.0	09:48:35
113	2021-04-11	09:49:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	54.0	09:49:48	64.9	09:49:30	80.7	09:49:30
114	2021-04-11	09:50:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	54.4	09:50:05	64.0	09:50:14	84.4	09:50:13
115	2021-04-11	09:51:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	54.5	09:51:56	58.5	09:51:59	77.7	09:51:31
116	2021-04-11	09:52:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.2	54.5	09:52:13	61.6	09:52:55	76.9	09:52:55
117	2021-04-11	09:53:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	54.6	09:53:49	59.8	09:53:59	77.9	09:53:20
118	2021-04-11	09:54:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.0	54.3	09:54:07	71.6	09:54:34	96.5	09:54:34
119	2021-04-11	09:55:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	54.5	09:55:49	58.8	09:55:11	84.7	09:55:11
120	2021-04-11	09:56:00	00:01:00.0	00:01:00.0	00:00:00.0	57.3	75.1	53.8	09:56:51	63.9	09:56:28	86.5	09:56:53
121	2021-04-11	09:57:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	53.7	09:57:02	59.9	09:57:59	85.1	09:57:59
122	2021-04-11	09:58:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	54.1	09:58:58	61.2	09:58:38	85.1	09:58:00
123	2021-04-11	09:59:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	53.6	09:59:57	64.5	09:59:46	85.0	09:59:18
124	2021-04-11	10:00:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	53.6	10:00:48	60.4	10:00:35	89.6	10:00:34
125	2021-04-11	10:01:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	52.9	10:01:32	63.1	10:01:52	88.8	10:01:52
126	2021-04-11	10:02:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	54.4	10:02:44	61.9	10:02:48	87.4	10:02:48
127	2021-04-11	10:03:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	53.3	10:03:35	64.4	10:03:12	80.4	10:03:41
128	2021-04-11	10:04:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	53.9	10:04:01	66.4	10:04:59	80.3	10:04:59
129	2021-04-11	10:05:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	54.1	10:05:34	66.9	10:05:00	80.8	10:05:00
130	2021-04-11	10:06:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.0	54.0	10:06:27	66.6	10:06:50	88.4	10:06:51
131	2021-04-11	10:07:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.2	53.9	10:07:15	59.8	10:07:03	85.7	10:07:03
132	2021-04-11	10:08:00	00:01:00.0	00:01:00.0	00:00:00.0	58.8	76.6	54.5	10:08:15	65.3	10:08:22	82.2	10:08:07
133	2021-04-11	10:09:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	55.4	10:09:13	63.5	10:09:02	82.3	10:09:02
134	2021-04-11	10:10:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.7	54.7	10:10:26	65.4	10:10:59	81.1	10:10:59
135	2021-04-11	10:11:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.1	54.7	10:11:59	67.1	10:11:01	81.1	10:11:00
136	2021-04-11	10:12:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.5	54.3	10:12:58	58.4	10:12:21	77.5	10:12:01
137	2021-04-11	10:13:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.6	54.7	10:13:28	58.5	10:13:15	76.6	10:13:51
138	2021-04-11	10:14:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	54.1	10:14:52	61.9	10:14:33	81.9	10:14:21
139	2021-04-11	10:15:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	49.7	10:15:50	59.8	10:15:13	76.7	10:15:11
140	2021-04-11	10:16:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.2	10:16:34	54.1	10:16:56	80.5	10:16:17
141	2021-04-11	10:17:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.6	49.7	10:17:20	65.6	10:17:41	82.3	10:17:41
142	2021-04-11	10:18:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	48.9	10:18:10	67.1	10:18:43	82.9	10:18:42
143	2021-04-11	10:19:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	49.2	10:19:48	59.5	10:19:30	75.2	10:19:29
144	2021-04-11	10:20:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.3	50.2	10:20:55	58.6	10:20:42	82.1	10:20:44
145	2021-04-11	10:21:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	48.6	10:21:57	64.8	10:21:37	87.0	10:21:50

146	2021-04-11	10:22:00	00:01:00.0	00:01:00.0	00:00:00.0	58.5	76.2	48.7	10:22:10	70.8	10:22:29	88.8	10:22:02
147	2021-04-11	10:23:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.7	50.1	10:23:22	64.7	10:23:51	80.0	10:23:14
148	2021-04-11	10:24:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	50.5	10:24:00	64.8	10:24:25	79.6	10:24:24
149	2021-04-11	10:25:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	50.0	10:25:05	65.7	10:25:36	82.2	10:25:35
150	2021-04-11	10:26:00	00:01:00.0	00:01:00.0	00:00:00.0	58.2	76.0	50.9	10:26:35	68.6	10:26:55	82.3	10:26:54
151	2021-04-11	10:27:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	50.7	10:27:43	64.5	10:27:33	79.9	10:27:27
152	2021-04-11	10:28:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	50.4	10:28:19	63.4	10:28:38	81.5	10:28:22
153	2021-04-11	10:29:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.6	50.1	10:29:10	65.5	10:29:28	79.5	10:29:28
154	2021-04-11	10:30:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	49.7	10:30:41	61.6	10:30:54	80.2	10:30:20
155	2021-04-11	10:31:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	50.4	10:31:45	65.4	10:31:07	80.4	10:31:20
156	2021-04-11	10:32:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	50.3	10:32:27	60.9	10:32:05	90.2	10:32:05
157	2021-04-11	10:33:00	00:01:00.0	00:01:00.0	00:00:00.0	64.0	81.8	50.4	10:33:30	75.4	10:33:11	94.4	10:33:49
158	2021-04-11	10:34:00	00:01:00.0	00:01:00.0	00:00:00.0	77.7	95.5	63.5	10:34:00	79.9	10:34:11	92.8	10:34:11
159	2021-04-11	10:35:00	00:01:00.0	00:01:00.0	00:00:00.0	78.9	96.7	78.1	10:35:22	79.6	10:35:42	92.6	10:35:42
160	2021-04-11	10:36:00	00:01:00.0	00:01:00.0	00:00:00.0	79.3	97.1	79.0	10:36:45	79.6	10:36:23	93.7	10:36:47
161	2021-04-11	10:37:00	00:01:00.0	00:01:00.0	00:00:00.0	78.4	96.2	77.9	10:37:50	79.5	10:37:00	95.5	10:37:54
162	2021-04-11	10:38:00	00:01:00.0	00:01:00.0	00:00:00.0	77.6	95.4	70.1	10:38:59	78.3	10:38:18	91.8	10:38:23
163	2021-04-11	10:39:00	00:01:00.0	00:01:00.0	00:00:00.0	61.9	79.7	54.8	10:39:58	70.1	10:39:00	82.6	10:39:00
164	2021-04-11	10:40:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	51.4	10:40:24	63.3	10:40:05	92.5	10:40:05
165	2021-04-11	10:41:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	50.7	10:41:51	57.5	10:41:31	85.6	10:41:31
166	2021-04-11	10:42:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	51.3	10:42:34	55.9	10:42:07	73.7	10:42:13
167	2021-04-11	10:43:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	49.8	10:43:48	55.3	10:43:05	81.4	10:43:55
168	2021-04-11	10:44:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.2	10:44:04	53.9	10:44:10	82.6	10:44:38
169	2021-04-11	10:45:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	49.7	10:45:33	55.7	10:45:20	71.7	10:45:50
170	2021-04-11	10:46:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.2	10:46:11	54.6	10:46:57	77.4	10:46:57
171	2021-04-11	10:47:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	50.1	10:47:09	56.9	10:47:52	74.2	10:47:48
172	2021-04-11	10:48:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.1	49.7	10:48:27	61.0	10:48:36	83.8	10:48:57
173	2021-04-11	10:49:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.8	49.8	10:49:59	58.7	10:49:35	89.0	10:49:35
174	2021-04-11	10:50:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	50.0	10:50:00	62.1	10:50:54	76.0	10:50:45
175	2021-04-11	10:51:00	00:01:00.0	00:01:00.0	00:00:00.0	57.6	75.3	50.9	10:51:59	68.2	10:51:04	85.0	10:51:05
176	2021-04-11	10:52:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	51.1	10:52:01	61.1	10:52:13	83.2	10:52:58
177	2021-04-11	10:53:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.7	50.4	10:53:39	68.4	10:53:49	81.8	10:53:49
178	2021-04-11	10:54:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.4	52.2	10:54:18	68.6	10:54:34	88.3	10:54:11
179	2021-04-11	10:55:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	51.4	10:55:11	62.7	10:55:17	86.4	10:55:20
180	2021-04-11	10:56:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	51.7	10:56:55	59.2	10:56:00	87.2	10:56:46
181	2021-04-11	10:57:00	00:01:00.0	00:01:00.0	00:00:00.0	55.3	73.1	51.9	10:57:42	60.4	10:57:27	84.9	10:57:26
182	2021-04-11	10:58:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	52.6	10:58:24	62.1	10:58:55	88.2	10:58:43
183	2021-04-11	10:59:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.6	53.7	10:59:39	62.8	10:59:49	88.2	10:59:49
184	2021-04-11	11:00:00	00:01:00.0	00:01:00.0	00:00:00.0	58.6	76.4	53.2	11:00:36	67.6	11:00:09	87.6	11:00:09
185	2021-04-11	11:01:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.1	52.1	11:01:47	62.6	11:01:11	77.5	11:01:11
186	2021-04-11	11:02:00	00:01:00.0	00:01:00.0	00:00:00.0	58.1	75.9	52.6	11:02:06	67.3	11:02:32	80.7	11:02:32
187	2021-04-11	11:03:00	00:01:00.0	00:01:00.0	00:00:00.0	60.1	77.9	52.6	11:03:16	70.9	11:03:41	84.9	11:03:41
188	2021-04-11	11:04:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.3	51.9	11:04:22	57.3	11:04:16	73.3	11:04:29
189	2021-04-11	11:05:00	00:01:00.0	00:01:00.0	00:00:00.0	58.5	76.3	52.0	11:05:07	68.9	11:05:48	84.1	11:05:47
190	2021-04-11	11:06:00	00:01:00.0	00:01:00.0	00:00:00.0	57.3	75.1	52.5	11:06:25	64.1	11:06:11	80.9	11:06:10
191	2021-04-11	11:07:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.1	53.2	11:07:38	62.3	11:07:25	79.9	11:07:23
192	2021-04-11	11:08:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.1	51.6	11:08:54	68.6	11:08:38	82.0	11:08:38
193	2021-04-11	11:09:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	51.3	11:09:33	60.1	11:09:18	74.3	11:09:04
194	2021-04-11	11:10:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	51.0	11:10:15	60.2	11:10:53	73.8	11:10:21
195	2021-04-11	11:11:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	51.6	11:11:31	58.5	11:11:09	77.2	11:11:57
196	2021-04-11	11:12:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	51.7	11:12:28	60.3	11:12:18	76.9	11:12:24
197	2021-04-11	11:13:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.1	52.1	11:13:59	61.5	11:13:20	79.8	11:13:20
198	2021-04-11	11:14:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	51.6	11:14:55	62.0	11:14:44	82.6	11:14:44
199	2021-04-11	11:15:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	50.6	11:15:08	61.9	11:15:58	77.4	11:15:58
200	2021-04-11	11:16:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	52.9	11:16:25	62.0	11:16:42	77.8	11:16:23
201	2021-04-11	11:17:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.4	53.5	11:17:51	64.4	11:17:36	87.7	11:17:14
202	2021-04-11	11:18:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	52.3	11:18:04	57.6	11:18:39	78.0	11:18:12
203	2021-04-11	11:19:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	52.5	11:19:11	63.4	11:19:20	79.9	11:19:19
204	2021-04-11	11:20:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.6	52.0	11:20:13	65.9	11:20:51	79.9	11:20:50
205	2021-04-11	11:21:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	52.9	11:21:09	66.6	11:21:37	80.3	11:21:37
206	2021-04-11	11:22:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	52.5	11:22:36	61.2	11:22:00	76.6	11:22:00
207	2021-04-11	11:23:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.4	52.6	11:23:14	65.3	11:23:53	76.1	11:23:52
208	2021-04-11	11:24:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	51.6	11:24:59	59.4	11:24:01	72.4	11:24:01
209	2021-04-11	11:25:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.3	11:25:32	55.9	11:25:34	72.1	11:25:00
210	2021-04-11	11:26:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	51.6	11:26:16	64.8	11:26:30	79.7	11:26:30
211	2021-04-11	11:27:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	50.7	11:27:30	64.0	11:27:09	77.4	11:27:09
212	2021-04-11	11:28:00	00:01:00.0	00:01:00.0	00:00:00.0	58.8	76.6	50.9	11:28:54	66.1	11:28:06	82.9	11:28:05
213	2021-04-11	11:29:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	49.9	11:29:23	55.9	11:29:37	69.5	11:29:37
214	2021-04-11	11:30:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	50.3	11:30:23	55.3	11:30:55	72.6	11:30:52
215	2021-04-11	11:31:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	50.6	11:31:02	64.8	11:31:11	80.7	11:31:24
216	2021-04-11	11:32:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.2	11:32:35	56.6	11:32:00	81.8	11:32:09
217	2021-04-11	11:33:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	50.4	11:33:15	69.0	11:33:24	94.5	11:33:24
218	2021-04-11	11:34:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	50.9	11:34:32	56.1	11:34:22	70.7	11:34:13

219	2021-04-11	11:35:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	51.8	11:35:32	57.6	11:35:42	71.1	11:35:42
220	2021-04-11	11:36:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	51.7	11:36:56	60.6	11:36:50	75.9	11:36:50
221	2021-04-11	11:37:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	51.2	11:37:10	64.9	11:37:43	77.0	11:37:43
222	2021-04-11	11:38:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	51.3	11:38:43	58.5	11:38:02	72.9	11:38:01
223	2021-04-11	11:39:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	51.9	11:39:00	62.7	11:39:51	76.7	11:39:50
224	2021-04-11	11:40:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	51.6	11:40:40	62.9	11:40:00	78.6	11:40:03
225	2021-04-11	11:41:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	51.7	11:41:02	57.3	11:41:07	71.6	11:41:48
226	2021-04-11	11:42:00	00:01:00.0	00:01:00.0	00:00:00.0	57.9	75.6	50.9	11:42:24	69.0	11:42:38	84.8	11:42:37
227	2021-04-11	11:43:00	00:01:00.0	00:01:00.0	00:00:00.0	59.2	77.0	51.4	11:43:00	69.3	11:43:55	82.4	11:43:55
228	2021-04-11	11:44:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	50.0	11:44:16	58.9	11:44:00	70.1	11:44:59
229	2021-04-11	11:45:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	50.3	11:45:46	56.1	11:45:01	74.8	11:45:17
230	2021-04-11	11:46:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.5	51.3	11:46:04	55.6	11:46:00	75.1	11:46:11
231	2021-04-11	11:47:00	00:01:00.0	00:01:00.0	00:00:00.0	60.2	78.0	52.4	11:47:07	71.6	11:47:45	96.1	11:47:45
232	2021-04-11	11:48:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	51.3	11:48:24	56.5	11:48:46	71.6	11:48:00
233	2021-04-11	11:49:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.6	50.7	11:49:16	64.1	11:49:42	78.4	11:49:41
234	2021-04-11	11:50:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	49.1	11:50:17	67.0	11:50:59	80.9	11:50:59
235	2021-04-11	11:51:00	00:01:00.0	00:01:00.0	00:00:00.0	61.2	79.0	50.6	11:51:14	70.8	11:51:56	81.8	11:51:48
236	2021-04-11	11:52:00	00:01:00.0	00:01:00.0	00:00:00.0	61.3	79.1	50.4	11:52:46	71.0	11:52:18	83.0	11:52:18
237	2021-04-11	11:53:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	50.8	11:53:38	56.8	11:53:11	72.5	11:53:09
238	2021-04-11	11:54:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	51.0	11:54:41	64.1	11:54:56	85.4	11:54:59
239	2021-04-11	11:55:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	51.8	11:55:41	62.8	11:55:00	85.4	11:55:00
240	2021-04-11	11:56:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	51.5	11:56:53	60.0	11:56:02	76.0	11:56:00
241	2021-04-11	11:57:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.2	51.8	11:57:39	66.3	11:57:51	79.7	11:57:47
242	2021-04-11	11:58:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.5	51.1	11:58:27	64.1	11:58:59	80.1	11:58:59
243	2021-04-11	11:59:00	00:01:00.0	00:01:00.0	00:00:00.0	63.9	81.6	55.2	11:59:36	71.3	11:59:41	86.8	11:59:40
244	2021-04-11	12:00:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	50.8	12:00:57	57.0	12:00:00	68.7	12:00:18
245	2021-04-11	12:01:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	50.9	12:01:10	59.3	12:01:59	73.9	12:01:59
246	2021-04-11	12:02:00	00:01:00.0	00:01:00.0	00:00:00.0	58.8	76.5	50.5	12:02:07	67.2	12:02:41	86.3	12:02:41
247	2021-04-11	12:03:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	49.1	12:03:44	58.2	12:03:00	79.6	12:03:36
248	2021-04-11	12:04:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	49.6	12:04:03	56.0	12:04:41	77.6	12:04:41
249	2021-04-11	12:05:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.6	51.2	12:05:29	68.0	12:05:59	82.5	12:05:59
250	2021-04-11	12:06:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.4	52.0	12:06:53	67.0	12:06:00	82.5	12:06:00
251	2021-04-11	12:07:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.5	52.2	12:07:45	67.1	12:07:58	81.9	12:07:59
252	2021-04-11	12:08:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	52.6	12:08:34	66.9	12:08:00	81.9	12:08:00
253	2021-04-11	12:09:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	52.1	12:09:12	59.8	12:09:40	76.8	12:09:40
254	2021-04-11	12:10:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.1	52.5	12:10:05	68.2	12:10:32	82.1	12:10:32
255	2021-04-11	12:11:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	52.6	12:11:09	60.3	12:11:35	74.0	12:11:35
256	2021-04-11	12:12:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	50.6	12:12:54	62.4	12:12:12	79.9	12:12:22
257	2021-04-11	12:13:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.6	50.7	12:13:02	56.4	12:13:02	71.5	12:13:02
258	2021-04-11	12:14:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	51.8	12:14:11	61.4	12:14:56	74.8	12:14:54
259	2021-04-11	12:15:00	00:01:00.0	00:01:00.0	00:00:00.0	58.1	75.9	52.4	12:15:58	67.3	12:15:04	79.0	12:15:03
260	2021-04-11	12:16:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	50.6	12:16:59	60.8	12:16:13	79.6	12:16:12
261	2021-04-11	12:17:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	50.4	12:17:00	61.5	12:17:56	79.4	12:17:58
262	2021-04-11	12:18:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	50.0	12:18:05	61.7	12:18:55	78.7	12:18:55
263	2021-04-11	12:19:00	00:01:00.0	00:01:00.0	00:00:00.0	59.7	77.5	51.7	12:19:44	65.3	12:19:09	85.5	12:19:09
264	2021-04-11	12:20:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	51.9	12:20:39	56.6	12:20:04	80.9	12:20:19
265	2021-04-11	12:21:00	00:01:00.0	00:01:00.0	00:00:00.0	61.9	79.7	51.7	12:21:17	69.5	12:21:45	86.1	12:21:45
266	2021-04-11	12:22:00	00:01:00.0	00:01:00.0	00:00:00.0	61.5	79.3	51.5	12:22:33	73.5	12:22:08	87.0	12:22:08
267	2021-04-11	12:23:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	51.1	12:23:06	58.6	12:23:16	77.3	12:23:31
268	2021-04-11	12:24:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.4	50.9	12:24:42	65.5	12:24:29	81.7	12:24:29
269	2021-04-11	12:25:00	00:01:00.0	00:01:00.0	00:00:00.0	58.1	75.8	50.5	12:25:21	67.0	12:25:45	80.5	12:25:44
270	2021-04-11	12:26:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.7	51.3	12:26:57	59.8	12:26:01	75.7	12:26:00
271	2021-04-11	12:27:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.7	50.4	12:27:41	59.2	12:27:32	74.5	12:27:32
272	2021-04-11	12:28:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	49.8	12:28:35	58.1	12:28:26	74.5	12:28:26
273	2021-04-11	12:29:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	50.7	12:29:01	60.1	12:29:27	74.4	12:29:25
274	2021-04-11	12:30:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	50.9	12:30:41	62.0	12:30:20	74.6	12:30:19
275	2021-04-11	12:31:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	50.3	12:31:59	60.1	12:31:32	75.2	12:31:30
276	2021-04-11	12:32:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	50.2	12:32:02	62.0	12:32:43	76.5	12:32:41
277	2021-04-11	12:33:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.2	50.4	12:33:37	72.3	12:33:02	96.3	12:33:02
278	2021-04-11	12:34:00	00:01:00.0	00:01:00.0	00:00:00.0	61.5	79.3	52.3	12:34:07	68.5	12:34:21	88.2	12:34:16
279	2021-04-11	12:35:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	50.3	12:35:49	63.9	12:35:18	79.6	12:35:11
280	2021-04-11	12:36:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	49.1	12:36:56	60.8	12:36:34	74.2	12:36:13
281	2021-04-11	12:37:00	00:01:00.0	00:01:00.0	00:00:00.0	58.1	75.9	50.2	12:37:13	66.5	12:37:42	83.7	12:37:42
282	2021-04-11	12:38:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.8	52.2	12:38:56	72.5	12:38:28	95.9	12:38:28
283	2021-04-11	12:39:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	51.2	12:39:16	56.4	12:39:08	74.8	12:39:56
284	2021-04-11	12:40:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	51.2	12:40:13	65.4	12:40:40	88.0	12:40:39
285	2021-04-11	12:41:00	00:01:00.0	00:01:00.0	00:00:00.0	57.9	75.7	53.3	12:41:12	63.8	12:41:41	78.4	12:41:40
286	2021-04-11	12:42:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.6	49.4	12:42:48	62.3	12:42:33	76.5	12:42:27
287	2021-04-11	12:43:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	49.5	12:43:47	62.1	12:43:56	77.0	12:43:56
288	2021-04-11	12:44:00	00:01:00.0	00:01:00.0	00:00:00.0	60.5	78.3	51.2	12:44:23	71.0	12:44:35	84.2	12:44:35
289	2021-04-11	12:45:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.3	49.4	12:45:55	61.7	12:45:49	77.7	12:45:49
290	2021-04-11	12:46:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.5	50.0	12:46:19	65.7	12:46:36	80.0	12:46:50
291	2021-04-11	12:47:00	00:01:00.0	00:01:00.0	00:00:00.0	57.9	75.7	51.4	12:47:59	64.7	12:47:29	80.1	12:47:03

292	2021-04-11	12:48:00	00:01:00.0	00:01:00.0	00:00:00.0	55.3	73.1	49.6	12:48:09	60.8	12:48:56	74.4	12:48:56
293	2021-04-11	12:49:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	72.9	50.1	12:49:08	59.9	12:49:47	75.7	12:49:45
294	2021-04-11	12:50:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	50.6	12:50:55	61.1	12:50:33	77.6	12:50:00
295	2021-04-11	12:51:00	00:01:00.0	00:01:00.0	00:00:00.0	58.8	76.6	50.7	12:51:01	68.2	12:51:29	86.9	12:51:29
296	2021-04-11	12:52:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	51.5	12:52:30	60.5	12:52:56	75.7	12:52:42
297	2021-04-11	12:53:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	51.2	12:53:42	60.5	12:53:12	75.6	12:53:09
298	2021-04-11	12:54:00	00:01:00.0	00:01:00.0	00:00:00.0	59.5	77.3	51.5	12:54:12	67.5	12:54:46	83.8	12:54:46
299	2021-04-11	12:55:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	50.5	12:55:43	60.4	12:55:51	76.4	12:55:58
300	2021-04-11	12:56:00	00:01:00.0	00:01:00.0	00:00:00.0	59.7	77.5	51.3	12:56:48	70.6	12:56:57	94.6	12:56:57
301	2021-04-11	12:57:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.5	52.1	12:57:17	65.6	12:57:45	78.6	12:57:42
302	2021-04-11	12:58:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	50.7	12:58:17	65.3	12:58:40	84.6	12:58:40
303	2021-04-11	12:59:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.5	51.2	12:59:53	64.8	12:59:04	81.2	12:59:03
304	2021-04-11	13:00:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.8	51.5	13:00:00	57.6	13:00:12	75.2	13:00:24
305	2021-04-11	13:01:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	49.7	13:01:39	60.4	13:01:09	80.3	13:01:09
306	2021-04-11	13:02:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	50.3	13:02:01	61.3	13:02:26	76.5	13:02:55
307	2021-04-11	13:03:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	49.5	13:03:12	62.1	13:03:34	77.1	13:03:34
308	2021-04-11	13:04:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	51.5	13:04:03	57.7	13:04:07	72.9	13:04:15
309	2021-04-11	13:05:00	00:01:00.0	00:01:00.0	00:00:00.0	57.3	75.1	51.2	13:05:17	63.6	13:05:26	80.1	13:05:26
310	2021-04-11	13:06:00	00:01:00.0	00:01:00.0	00:00:00.0	58.8	76.6	52.7	13:06:48	68.5	13:06:30	87.1	13:06:30
311	2021-04-11	13:07:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.8	53.2	13:07:52	61.1	13:07:56	74.8	13:07:58
312	2021-04-11	13:08:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.2	53.3	13:08:31	64.1	13:08:46	77.0	13:08:04
313	2021-04-11	13:09:00	00:01:00.0	00:01:00.0	00:00:00.0	60.1	77.9	53.0	13:09:13	71.0	13:09:59	87.0	13:09:58
314	2021-04-11	13:10:00	00:01:00.0	00:01:00.0	00:00:00.0	61.2	79.0	52.8	13:10:29	70.4	13:10:00	87.0	13:10:00
315	2021-04-11	13:11:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	52.2	13:11:43	57.3	13:11:28	75.8	13:11:44
316	2021-04-11	13:12:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	52.7	13:12:34	66.5	13:12:04	83.4	13:12:03
317	2021-04-11	13:13:00	00:01:00.0	00:01:00.0	00:00:00.0	58.2	76.0	53.5	13:13:07	68.3	13:13:58	85.5	13:13:58
318	2021-04-11	13:14:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.2	53.0	13:14:31	66.7	13:14:48	81.7	13:14:47
319	2021-04-11	13:15:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	53.0	13:15:06	58.7	13:15:22	74.7	13:15:21
320	2021-04-11	13:16:00	00:01:00.0	00:01:00.0	00:00:00.0	62.9	80.7	53.6	13:16:55	71.9	13:16:37	90.7	13:16:13
321	2021-04-11	13:17:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	51.6	13:17:26	56.9	13:17:52	79.6	13:17:52
322	2021-04-11	13:18:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.7	51.6	13:18:48	69.0	13:18:12	83.8	13:18:14
323	2021-04-11	13:19:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	50.6	13:19:30	54.8	13:19:00	74.8	13:19:06
324	2021-04-11	13:20:00	00:01:00.0	00:01:00.0	00:00:00.0	60.2	78.0	51.3	13:20:24	69.7	13:20:54	87.4	13:20:11
325	2021-04-11	13:21:00	00:01:00.0	00:01:00.0	00:00:00.0	66.3	84.1	52.3	13:21:57	76.1	13:21:23	90.9	13:21:28
326	2021-04-11	13:22:00	00:01:00.0	00:01:00.0	00:00:00.0	58.5	76.2	52.0	13:22:22	66.5	13:22:51	80.6	13:22:50
327	2021-04-11	13:23:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	50.8	13:23:28	56.7	13:23:00	73.6	13:23:28
328	2021-04-11	13:24:00	00:01:00.0	00:01:00.0	00:00:00.0	57.9	75.7	51.9	13:24:52	67.1	13:24:29	79.1	13:24:29
329	2021-04-11	13:25:00	00:01:00.0	00:01:00.0	00:00:00.0	57.9	75.6	51.3	13:25:27	68.8	13:25:49	81.8	13:25:48
330	2021-04-11	13:26:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	52.6	13:26:31	63.2	13:26:14	81.2	13:26:13
331	2021-04-11	13:27:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	51.9	13:27:40	60.6	13:27:30	77.3	13:27:30
332	2021-04-11	13:28:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	53.4	13:28:49	59.4	13:28:42	83.3	13:28:07
333	2021-04-11	13:29:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	52.3	13:29:53	64.0	13:29:14	78.3	13:29:13
334	2021-04-11	13:30:00	00:01:00.0	00:01:00.0	00:00:00.0	59.0	76.7	52.1	13:30:26	71.3	13:30:16	95.0	13:30:16
335	2021-04-11	13:31:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	51.5	13:31:17	66.2	13:31:02	82.9	13:31:02
336	2021-04-11	13:32:00	00:01:00.0	00:01:00.0	00:00:00.0	58.5	76.3	51.1	13:32:59	67.5	13:32:20	84.1	13:32:19
337	2021-04-11	13:33:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	50.3	13:33:57	64.9	13:33:45	78.2	13:33:44
338	2021-04-11	13:34:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	50.6	13:34:01	62.7	13:34:55	77.5	13:34:36
339	2021-04-11	13:35:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	51.8	13:35:44	59.3	13:35:00	73.9	13:35:00
340	2021-04-11	13:36:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	52.0	13:36:27	59.3	13:36:15	74.6	13:36:09
341	2021-04-11	13:37:00	00:01:00.0	00:01:00.0	00:00:00.0	55.3	73.1	51.3	13:37:54	61.5	13:37:02	75.8	13:37:42
342	2021-04-11	13:38:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	51.2	13:38:39	62.1	13:38:49	76.8	13:38:48
343	2021-04-11	13:39:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	51.9	13:39:02	62.5	13:39:51	83.1	13:39:56
344	2021-04-11	13:40:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.8	53.9	13:40:12	61.1	13:40:35	74.7	13:40:05
345	2021-04-11	13:41:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	51.4	13:41:38	67.3	13:41:17	84.1	13:41:15
346	2021-04-11	13:42:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	52.6	13:42:22	57.4	13:42:53	78.0	13:42:00
347	2021-04-11	13:43:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	52.5	13:43:57	67.1	13:43:04	86.9	13:43:04
348	2021-04-11	13:44:00	00:01:00.0	00:01:00.0	00:00:00.0	61.0	78.8	53.1	13:44:00	70.0	13:44:21	87.1	13:44:22
349	2021-04-11	13:45:00	00:01:00.0	00:01:00.0	00:00:00.0	59.5	77.3	53.8	13:45:35	69.9	13:45:25	86.6	13:45:24
350	2021-04-11	13:46:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	53.1	13:46:58	58.4	13:46:25	72.0	13:46:47
351	2021-04-11	13:47:00	00:01:00.0	00:01:00.0	00:00:00.0	57.5	75.3	53.7	13:47:29	65.0	13:47:46	80.7	13:47:46
352	2021-04-11	13:48:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.3	53.1	13:48:15	62.4	13:48:01	76.2	13:48:00
353	2021-04-11	13:49:00	00:01:00.0	00:01:00.0	00:00:00.0	70.1	87.9	51.1	13:49:57	83.8	13:49:23	94.3	13:49:22
354	2021-04-11	13:50:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	51.5	13:50:07	57.4	13:50:17	75.7	13:50:17
355	2021-04-11	13:51:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	51.8	13:51:58	61.5	13:51:28	79.0	13:51:28
356	2021-04-11	13:52:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	52.2	13:52:00	58.7	13:52:10	74.9	13:52:10
357	2021-04-11	13:53:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	53.4	13:53:05	58.0	13:53:08	73.2	13:53:08
358	2021-04-11	13:54:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.1	52.0	13:54:21	56.1	13:54:08	72.6	13:54:08
359	2021-04-11	13:55:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	53.7	13:55:22	60.4	13:55:55	79.0	13:55:08
360	2021-04-11	13:56:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.5	54.1	13:56:03	61.0	13:56:19	75.3	13:56:18
361	2021-04-11	13:57:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.3	51.8	13:57:53	62.4	13:57:09	78.2	13:57:09
362	2021-04-11	13:58:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	51.8	13:58:58	61.2	13:58:41	76.0	13:58:41
363	2021-04-11	13:59:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.8	52.0	13:59:59	63.8	13:59:32	76.9	13:59:32
364	2021-04-11	14:00:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	50.7	14:00:57	63.8	14:00:07	76.7	14:00:06

365	2021-04-11	14:01:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	50.9	14:01:00	60.2	14:01:38	77.3	14:01:38
366	2021-04-11	14:02:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	53.3	14:02:06	64.9	14:02:15	78.7	14:02:14
367	2021-04-11	14:03:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.2	54.0	14:03:59	63.3	14:03:49	81.0	14:03:49
368	2021-04-11	14:04:00	00:01:00.0	00:01:00.0	00:00:00.0	57.5	75.2	53.2	14:04:11	67.8	14:04:17	81.9	14:04:16
369	2021-04-11	14:05:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	52.2	14:05:18	59.5	14:05:01	74.4	14:05:44
370	2021-04-11	14:06:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	50.8	14:06:09	60.5	14:06:54	73.2	14:06:54
371	2021-04-11	14:07:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	51.9	14:07:20	59.0	14:07:36	75.5	14:07:32
372	2021-04-11	14:08:00	00:01:00.0	00:01:00.0	00:00:00.0	55.3	73.1	53.1	14:08:43	60.5	14:08:45	74.5	14:08:44
373	2021-04-11	14:09:00	00:01:00.0	00:01:00.0	00:00:00.0	58.1	75.9	52.4	14:09:21	67.4	14:09:46	81.9	14:09:43
374	2021-04-11	14:10:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	52.8	14:10:56	60.3	14:10:10	74.4	14:10:10
375	2021-04-11	14:11:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	52.7	14:11:50	63.4	14:11:30	77.0	14:11:27
376	2021-04-11	14:12:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	52.1	14:12:59	67.7	14:12:05	93.3	14:12:05
377	2021-04-11	14:13:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	51.5	14:13:49	56.0	14:13:58	69.7	14:13:36
378	2021-04-11	14:14:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	52.1	14:14:25	63.4	14:14:04	78.3	14:14:04
379	2021-04-11	14:15:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.2	50.3	14:15:59	60.6	14:15:06	75.8	14:15:05
380	2021-04-11	14:16:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	50.0	14:16:10	63.5	14:16:54	79.7	14:16:54
381	2021-04-11	14:17:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	52.5	14:17:47	59.8	14:17:10	75.6	14:17:10
382	2021-04-11	14:18:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	52.2	14:18:34	60.1	14:18:55	73.6	14:18:54
383	2021-04-11	14:19:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	50.9	14:19:22	63.4	14:19:43	74.8	14:19:42
384	2021-04-11	14:20:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	51.9	14:20:02	63.2	14:20:08	77.6	14:20:08
385	2021-04-11	14:21:00	00:01:00.0	00:01:00.0	00:00:00.0	58.9	76.7	52.9	14:21:55	70.3	14:21:06	92.2	14:21:06
386	2021-04-11	14:22:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	52.9	14:22:14	62.6	14:22:40	82.4	14:22:36
387	2021-04-11	14:23:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	52.5	14:23:54	57.8	14:23:24	72.6	14:23:07
388	2021-04-11	14:24:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	52.6	14:24:44	60.3	14:24:46	74.4	14:24:44
389	2021-04-11	14:25:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	52.3	14:25:33	65.9	14:25:59	79.8	14:25:58
390	2021-04-11	14:26:00	00:01:00.0	00:01:00.0	00:00:00.0	61.9	79.7	51.4	14:26:55	67.3	14:26:21	83.8	14:26:16
391	2021-04-11	14:27:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	49.5	14:27:22	56.5	14:27:00	74.2	14:27:00
392	2021-04-11	14:28:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	48.5	14:28:30	57.6	14:28:48	72.3	14:28:48
393	2021-04-11	14:29:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	50.8	14:29:11	56.3	14:29:11	76.7	14:29:35
394	2021-04-11	14:30:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	52.2	14:30:40	62.0	14:30:29	79.2	14:30:27
395	2021-04-11	14:31:00	00:01:00.0	00:01:00.0	00:00:00.0	60.2	77.9	52.6	14:31:26	68.3	14:31:06	82.5	14:31:05
396	2021-04-11	14:32:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	53.2	14:32:02	60.0	14:32:51	77.1	14:32:50
397	2021-04-11	14:33:00	00:01:00.0	00:01:00.0	00:00:00.0	59.8	77.5	52.8	14:33:28	66.5	14:33:46	81.5	14:33:49
398	2021-04-11	14:34:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	51.5	14:34:18	59.1	14:34:58	81.1	14:34:04
399	2021-04-11	14:35:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	52.4	14:35:39	63.2	14:35:23	81.8	14:35:23
400	2021-04-11	14:36:00	00:01:00.0	00:01:00.0	00:00:00.0	60.6	78.4	51.5	14:36:59	65.7	14:36:07	81.2	14:36:05
401	2021-04-11	14:37:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	51.4	14:37:03	63.8	14:37:19	77.3	14:37:17
402	2021-04-11	14:38:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	51.6	14:38:05	59.7	14:38:51	71.9	14:38:50
403	2021-04-11	14:39:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.6	52.4	14:39:29	64.9	14:39:44	77.8	14:39:43
404	2021-04-11	14:40:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	53.0	14:40:42	64.3	14:40:50	79.1	14:40:58
405	2021-04-11	14:41:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	53.7	14:41:59	62.8	14:41:45	79.1	14:41:00
406	2021-04-11	14:42:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	52.4	14:42:15	55.5	14:42:41	77.4	14:42:40
407	2021-04-11	14:43:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	52.0	14:43:50	55.3	14:43:07	71.5	14:43:53
408	2021-04-11	14:44:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.1	51.4	14:44:24	59.8	14:44:03	77.0	14:44:03
409	2021-04-11	14:45:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	52.4	14:45:59	63.9	14:45:20	78.3	14:45:24
410	2021-04-11	14:46:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.2	52.3	14:46:19	65.6	14:46:41	80.1	14:46:39
411	2021-04-11	14:47:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	50.4	14:47:46	62.4	14:47:03	77.0	14:47:01
412	2021-04-11	14:48:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	50.1	14:48:50	52.3	14:48:34	68.1	14:48:44
413	2021-04-11	14:49:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	51.1	14:49:00	65.6	14:49:56	77.7	14:49:56
414	2021-04-11	14:50:00	00:01:00.0	00:01:00.0	00:00:00.0	68.4	86.2	53.7	14:50:58	74.9	14:50:15	93.0	14:50:15
415	2021-04-11	14:51:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	52.9	14:51:53	65.1	14:51:29	79.6	14:51:08
416	2021-04-11	14:52:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	52.6	14:52:15	60.3	14:52:04	76.8	14:52:04
417	2021-04-11	14:53:00	00:01:00.0	00:01:00.0	00:00:00.0	61.4	79.2	54.7	14:53:58	67.9	14:53:39	81.3	14:53:37
418	2021-04-11	14:54:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	50.3	14:54:53	59.7	14:54:16	72.4	14:54:16
419	2021-04-11	14:55:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	49.0	14:55:34	59.3	14:55:10	72.2	14:55:09
420	2021-04-11	14:56:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	49.5	14:56:29	56.7	14:56:59	75.1	14:56:59
421	2021-04-11	14:57:00	00:01:00.0	00:01:00.0	00:00:00.0	64.8	82.5	50.3	14:57:16	77.2	14:57:55	90.7	14:57:55
422	2021-04-11	14:58:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.5	48.9	14:58:44	61.6	14:58:00	71.7	14:58:13
423	2021-04-11	14:59:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.6	48.5	14:59:39	62.5	14:59:03	79.7	14:59:03
424	2021-04-11	15:00:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	50.1	15:00:04	58.9	15:00:42	72.1	15:00:50
425	2021-04-11	15:01:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	50.9	15:01:08	58.1	15:01:42	76.1	15:01:51
426	2021-04-11	15:02:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.4	51.1	15:02:55	64.2	15:02:15	83.3	15:02:20
427	2021-04-11	15:03:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	50.0	15:03:30	62.0	15:03:10	77.2	15:03:13
428	2021-04-11	15:04:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	51.5	15:04:04	55.6	15:04:32	70.8	15:04:22
429	2021-04-11	15:05:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	51.8	15:05:40	66.7	15:05:50	77.0	15:05:42
430	2021-04-11	15:06:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	52.9	15:06:22	56.7	15:06:04	70.3	15:06:46
431	2021-04-11	15:07:00	00:01:00.0	00:01:00.0	00:00:00.0	63.4	81.2	54.6	15:07:12	71.2	15:07:30	92.9	15:07:30
432	2021-04-11	15:08:00	00:01:00.0	00:01:00.0	00:00:00.0	60.3	78.1	52.8	15:08:30	72.0	15:08:42	93.8	15:08:42
433	2021-04-11	15:09:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	51.9	15:09:33	64.0	15:09:18	76.8	15:09:17
434	2021-04-11	15:10:00	00:01:00.0	00:01:00.0	00:00:00.0	59.2	77.0	52.6	15:10:02	65.5	15:10:42	82.3	15:10:20
435	2021-04-11	15:11:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	51.8	15:11:38	58.4	15:11:10	73.9	15:11:04
436	2021-04-11	15:12:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	52.1	15:12:34	71.2	15:12:54	96.1	15:12:53
437	2021-04-11	15:13:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	51.4	15:13:23	60.6	15:13:12	76.7	15:13:56

438	2021-04-11	15:14:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	53.2	15:14:41	59.6	15:14:49	77.8	15:14:48
439	2021-04-11	15:15:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.6	52.7	15:15:37	55.4	15:15:25	68.7	15:15:28
440	2021-04-11	15:16:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	52.0	15:16:58	60.6	15:16:47	79.9	15:16:47
441	2021-04-11	15:17:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.7	52.6	15:17:00	72.6	15:17:22	90.1	15:17:22
442	2021-04-11	15:18:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.4	52.8	15:18:34	63.1	15:18:47	76.0	15:18:45
443	2021-04-11	15:19:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	52.2	15:19:37	54.8	15:19:00	67.6	15:19:00
444	2021-04-11	15:20:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	53.2	15:20:13	58.1	15:20:55	84.5	15:20:41
445	2021-04-11	15:21:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.6	52.9	15:21:56	61.7	15:21:08	78.9	15:21:44
446	2021-04-11	15:22:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	52.3	15:22:49	56.9	15:22:39	81.1	15:22:10
447	2021-04-11	15:23:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	52.3	15:23:51	62.9	15:23:58	81.5	15:23:57
448	2021-04-11	15:24:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	52.6	15:24:09	68.2	15:24:20	85.0	15:24:19
449	2021-04-11	15:25:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	52.6	15:25:09	62.0	15:25:40	78.4	15:25:40
450	2021-04-11	15:26:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	52.9	15:26:15	56.2	15:26:00	73.2	15:26:21
451	2021-04-11	15:27:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	54.2	15:27:21	61.2	15:27:47	76.0	15:27:46
452	2021-04-11	15:28:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	53.8	15:28:56	60.6	15:28:18	78.3	15:28:21
453	2021-04-11	15:29:00	00:01:00.0	00:01:00.0	00:00:00.0	57.3	75.1	53.8	15:29:02	63.0	15:29:45	78.4	15:29:44
454	2021-04-11	15:30:00	00:01:00.0	00:01:00.0	00:00:00.0	59.9	77.7	56.9	15:30:54	64.9	15:30:38	81.7	15:30:28
455	2021-04-11	15:31:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	54.8	15:31:13	60.6	15:31:50	75.4	15:31:49
456	2021-04-11	15:32:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	53.0	15:32:50	65.4	15:32:05	83.5	15:32:04
457	2021-04-11	15:33:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.1	52.5	15:33:47	63.2	15:33:25	78.1	15:33:24
458	2021-04-11	15:34:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.4	51.9	15:34:21	66.8	15:34:10	79.4	15:34:09
459	2021-04-11	15:35:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.2	52.7	15:35:54	65.0	15:35:13	83.4	15:35:12
460	2021-04-11	15:36:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.8	54.3	15:36:57	67.7	15:36:07	82.7	15:36:07
461	2021-04-11	15:37:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	53.9	15:37:24	62.8	15:37:33	75.5	15:37:32
462	2021-04-11	15:38:00	00:01:00.0	00:01:00.0	00:00:00.0	57.6	75.4	54.3	15:38:34	63.6	15:38:07	79.4	15:38:06
463	2021-04-11	15:39:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	53.9	15:39:47	60.8	15:39:23	77.2	15:39:20
464	2021-04-11	15:40:00	00:01:00.0	00:01:00.0	00:00:00.0	59.1	76.9	54.4	15:40:02	65.4	15:40:59	82.3	15:40:59
465	2021-04-11	15:41:00	00:01:00.0	00:01:00.0	00:00:00.0	59.6	77.4	53.6	15:41:27	69.2	15:41:01	86.9	15:41:01
466	2021-04-11	15:42:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.2	53.4	15:42:34	60.7	15:42:06	87.5	15:42:59
467	2021-04-11	15:43:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.5	54.2	15:43:07	67.1	15:43:22	87.5	15:43:00
468	2021-04-11	15:44:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	54.8	15:44:19	60.5	15:44:24	78.5	15:44:24
469	2021-04-11	15:45:00	00:01:00.0	00:01:00.0	00:00:00.0	58.2	75.9	55.5	15:45:23	66.2	15:45:32	82.2	15:45:32
470	2021-04-11	15:46:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	54.4	15:46:36	56.9	15:46:54	71.7	15:46:30
471	2021-04-11	15:47:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	53.5	15:47:48	56.0	15:47:25	70.7	15:47:10
472	2021-04-11	15:48:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	54.2	15:48:08	57.8	15:48:04	70.0	15:48:04
473	2021-04-11	15:49:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.6	54.6	15:49:02	61.8	15:49:40	81.7	15:49:39
474	2021-04-11	15:50:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	54.2	15:50:10	65.6	15:50:57	81.1	15:50:57
475	2021-04-11	15:51:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	53.1	15:51:32	61.4	15:51:00	73.4	15:51:00
476	2021-04-11	15:52:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	53.4	15:52:27	68.5	15:52:16	86.5	15:52:16
477	2021-04-11	15:53:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	52.6	15:53:23	54.7	15:53:00	70.6	15:53:24
478	2021-04-11	15:54:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.2	53.8	15:54:03	59.8	15:54:24	81.3	15:54:24
479	2021-04-11	15:55:00	00:01:00.0	00:01:00.0	00:00:00.0	57.6	75.4	53.9	15:55:44	63.3	15:55:23	77.8	15:55:55
480	2021-04-11	15:56:00	00:01:00.0	00:01:00.0	00:00:00.0	58.1	75.9	54.5	15:56:39	63.7	15:56:25	88.1	15:56:27
481	2021-04-11	15:57:00	00:01:00.0	00:01:00.0	00:00:00.0	61.0	78.8	55.0	15:57:21	67.9	15:57:05	81.5	15:57:48
482	2021-04-11	15:58:00	00:01:00.0	00:01:00.0	00:00:00.0	64.3	82.1	58.7	15:58:00	71.0	15:58:46	86.4	15:58:46
483	2021-04-11	15:59:00	00:01:00.0	00:01:00.0	00:00:00.0	64.9	82.7	61.0	15:59:39	71.2	15:59:59	98.2	15:59:59
484	2021-04-11	16:00:00	00:01:00.0	00:01:00.0	00:00:00.0	59.9	77.7	55.7	16:00:45	70.6	16:00:00	98.2	16:00:00
485	2021-04-11	16:01:00	00:01:00.0	00:01:00.0	00:00:00.0	60.4	78.2	54.9	16:01:19	70.7	16:01:54	88.6	16:01:54
486	2021-04-11	16:02:00	00:01:00.0	00:01:00.0	00:00:00.0	65.2	83.0	56.6	16:02:59	71.2	16:02:21	88.4	16:02:18
487	2021-04-11	16:03:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	53.9	16:03:33	65.2	16:03:22	84.0	16:03:22
488	2021-04-11	16:04:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	52.5	16:04:22	56.2	16:04:48	73.1	16:04:43
489	2021-04-11	16:05:00	00:01:00.0	00:01:00.0	00:00:00.0	58.8	76.6	52.7	16:05:52	69.3	16:05:13	83.8	16:05:11
490	2021-04-11	16:06:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	52.2	16:06:55	58.0	16:06:34	72.1	16:06:36
491	2021-04-11	16:07:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	51.1	16:07:06	65.8	16:07:52	81.7	16:07:52
492	2021-04-11	16:08:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	52.7	16:08:41	58.2	16:08:16	75.2	16:08:46
493	2021-04-11	16:09:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	52.4	16:09:07	57.5	16:09:44	76.8	16:09:43
494	2021-04-11	16:10:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	52.2	16:10:40	61.0	16:10:59	79.3	16:10:59
495	2021-04-11	16:11:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	73.9	53.2	16:11:58	63.3	16:11:00	79.3	16:11:00
496	2021-04-11	16:12:00	00:01:00.0	00:01:00.0	00:00:00.0	61.3	79.0	52.3	16:12:58	69.6	16:12:32	85.0	16:12:30
497	2021-04-11	16:13:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	52.0	16:13:05	62.5	16:13:24	81.1	16:13:25
498	2021-04-11	16:14:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.7	52.5	16:14:53	65.4	16:14:32	83.9	16:14:32
499	2021-04-11	16:15:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	52.3	16:15:18	55.7	16:15:26	71.8	16:15:31
500	2021-04-11	16:16:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	51.9	16:16:23	58.7	16:16:48	71.0	16:16:34
501	2021-04-11	16:17:00	00:01:00.0	00:01:00.0	00:00:00.0	59.5	77.2	52.2	16:17:01	68.2	16:17:25	83.4	16:17:23
502	2021-04-11	16:18:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	53.6	16:18:39	60.5	16:18:56	74.9	16:18:56
503	2021-04-11	16:19:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.2	53.0	16:19:39	65.5	16:19:12	80.0	16:19:12
504	2021-04-11	16:20:00	00:01:00.0	00:01:00.0	00:00:00.0	57.3	75.1	54.1	16:20:39	64.7	16:20:57	84.9	16:20:56
505	2021-04-11	16:21:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	53.1	16:21:25	61.7	16:21:42	78.2	16:21:41
506	2021-04-11	16:22:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	54.1	16:22:40	62.9	16:22:21	78.2	16:22:36
507	2021-04-11	16:23:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	53.1	16:23:47	56.2	16:23:50	74.0	16:23:02
508	2021-04-11	16:24:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	53.6	16:24:01	56.7	16:24:32	71.8	16:24:32
509	2021-04-11	16:25:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.6	53.9	16:25:46	58.9	16:25:20	78.6	16:25:34
510	2021-04-11	16:26:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.3	53.4	16:26:18	61.1	16:26:26	77.1	16:26:08

511	2021-04-11	16:27:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	53.0	16:27:42	56.1	16:27:02	74.3	16:27:14
512	2021-04-11	16:28:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	53.5	16:28:05	60.2	16:28:19	74.0	16:28:19
513	2021-04-11	16:29:00	00:01:00.0	00:01:00.0	00:00:00.0	58.8	76.6	53.8	16:29:12	65.0	16:29:48	80.7	16:29:48
514	2021-04-11	16:30:00	00:01:00.0	00:01:00.0	00:00:00.0	55.3	73.1	53.9	16:30:34	57.6	16:30:00	76.2	16:30:01
515	2021-04-11	16:31:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	54.1	16:31:36	60.3	16:31:30	80.0	16:31:46
516	2021-04-11	16:32:00	00:01:00.0	00:01:00.0	00:00:00.0	59.3	77.1	56.2	16:32:58	62.4	16:32:25	78.6	16:32:28
517	2021-04-11	16:33:00	00:01:00.0	00:01:00.0	00:00:00.0	59.4	77.2	56.3	16:33:01	63.6	16:33:58	77.9	16:33:04
518	2021-04-11	16:34:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	54.5	16:34:58	62.9	16:34:15	78.0	16:34:15
519	2021-04-11	16:35:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	54.6	16:35:55	59.4	16:35:29	76.8	16:35:23
520	2021-04-11	16:36:00	00:01:00.0	00:01:00.0	00:00:00.0	59.0	76.8	54.0	16:36:05	67.1	16:36:36	86.5	16:36:47
521	2021-04-11	16:37:00	00:01:00.0	00:01:00.0	00:00:00.0	58.5	76.2	54.6	16:37:44	67.5	16:37:36	83.8	16:37:34
522	2021-04-11	16:38:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.5	54.4	16:38:23	61.0	16:38:59	73.4	16:38:59
523	2021-04-11	16:39:00	00:01:00.0	00:01:00.0	00:00:00.0	57.3	75.1	55.6	16:39:50	63.4	16:39:01	75.9	16:39:00
524	2021-04-11	16:40:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	54.1	16:40:55	58.9	16:40:12	77.6	16:40:26
525	2021-04-11	16:41:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	53.6	16:41:33	64.6	16:41:19	82.0	16:41:18
526	2021-04-11	16:42:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	53.3	16:42:12	60.4	16:42:59	74.0	16:42:59
527	2021-04-11	16:43:00	00:01:00.0	00:01:00.0	00:00:00.0	66.8	84.6	55.0	16:43:59	78.2	16:43:02	88.9	16:43:02
528	2021-04-11	16:44:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.1	53.9	16:44:57	59.4	16:44:07	73.0	16:44:07
529	2021-04-11	16:45:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.6	53.8	16:45:19	61.5	16:45:30	78.3	16:45:26
530	2021-04-11	16:46:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	51.3	16:46:56	56.0	16:46:03	69.7	16:46:02
531	2021-04-11	16:47:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	51.1	16:47:14	57.2	16:47:49	72.8	16:47:29
532	2021-04-11	16:48:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	52.0	16:48:03	58.9	16:48:46	74.3	16:48:59
533	2021-04-11	16:49:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	53.1	16:49:14	58.6	16:49:48	74.3	16:49:00
534	2021-04-11	16:50:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	53.3	16:50:11	57.3	16:50:56	74.4	16:50:56
535	2021-04-11	16:51:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	54.1	16:51:56	60.7	16:51:15	76.5	16:51:15
536	2021-04-11	16:52:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	52.2	16:52:36	56.0	16:52:51	74.3	16:52:56
537	2021-04-11	16:53:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.5	16:53:58	54.6	16:53:44	73.6	16:53:05
538	2021-04-11	16:54:00	00:01:00.0	00:01:00.0	00:00:00.0	63.3	81.1	52.0	16:54:04	75.1	16:54:28	87.7	16:54:27
539	2021-04-11	16:55:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	52.5	16:55:35	58.0	16:55:13	76.2	16:55:30
540	2021-04-11	16:56:00	00:01:00.0	00:01:00.0	00:00:00.0	58.1	75.9	52.6	16:56:33	66.3	16:56:21	85.4	16:56:45
541	2021-04-11	16:57:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	52.6	16:57:35	65.9	16:57:09	83.6	16:57:08
542	2021-04-11	16:58:00	00:01:00.0	00:01:00.0	00:00:00.0	64.9	82.7	53.7	16:58:05	80.8	16:58:31	94.4	16:58:31
543	2021-04-11	16:59:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.5	54.4	16:59:08	64.5	16:59:12	81.0	16:59:12
544	2021-04-11	17:00:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	53.1	17:00:51	64.3	17:00:12	87.5	17:00:12
545	2021-04-11	17:01:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	52.2	17:01:57	59.2	17:01:15	78.3	17:01:44
546	2021-04-11	17:02:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	74.9	51.8	17:02:04	66.1	17:02:09	88.2	17:02:09
547	2021-04-11	17:03:00	00:01:00.0	00:01:00.0	00:00:00.0	57.6	75.3	51.7	17:03:05	63.7	17:03:33	80.6	17:03:51
548	2021-04-11	17:04:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	52.4	17:04:02	57.5	17:04:51	74.0	17:04:04
549	2021-04-11	17:05:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	52.0	17:05:21	57.9	17:05:37	79.5	17:05:01
550	2021-04-11	17:06:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	53.2	17:06:53	64.6	17:06:36	82.5	17:06:34
551	2021-04-11	17:07:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	52.5	17:07:20	57.5	17:07:07	78.5	17:07:01
552	2021-04-11	17:08:00	00:01:00.0	00:01:00.0	00:00:00.0	59.3	77.1	52.4	17:08:43	70.0	17:08:21	84.4	17:08:20
553	2021-04-11	17:09:00	00:01:00.0	00:01:00.0	00:00:00.0	57.6	75.3	53.8	17:09:13	65.3	17:09:22	79.5	17:09:21
554	2021-04-11	17:10:00	00:01:00.0	00:01:00.0	00:00:00.0	62.4	80.2	54.1	17:10:55	75.7	17:10:28	90.2	17:10:28
555	2021-04-11	17:11:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.1	53.2	17:11:08	68.0	17:11:57	83.6	17:11:57
556	2021-04-11	17:12:00	00:01:00.0	00:01:00.0	00:00:00.0	58.9	76.6	54.4	17:12:43	67.6	17:12:08	84.0	17:12:08
557	2021-04-11	17:13:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	53.0	17:13:04	66.8	17:13:50	80.1	17:13:35
558	2021-04-11	17:14:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	52.8	17:14:18	65.4	17:14:55	80.5	17:14:36
559	2021-04-11	17:15:00	00:01:00.0	00:01:00.0	00:00:00.0	58.9	76.6	53.1	17:15:45	67.3	17:15:22	86.3	17:15:31
560	2021-04-11	17:16:00	00:01:00.0	00:01:00.0	00:00:00.0	60.2	78.0	55.1	17:16:11	67.5	17:16:04	80.9	17:16:04
561	2021-04-11	17:17:00	00:01:00.0	00:01:00.0	00:00:00.0	57.6	75.4	51.8	17:17:32	64.1	17:17:21	82.6	17:17:22
562	2021-04-11	17:18:00	00:01:00.0	00:01:00.0	00:00:00.0	60.1	77.9	53.4	17:18:30	71.8	17:18:02	85.9	17:18:02
563	2021-04-11	17:19:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	53.1	17:19:41	59.2	17:19:02	74.8	17:19:43
564	2021-04-11	17:20:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	53.1	17:20:21	58.5	17:20:34	79.7	17:20:30
565	2021-04-11	17:21:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	53.0	17:21:52	62.2	17:21:29	77.9	17:21:28
566	2021-04-11	17:22:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.3	52.1	17:22:56	62.7	17:22:30	81.1	17:22:30
567	2021-04-11	17:23:00	00:01:00.0	00:01:00.0	00:00:00.0	58.9	76.7	52.8	17:23:00	67.8	17:23:56	86.5	17:23:56
568	2021-04-11	17:24:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	52.8	17:24:33	62.2	17:24:53	80.2	17:24:08
569	2021-04-11	17:25:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	52.5	17:25:36	61.6	17:25:00	78.0	17:25:00
570	2021-04-11	17:26:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	52.6	17:26:26	58.8	17:26:59	74.1	17:26:41
571	2021-04-11	17:27:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	51.6	17:27:46	61.1	17:27:19	75.0	17:27:19
572	2021-04-11	17:28:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	52.1	17:28:42	57.5	17:28:44	77.8	17:28:12
573	2021-04-11	17:29:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	51.3	17:29:56	63.2	17:29:30	77.2	17:29:31
574	2021-04-11	17:30:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	50.5	17:30:29	59.4	17:30:46	76.6	17:30:46
575	2021-04-11	17:31:00	00:01:00.0	00:01:00.0	00:00:00.0	63.0	80.8	50.6	17:31:36	74.2	17:31:08	88.2	17:31:08
576	2021-04-11	17:32:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.6	52.1	17:32:02	58.2	17:32:33	74.0	17:32:32
577	2021-04-11	17:33:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.6	52.9	17:33:31	64.8	17:33:59	78.9	17:33:58
578	2021-04-11	17:34:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.4	52.9	17:34:31	67.8	17:34:00	91.4	17:34:00
579	2021-04-11	17:35:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	53.2	17:35:58	61.7	17:35:16	74.6	17:35:15
580	2021-04-11	17:36:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	53.1	17:36:27	66.0	17:36:58	81.2	17:36:05
581	2021-04-11	17:37:00	00:01:00.0	00:01:00.0	00:00:00.0	58.8	76.6	53.1	17:37:23	64.7	17:37:53	79.9	17:37:53
582	2021-04-11	17:38:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	54.5	17:38:57	60.6	17:38:45	80.0	17:38:44
583	2021-04-11	17:39:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	53.3	17:39:57	61.9	17:39:45	77.9	17:39:45

584	2021-04-11	17:40:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	51.9	17:40:36	57.5	17:40:54	73.0	17:40:27
585	2021-04-11	17:41:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	51.6	17:41:09	58.2	17:41:41	74.1	17:41:41
586	2021-04-11	17:42:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.6	52.8	17:42:16	62.9	17:42:53	80.5	17:42:30
587	2021-04-11	17:43:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.6	54.0	17:43:58	58.3	17:43:19	71.3	17:43:15
588	2021-04-11	17:44:00	00:01:00.0	00:01:00.0	00:00:00.0	61.5	79.3	54.7	17:44:36	72.5	17:44:24	86.5	17:44:24
589	2021-04-11	17:45:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	53.3	17:45:59	59.0	17:45:04	73.6	17:45:04
590	2021-04-11	17:46:00	00:01:00.0	00:01:00.0	00:00:00.0	65.4	83.2	53.3	17:46:00	78.5	17:46:34	90.4	17:46:34
591	2021-04-11	17:47:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	52.2	17:47:58	62.8	17:47:07	78.9	17:47:07
592	2021-04-11	17:48:00	00:01:00.0	00:01:00.0	00:00:00.0	55.3	73.1	51.6	17:48:26	60.6	17:48:41	73.4	17:48:49
593	2021-04-11	17:49:00	00:01:00.0	00:01:00.0	00:00:00.0	57.6	75.4	51.4	17:49:47	68.8	17:49:29	82.7	17:49:29
594	2021-04-11	17:50:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.6	51.0	17:50:35	65.1	17:50:56	80.8	17:50:56
595	2021-04-11	17:51:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	49.8	17:51:57	61.0	17:51:44	77.7	17:51:49
596	2021-04-11	17:52:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	50.2	17:52:12	56.2	17:52:01	72.5	17:52:56
597	2021-04-11	17:53:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	50.8	17:53:26	54.2	17:53:57	73.8	17:53:23
598	2021-04-11	17:54:00	00:01:00.0	00:01:00.0	00:00:00.0	58.8	76.5	51.3	17:54:22	69.0	17:54:39	95.9	17:54:39
599	2021-04-11	17:55:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	51.2	17:55:11	65.6	17:55:00	78.5	17:55:00
600	2021-04-11	17:56:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	51.2	17:56:40	55.6	17:56:27	70.4	17:56:27
601	2021-04-11	17:57:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	51.1	17:57:38	54.3	17:57:04	69.0	17:57:04
602	2021-04-11	17:58:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.1	50.4	17:58:59	69.4	17:58:31	84.3	17:58:31
603	2021-04-11	17:59:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	50.1	17:59:51	66.8	17:59:18	83.1	17:59:17
604	2021-04-11	18:00:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	50.9	18:00:29	65.9	18:00:42	84.6	18:00:41
605	2021-04-11	18:01:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	51.4	18:01:16	60.4	18:01:38	76.3	18:01:37
606	2021-04-11	18:02:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	51.3	18:02:13	60.9	18:02:53	75.1	18:02:52
607	2021-04-11	18:03:00	00:01:00.0	00:01:00.0	00:00:00.0	62.5	80.3	52.5	18:03:45	67.0	18:03:24	83.6	18:03:53
608	2021-04-11	18:04:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	51.3	18:04:59	59.7	18:04:24	78.1	18:04:16
609	2021-04-11	18:05:00	00:01:00.0	00:01:00.0	00:00:00.0	60.2	78.0	51.3	18:05:00	68.3	18:05:23	88.0	18:05:23
610	2021-04-11	18:06:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	50.2	18:06:27	60.1	18:06:35	77.2	18:06:49
611	2021-04-11	18:07:00	00:01:00.0	00:01:00.0	00:00:00.0	58.2	76.0	50.3	18:07:51	69.7	18:07:33	85.0	18:07:33
612	2021-04-11	18:08:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	50.0	18:08:08	56.0	18:08:04	73.5	18:08:03
613	2021-04-11	18:09:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.6	51.0	18:09:17	66.8	18:09:51	82.4	18:09:50
614	2021-04-11	18:10:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	51.5	18:10:05	68.3	18:10:16	91.9	18:10:15
615	2021-04-11	18:11:00	00:01:00.0	00:01:00.0	00:00:00.0	65.4	83.2	53.2	18:11:07	71.0	18:11:46	86.5	18:11:39
616	2021-04-11	18:12:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	53.2	18:12:49	62.3	18:12:00	76.6	18:12:15
617	2021-04-11	18:13:00	00:01:00.0	00:01:00.0	00:00:00.0	57.5	75.3	51.7	18:13:25	69.8	18:13:50	89.7	18:13:45
618	2021-04-11	18:14:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.5	51.7	18:14:59	60.1	18:14:08	85.3	18:14:07
619	2021-04-11	18:15:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	50.5	18:15:59	61.9	18:15:07	74.9	18:15:21
620	2021-04-11	18:16:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.4	50.4	18:16:00	56.2	18:16:46	70.7	18:16:45
621	2021-04-11	18:17:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	51.5	18:17:25	59.5	18:17:59	75.4	18:17:59
622	2021-04-11	18:18:00	00:01:00.0	00:01:00.0	00:00:00.0	61.9	79.7	52.3	18:18:35	71.9	18:18:25	87.2	18:18:25
623	2021-04-11	18:19:00	00:01:00.0	00:01:00.0	00:00:00.0	59.4	77.2	54.2	18:19:01	64.9	18:19:18	81.3	18:19:45
624	2021-04-11	18:20:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.6	50.9	18:20:59	64.6	18:20:09	80.2	18:20:08
625	2021-04-11	18:21:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.5	18:21:23	55.1	18:21:49	68.0	18:21:48
626	2021-04-11	18:22:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.3	52.0	18:22:22	56.1	18:22:47	70.9	18:22:09
627	2021-04-11	18:23:00	00:01:00.0	00:01:00.0	00:00:00.0	63.9	81.7	53.8	18:23:04	70.0	18:23:40	86.4	18:23:37
628	2021-04-11	18:24:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	54.5	18:24:10	62.2	18:24:31	76.0	18:24:00
629	2021-04-11	18:25:00	00:01:00.0	00:01:00.0	00:00:00.0	59.0	76.8	54.3	18:25:13	64.7	18:25:59	77.8	18:25:58
630	2021-04-11	18:26:00	00:01:00.0	00:01:00.0	00:00:00.0	60.5	78.3	52.8	18:26:59	65.1	18:26:43	83.7	18:26:45
631	2021-04-11	18:27:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.0	51.5	18:27:04	66.3	18:27:24	83.0	18:27:24
632	2021-04-11	18:28:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.1	53.2	18:28:00	63.8	18:28:47	78.8	18:28:47
633	2021-04-11	18:29:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	51.2	18:29:54	59.2	18:29:20	73.3	18:29:19
634	2021-04-11	18:30:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.1	50.6	18:30:21	57.3	18:30:12	74.9	18:30:43
635	2021-04-11	18:31:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.2	51.7	18:31:08	65.1	18:31:35	79.7	18:31:54
636	2021-04-11	18:32:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	51.9	18:32:43	63.1	18:32:03	77.9	18:32:03
637	2021-04-11	18:33:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	51.9	18:33:10	61.5	18:33:19	76.0	18:33:17
638	2021-04-11	18:34:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.1	51.1	18:34:29	57.3	18:34:21	76.2	18:34:58
639	2021-04-11	18:35:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.1	50.7	18:35:26	61.2	18:35:58	83.7	18:35:07
640	2021-04-11	18:36:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.8	52.9	18:36:14	61.4	18:36:43	78.3	18:36:46
641	2021-04-11	18:37:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	51.4	18:37:57	66.1	18:37:02	90.9	18:37:01
642	2021-04-11	18:38:00	00:01:00.0	00:01:00.0	00:00:00.0	62.0	79.7	51.3	18:38:08	75.5	18:38:40	89.7	18:38:40
643	2021-04-11	18:39:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	51.2	18:39:51	60.8	18:39:23	75.8	18:39:25
644	2021-04-11	18:40:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	50.6	18:40:54	61.0	18:40:55	76.3	18:40:54
645	2021-04-11	18:41:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.2	50.6	18:41:09	61.7	18:41:02	79.3	18:41:29
646	2021-04-11	18:42:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.8	52.4	18:42:00	66.1	18:42:09	89.0	18:42:09
647	2021-04-11	18:43:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	51.4	18:43:40	62.3	18:43:58	77.7	18:43:55
648	2021-04-11	18:44:00	00:01:00.0	00:01:00.0	00:00:00.0	61.9	79.7	52.7	18:44:10	69.5	18:44:57	84.8	18:44:57
649	2021-04-11	18:45:00	00:01:00.0	00:01:00.0	00:00:00.0	58.6	76.3	51.0	18:45:51	66.7	18:45:00	80.7	18:45:18
650	2021-04-11	18:46:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	50.5	18:46:59	67.3	18:46:04	81.6	18:46:03
651	2021-04-11	18:47:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	49.9	18:47:14	53.6	18:47:56	68.4	18:47:52
652	2021-04-11	18:48:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.2	50.1	18:48:12	65.2	18:48:34	84.4	18:48:34
653	2021-04-11	18:49:00	00:01:00.0	00:01:00.0	00:00:00.0	59.7	77.5	51.9	18:49:59	64.8	18:49:38	79.0	18:49:10
654	2021-04-11	18:50:00	00:01:00.0	00:01:00.0	00:00:00.0	59.3	77.0	51.0	18:50:00	64.7	18:50:55	78.5	18:50:57
655	2021-04-11	18:51:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.5	53.9	18:51:29	68.0	18:51:19	82.6	18:51:16
656	2021-04-11	18:52:00	00:01:00.0	00:01:00.0	00:00:00.0	59.1	76.9	51.6	18:52:53	64.7	18:52:25	82.3	18:52:11

657	2021-04-11	18:53:00	00:01:00.0	00:01:00.0	00:00:00.0	61.0	78.8	54.1	18:53:03	65.3	18:53:47	81.0		18:53:46
658	2021-04-11	18:54:00	00:01:00.0	00:01:00.0	00:00:00.0	58.6	76.3	52.2	18:54:41	67.0	18:54:55	82.8		18:54:55
659	2021-04-11	18:55:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	50.4	18:55:41	62.5	18:55:01	80.9		18:55:00
660	2021-04-11	18:56:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	50.3	18:56:14	54.0	18:56:16	79.3		18:56:48
661	2021-04-11	18:57:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	49.9	18:57:04	65.5	18:57:28	78.5		18:57:26
662	2021-04-11	18:58:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.8	50.0	18:58:06	63.9	18:58:33	78.2		18:58:33
663	2021-04-11	18:59:00	00:01:00.0	00:01:00.0	00:00:00.0	60.7	78.5	50.9	18:59:19	71.7	18:59:59	85.9		18:59:58
664	2021-04-11	19:00:00	00:01:00.0	00:01:00.0	00:00:00.0	58.6	76.4	50.3	19:00:40	70.6	19:00:00	85.9		19:00:00
665	2021-04-11	19:01:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	49.8	19:01:59	67.0	19:01:00	81.3		19:01:00
666	2021-04-11	19:02:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	49.4	19:02:08	65.7	19:02:31	77.9		19:02:31
667	2021-04-11	19:03:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	48.8	19:03:34	55.7	19:03:11	78.7		19:03:11
668	2021-04-11	19:04:00	00:01:00.0	00:01:00.0	00:00:00.0	63.5	81.3	49.8	19:04:00	71.0	19:04:58	85.0		19:04:55
669	2021-04-11	19:05:00	00:01:00.0	00:01:00.0	00:00:00.0	60.7	78.5	50.4	19:05:50	69.8	19:05:00	84.5		19:05:02
670	2021-04-11	19:06:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.3	19:06:42	52.7	19:06:56	68.9		19:06:52
671	2021-04-11	19:07:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.1	19:07:02	56.9	19:07:48	70.4		19:07:24
672	2021-04-11	19:08:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.0	49.2	19:08:42	61.8	19:08:28	76.0		19:08:28
673	2021-04-11	19:09:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	49.0	19:09:01	66.6	19:09:51	88.8		19:09:51
674	2021-04-11	19:10:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	49.1	19:10:05	67.4	19:10:46	80.6		19:10:46
675	2021-04-11	19:11:00	00:01:00.0	00:01:00.0	00:00:00.0	61.3	79.1	51.7	19:11:57	66.7	19:11:25	83.0		19:11:27
676	2021-04-11	19:12:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.5	51.2	19:12:10	61.9	19:12:59	82.7		19:12:29
677	2021-04-11	19:13:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	54.0	19:13:31	61.9	19:13:00	76.2		19:13:56
678	2021-04-11	19:14:00	00:01:00.0	00:01:00.0	00:00:00.0	60.0	77.8	51.0	19:14:53	66.4	19:14:06	83.1		19:14:05
679	2021-04-11	19:15:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.5	49.5	19:15:51	68.5	19:15:04	83.1		19:15:03
680	2021-04-11	19:16:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	49.1	19:16:06	52.8	19:16:42	69.2		19:16:16
681	2021-04-11	19:17:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	49.2	19:17:00	66.1	19:17:55	82.9		19:17:15
682	2021-04-11	19:18:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.5	48.6	19:18:18	57.4	19:18:00	77.0		19:18:00
683	2021-04-11	19:19:00	00:01:00.0	00:01:00.0	00:00:00.0	59.1	76.8	48.8	19:19:43	71.0	19:19:18	84.5		19:19:17
684	2021-04-11	19:20:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	49.0	19:20:59	64.5	19:20:40	79.6		19:20:39
685	2021-04-11	19:21:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	48.6	19:21:16	60.3	19:21:47	74.1		19:21:46
686	2021-04-11	19:22:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	47.9	19:22:38	62.6	19:22:25	82.6		19:22:24
687	2021-04-11	19:23:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.2	49.1	19:23:00	54.4	19:23:00	79.5		19:23:00
688	2021-04-11	19:24:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	50.4	19:24:49	58.9	19:24:59	75.5		19:24:41
689	2021-04-11	19:25:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	49.3	19:25:47	61.7	19:25:01	75.3		19:25:00
690	2021-04-11	19:26:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	49.7	19:26:15	55.7	19:26:40	68.7		19:26:48
691	2021-04-11	19:27:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.8	19:27:28	53.3	19:27:20	68.3		19:27:32
692	2021-04-11	19:28:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	48.4	19:28:40	62.1	19:28:30	74.7		19:28:29
693	2021-04-11	19:29:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	48.7	19:29:00	53.9	19:29:53	68.9		19:29:44
694	2021-04-11	19:30:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.4	19:30:42	55.6	19:30:31	74.3		19:30:48
695	2021-04-11	19:31:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.3	19:31:02	52.8	19:31:06	69.8		19:31:06
696	2021-04-11	19:32:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	48.2	19:32:56	52.4	19:32:01	72.0		19:32:00
697	2021-04-11	19:33:00	00:01:00.0	00:01:00.0	00:00:00.0	63.3	81.1	48.7	19:33:31	76.0	19:33:12	90.1		19:33:11
698	2021-04-11	19:34:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	47.9	19:34:43	66.0	19:34:58	83.5		19:34:54
699	2021-04-11	19:35:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.8	49.1	19:35:08	62.0	19:35:00	75.8		19:35:57
700	2021-04-11	19:36:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	48.8	19:36:46	58.9	19:36:00	72.8		19:36:31
701	2021-04-11	19:37:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	49.1	19:37:15	65.8	19:37:50	86.9		19:37:50
702	2021-04-11	19:38:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.3	48.3	19:38:23	52.6	19:38:58	68.2		19:38:56
703	2021-04-11	19:39:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	48.9	19:39:01	60.3	19:39:46	74.2		19:39:19
704	2021-04-11	19:40:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.1	19:40:36	53.0	19:40:00	65.6		19:40:49
705	2021-04-11	19:41:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	48.7	19:41:29	64.3	19:41:11	77.8		19:41:10
706	2021-04-11	19:42:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.6	19:42:30	52.4	19:42:57	67.6		19:42:56
707	2021-04-11	19:43:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	49.1	19:43:56	64.5	19:43:46	82.5		19:43:45
708	2021-04-11	19:44:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.0	47.9	19:44:25	51.0	19:44:21	69.0		19:44:21
709	2021-04-11	19:45:00	00:01:00.0	00:01:00.0	00:00:00.0	58.5	76.3	49.7	19:45:00	71.3	19:45:22	84.7		19:45:22
710	2021-04-11	19:46:00	00:01:00.0	00:01:00.0	00:00:00.0	59.1	76.9	49.9	19:46:50	69.8	19:46:26	87.1		19:46:26
711	2021-04-11	19:47:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	49.5	19:47:30	57.0	19:47:56	75.8		19:47:55
712	2021-04-11	19:48:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	50.9	19:48:11	66.0	19:48:55	79.2		19:48:54
713	2021-04-11	19:49:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.0	49.8	19:49:21	58.1	19:49:00	74.6		19:49:44
714	2021-04-11	19:50:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	50.3	19:50:14	67.3	19:50:52	81.0		19:50:51
715	2021-04-11	19:51:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	49.7	19:51:38	55.2	19:51:41	73.9		19:51:45
716	2021-04-11	19:52:00	00:01:00.0	00:01:00.0	00:00:00.0	64.2	82.0	50.5	19:52:59	75.2	19:52:37	92.0		19:52:37
717	2021-04-11	19:53:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.2	50.5	19:53:00	53.2	19:53:53	67.4		19:53:52
718	2021-04-11	19:54:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	50.0	19:54:12	58.3	19:54:52	71.5		19:54:50
719	2021-04-11	19:55:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.9	19:55:13	56.4	19:55:21	71.6		19:55:21
720	2021-04-11	19:56:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	51.0	19:56:12	65.5	19:56:15	82.1		19:56:15
721	2021-04-11	19:57:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	51.3	19:57:44	67.0	19:57:10	86.4		19:57:09
722	2021-04-11	19:58:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	70.9	50.5	19:58:30	57.6	19:58:01	77.0		19:58:52
723	2021-04-11	19:59:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.1	51.8	19:59:44	55.8	19:59:58	72.9		19:59:58
724	2021-04-11	20:00:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.1	51.5	20:00:02	57.9	20:00:33	84.4		20:00:33
725	2021-04-11	20:01:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	51.3	20:01:53	64.0	20:01:12	77.9		20:01:12
726	2021-04-11	20:02:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	51.2	20:02:59	64.3	20:02:14	78.5		20:02:14
727	2021-04-11	20:03:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	50.5	20:03:12	59.4	20:03:24	75.9		20:03:22
728	2021-04-11	20:04:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	50.6	20:04:26	60.1	20:04:59	73.7		20:04:15
729	2021-04-11	20:05:00	00:01:00.0	00:01:00.0	00:00:00.0	61.2	79.0	51.0	20:05:53	71.3	20:05:10	83.0		20:05:09

730	2021-04-11	20:06:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.2	20:06:51	54.5	20:06:15	72.5	20:06:12
731	2021-04-11	20:07:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	50.1	20:07:52	52.6	20:07:21	65.3	20:07:20
732	2021-04-11	20:08:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	50.8	20:08:00	62.0	20:08:18	74.7	20:08:17
733	2021-04-11	20:09:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.6	51.1	20:09:14	67.0	20:09:28	81.7	20:09:24
734	2021-04-11	20:10:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	50.7	20:10:59	60.5	20:10:03	73.1	20:10:02
735	2021-04-11	20:11:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	49.4	20:11:31	52.8	20:11:54	65.3	20:11:55
736	2021-04-11	20:12:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	50.1	20:12:59	52.9	20:12:54	66.6	20:12:51
737	2021-04-11	20:13:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.0	20:13:00	55.3	20:13:31	71.2	20:13:33
738	2021-04-11	20:14:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.2	20:14:47	53.6	20:14:09	78.0	20:14:08
739	2021-04-11	20:15:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.3	20:15:51	53.1	20:15:29	66.0	20:15:31
740	2021-04-11	20:16:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	49.8	20:16:58	53.3	20:16:23	67.4	20:16:23
741	2021-04-11	20:17:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	49.6	20:17:00	53.1	20:17:27	67.7	20:17:43
742	2021-04-11	20:18:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.2	20:18:07	52.2	20:18:33	66.5	20:18:30
743	2021-04-11	20:19:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	49.2	20:19:37	57.3	20:19:23	73.0	20:19:09
744	2021-04-11	20:20:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	49.1	20:20:59	54.2	20:20:41	79.1	20:20:40
745	2021-04-11	20:21:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	48.9	20:21:05	58.4	20:21:51	73.0	20:21:29
746	2021-04-11	20:22:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.4	49.2	20:22:12	54.5	20:22:59	67.6	20:22:39
747	2021-04-11	20:23:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	50.4	20:23:41	65.9	20:23:31	85.3	20:23:31
748	2021-04-11	20:24:00	00:01:00.0	00:01:00.0	00:00:00.0	60.4	78.2	50.6	20:24:41	73.4	20:24:16	87.4	20:24:16
749	2021-04-11	20:25:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	48.7	20:25:29	56.0	20:25:12	72.1	20:25:12
750	2021-04-11	20:26:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.6	20:26:36	51.7	20:26:01	65.0	20:26:23
751	2021-04-11	20:27:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	48.7	20:27:04	54.5	20:27:30	71.1	20:27:26
752	2021-04-11	20:28:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	50.3	20:28:36	52.7	20:28:59	71.5	20:28:42
753	2021-04-11	20:29:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	49.5	20:29:35	55.5	20:29:54	70.9	20:29:58
754	2021-04-11	20:30:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.6	20:30:56	55.8	20:30:12	70.5	20:30:03
755	2021-04-11	20:31:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.4	20:31:50	54.4	20:31:24	67.4	20:31:22
756	2021-04-11	20:32:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	49.8	20:32:52	58.0	20:32:04	73.0	20:32:04
757	2021-04-11	20:33:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.3	20:33:28	53.7	20:33:58	70.7	20:33:58
758	2021-04-11	20:34:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.0	51.4	20:34:03	56.6	20:34:33	71.1	20:34:33
759	2021-04-11	20:35:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.8	54.6	20:35:24	61.5	20:35:43	74.5	20:35:03
760	2021-04-11	20:36:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	53.4	20:36:43	59.3	20:36:19	71.4	20:36:07
761	2021-04-11	20:37:00	00:01:00.0	00:01:00.0	00:00:00.0	59.2	77.0	54.3	20:37:21	65.0	20:37:56	79.2	20:37:53
762	2021-04-11	20:38:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.8	54.8	20:38:46	63.8	20:38:00	76.5	20:38:02
763	2021-04-11	20:39:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	53.4	20:39:47	56.3	20:39:18	70.3	20:39:18
764	2021-04-11	20:40:00	00:01:00.0	00:01:00.0	00:00:00.0	57.5	75.3	52.1	20:40:39	68.7	20:40:53	83.2	20:40:53
765	2021-04-11	20:41:00	00:01:00.0	00:01:00.0	00:00:00.0	58.1	75.8	52.6	20:41:03	67.1	20:41:39	79.4	20:41:38
766	2021-04-11	20:42:00	00:01:00.0	00:01:00.0	00:00:00.0	64.5	82.3	55.5	20:42:03	72.5	20:42:40	87.1	20:42:06
767	2021-04-11	20:43:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	52.7	20:43:59	57.6	20:43:03	75.8	20:43:03
768	2021-04-11	20:44:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	51.1	20:44:06	53.4	20:44:29	67.3	20:44:29
769	2021-04-11	20:45:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	50.9	20:45:25	65.1	20:45:35	79.6	20:45:34
770	2021-04-11	20:46:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	51.7	20:46:33	54.6	20:46:03	67.6	20:46:18
771	2021-04-11	20:47:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	51.0	20:47:47	65.3	20:47:08	84.8	20:47:08
772	2021-04-11	20:48:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	51.2	20:48:11	56.7	20:48:59	70.3	20:48:51
773	2021-04-11	20:49:00	00:01:00.0	00:01:00.0	00:00:00.0	58.6	76.4	51.9	20:49:44	69.8	20:49:26	89.9	20:49:25
774	2021-04-11	20:50:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	52.8	20:50:05	57.1	20:50:59	71.9	20:50:35
775	2021-04-11	20:51:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	52.3	20:51:26	61.5	20:51:05	81.1	20:51:47
776	2021-04-11	20:52:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	51.1	20:52:48	61.1	20:52:14	76.6	20:52:14
777	2021-04-11	20:53:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.4	52.0	20:53:00	66.3	20:53:49	80.7	20:53:47
778	2021-04-11	20:54:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	71.9	52.4	20:54:47	56.6	20:54:36	70.5	20:54:36
779	2021-04-11	20:55:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	51.4	20:55:55	59.6	20:55:18	72.6	20:55:20
780	2021-04-11	20:56:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	52.2	20:56:00	56.7	20:56:28	72.4	20:56:28
781	2021-04-11	20:57:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.3	52.4	20:57:20	57.6	20:57:45	70.2	20:57:52
782	2021-04-11	20:58:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	52.1	20:58:21	56.9	20:58:39	76.6	20:58:00
783	2021-04-11	20:59:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.6	52.5	20:59:26	63.3	20:59:46	79.5	20:59:46
784	2021-04-11	21:00:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	53.4	21:00:02	57.4	21:00:28	71.0	21:00:56
785	2021-04-11	21:01:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.8	52.4	21:01:58	57.3	21:01:08	71.1	21:01:08
786	2021-04-11	21:02:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	52.7	21:02:01	55.0	21:02:30	68.8	21:02:18
787	2021-04-11	21:03:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	51.6	21:03:12	54.5	21:03:46	67.0	21:03:29
788	2021-04-11	21:04:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.6	21:04:48	53.5	21:04:22	69.6	21:04:06
789	2021-04-11	21:05:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	51.0	21:05:59	54.2	21:05:44	66.6	21:05:43
790	2021-04-11	21:06:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.9	21:06:52	52.5	21:06:32	67.7	21:06:30
791	2021-04-11	21:07:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.0	21:07:00	56.5	21:07:39	75.2	21:07:38
792	2021-04-11	21:08:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.1	50.0	21:08:14	60.5	21:08:26	78.2	21:08:26
793	2021-04-11	21:09:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.1	51.9	21:09:18	54.4	21:09:51	67.4	21:09:25
794	2021-04-11	21:10:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.3	52.5	21:10:23	55.3	21:10:07	70.7	21:10:04
795	2021-04-11	21:11:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.6	53.4	21:11:56	66.4	21:11:25	83.3	21:11:24
796	2021-04-11	21:12:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	52.9	21:12:12	55.9	21:12:00	67.7	21:12:44
797	2021-04-11	21:13:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.8	51.1	21:13:43	69.0	21:13:30	84.7	21:13:29
798	2021-04-11	21:14:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	52.2	21:14:35	60.5	21:14:19	75.1	21:14:18
799	2021-04-11	21:15:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	52.6	21:15:00	57.1	21:15:37	70.9	21:15:35
800	2021-04-11	21:16:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	52.0	21:16:40	55.9	21:16:05	68.6	21:16:49
801	2021-04-11	21:17:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	51.9	21:17:54	56.0	21:17:29	68.5	21:17:31
802	2021-04-11	21:18:00	00:01:00.0	00:01:00.0	00:00:00.0	59.9	77.7	50.9	21:18:59	72.2	21:18:26	89.1	21:18:25

803	2021-04-11	21:19:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	49.8	21:19:59	52.8	21:19:19	67.0	21:19:07
804	2021-04-11	21:20:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	49.1	21:20:22	54.7	21:20:41	67.9	21:20:31
805	2021-04-11	21:21:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	51.0	21:21:28	57.3	21:21:48	69.7	21:21:47
806	2021-04-11	21:22:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	50.6	21:22:59	63.0	21:22:15	78.5	21:22:15
807	2021-04-11	21:23:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	50.4	21:23:02	70.0	21:23:11	83.7	21:23:10
808	2021-04-11	21:24:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.6	21:24:16	52.9	21:24:48	66.1	21:24:48
809	2021-04-11	21:25:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	51.9	21:25:00	56.9	21:25:59	74.5	21:25:59
810	2021-04-11	21:26:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	52.3	21:26:54	59.0	21:26:02	75.1	21:26:00
811	2021-04-11	21:27:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	52.0	21:27:09	57.4	21:27:27	70.4	21:27:25
812	2021-04-11	21:28:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	53.8	21:28:08	59.6	21:28:45	76.9	21:28:44
813	2021-04-11	21:29:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	52.8	21:29:45	57.5	21:29:00	70.5	21:29:00
814	2021-04-11	21:30:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	52.1	21:30:05	56.3	21:30:22	69.8	21:30:21
815	2021-04-11	21:31:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	51.7	21:31:45	56.4	21:31:18	69.6	21:31:23
816	2021-04-11	21:32:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.5	52.6	21:32:00	69.2	21:32:31	92.3	21:32:31
817	2021-04-11	21:33:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	52.2	21:33:15	54.0	21:33:59	67.0	21:33:33
818	2021-04-11	21:34:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	52.0	21:34:43	57.7	21:34:47	70.3	21:34:46
819	2021-04-11	21:35:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	50.9	21:35:30	63.9	21:35:43	82.4	21:35:43
820	2021-04-11	21:36:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	53.7	21:36:53	58.4	21:36:40	69.9	21:36:40
821	2021-04-11	21:37:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	51.9	21:37:27	54.9	21:37:05	68.3	21:37:46
822	2021-04-11	21:38:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	51.9	21:38:42	58.3	21:38:30	75.9	21:38:30
823	2021-04-11	21:39:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	52.0	21:39:57	58.2	21:39:10	71.5	21:39:10
824	2021-04-11	21:40:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.5	21:40:11	53.9	21:40:38	66.1	21:40:17
825	2021-04-11	21:41:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.1	51.7	21:41:05	58.3	21:41:19	72.0	21:41:18
826	2021-04-11	21:42:00	00:01:00.0	00:01:00.0	00:00:00.0	57.5	75.3	53.5	21:42:07	64.8	21:42:20	78.7	21:42:19
827	2021-04-11	21:43:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	52.4	21:43:48	56.9	21:43:13	70.3	21:43:12
828	2021-04-11	21:44:00	00:01:00.0	00:01:00.0	00:00:00.0	57.6	75.3	52.0	21:44:27	68.1	21:44:56	81.6	21:44:56
829	2021-04-11	21:45:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	71.9	52.4	21:45:42	60.5	21:45:00	72.1	21:45:00
830	2021-04-11	21:46:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.1	51.0	21:46:58	54.9	21:46:36	67.9	21:46:36
831	2021-04-11	21:47:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.8	21:47:02	53.5	21:47:37	66.1	21:47:36
832	2021-04-11	21:48:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	50.1	21:48:41	64.9	21:48:11	86.3	21:48:11
833	2021-04-11	21:49:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.2	50.0	21:49:32	53.0	21:49:47	72.7	21:49:22
834	2021-04-11	21:50:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.0	49.7	21:50:36	52.5	21:50:46	66.6	21:50:21
835	2021-04-11	21:51:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	47.4	21:51:45	52.5	21:51:03	66.3	21:51:03
836	2021-04-11	21:52:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	47.9	21:52:13	52.2	21:52:39	65.4	21:52:39
837	2021-04-11	21:53:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	48.0	21:53:51	68.0	21:53:35	88.5	21:53:35
838	2021-04-11	21:54:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.6	48.3	21:54:33	51.0	21:54:37	63.9	21:54:02
839	2021-04-11	21:55:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	48.4	21:55:58	52.1	21:55:15	64.6	21:55:13
840	2021-04-11	21:56:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	47.1	21:56:49	52.4	21:56:13	64.5	21:56:13
841	2021-04-11	21:57:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.8	21:57:31	52.8	21:57:58	65.6	21:57:50
842	2021-04-11	21:58:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.5	21:58:51	53.2	21:58:16	65.8	21:58:10
843	2021-04-11	21:59:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.8	48.4	21:59:59	69.3	21:59:11	83.2	21:59:11
844	2021-04-11	22:00:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	48.0	22:00:07	67.9	22:00:50	84.8	22:00:46
845	2021-04-11	22:01:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	48.0	22:01:47	51.5	22:01:30	63.2	22:01:32
846	2021-04-11	22:02:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.2	46.5	22:02:45	61.2	22:02:06	76.1	22:02:03
847	2021-04-11	22:03:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	46.5	22:03:56	48.7	22:03:21	61.1	22:03:03
848	2021-04-11	22:04:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	47.0	22:04:10	51.4	22:04:58	64.3	22:04:25
849	2021-04-11	22:05:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	47.2	22:05:38	51.1	22:05:02	68.6	22:05:16
850	2021-04-11	22:06:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	47.1	22:06:33	65.3	22:06:18	87.3	22:06:18
851	2021-04-11	22:07:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.2	22:07:53	52.8	22:07:13	65.3	22:07:12
852	2021-04-11	22:08:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	48.1	22:08:57	53.9	22:08:22	67.7	22:08:22
853	2021-04-11	22:09:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	48.9	22:09:37	52.4	22:09:12	69.2	22:09:50
854	2021-04-11	22:10:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.4	22:10:56	53.9	22:10:43	75.8	22:10:00
855	2021-04-11	22:11:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.5	48.0	22:11:29	51.0	22:11:00	63.9	22:11:00
856	2021-04-11	22:12:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	47.0	22:12:36	51.0	22:12:49	64.8	22:12:49
857	2021-04-11	22:13:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	48.2	22:13:23	52.1	22:13:10	65.1	22:13:54
858	2021-04-11	22:14:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.5	22:14:28	52.5	22:14:49	67.1	22:14:48
859	2021-04-11	22:15:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	48.5	22:15:46	52.7	22:15:26	65.1	22:15:25
860	2021-04-11	22:16:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.1	22:16:08	52.5	22:16:32	66.0	22:16:16
861	2021-04-11	22:17:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.3	49.4	22:17:49	55.1	22:17:59	67.6	22:17:59
862	2021-04-11	22:18:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	47.0	22:18:38	55.1	22:18:00	67.6	22:18:00
863	2021-04-11	22:19:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	47.5	22:19:50	51.7	22:19:00	64.6	22:19:00
864	2021-04-11	22:20:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.4	48.6	22:20:57	51.3	22:20:27	64.8	22:20:10
865	2021-04-11	22:21:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.2	47.8	22:21:07	51.7	22:21:17	66.6	22:21:27
866	2021-04-11	22:22:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.4	48.0	22:22:39	51.6	22:22:53	65.6	22:22:53
867	2021-04-11	22:23:00	00:01:00.0	00:01:00.0	00:00:00.0	48.6	66.3	47.3	22:23:29	50.1	22:23:44	63.4	22:23:00
868	2021-04-11	22:24:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	47.8	22:24:22	50.8	22:24:08	64.3	22:24:06
869	2021-04-11	22:25:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.3	48.1	22:25:07	53.4	22:25:30	66.5	22:25:25
870	2021-04-11	22:26:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.6	48.4	22:26:23	51.7	22:26:34	64.3	22:26:35
871	2021-04-11	22:27:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	47.6	22:27:13	49.9	22:27:31	63.0	22:27:17
872	2021-04-11	22:28:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	47.4	22:28:16	50.9	22:28:58	64.5	22:28:57
873	2021-04-11	22:29:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.4	22:29:15	51.2	22:29:31	64.1	22:29:30
874	2021-04-11	22:30:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	48.5	22:30:17	64.1	22:30:07	78.7	22:30:06
875	2021-04-11	22:31:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	46.9	22:31:43	50.8	22:31:20	63.7	22:31:18

876	2021-04-11	22:32:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	48.4	22:32:44	52.0	22:32:17	65.0	22:32:10
877	2021-04-11	22:33:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	47.7	22:33:25	50.7	22:33:43	63.9	22:33:42
878	2021-04-11	22:34:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.1	48.2	22:34:07	53.7	22:34:50	66.6	22:34:48
879	2021-04-11	22:35:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	46.6	22:35:45	52.3	22:35:29	65.1	22:35:28
880	2021-04-11	22:36:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.4	48.3	22:36:05	51.5	22:36:34	64.3	22:36:34
881	2021-04-11	22:37:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.4	47.5	22:37:42	53.2	22:37:25	64.3	22:37:30
882	2021-04-11	22:38:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.7	46.5	22:38:04	53.8	22:38:59	66.5	22:38:59
883	2021-04-11	22:39:00	00:01:00.0	00:01:00.0	00:00:00.0	65.5	83.3	45.2	22:39:33	78.8	22:39:06	93.9	22:39:06
884	2021-04-11	22:40:00	00:01:00.0	00:01:00.0	00:00:00.0	47.5	65.3	45.8	22:40:12	51.2	22:40:52	63.9	22:40:52
885	2021-04-11	22:41:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	45.9	22:41:45	49.5	22:41:03	61.8	22:41:10
886	2021-04-11	22:42:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.2	47.0	22:42:24	50.2	22:42:51	64.8	22:42:49
887	2021-04-11	22:43:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	46.0	22:43:25	49.5	22:43:38	63.2	22:43:37
888	2021-04-11	22:44:00	00:01:00.0	00:01:00.0	00:00:00.0	48.6	66.4	46.7	22:44:04	50.4	22:44:07	68.7	22:44:07
889	2021-04-11	22:45:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	46.5	22:45:06	49.7	22:45:41	62.4	22:45:53
890	2021-04-11	22:46:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	47.2	22:46:00	51.1	22:46:45	64.3	22:46:45
891	2021-04-11	22:47:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	45.3	22:47:55	51.5	22:47:21	64.8	22:47:26
892	2021-04-11	22:48:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	44.8	22:48:06	51.4	22:48:40	63.9	22:48:40
893	2021-04-11	22:49:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	46.9	22:49:21	51.1	22:49:55	64.1	22:49:53
894	2021-04-11	22:50:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.6	47.1	22:50:37	50.9	22:50:15	63.2	22:50:09
895	2021-04-11	22:51:00	00:01:00.0	00:01:00.0	00:00:00.0	49.8	67.6	46.8	22:51:24	52.1	22:51:49	64.1	22:51:42
896	2021-04-11	22:52:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	49.2	22:52:02	55.0	22:52:20	72.1	22:52:20
897	2021-04-11	22:53:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.4	48.7	22:53:20	52.8	22:53:47	66.5	22:53:46
898	2021-04-11	22:54:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	49.8	22:54:23	52.9	22:54:04	65.1	22:54:03
899	2021-04-11	22:55:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	49.1	22:55:32	58.9	22:55:46	71.1	22:55:45
900	2021-04-11	22:56:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	47.8	22:56:39	55.0	22:56:08	67.3	22:56:08
901	2021-04-11	22:57:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.1	49.1	22:57:38	70.5	22:57:22	85.0	22:57:21
902	2021-04-11	22:58:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.3	48.9	22:58:47	52.5	22:58:12	65.3	22:58:10
903	2021-04-11	22:59:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	48.6	22:59:10	52.4	22:59:38	66.2	22:59:51
904	2021-04-11	23:00:00	00:01:00.0	00:01:00.0	00:00:00.0	49.8	67.6	47.5	23:00:42	51.8	23:00:11	64.8	23:00:11
905	2021-04-11	23:01:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.0	46.9	23:01:29	51.3	23:01:06	64.6	23:01:05
906	2021-04-11	23:02:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.2	46.7	23:02:37	51.1	23:02:06	63.2	23:02:05
907	2021-04-11	23:03:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	47.8	23:03:09	51.8	23:03:34	64.6	23:03:34
908	2021-04-11	23:04:00	00:01:00.0	00:01:00.0	00:00:00.0	48.6	66.4	47.1	23:04:21	50.8	23:04:05	63.0	23:04:03
909	2021-04-11	23:05:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.7	46.2	23:05:53	49.5	23:05:44	64.1	23:05:10
910	2021-04-11	23:06:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	46.0	23:06:09	52.1	23:06:56	64.3	23:06:50
911	2021-04-11	23:07:00	00:01:00.0	00:01:00.0	00:00:00.0	49.8	67.6	47.9	23:07:28	51.0	23:07:11	64.1	23:07:08
912	2021-04-11	23:08:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.2	49.1	23:08:25	51.9	23:08:59	72.8	23:08:34
913	2021-04-11	23:09:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	66.9	47.4	23:09:23	51.7	23:09:00	64.5	23:09:00
914	2021-04-11	23:10:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.8	46.5	23:10:31	54.7	23:10:57	73.0	23:10:44
915	2021-04-11	23:11:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.3	48.6	23:11:40	56.7	23:11:16	75.2	23:11:16
916	2021-04-11	23:12:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	48.1	23:12:30	54.1	23:12:45	66.5	23:12:46
917	2021-04-11	23:13:00	00:01:00.0	00:01:00.0	00:00:00.0	48.2	66.0	46.5	23:13:59	50.5	23:13:15	63.4	23:13:15
918	2021-04-11	23:14:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	44.5	23:14:32	63.1	23:14:17	76.8	23:14:17
919	2021-04-11	23:15:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	47.2	23:15:24	53.3	23:15:46	65.4	23:15:43
920	2021-04-11	23:16:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	45.4	23:16:29	62.3	23:16:51	79.8	23:16:50
921	2021-04-11	23:17:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	46.4	23:17:03	51.8	23:17:38	65.7	23:17:38
922	2021-04-11	23:18:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	46.3	23:18:22	51.8	23:18:50	65.1	23:18:49
923	2021-04-11	23:19:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.1	23:19:23	52.3	23:19:51	64.6	23:19:50
924	2021-04-11	23:20:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	47.0	23:20:15	53.1	23:20:23	68.8	23:20:22
925	2021-04-11	23:21:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	46.7	23:21:40	52.1	23:21:01	65.0	23:21:01
926	2021-04-11	23:22:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	47.6	23:22:05	50.7	23:22:59	63.2	23:22:17
927	2021-04-11	23:23:00	00:01:00.0	00:01:00.0	00:00:00.0	49.8	67.5	48.8	23:23:04	51.6	23:23:12	64.3	23:23:40
928	2021-04-11	23:24:00	00:01:00.0	00:01:00.0	00:00:00.0	48.6	66.4	47.6	23:24:06	50.3	23:24:23	64.3	23:24:55
929	2021-04-11	23:25:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.5	47.3	23:25:55	52.6	23:25:30	65.3	23:25:29
930	2021-04-11	23:26:00	00:01:00.0	00:01:00.0	00:00:00.0	47.4	65.1	44.8	23:26:23	49.7	23:26:59	64.5	23:26:03
931	2021-04-11	23:27:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	46.4	23:27:45	53.7	23:27:22	66.1	23:27:19
932	2021-04-11	23:28:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	45.6	23:28:49	54.1	23:28:36	66.9	23:28:35
933	2021-04-11	23:29:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.7	44.9	23:29:07	55.0	23:29:54	67.7	23:29:54
934	2021-04-11	23:30:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	45.8	23:30:52	50.9	23:30:10	64.6	23:30:10
935	2021-04-11	23:31:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	46.4	23:31:00	56.7	23:31:38	69.0	23:31:36
936	2021-04-11	23:32:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	47.0	23:32:00	51.2	23:32:59	63.9	23:32:42
937	2021-04-11	23:33:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.0	47.3	23:33:40	51.4	23:33:00	64.6	23:33:05
938	2021-04-11	23:34:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.4	46.4	23:34:06	51.7	23:34:17	64.5	23:34:34
939	2021-04-11	23:35:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	44.6	23:35:46	51.2	23:35:12	64.8	23:35:11
940	2021-04-11	23:36:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	46.1	23:36:55	51.1	23:36:07	64.1	23:36:06
941	2021-04-11	23:37:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	66.9	46.7	23:37:00	51.4	23:37:24	64.3	23:37:24
942	2021-04-11	23:38:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	46.3	23:38:19	50.9	23:38:31	65.1	23:38:37
943	2021-04-11	23:39:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.5	47.2	23:39:26	50.6	23:39:17	66.9	23:39:17
944	2021-04-11	23:40:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.1	46.9	23:40:15	52.7	23:40:38	66.2	23:40:37
945	2021-04-11	23:41:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.7	48.1	23:41:30	68.3	23:41:10	81.9	23:41:10
946	2021-04-11	23:42:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	47.2	23:42:06	54.8	23:42:34	69.6	23:42:33
947	2021-04-11	23:43:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	47.3	23:43:06	55.9	23:43:53	68.8	23:43:52
948	2021-04-11	23:44:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.5	47.1	23:44:54	52.0	23:44:05	65.0	23:44:27

949	2021-04-11	23:45:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	47.4	23:45:29	50.9	23:45:59	65.4	23:45:59
950	2021-04-11	23:46:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	47.9	23:46:18	50.7	23:46:03	65.4	23:46:00
951	2021-04-11	23:47:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.5	47.0	23:47:47	52.3	23:47:15	67.0	23:47:22
952	2021-04-11	23:48:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	45.2	23:48:57	51.7	23:48:08	63.9	23:48:01
953	2021-04-11	23:49:00	00:01:00.0	00:01:00.0	00:00:00.0	47.7	65.5	45.2	23:49:05	49.8	23:49:47	63.0	23:49:46
954	2021-04-11	23:50:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	47.1	23:50:23	51.5	23:50:33	65.0	23:50:33
955	2021-04-11	23:51:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	46.1	23:51:59	50.8	23:51:19	63.4	23:51:19
956	2021-04-11	23:52:00	00:01:00.0	00:01:00.0	00:00:00.0	46.2	64.0	43.4	23:52:19	49.4	23:52:59	62.7	23:52:59
957	2021-04-11	23:53:00	00:01:00.0	00:01:00.0	00:00:00.0	48.6	66.4	44.8	23:53:33	53.0	23:53:17	65.3	23:53:16
958	2021-04-11	23:54:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.5	46.1	23:54:21	49.8	23:54:08	63.7	23:54:35
959	2021-04-11	23:55:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.1	45.7	23:55:20	52.0	23:55:59	63.4	23:55:59
960	2021-04-11	23:56:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	45.8	23:56:21	54.1	23:56:08	67.3	23:56:07
961	2021-04-11	23:57:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	47.7	23:57:33	52.1	23:57:23	65.1	23:57:22
962	2021-04-11	23:58:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	47.0	23:58:59	51.8	23:58:39	63.4	23:58:24
963	2021-04-11	23:59:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	46.3	23:59:34	49.7	23:59:27	62.4	23:59:54
964	2021-04-12	00:00:00	00:01:00.0	00:01:00.0	00:00:00.0	47.0	64.8	43.4	00:00:50	49.5	00:00:04	63.2	00:00:00
965	2021-04-12	00:01:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	46.2	00:01:10	55.4	00:01:53	68.3	00:01:52
966	2021-04-12	00:02:00	00:01:00.0	00:01:00.0	00:00:00.0	48.2	65.9	45.6	00:02:38	52.8	00:02:59	65.1	00:02:59
967	2021-04-12	00:03:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	47.3	00:03:50	53.2	00:03:00	65.4	00:03:00
968	2021-04-12	00:04:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.2	46.4	00:04:15	53.9	00:04:35	66.5	00:04:34
969	2021-04-12	00:05:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	47.4	00:05:48	52.1	00:05:17	64.6	00:05:15
970	2021-04-12	00:06:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	46.7	00:06:17	55.0	00:06:35	68.4	00:06:34
971	2021-04-12	00:07:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	45.2	00:07:10	51.0	00:07:00	63.9	00:07:00
972	2021-04-12	00:08:00	00:01:00.0	00:01:00.0	00:00:00.0	47.0	64.7	44.5	00:08:54	48.4	00:08:13	61.8	00:08:11
973	2021-04-12	00:09:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.6	44.5	00:09:18	49.3	00:09:21	61.8	00:09:20
974	2021-04-12	00:10:00	00:01:00.0	00:01:00.0	00:00:00.0	47.1	64.9	43.7	00:10:59	50.0	00:10:12	63.7	00:10:28
975	2021-04-12	00:11:00	00:01:00.0	00:01:00.0	00:00:00.0	46.2	64.0	42.8	00:11:06	51.8	00:11:42	66.1	00:11:42
976	2021-04-12	00:12:00	00:01:00.0	00:01:00.0	00:00:00.0	45.9	63.7	44.4	00:12:01	48.2	00:12:21	60.2	00:12:21
977	2021-04-12	00:13:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	44.5	00:13:00	51.5	00:13:56	64.6	00:13:53
978	2021-04-12	00:14:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	45.4	00:14:51	52.7	00:14:12	64.1	00:14:11
979	2021-04-12	00:15:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.7	46.2	00:15:00	52.1	00:15:48	65.7	00:15:47
980	2021-04-12	00:16:00	00:01:00.0	00:01:00.0	00:00:00.0	48.2	66.0	45.5	00:16:25	52.1	00:16:12	64.3	00:16:14
981	2021-04-12	00:17:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	45.2	00:17:36	49.3	00:17:23	62.4	00:17:23
982	2021-04-12	00:18:00	00:01:00.0	00:01:00.0	00:00:00.0	47.7	65.5	44.1	00:18:12	50.3	00:18:41	63.2	00:18:34
983	2021-04-12	00:19:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	45.9	00:19:24	53.7	00:19:53	66.8	00:19:52
984	2021-04-12	00:20:00	00:01:00.0	00:01:00.0	00:00:00.0	47.2	65.0	45.7	00:20:59	50.2	00:20:00	62.4	00:20:00
985	2021-04-12	00:21:00	00:01:00.0	00:01:00.0	00:00:00.0	48.2	66.0	44.5	00:21:05	52.5	00:21:33	66.1	00:21:33
986	2021-04-12	00:22:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.4	45.7	00:22:44	55.3	00:22:56	67.5	00:22:55
987	2021-04-12	00:23:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.1	45.6	00:23:26	53.2	00:23:01	65.7	00:23:28
988	2021-04-12	00:24:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	43.8	00:24:45	51.3	00:24:56	64.6	00:24:55
989	2021-04-12	00:25:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	46.3	00:25:30	66.6	00:25:42	83.0	00:25:41
990	2021-04-12	00:26:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	44.3	00:26:13	52.7	00:26:35	66.3	00:26:35
991	2021-04-12	00:27:00	00:01:00.0	00:01:00.0	00:00:00.0	47.0	64.8	43.9	00:27:20	50.7	00:27:07	64.8	00:27:06
992	2021-04-12	00:28:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	45.4	00:28:00	51.6	00:28:30	63.9	00:28:30
993	2021-04-12	00:29:00	00:01:00.0	00:01:00.0	00:00:00.0	47.0	64.8	44.5	00:29:19	49.6	00:29:00	62.4	00:29:59
994	2021-04-12	00:30:00	00:01:00.0	00:01:00.0	00:00:00.0	46.4	64.2	43.6	00:30:42	49.4	00:30:00	62.4	00:30:00
995	2021-04-12	00:31:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	44.7	00:31:26	52.2	00:31:56	64.8	00:31:56
996	2021-04-12	00:32:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.4	46.1	00:32:09	53.8	00:32:35	66.7	00:32:34
997	2021-04-12	00:33:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	43.9	00:33:09	50.9	00:33:36	63.0	00:33:35
998	2021-04-12	00:34:00	00:01:00.0	00:01:00.0	00:00:00.0	46.7	64.5	43.3	00:34:47	50.8	00:34:35	61.8	00:34:16
999	2021-04-12	00:35:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	45.5	00:35:02	50.2	00:35:21	62.7	00:35:44
1000	2021-04-12	00:36:00	00:01:00.0	00:01:00.0	00:00:00.0	45.6	63.4	42.4	00:36:24	49.6	00:36:57	62.1	00:36:56
1001	2021-04-12	00:37:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.3	43.6	00:37:51	49.1	00:37:01	62.1	00:37:01
1002	2021-04-12	00:38:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.1	44.2	00:38:00	50.6	00:38:39	63.4	00:38:38
1003	2021-04-12	00:39:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.7	44.3	00:39:27	51.1	00:39:06	64.6	00:39:06
1004	2021-04-12	00:40:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.8	45.3	00:40:20	50.5	00:40:11	63.0	00:40:57
1005	2021-04-12	00:41:00	00:01:00.0	00:01:00.0	00:00:00.0	45.8	63.6	44.3	00:41:15	48.0	00:41:38	60.2	00:41:24
1006	2021-04-12	00:42:00	00:01:00.0	00:01:00.0	00:00:00.0	44.7	62.4	41.9	00:42:31	48.6	00:42:59	60.7	00:42:59
1007	2021-04-12	00:43:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	45.0	00:43:57	50.5	00:43:25	62.1	00:43:24
1008	2021-04-12	00:44:00	00:01:00.0	00:01:00.0	00:00:00.0	46.3	64.1	44.2	00:44:06	48.1	00:44:43	62.7	00:44:10
1009	2021-04-12	00:45:00	00:01:00.0	00:01:00.0	00:00:00.0	46.2	64.0	44.4	00:45:51	49.9	00:45:35	61.5	00:45:34
1010	2021-04-12	00:46:00	00:01:00.0	00:01:00.0	00:00:00.0	46.4	64.2	44.3	00:46:26	50.3	00:46:16	63.4	00:46:15
1011	2021-04-12	00:47:00	00:01:00.0	00:01:00.0	00:00:00.0	47.0	64.8	44.2	00:47:47	50.1	00:47:28	63.4	00:47:28
1012	2021-04-12	00:48:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	46.3	00:48:28	51.1	00:48:50	65.3	00:48:35
1013	2021-04-12	00:49:00	00:01:00.0	00:01:00.0	00:00:00.0	47.2	65.0	43.5	00:49:59	50.0	00:49:13	62.7	00:49:11
1014	2021-04-12	00:50:00	00:01:00.0	00:01:00.0	00:00:00.0	43.8	61.5	41.2	00:50:30	46.9	00:50:55	59.7	00:50:55
1015	2021-04-12	00:51:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.0	45.5	00:51:03	64.5	00:51:22	79.5	00:51:21
1016	2021-04-12	00:52:00	00:01:00.0	00:01:00.0	00:00:00.0	46.0	63.8	42.5	00:52:30	48.9	00:52:04	61.8	00:52:56
1017	2021-04-12	00:53:00	00:01:00.0	00:01:00.0	00:00:00.0	46.7	64.5	42.3	00:53:55	49.7	00:53:27	62.4	00:53:26
1018	2021-04-12	00:54:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	43.5	00:54:00	51.3	00:54:47	65.0	00:54:46
1019	2021-04-12	00:55:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.7	45.7	00:55:07	50.3	00:55:51	63.2	00:55:45
1020	2021-04-12	00:56:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.8	46.3	00:56:59	50.1	00:56:41	68.5	00:56:41
1021	2021-04-12	00:57:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.5	45.2	00:57:51	54.8	00:57:57	67.7	00:57:57

1022	2021-04-12	00:58:00	00:01:00.0	00:01:00.0	00:00:00.0	45.9	63.7	42.8	00:58:43	51.8	00:58:00	63.0	00:58:00
1023	2021-04-12	00:59:00	00:01:00.0	00:01:00.0	00:00:00.0	45.2	63.0	43.0	00:59:30	47.4	00:59:54	60.7	00:59:54
1024	2021-04-12	01:00:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	46.2	01:00:00	51.0	01:00:14	63.7	01:00:13
1025	2021-04-12	01:01:00	00:01:00.0	00:01:00.0	00:00:00.0	46.3	64.0	45.2	01:01:57	49.1	01:01:00	61.1	01:01:00
1026	2021-04-12	01:02:00	00:01:00.0	00:01:00.0	00:00:00.0	46.0	63.8	43.8	01:02:45	48.4	01:02:15	60.2	01:02:07
1027	2021-04-12	01:03:00	00:01:00.0	00:01:00.0	00:00:00.0	44.0	61.8	42.0	01:03:25	45.7	01:03:50	58.4	01:03:36
1028	2021-04-12	01:04:00	00:01:00.0	00:01:00.0	00:00:00.0	45.3	63.1	43.6	01:04:40	46.7	01:04:16	59.1	01:04:15
1029	2021-04-12	01:05:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.2	44.6	01:05:25	49.0	01:05:47	62.7	01:05:46
1030	2021-04-12	01:06:00	00:01:00.0	00:01:00.0	00:00:00.0	46.7	64.5	44.0	01:06:27	50.5	01:06:53	62.4	01:06:56
1031	2021-04-12	01:07:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	44.7	01:07:04	53.4	01:07:58	67.2	01:07:57
1032	2021-04-12	01:08:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	44.9	01:08:53	52.6	01:08:00	63.4	01:08:00
1033	2021-04-12	01:09:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	43.7	01:09:59	52.0	01:09:16	64.6	01:09:03
1034	2021-04-12	01:10:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.3	43.6	01:10:01	50.2	01:10:28	64.1	01:10:22
1035	2021-04-12	01:11:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	44.8	01:11:13	50.8	01:11:53	63.9	01:11:26
1036	2021-04-12	01:12:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.2	42.7	01:12:59	55.0	01:12:12	69.1	01:12:12
1037	2021-04-12	01:13:00	00:01:00.0	00:01:00.0	00:00:00.0	46.4	64.2	43.0	01:13:00	49.8	01:13:49	62.4	01:13:51
1038	2021-04-12	01:14:00	00:01:00.0	00:01:00.0	00:00:00.0	46.7	64.5	43.1	01:14:59	51.6	01:14:13	64.1	01:14:13
1039	2021-04-12	01:15:00	00:01:00.0	00:01:00.0	00:00:00.0	45.4	63.1	43.3	01:15:00	47.8	01:15:58	61.8	01:15:57
1040	2021-04-12	01:16:00	00:01:00.0	00:01:00.0	00:00:00.0	45.6	63.4	40.2	01:16:42	51.4	01:16:19	65.1	01:16:18
1041	2021-04-12	01:17:00	00:01:00.0	00:01:00.0	00:00:00.0	46.0	63.8	44.0	01:17:55	48.4	01:17:07	60.2	01:17:04
1042	2021-04-12	01:18:00	00:01:00.0	00:01:00.0	00:00:00.0	46.7	64.4	44.5	01:18:00	48.4	01:18:42	61.5	01:18:23
1043	2021-04-12	01:19:00	00:01:00.0	00:01:00.0	00:00:00.0	45.2	63.0	43.8	01:19:24	47.7	01:19:48	60.7	01:19:48
1044	2021-04-12	01:20:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.2	44.1	01:20:00	48.9	01:20:25	61.8	01:20:31
1045	2021-04-12	01:21:00	00:01:00.0	00:01:00.0	00:00:00.0	45.4	63.2	43.2	01:21:32	48.1	01:21:58	61.8	01:21:57
1046	2021-04-12	01:22:00	00:01:00.0	00:01:00.0	00:00:00.0	45.1	62.9	42.1	01:22:38	47.8	01:22:10	60.7	01:22:09
1047	2021-04-12	01:23:00	00:01:00.0	00:01:00.0	00:00:00.0	43.5	61.3	40.7	01:23:23	46.0	01:23:01	57.7	01:23:00
1048	2021-04-12	01:24:00	00:01:00.0	00:01:00.0	00:00:00.0	44.6	62.3	42.5	01:24:32	47.5	01:24:50	60.7	01:24:49
1049	2021-04-12	01:25:00	00:01:00.0	00:01:00.0	00:00:00.0	46.2	64.0	43.8	01:25:09	47.9	01:25:35	60.2	01:25:33
1050	2021-04-12	01:26:00	00:01:00.0	00:01:00.0	00:00:00.0	46.1	63.9	42.3	01:26:39	50.5	01:26:07	63.7	01:26:03
1051	2021-04-12	01:27:00	00:01:00.0	00:01:00.0	00:00:00.0	45.1	62.9	41.8	01:27:53	47.2	01:27:26	60.2	01:27:22
1052	2021-04-12	01:28:00	00:01:00.0	00:01:00.0	00:00:00.0	47.5	65.3	43.2	01:28:00	49.8	01:28:44	63.2	01:28:40
1053	2021-04-12	01:29:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.6	42.7	01:29:55	49.5	01:29:01	62.4	01:29:00
1054	2021-04-12	01:30:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.2	42.8	01:30:00	49.3	01:30:40	62.4	01:30:39
1055	2021-04-12	01:31:00	00:01:00.0	00:01:00.0	00:00:00.0	46.0	63.8	43.9	01:31:30	48.0	01:31:54	61.1	01:31:12
1056	2021-04-12	01:32:00	00:01:00.0	00:01:00.0	00:00:00.0	46.0	63.8	44.0	01:32:11	49.6	01:32:32	62.7	01:32:32
1057	2021-04-12	01:33:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.3	42.6	01:33:09	67.1	01:33:35	84.5	01:33:34
1058	2021-04-12	01:34:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.3	43.8	01:34:26	48.4	01:34:55	61.1	01:34:41
1059	2021-04-12	01:35:00	00:01:00.0	00:01:00.0	00:00:00.0	46.9	64.6	44.3	01:35:41	49.5	01:35:17	61.1	01:35:15
1060	2021-04-12	01:36:00	00:01:00.0	00:01:00.0	00:00:00.0	47.2	65.0	44.5	01:36:00	49.1	01:36:42	62.1	01:36:51
1061	2021-04-12	01:37:00	00:01:00.0	00:01:00.0	00:00:00.0	47.1	64.8	45.2	01:37:19	48.7	01:37:02	61.8	01:37:14
1062	2021-04-12	01:38:00	00:01:00.0	00:01:00.0	00:00:00.0	45.2	62.9	43.6	01:38:59	46.9	01:38:04	59.7	01:38:00
1063	2021-04-12	01:39:00	00:01:00.0	00:01:00.0	00:00:00.0	44.4	62.2	42.7	01:39:45	45.7	01:39:27	59.1	01:39:50
1064	2021-04-12	01:40:00	00:01:00.0	00:01:00.0	00:00:00.0	46.2	64.0	43.5	01:40:02	49.5	01:40:21	62.1	01:40:20
1065	2021-04-12	01:41:00	00:01:00.0	00:01:00.0	00:00:00.0	44.1	61.8	41.6	01:41:22	46.3	01:41:03	57.7	01:41:00
1066	2021-04-12	01:42:00	00:01:00.0	00:01:00.0	00:00:00.0	43.7	61.5	40.2	01:42:53	47.8	01:42:15	60.2	01:42:14
1067	2021-04-12	01:43:00	00:01:00.0	00:01:00.0	00:00:00.0	45.5	63.3	42.7	01:43:59	49.0	01:43:32	63.0	01:43:32
1068	2021-04-12	01:44:00	00:01:00.0	00:01:00.0	00:00:00.0	45.5	63.2	41.5	01:44:06	49.2	01:44:32	62.1	01:44:37
1069	2021-04-12	01:45:00	00:01:00.0	00:01:00.0	00:00:00.0	46.6	64.3	43.5	01:45:42	50.2	01:45:10	62.4	01:45:10
1070	2021-04-12	01:46:00	00:01:00.0	00:01:00.0	00:00:00.0	46.6	64.4	43.6	01:46:25	50.9	01:46:38	63.4	01:46:36
1071	2021-04-12	01:47:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.5	44.6	01:47:12	49.2	01:47:38	62.7	01:47:37
1072	2021-04-12	01:48:00	00:01:00.0	00:01:00.0	00:00:00.0	47.1	64.9	44.6	01:48:29	49.7	01:48:02	62.4	01:48:01
1073	2021-04-12	01:49:00	00:01:00.0	00:01:00.0	00:00:00.0	46.3	64.1	42.9	01:49:58	49.0	01:49:26	63.2	01:49:21
1074	2021-04-12	01:50:00	00:01:00.0	00:01:00.0	00:00:00.0	44.9	62.6	42.4	01:50:54	48.1	01:50:27	60.2	01:50:27
1075	2021-04-12	01:51:00	00:01:00.0	00:01:00.0	00:00:00.0	44.6	62.4	42.3	01:51:02	46.4	01:51:34	60.7	01:51:30
1076	2021-04-12	01:52:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.3	43.8	01:52:11	49.7	01:52:36	63.9	01:52:35
1077	2021-04-12	01:53:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	45.0	01:53:39	50.2	01:53:21	63.4	01:53:21
1078	2021-04-12	01:54:00	00:01:00.0	00:01:00.0	00:00:00.0	45.3	63.0	43.3	01:54:35	46.5	01:54:20	59.7	01:54:38
1079	2021-04-12	01:55:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	41.1	01:55:59	54.8	01:55:21	66.1	01:55:21
1080	2021-04-12	01:56:00	00:01:00.0	00:01:00.0	00:00:00.0	44.4	62.2	41.2	01:56:01	47.2	01:56:52	61.1	01:56:51
1081	2021-04-12	01:57:00	00:01:00.0	00:01:00.0	00:00:00.0	45.6	63.4	43.0	01:57:41	50.2	01:57:54	65.0	01:57:54
1082	2021-04-12	01:58:00	00:01:00.0	00:01:00.0	00:00:00.0	46.4	64.2	44.2	01:58:40	49.4	01:58:26	62.4	01:58:26
1083	2021-04-12	01:59:00	00:01:00.0	00:01:00.0	00:00:00.0	47.2	65.0	44.2	01:59:32	49.7	01:59:50	63.0	01:59:48
1084	2021-04-12	02:00:00	00:01:00.0	00:01:00.0	00:00:00.0	46.6	64.4	44.2	02:00:44	50.2	02:00:24	63.2	02:00:23
1085	2021-04-12	02:01:00	00:01:00.0	00:01:00.0	00:00:00.0	47.4	65.2	43.3	02:01:59	50.6	02:01:13	63.0	02:01:12
1086	2021-04-12	02:02:00	00:01:00.0	00:01:00.0	00:00:00.0	46.3	64.1	42.9	02:02:03	48.3	02:02:52	61.8	02:02:32
1087	2021-04-12	02:03:00	00:01:00.0	00:01:00.0	00:00:00.0	43.8	61.6	42.2	02:03:21	46.5	02:03:01	59.1	02:03:00
1088	2021-04-12	02:04:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.3	44.0	02:04:21	49.3	02:04:58	61.5	02:04:47
1089	2021-04-12	02:05:00	00:01:00.0	00:01:00.0	00:00:00.0	46.9	64.7	43.8	02:05:32	51.0	02:05:45	63.2	02:05:44
1090	2021-04-12	02:06:00	00:01:00.0	00:01:00.0	00:00:00.0	46.6	64.4	43.4	02:06:39	53.7	02:06:29	66.2	02:06:28
1091	2021-04-12	02:07:00	00:01:00.0	00:01:00.0	00:00:00.0	47.5	65.3	43.6	02:07:10	51.6	02:07:38	65.0	02:07:37
1092	2021-04-12	02:08:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	44.9	02:08:50	50.1	02:08:39	63.9	02:08:55
1093	2021-04-12	02:09:00	00:01:00.0	00:01:00.0	00:00:00.0	46.1	63.9	41.5	02:09:46	52.6	02:09:23	65.0	02:09:22
1094	2021-04-12	02:10:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.6	44.2	02:10:00	49.5	02:10:22	62.1	02:10:20

1095	2021-04-12	02:11:00	00:01:00.0	00:01:00.0	00:00:00.0	47.1	64.9	44.5	02:11:25	50.0	02:11:38	62.7	02:11:35
1096	2021-04-12	02:12:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.3	43.4	02:12:34	50.0	02:12:15	63.7	02:12:13
1097	2021-04-12	02:13:00	00:01:00.0	00:01:00.0	00:00:00.0	46.1	63.9	43.0	02:13:19	48.8	02:13:29	61.1	02:13:25
1098	2021-04-12	02:14:00	00:01:00.0	00:01:00.0	00:00:00.0	46.3	64.0	43.4	02:14:54	49.6	02:14:31	61.5	02:14:12
1099	2021-04-12	02:15:00	00:01:00.0	00:01:00.0	00:00:00.0	46.4	64.2	43.5	02:15:26	50.4	02:15:52	64.1	02:15:51
1100	2021-04-12	02:16:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	43.4	02:16:05	51.2	02:16:48	64.5	02:16:47
1101	2021-04-12	02:17:00	00:01:00.0	00:01:00.0	00:00:00.0	48.2	65.9	44.8	02:17:44	51.6	02:17:22	64.6	02:17:18
1102	2021-04-12	02:18:00	00:01:00.0	00:01:00.0	00:00:00.0	46.3	64.1	42.3	02:18:40	49.7	02:18:57	62.4	02:18:15
1103	2021-04-12	02:19:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.6	44.6	02:19:59	49.8	02:19:38	61.8	02:19:37
1104	2021-04-12	02:20:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.5	43.8	02:20:09	48.5	02:20:26	62.1	02:20:58
1105	2021-04-12	02:21:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.3	43.2	02:21:23	49.5	02:21:10	61.5	02:21:10
1106	2021-04-12	02:22:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	43.5	02:22:56	51.6	02:22:36	65.1	02:22:36
1107	2021-04-12	02:23:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	44.7	02:23:14	49.8	02:23:59	63.4	02:23:59
1108	2021-04-12	02:24:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.0	44.9	02:24:16	51.0	02:24:59	64.3	02:24:59
1109	2021-04-12	02:25:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	45.0	02:25:41	51.2	02:25:12	64.3	02:25:00
1110	2021-04-12	02:26:00	00:01:00.0	00:01:00.0	00:00:00.0	48.2	65.9	46.2	02:26:32	52.0	02:26:50	63.7	02:26:51
1111	2021-04-12	02:27:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	44.3	02:27:57	50.4	02:27:38	63.7	02:27:17
1112	2021-04-12	02:28:00	00:01:00.0	00:01:00.0	00:00:00.0	47.5	65.3	44.7	02:28:00	52.7	02:28:22	66.2	02:28:22
1113	2021-04-12	02:29:00	00:01:00.0	00:01:00.0	00:00:00.0	46.6	64.4	42.5	02:29:41	50.1	02:29:56	62.1	02:29:54
1114	2021-04-12	02:30:00	00:01:00.0	00:01:00.0	00:00:00.0	46.9	64.7	44.5	02:30:06	49.5	02:30:35	62.4	02:30:14
1115	2021-04-12	02:31:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	44.9	02:31:30	49.8	02:31:52	62.4	02:31:34
1116	2021-04-12	02:32:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.2	45.7	02:32:12	51.8	02:32:54	64.8	02:32:54
1117	2021-04-12	02:33:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	45.5	02:33:59	51.1	02:33:15	63.9	02:33:14
1118	2021-04-12	02:34:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.2	44.8	02:34:02	48.1	02:34:53	60.7	02:34:10
1119	2021-04-12	02:35:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.2	46.0	02:35:01	50.9	02:35:39	63.2	02:35:15
1120	2021-04-12	02:36:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.3	44.5	02:36:59	50.3	02:36:14	63.0	02:36:09
1121	2021-04-12	02:37:00	00:01:00.0	00:01:00.0	00:00:00.0	47.0	64.8	44.3	02:37:00	50.2	02:37:57	63.0	02:37:56
1122	2021-04-12	02:38:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	45.3	02:38:24	49.1	02:38:00	61.5	02:38:16
1123	2021-04-12	02:39:00	00:01:00.0	00:01:00.0	00:00:00.0	46.3	64.0	44.5	02:39:04	48.8	02:39:21	61.5	02:39:38
1124	2021-04-12	02:40:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	44.5	02:40:12	50.7	02:40:49	64.5	02:40:50
1125	2021-04-12	02:41:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	44.2	02:41:31	50.1	02:41:52	63.2	02:41:12
1126	2021-04-12	02:42:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	47.3	02:42:06	52.1	02:42:39	64.3	02:42:17
1127	2021-04-12	02:43:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	46.3	02:43:59	50.3	02:43:37	63.0	02:43:30
1128	2021-04-12	02:44:00	00:01:00.0	00:01:00.0	00:00:00.0	48.2	66.0	45.6	02:44:02	53.6	02:44:20	66.3	02:44:20
1129	2021-04-12	02:45:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.7	46.1	02:45:09	52.8	02:45:28	66.5	02:45:28
1130	2021-04-12	02:46:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	44.2	02:46:59	50.4	02:46:43	63.2	02:46:47
1131	2021-04-12	02:47:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.3	43.7	02:47:01	51.1	02:47:35	63.4	02:47:24
1132	2021-04-12	02:48:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	44.2	02:48:40	52.3	02:48:11	64.8	02:48:11
1133	2021-04-12	02:49:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	45.0	02:49:56	51.2	02:49:35	65.1	02:49:56
1134	2021-04-12	02:50:00	00:01:00.0	00:01:00.0	00:00:00.0	47.7	65.5	45.3	02:50:06	49.7	02:50:23	62.1	02:50:41
1135	2021-04-12	02:51:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.5	46.2	02:51:04	62.7	02:51:40	75.4	02:51:40
1136	2021-04-12	02:52:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.1	45.8	02:52:31	49.8	02:52:00	63.4	02:52:03
1137	2021-04-12	02:53:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	46.4	02:53:11	69.9	02:53:38	86.5	02:53:37
1138	2021-04-12	02:54:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.2	46.4	02:54:10	51.1	02:54:39	64.3	02:54:39
1139	2021-04-12	02:55:00	00:01:00.0	00:01:00.0	00:00:00.0	45.3	63.0	43.5	02:55:59	48.0	02:55:00	60.7	02:55:17
1140	2021-04-12	02:56:00	00:01:00.0	00:01:00.0	00:00:00.0	46.9	64.7	43.5	02:56:00	48.6	02:56:54	61.8	02:56:25
1141	2021-04-12	02:57:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.6	44.3	02:57:23	50.1	02:57:51	62.7	02:57:58
1142	2021-04-12	02:58:00	00:01:00.0	00:01:00.0	00:00:00.0	47.1	64.8	45.1	02:58:49	48.9	02:58:20	63.4	02:58:43
1143	2021-04-12	02:59:00	00:01:00.0	00:01:00.0	00:00:00.0	45.4	63.2	42.8	02:59:12	47.7	02:59:37	61.8	02:59:34
1144	2021-04-12	03:00:00	00:01:00.0	00:01:00.0	00:00:00.0	47.1	64.9	45.0	03:00:12	48.9	03:00:55	62.1	03:00:18
1145	2021-04-12	03:01:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.3	45.6	03:01:58	49.2	03:01:16	61.8	03:01:12
1146	2021-04-12	03:02:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	45.1	03:02:06	48.9	03:02:26	62.1	03:02:25
1147	2021-04-12	03:03:00	00:01:00.0	00:01:00.0	00:00:00.0	48.6	66.4	46.1	03:03:59	50.9	03:03:38	63.9	03:03:37
1148	2021-04-12	03:04:00	00:01:00.0	00:01:00.0	00:00:00.0	46.1	63.9	43.6	03:04:21	48.2	03:04:58	62.4	03:04:53
1149	2021-04-12	03:05:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	46.4	03:05:59	49.3	03:05:49	61.8	03:05:48
1150	2021-04-12	03:06:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	46.2	03:06:07	50.9	03:06:59	64.3	03:06:59
1151	2021-04-12	03:07:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	67.9	47.7	03:07:35	54.3	03:07:59	70.8	03:07:58
1152	2021-04-12	03:08:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	48.7	03:08:43	65.2	03:08:05	80.5	03:08:05
1153	2021-04-12	03:09:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	45.3	03:09:38	50.2	03:09:00	62.7	03:09:00
1154	2021-04-12	03:10:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	46.1	03:10:06	50.2	03:10:21	62.4	03:10:20
1155	2021-04-12	03:11:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	45.3	03:11:59	51.7	03:11:42	64.8	03:11:15
1156	2021-04-12	03:12:00	00:01:00.0	00:01:00.0	00:00:00.0	47.5	65.3	44.4	03:12:17	49.2	03:12:54	61.5	03:12:35
1157	2021-04-12	03:13:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.1	45.9	03:13:09	50.3	03:13:44	63.9	03:13:13
1158	2021-04-12	03:14:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.6	45.3	03:14:25	48.3	03:14:29	61.1	03:14:27
1159	2021-04-12	03:15:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	45.6	03:15:57	51.2	03:15:47	64.5	03:15:21
1160	2021-04-12	03:16:00	00:01:00.0	00:01:00.0	00:00:00.0	47.7	65.4	45.9	03:16:55	50.1	03:16:40	65.0	03:16:04
1161	2021-04-12	03:17:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	45.9	03:17:26	50.2	03:17:59	63.2	03:17:57
1162	2021-04-12	03:18:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	46.6	03:18:11	52.1	03:18:52	66.6	03:18:51
1163	2021-04-12	03:19:00	00:01:00.0	00:01:00.0	00:00:00.0	47.2	65.0	44.5	03:19:54	49.6	03:19:04	62.1	03:19:02
1164	2021-04-12	03:20:00	00:01:00.0	00:01:00.0	00:00:00.0	47.7	65.5	45.1	03:20:06	51.9	03:20:42	64.6	03:20:42
1165	2021-04-12	03:21:00	00:01:00.0	00:01:00.0	00:00:00.0	47.4	65.2	45.4	03:21:02	49.2	03:21:11	61.5	03:21:11
1166	2021-04-12	03:22:00	00:01:00.0	00:01:00.0	00:00:00.0	46.3	64.1	44.3	03:22:27	48.4	03:22:00	61.5	03:22:00
1167	2021-04-12	03:23:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.3	45.0	03:23:25	54.6	03:23:47	67.9	03:23:48

1168	2021-04-12	03:24:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.3	44.9	03:24:39	49.6	03:24:03	62.4	03:24:18
1169	2021-04-12	03:25:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.2	45.7	03:25:32	51.0	03:25:40	63.2	03:25:53
1170	2021-04-12	03:26:00	00:01:00.0	00:01:00.0	00:00:00.0	47.0	64.8	45.0	03:26:39	49.5	03:26:16	66.2	03:26:54
1171	2021-04-12	03:27:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	46.8	03:27:17	50.6	03:27:46	64.6	03:27:01
1172	2021-04-12	03:28:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.1	46.3	03:28:14	49.8	03:28:31	63.4	03:28:55
1173	2021-04-12	03:29:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	47.7	03:29:01	50.7	03:29:38	64.8	03:29:37
1174	2021-04-12	03:30:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.1	47.2	03:30:46	50.9	03:30:59	65.0	03:30:30
1175	2021-04-12	03:31:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	48.3	03:31:51	62.3	03:31:33	80.7	03:31:32
1176	2021-04-12	03:32:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	46.2	03:32:30	50.3	03:32:59	62.4	03:32:49
1177	2021-04-12	03:33:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	48.6	03:33:49	59.6	03:33:35	72.3	03:33:34
1178	2021-04-12	03:34:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.4	47.2	03:34:17	51.2	03:34:58	65.6	03:34:05
1179	2021-04-12	03:35:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	47.7	03:35:49	51.5	03:35:12	64.1	03:35:11
1180	2021-04-12	03:36:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	46.1	03:36:52	49.9	03:36:17	63.7	03:36:17
1181	2021-04-12	03:37:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	47.5	03:37:19	51.4	03:37:49	64.5	03:37:48
1182	2021-04-12	03:38:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	47.2	03:38:59	51.8	03:38:19	65.0	03:38:22
1183	2021-04-12	03:39:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.3	46.6	03:39:07	52.6	03:39:34	65.0	03:39:30
1184	2021-04-12	03:40:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.0	47.2	03:40:07	52.0	03:40:50	65.3	03:40:48
1185	2021-04-12	03:41:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.7	48.0	03:41:11	53.0	03:41:37	66.3	03:41:36
1186	2021-04-12	03:42:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.4	48.1	03:42:38	51.5	03:42:51	64.3	03:42:54
1187	2021-04-12	03:43:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	48.9	03:43:11	51.6	03:43:57	65.3	03:43:32
1188	2021-04-12	03:44:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.2	03:44:50	52.6	03:44:20	66.0	03:44:02
1189	2021-04-12	03:45:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.7	48.2	03:45:42	51.6	03:45:22	64.8	03:45:22
1190	2021-04-12	03:46:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	47.0	03:46:59	51.2	03:46:19	63.0	03:46:08
1191	2021-04-12	03:47:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.1	46.9	03:47:03	50.2	03:47:39	63.7	03:47:39
1192	2021-04-12	03:48:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.5	48.5	03:48:04	50.8	03:48:34	64.5	03:48:36
1193	2021-04-12	03:49:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	47.1	03:49:56	50.9	03:49:11	65.3	03:49:11
1194	2021-04-12	03:50:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	47.1	03:50:19	50.7	03:50:33	63.9	03:50:52
1195	2021-04-12	03:51:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	47.9	03:51:02	52.8	03:51:30	67.1	03:51:28
1196	2021-04-12	03:52:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	46.5	03:52:12	51.8	03:52:20	66.5	03:52:20
1197	2021-04-12	03:53:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	46.9	03:53:53	51.1	03:53:31	64.1	03:53:39
1198	2021-04-12	03:54:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	47.6	03:54:22	52.6	03:54:51	67.0	03:54:13
1199	2021-04-12	03:55:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	46.9	03:55:22	50.6	03:55:39	63.9	03:55:35
1200	2021-04-12	03:56:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	48.9	03:56:09	53.4	03:56:35	66.2	03:56:36
1201	2021-04-12	03:57:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.6	03:57:13	53.3	03:57:47	66.2	03:57:46
1202	2021-04-12	03:58:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	49.5	03:58:32	56.3	03:58:45	69.0	03:58:45
1203	2021-04-12	03:59:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.4	03:59:35	53.3	03:59:02	65.8	03:59:02
1204	2021-04-12	04:00:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.8	04:00:06	52.8	04:00:25	65.3	04:00:23
1205	2021-04-12	04:01:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	49.2	04:01:46	55.6	04:01:12	67.4	04:01:12
1206	2021-04-12	04:02:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.3	48.8	04:02:31	53.3	04:02:43	66.1	04:02:43
1207	2021-04-12	04:03:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.4	48.6	04:03:04	51.1	04:03:40	63.4	04:03:41
1208	2021-04-12	04:04:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	48.6	04:04:40	66.1	04:04:58	82.9	04:04:58
1209	2021-04-12	04:05:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	49.2	04:05:57	62.5	04:05:00	77.8	04:05:00
1210	2021-04-12	04:06:00	00:01:00.0	00:01:00.0	00:00:00.0	49.8	67.6	48.7	04:06:06	51.3	04:06:58	64.6	04:06:50
1211	2021-04-12	04:07:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.5	48.0	04:07:58	51.2	04:07:00	63.9	04:07:00
1212	2021-04-12	04:08:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.8	47.0	04:08:56	49.2	04:08:32	62.1	04:08:19
1213	2021-04-12	04:09:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	47.2	04:09:00	51.2	04:09:28	63.7	04:09:27
1214	2021-04-12	04:10:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	47.8	04:10:37	51.3	04:10:53	64.1	04:10:52
1215	2021-04-12	04:11:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.1	47.8	04:11:45	51.1	04:11:16	63.2	04:11:11
1216	2021-04-12	04:12:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	47.9	04:12:02	49.5	04:12:20	62.7	04:12:24
1217	2021-04-12	04:13:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	48.2	04:13:05	51.4	04:13:22	65.0	04:13:54
1218	2021-04-12	04:14:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	47.1	04:14:30	50.1	04:14:12	63.9	04:14:55
1219	2021-04-12	04:15:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.6	46.5	04:15:23	49.0	04:15:00	62.7	04:15:01
1220	2021-04-12	04:16:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	47.0	04:16:09	49.4	04:16:59	61.8	04:16:57
1221	2021-04-12	04:17:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.4	48.2	04:17:59	52.1	04:17:44	64.8	04:17:43
1222	2021-04-12	04:18:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	47.9	04:18:49	50.8	04:18:12	63.7	04:18:58
1223	2021-04-12	04:19:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	48.9	04:19:26	65.8	04:19:54	80.0	04:19:54
1224	2021-04-12	04:20:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.7	47.9	04:20:59	52.6	04:20:00	63.0	04:20:21
1225	2021-04-12	04:21:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	46.8	04:21:03	51.1	04:21:43	63.7	04:21:41
1226	2021-04-12	04:22:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.8	49.0	04:22:45	51.6	04:22:19	65.1	04:22:15
1227	2021-04-12	04:23:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.6	47.6	04:23:50	49.9	04:23:00	62.7	04:23:44
1228	2021-04-12	04:24:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.1	47.4	04:24:56	49.1	04:24:36	62.1	04:24:45
1229	2021-04-12	04:25:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.0	47.0	04:25:33	49.2	04:25:13	61.8	04:25:01
1230	2021-04-12	04:26:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	47.2	04:26:52	48.8	04:26:11	61.5	04:26:09
1231	2021-04-12	04:27:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	46.9	04:27:12	49.6	04:27:46	62.4	04:27:21
1232	2021-04-12	04:28:00	00:01:00.0	00:01:00.0	00:00:00.0	47.4	65.2	45.8	04:28:35	48.7	04:28:03	61.8	04:28:05
1233	2021-04-12	04:29:00	00:01:00.0	00:01:00.0	00:00:00.0	47.5	65.3	46.5	04:29:19	48.1	04:29:23	61.1	04:29:06
1234	2021-04-12	04:30:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	46.9	04:30:02	65.4	04:30:29	80.9	04:30:28
1235	2021-04-12	04:31:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.3	45.6	04:31:10	57.3	04:31:25	72.7	04:31:24
1236	2021-04-12	04:32:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	48.5	04:32:00	65.5	04:32:27	79.9	04:32:27
1237	2021-04-12	04:33:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	47.1	04:33:44	51.5	04:33:13	64.5	04:33:03
1238	2021-04-12	04:34:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	48.2	04:34:17	51.9	04:34:59	65.1	04:34:59
1239	2021-04-12	04:35:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	49.1	04:35:35	67.1	04:35:10	79.7	04:35:09
1240	2021-04-12	04:36:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	48.5	04:36:17	56.5	04:36:08	68.8	04:36:08

1241	2021-04-12	04:37:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.0	04:37:07	52.9	04:37:51	66.0	04:37:51
1242	2021-04-12	04:38:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	51.0	04:38:17	53.1	04:38:06	65.8	04:38:06
1243	2021-04-12	04:39:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	50.4	04:39:14	66.9	04:39:40	81.1	04:39:40
1244	2021-04-12	04:40:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	50.5	04:40:01	52.7	04:40:58	65.8	04:40:32
1245	2021-04-12	04:41:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	51.0	04:41:43	53.6	04:41:58	66.3	04:41:49
1246	2021-04-12	04:42:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	50.3	04:42:53	54.5	04:42:22	68.2	04:42:21
1247	2021-04-12	04:43:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	48.9	04:43:40	51.0	04:43:28	64.8	04:43:26
1248	2021-04-12	04:44:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	49.1	04:44:00	50.9	04:44:53	64.3	04:44:59
1249	2021-04-12	04:45:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.7	49.9	04:45:58	53.8	04:45:41	65.7	04:45:19
1250	2021-04-12	04:46:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.0	50.0	04:46:00	52.8	04:46:45	66.0	04:46:22
1251	2021-04-12	04:47:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	50.8	04:47:55	52.6	04:47:47	65.7	04:47:39
1252	2021-04-12	04:48:00	00:01:00.0	00:01:00.0	00:00:00.0	60.5	78.3	50.8	04:48:46	71.3	04:48:23	84.7	04:48:23
1253	2021-04-12	04:49:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	51.0	04:49:41	53.0	04:49:03	65.7	04:49:02
1254	2021-04-12	04:50:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	51.8	04:50:04	57.0	04:50:18	69.9	04:50:25
1255	2021-04-12	04:51:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.3	50.6	04:51:28	52.8	04:51:03	65.1	04:51:03
1256	2021-04-12	04:52:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	50.3	04:52:30	52.9	04:52:47	65.1	04:52:45
1257	2021-04-12	04:53:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	49.9	04:53:38	53.2	04:53:57	65.3	04:53:56
1258	2021-04-12	04:54:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.6	49.5	04:54:34	67.9	04:54:16	81.8	04:54:16
1259	2021-04-12	04:55:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	51.2	04:55:07	56.4	04:55:09	70.7	04:55:09
1260	2021-04-12	04:56:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	51.1	04:56:47	62.6	04:56:39	80.3	04:56:38
1261	2021-04-12	04:57:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	51.7	04:57:03	56.7	04:57:54	70.1	04:57:54
1262	2021-04-12	04:58:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.5	52.5	04:58:41	56.5	04:58:04	69.1	04:58:04
1263	2021-04-12	04:59:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	49.6	04:59:39	55.9	04:59:34	74.8	04:59:46
1264	2021-04-12	05:00:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.4	05:00:06	55.3	05:00:41	70.9	05:00:13
1265	2021-04-12	05:01:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	50.7	05:01:30	55.0	05:01:22	70.4	05:01:21
1266	2021-04-12	05:02:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.4	05:02:10	55.2	05:02:02	70.7	05:02:01
1267	2021-04-12	05:03:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	51.4	05:03:49	60.8	05:03:06	77.2	05:03:06
1268	2021-04-12	05:04:00	00:01:00.0	00:01:00.0	00:00:00.0	60.9	78.7	50.1	05:04:49	73.8	05:04:26	90.1	05:04:26
1269	2021-04-12	05:05:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.8	05:05:04	53.7	05:05:25	66.1	05:05:25
1270	2021-04-12	05:06:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.2	05:06:39	54.3	05:06:10	68.6	05:06:10
1271	2021-04-12	05:07:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.9	05:07:21	51.6	05:07:47	64.8	05:07:58
1272	2021-04-12	05:08:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	50.5	05:08:12	51.9	05:08:30	65.0	05:08:19
1273	2021-04-12	05:09:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.5	50.6	05:09:17	52.7	05:09:46	67.7	05:09:21
1274	2021-04-12	05:10:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	50.8	05:10:56	54.3	05:10:14	70.3	05:10:03
1275	2021-04-12	05:11:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	50.1	05:11:24	52.0	05:11:47	65.8	05:11:48
1276	2021-04-12	05:12:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.2	50.8	05:12:56	65.9	05:12:40	84.8	05:12:40
1277	2021-04-12	05:13:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	50.7	05:13:37	52.7	05:13:52	65.7	05:13:28
1278	2021-04-12	05:14:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	50.4	05:14:16	56.2	05:14:36	68.9	05:14:39
1279	2021-04-12	05:15:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.5	51.8	05:15:52	54.3	05:15:11	68.5	05:15:11
1280	2021-04-12	05:16:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	50.4	05:16:59	53.3	05:16:02	68.7	05:16:01
1281	2021-04-12	05:17:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.5	05:17:34	51.9	05:17:49	65.3	05:17:02
1282	2021-04-12	05:18:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.0	05:18:43	54.9	05:18:26	71.6	05:18:58
1283	2021-04-12	05:19:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	50.1	05:19:31	53.2	05:19:00	71.6	05:19:00
1284	2021-04-12	05:20:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	51.8	05:20:58	54.6	05:20:31	67.0	05:20:31
1285	2021-04-12	05:21:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	52.1	05:21:11	54.0	05:21:01	67.0	05:21:07
1286	2021-04-12	05:22:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	52.1	05:22:59	67.0	05:22:36	91.1	05:22:36
1287	2021-04-12	05:23:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	51.9	05:23:01	56.5	05:23:45	69.5	05:23:45
1288	2021-04-12	05:24:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	52.4	05:24:59	54.9	05:24:00	67.7	05:24:03
1289	2021-04-12	05:25:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	50.5	05:25:56	53.3	05:25:17	67.3	05:25:27
1290	2021-04-12	05:26:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	50.6	05:26:10	53.5	05:26:34	66.0	05:26:34
1291	2021-04-12	05:27:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	50.8	05:27:03	56.0	05:27:39	69.5	05:27:34
1292	2021-04-12	05:28:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	50.8	05:28:28	55.2	05:28:42	69.6	05:28:41
1293	2021-04-12	05:29:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.1	49.8	05:29:59	64.6	05:29:08	82.4	05:29:08
1294	2021-04-12	05:30:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.0	48.6	05:30:40	53.4	05:30:59	68.4	05:30:59
1295	2021-04-12	05:31:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	48.5	05:31:53	65.1	05:31:04	84.1	05:31:03
1296	2021-04-12	05:32:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.5	49.0	05:32:56	53.5	05:32:49	68.3	05:32:50
1297	2021-04-12	05:33:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	48.3	05:33:04	51.0	05:33:54	69.5	05:33:53
1298	2021-04-12	05:34:00	00:01:00.0	00:01:00.0	00:00:00.0	62.2	79.9	48.5	05:34:03	73.7	05:34:27	86.7	05:34:27
1299	2021-04-12	05:35:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	49.3	05:35:48	61.4	05:35:00	73.3	05:35:00
1300	2021-04-12	05:36:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	50.0	05:36:02	55.7	05:36:57	73.3	05:36:57
1301	2021-04-12	05:37:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.6	50.0	05:37:48	56.8	05:37:43	73.3	05:37:06
1302	2021-04-12	05:38:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.1	49.4	05:38:55	59.2	05:38:07	74.2	05:38:07
1303	2021-04-12	05:39:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	50.3	05:39:20	58.4	05:39:58	75.0	05:39:56
1304	2021-04-12	05:40:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.1	51.0	05:40:10	59.5	05:40:38	74.9	05:40:37
1305	2021-04-12	05:41:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.1	05:41:40	56.2	05:41:00	71.6	05:41:00
1306	2021-04-12	05:42:00	00:01:00.0	00:01:00.0	00:00:00.0	57.6	75.4	50.4	05:42:47	67.6	05:42:06	83.1	05:42:05
1307	2021-04-12	05:43:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.8	05:43:04	55.4	05:43:22	72.3	05:43:22
1308	2021-04-12	05:44:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	50.6	05:44:55	60.5	05:44:12	75.3	05:44:12
1309	2021-04-12	05:45:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	50.3	05:45:13	53.8	05:45:52	74.1	05:45:50
1310	2021-04-12	05:46:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	50.0	05:46:21	54.0	05:46:40	70.7	05:46:39
1311	2021-04-12	05:47:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	50.4	05:47:34	51.8	05:47:46	65.1	05:47:59
1312	2021-04-12	05:48:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.9	05:48:57	52.0	05:48:02	66.6	05:48:01
1313	2021-04-12	05:49:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.2	05:49:54	56.2	05:49:09	72.9	05:49:07

1314	2021-04-12	05:50:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	48.6	05:50:46	50.5	05:50:09	63.9	05:50:09
1315	2021-04-12	05:51:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	49.6	05:51:37	52.9	05:51:05	68.5	05:51:04
1316	2021-04-12	05:52:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.4	49.1	05:52:13	60.2	05:52:51	79.5	05:52:51
1317	2021-04-12	05:53:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.6	05:53:15	53.1	05:53:59	70.8	05:53:59
1318	2021-04-12	05:54:00	00:01:00.0	00:01:00.0	00:00:00.0	58.1	75.9	49.3	05:54:58	70.0	05:54:38	87.0	05:54:36
1319	2021-04-12	05:55:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	48.4	05:55:42	55.3	05:55:59	68.8	05:55:59
1320	2021-04-12	05:56:00	00:01:00.0	00:01:00.0	00:00:00.0	59.2	77.0	49.3	05:56:38	71.1	05:56:05	87.4	05:56:04
1321	2021-04-12	05:57:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.2	48.4	05:57:39	60.0	05:57:20	76.2	05:57:19
1322	2021-04-12	05:58:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.4	48.7	05:58:08	57.9	05:58:02	74.7	05:58:01
1323	2021-04-12	05:59:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	48.3	05:59:59	57.9	05:59:21	72.6	05:59:21
1324	2021-04-12	06:00:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	47.8	06:00:30	66.9	06:00:10	84.1	06:00:10
1325	2021-04-12	06:01:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	47.7	06:01:44	54.9	06:01:11	71.2	06:01:10
1326	2021-04-12	06:02:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	47.7	06:02:47	51.1	06:02:57	69.5	06:02:14
1327	2021-04-12	06:03:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	47.9	06:03:51	69.8	06:03:41	89.9	06:03:40
1328	2021-04-12	06:04:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	47.9	06:04:33	51.1	06:04:41	70.0	06:04:09
1329	2021-04-12	06:05:00	00:01:00.0	00:01:00.0	00:00:00.0	48.6	66.3	46.9	06:05:05	51.2	06:05:32	64.1	06:05:32
1330	2021-04-12	06:06:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	47.7	06:06:00	60.4	06:06:52	75.6	06:06:49
1331	2021-04-12	06:07:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.5	49.4	06:07:58	68.0	06:07:28	82.2	06:07:28
1332	2021-04-12	06:08:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	48.8	06:08:49	53.2	06:08:36	78.2	06:08:36
1333	2021-04-12	06:09:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	49.2	06:09:43	52.3	06:09:50	71.2	06:09:01
1334	2021-04-12	06:10:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	48.4	06:10:17	59.2	06:10:38	83.9	06:10:37
1335	2021-04-12	06:11:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	49.1	06:11:28	65.2	06:11:37	81.2	06:11:36
1336	2021-04-12	06:12:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	48.5	06:12:15	52.5	06:12:40	73.0	06:12:39
1337	2021-04-12	06:13:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	48.3	06:13:57	52.4	06:13:04	77.3	06:13:31
1338	2021-04-12	06:14:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	47.5	06:14:30	50.6	06:14:09	71.3	06:14:42
1339	2021-04-12	06:15:00	00:01:00.0	00:01:00.0	00:00:00.0	55.3	73.1	48.6	06:15:06	65.7	06:15:06	94.5	06:15:06
1340	2021-04-12	06:16:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	49.1	06:16:59	63.6	06:16:03	87.3	06:16:03
1341	2021-04-12	06:17:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	48.6	06:17:03	55.2	06:17:45	72.9	06:17:44
1342	2021-04-12	06:18:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	48.6	06:18:31	59.6	06:18:18	89.5	06:18:13
1343	2021-04-12	06:19:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	48.7	06:19:22	56.1	06:19:43	80.5	06:19:42
1344	2021-04-12	06:20:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	49.2	06:20:56	63.9	06:20:41	84.5	06:20:16
1345	2021-04-12	06:21:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	48.4	06:21:49	52.9	06:21:59	75.4	06:21:02
1346	2021-04-12	06:22:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	49.1	06:22:33	64.1	06:22:03	83.4	06:22:03
1347	2021-04-12	06:23:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	47.7	06:23:57	51.7	06:23:18	72.3	06:23:17
1348	2021-04-12	06:24:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	47.9	06:24:00	51.0	06:24:34	66.1	06:24:27
1349	2021-04-12	06:25:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.4	06:25:14	53.0	06:25:54	71.9	06:25:22
1350	2021-04-12	06:26:00	00:01:00.0	00:01:00.0	00:00:00.0	62.3	80.1	50.3	06:26:59	72.9	06:26:25	90.7	06:26:25
1351	2021-04-12	06:27:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	49.9	06:27:48	57.8	06:27:38	74.2	06:27:37
1352	2021-04-12	06:28:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	49.5	06:28:28	66.2	06:28:02	82.7	06:28:02
1353	2021-04-12	06:29:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	48.5	06:29:28	62.6	06:29:03	77.8	06:29:13
1354	2021-04-12	06:30:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.2	47.9	06:30:52	49.2	06:30:30	65.3	06:30:30
1355	2021-04-12	06:31:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	48.2	06:31:18	68.9	06:31:36	85.0	06:31:35
1356	2021-04-12	06:32:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	48.5	06:32:36	58.0	06:32:10	79.8	06:32:10
1357	2021-04-12	06:33:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	46.8	06:33:59	61.7	06:33:15	77.7	06:33:15
1358	2021-04-12	06:34:00	00:01:00.0	00:01:00.0	00:00:00.0	47.7	65.4	46.6	06:34:01	48.7	06:34:53	61.5	06:34:44
1359	2021-04-12	06:35:00	00:01:00.0	00:01:00.0	00:00:00.0	47.4	65.2	46.2	06:35:13	48.4	06:35:22	64.1	06:35:37
1360	2021-04-12	06:36:00	00:01:00.0	00:01:00.0	00:00:00.0	48.6	66.4	47.2	06:36:06	56.8	06:36:17	82.0	06:36:16
1361	2021-04-12	06:37:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.2	47.0	06:37:32	54.4	06:37:59	73.1	06:37:59
1362	2021-04-12	06:38:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	47.7	06:38:28	64.9	06:38:03	82.1	06:38:02
1363	2021-04-12	06:39:00	00:01:00.0	00:01:00.0	00:00:00.0	48.2	66.0	47.0	06:39:40	54.0	06:39:00	68.4	06:39:03
1364	2021-04-12	06:40:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	47.2	06:40:05	66.7	06:40:45	82.1	06:40:45
1365	2021-04-12	06:41:00	00:01:00.0	00:01:00.0	00:00:00.0	59.4	77.2	47.5	06:41:39	72.0	06:41:12	85.9	06:41:12
1366	2021-04-12	06:42:00	00:01:00.0	00:01:00.0	00:00:00.0	66.2	84.0	48.3	06:42:00	73.9	06:42:49	87.9	06:42:47
1367	2021-04-12	06:43:00	00:01:00.0	00:01:00.0	00:00:00.0	61.7	79.4	52.1	06:43:10	70.5	06:43:35	90.2	06:43:34
1368	2021-04-12	06:44:00	00:01:00.0	00:01:00.0	00:00:00.0	63.0	80.8	59.4	06:44:21	66.7	06:44:08	82.1	06:44:50
1369	2021-04-12	06:45:00	00:01:00.0	00:01:00.0	00:00:00.0	61.1	78.9	52.8	06:45:44	66.9	06:45:20	82.7	06:45:19
1370	2021-04-12	06:46:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	50.8	06:46:27	66.2	06:46:14	83.0	06:46:14
1371	2021-04-12	06:47:00	00:01:00.0	00:01:00.0	00:00:00.0	66.5	84.2	50.6	06:47:36	80.7	06:47:59	93.9	06:47:59
1372	2021-04-12	06:48:00	00:01:00.0	00:01:00.0	00:00:00.0	61.2	79.0	53.0	06:48:10	80.2	06:48:00	93.9	06:48:00
1373	2021-04-12	06:49:00	00:01:00.0	00:01:00.0	00:00:00.0	65.9	83.7	62.3	06:49:37	69.2	06:49:52	89.4	06:49:00
1374	2021-04-12	06:50:00	00:01:00.0	00:01:00.0	00:00:00.0	66.1	83.8	60.9	06:50:07	70.8	06:50:38	88.9	06:50:35
1375	2021-04-12	06:51:00	00:01:00.0	00:01:00.0	00:00:00.0	66.8	84.6	62.3	06:51:00	71.4	06:51:31	91.5	06:51:31
1376	2021-04-12	06:52:00	00:01:00.0	00:01:00.0	00:00:00.0	68.0	85.8	63.2	06:52:53	70.8	06:52:28	91.9	06:52:22
1377	2021-04-12	06:53:00	00:01:00.0	00:01:00.0	00:00:00.0	64.2	82.0	59.3	06:53:21	66.7	06:53:59	86.2	06:53:59
1378	2021-04-12	06:54:00	00:01:00.0	00:01:00.0	00:00:00.0	66.0	83.8	58.6	06:54:25	71.6	06:54:49	93.5	06:54:48
1379	2021-04-12	06:55:00	00:01:00.0	00:01:00.0	00:00:00.0	64.1	81.9	58.2	06:55:59	67.2	06:55:00	86.8	06:55:13
1380	2021-04-12	06:56:00	00:01:00.0	00:01:00.0	00:00:00.0	62.5	80.2	57.7	06:56:01	66.7	06:56:38	87.2	06:56:38
1381	2021-04-12	06:57:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	51.1	06:57:29	67.7	06:57:10	87.2	06:57:08
1382	2021-04-12	06:58:00	00:01:00.0	00:01:00.0	00:00:00.0	59.8	77.6	52.0	06:58:50	65.4	06:58:25	79.7	06:58:23
1383	2021-04-12	06:59:00	00:01:00.0	00:01:00.0	00:00:00.0	59.2	76.9	50.9	06:59:09	68.1	06:59:28	84.0	06:59:37
1384	2021-04-12	07:00:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	48.3	07:00:35	65.4	07:00:09	79.8	07:00:08
1385	2021-04-12	07:01:00	00:01:00.0	00:01:00.0	00:00:00.0	60.6	78.4	51.8	07:01:11	65.0	07:01:33	80.3	07:01:32
1386	2021-04-12	07:02:00	00:01:00.0	00:01:00.0	00:00:00.0	59.8	77.6	47.9	07:02:59	72.2	07:02:34	86.6	07:02:34

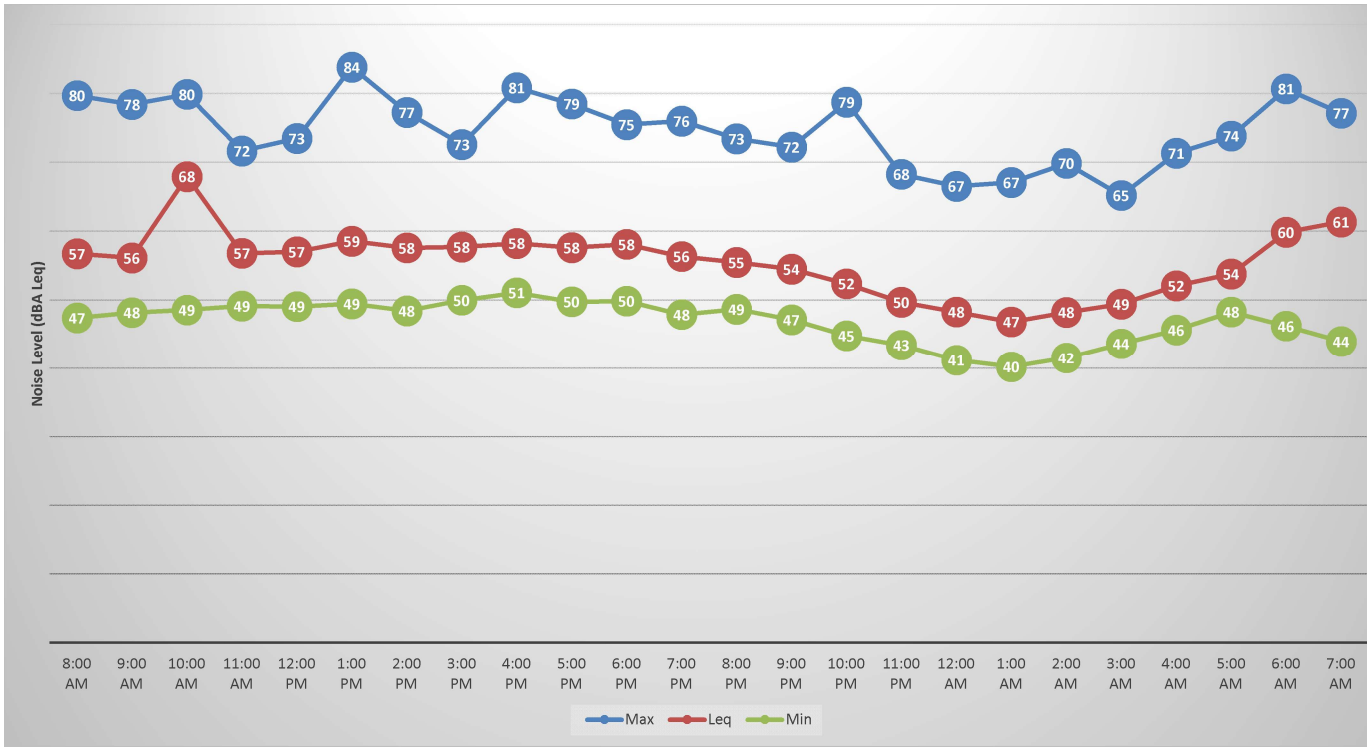
1387	2021-04-12	07:03:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	47.7	07:03:44	51.5	07:03:24	66.6	07:03:52
1388	2021-04-12	07:04:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.3	49.6	07:04:00	63.8	07:04:59	78.7	07:04:58
1389	2021-04-12	07:05:00	00:01:00.0	00:01:00.0	00:00:00.0	62.7	80.5	47.4	07:05:57	69.3	07:05:10	83.9	07:05:09
1390	2021-04-12	07:06:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	46.5	07:06:13	62.2	07:06:26	73.3	07:06:26
1391	2021-04-12	07:07:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	46.5	07:07:14	65.5	07:07:59	81.8	07:07:59
1392	2021-04-12	07:08:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.5	47.1	07:08:20	69.5	07:08:06	84.1	07:08:06
1393	2021-04-12	07:09:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	49.4	07:09:02	60.1	07:09:27	78.4	07:09:27
1394	2021-04-12	07:10:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	48.3	07:10:20	67.3	07:10:47	84.8	07:10:47
1395	2021-04-12	07:11:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.6	48.0	07:11:43	68.0	07:11:46	80.0	07:11:45
1396	2021-04-12	07:12:00	00:01:00.0	00:01:00.0	00:00:00.0	59.3	77.1	48.5	07:12:00	71.1	07:12:50	84.8	07:12:49
1397	2021-04-12	07:13:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.1	47.3	07:13:20	50.5	07:13:00	66.9	07:13:06
1398	2021-04-12	07:14:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.4	48.0	07:14:44	53.8	07:14:59	68.7	07:14:12
1399	2021-04-12	07:15:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	50.5	07:15:12	65.1	07:15:03	84.2	07:15:03
1400	2021-04-12	07:16:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	49.3	07:16:46	62.9	07:16:01	76.2	07:16:00
1401	2021-04-12	07:17:00	00:01:00.0	00:01:00.0	00:00:00.0	62.8	80.6	47.8	07:17:28	75.7	07:17:53	88.0	07:17:53
1402	2021-04-12	07:18:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	48.8	07:18:07	56.9	07:18:48	70.3	07:18:57
1403	2021-04-12	07:19:00	00:01:00.0	00:01:00.0	00:00:00.0	69.8	87.6	55.5	07:19:00	75.0	07:19:41	95.0	07:19:16
1404	2021-04-12	07:20:00	00:01:00.0	00:01:00.0	00:00:00.0	71.4	89.2	67.7	07:20:59	74.9	07:20:51	93.9	07:20:30
1405	2021-04-12	07:21:00	00:01:00.0	00:01:00.0	00:00:00.0	69.3	87.1	65.0	07:21:31	72.9	07:21:14	90.1	07:21:03
1406	2021-04-12	07:22:00	00:01:00.0	00:01:00.0	00:00:00.0	66.2	84.0	62.6	07:22:28	69.9	07:22:06	84.8	07:22:08
1407	2021-04-12	07:23:00	00:01:00.0	00:01:00.0	00:00:00.0	66.5	84.3	61.2	07:23:45	70.6	07:23:20	86.8	07:23:11
1408	2021-04-12	07:24:00	00:01:00.0	00:01:00.0	00:00:00.0	69.7	87.5	63.6	07:24:25	73.8	07:24:45	89.8	07:24:58
1409	2021-04-12	07:25:00	00:01:00.0	00:01:00.0	00:00:00.0	68.6	86.4	62.0	07:25:44	73.7	07:25:25	89.2	07:25:00
1410	2021-04-12	07:26:00	00:01:00.0	00:01:00.0	00:00:00.0	59.9	77.7	48.6	07:26:53	67.3	07:26:40	94.1	07:26:37
1411	2021-04-12	07:27:00	00:01:00.0	00:01:00.0	00:00:00.0	59.0	76.8	49.2	07:27:32	69.8	07:27:21	83.1	07:27:20
1412	2021-04-12	07:28:00	00:01:00.0	00:01:00.0	00:00:00.0	59.8	77.6	52.8	07:28:04	63.3	07:28:35	78.8	07:28:24
1413	2021-04-12	07:29:00	00:01:00.0	00:01:00.0	00:00:00.0	59.2	77.0	48.5	07:29:41	71.2	07:29:55	92.4	07:29:55
1414	2021-04-12	07:30:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	46.0	07:30:56	58.0	07:30:00	72.3	07:30:13
1415	2021-04-12	07:31:00	00:01:00.0	00:01:00.0	00:00:00.0	55.3	73.1	45.1	07:31:27	68.0	07:31:45	82.1	07:31:45
1416	2021-04-12	07:32:00	00:01:00.0	00:01:00.0	00:00:00.0	45.3	63.1	44.3	07:32:38	47.0	07:32:55	62.7	07:32:58
1417	2021-04-12	07:33:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	45.4	07:33:10	62.4	07:33:45	77.6	07:33:45
1418	2021-04-12	07:34:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	45.1	07:34:35	66.6	07:34:08	83.7	07:34:08
1419	2021-04-12	07:35:00	00:01:00.0	00:01:00.0	00:00:00.0	64.8	82.6	44.6	07:35:40	77.1	07:35:06	97.1	07:35:05
1420	2021-04-12	07:36:00	00:01:00.0	00:01:00.0	00:00:00.0	61.1	78.9	45.7	07:36:56	74.2	07:36:25	87.7	07:36:25
1421	2021-04-12	07:37:00	00:01:00.0	00:01:00.0	00:00:00.0	46.3	64.1	45.2	07:37:32	50.4	07:37:18	67.5	07:37:16
1422	2021-04-12	07:38:00	00:01:00.0	00:01:00.0	00:00:00.0	48.6	66.3	44.4	07:38:47	59.9	07:38:39	72.6	07:38:23
1423	2021-04-12	07:39:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	69.9	44.6	07:39:44	61.9	07:39:16	78.1	07:39:15
1424	2021-04-12	07:40:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	44.0	07:40:24	57.1	07:40:54	77.1	07:40:42
1425	2021-04-12	07:41:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	46.3	07:41:08	58.8	07:41:43	71.6	07:41:43
1426	2021-04-12	07:42:00	00:01:00.0	00:01:00.0	00:00:00.0	47.2	64.9	44.3	07:42:45	53.3	07:42:02	65.8	07:42:01
1427	2021-04-12	07:43:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	44.4	07:43:07	63.5	07:43:32	77.0	07:43:31
1428	2021-04-12	07:44:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.4	44.8	07:44:34	61.8	07:44:55	81.5	07:44:54
1429	2021-04-12	07:45:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.3	45.9	07:45:25	52.7	07:45:00	66.3	07:45:21
1430	2021-04-12	07:46:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.3	46.5	07:46:27	53.8	07:46:06	72.1	07:46:06
1431	2021-04-12	07:47:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	46.1	07:47:48	49.5	07:47:30	65.1	07:47:12
1432	2021-04-12	07:48:00	00:01:00.0	00:01:00.0	00:00:00.0	47.5	65.3	45.7	07:48:14	52.3	07:48:30	70.8	07:48:30
1433	2021-04-12	07:49:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	47.6	07:49:25	53.3	07:49:08	66.7	07:49:07
1434	2021-04-12	07:50:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	47.3	07:50:47	69.3	07:50:09	92.8	07:50:08
1435	2021-04-12	07:51:00	00:01:00.0	00:01:00.0	00:00:00.0	61.0	78.7	47.1	07:51:59	73.3	07:51:34	89.8	07:51:34
1436	2021-04-12	07:52:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	46.6	07:52:03	68.9	07:52:26	84.8	07:52:24
1437	2021-04-12	07:53:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.3	47.1	07:53:23	51.8	07:53:46	69.0	07:53:51
1438	2021-04-12	07:54:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.3	46.7	07:54:59	68.1	07:54:09	84.7	07:54:10
1439	2021-04-12	07:55:00	00:01:00.0	00:01:00.0	00:00:00.0	47.4	65.2	46.6	07:55:02	49.0	07:55:36	63.2	07:55:36
1440	2021-04-12	07:56:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.8	46.9	07:56:00	66.0	07:56:19	82.7	07:56:19
1441	2021-04-12	07:57:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	47.0	07:57:43	50.1	07:57:11	63.7	07:57:58
1442	2021-04-12	07:58:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.1	47.0	07:58:41	52.2	07:58:22	75.7	07:58:22
1443	2021-04-12	07:59:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	46.9	07:59:26	50.6	07:59:45	68.1	07:59:49
1444	2021-04-12	08:00:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	47.8	08:00:56	51.8	08:00:04	77.4	08:00:04
1445	2021-04-12	08:01:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.2	47.1	08:01:29	51.4	08:01:59	64.3	08:01:59
1446	2021-04-12	08:02:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.4	49.8	08:02:53	60.9	08:02:32	74.2	08:02:31
1447	2021-04-12	08:03:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	47.8	08:03:49	62.4	08:03:59	77.2	08:03:59
1448	2021-04-12	08:04:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	46.8	08:04:23	63.1	08:04:00	77.2	08:04:00
1449	2021-04-12	08:05:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	47.3	08:05:30	50.9	08:05:07	72.2	08:05:41
1450	2021-04-12	08:06:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.6	48.1	08:06:06	63.0	08:06:18	76.2	08:06:18
1451	2021-04-12	08:07:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	48.3	08:07:23	52.5	08:07:53	77.4	08:07:48
1452	2021-04-12	08:08:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.5	49.4	08:08:01	69.4	08:08:57	83.3	08:08:56
1453	2021-04-12	08:09:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	49.7	08:09:46	64.0	08:09:00	73.4	08:09:00
1454	2021-04-12	08:10:00	00:01:00.0	00:01:00.0	00:00:00.0	58.9	76.7	49.5	08:10:32	70.0	08:10:07	84.1	08:10:07
1455	2021-04-12	08:11:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	48.9	08:11:53	55.8	08:11:54	75.4	08:11:03
1456	2021-04-12	08:12:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.4	08:12:34	53.6	08:12:59	70.2	08:12:45
1457	2021-04-12	08:13:00	00:01:00.0	00:01:00.0	00:00:00.0	58.9	76.7	49.2	08:13:51	69.5	08:13:08	86.0	08:13:05
1458	2021-04-12	08:14:00	00:01:00.0	00:01:00.0	00:00:00.0	59.6	77.4	49.0	08:14:08	70.2	08:14:22	89.0	08:14:26
1459	2021-04-12	08:15:00	00:01:00.0	00:01:00.0	00:00:00.0	59.6	77.4	49.5	08:15:51	72.7	08:15:15	88.5	08:15:15

1460	2021-04-12	08:16:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	50.3	08:16:42	62.6	08:16:23	79.0	08:16:23
1461	2021-04-12	08:17:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.1	08:17:47	56.8	08:17:51	75.9	08:17:51
1462	2021-04-12	08:18:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	49.8	08:18:53	51.3	08:18:25	64.3	08:18:02
1463	2021-04-12	08:19:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	49.9	08:19:53	64.7	08:19:12	78.9	08:19:11
1464	2021-04-12	08:20:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.2	08:20:21	55.5	08:20:13	75.4	08:20:27
1465	2021-04-12	08:21:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	49.9	08:21:12	59.2	08:21:28	76.9	08:21:28
1466	2021-04-12	08:22:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	51.3	08:22:59	68.9	08:22:28	94.8	08:22:32
1467	2021-04-12	08:23:00	00:01:00.0	00:01:00.0	00:00:00.0	66.2	84.0	50.3	08:23:12	80.3	08:23:42	108.4	08:23:42
1468	2021-04-12	08:24:00	00:00:34.7	00:00:34.7	00:00:00.0	71.4	86.8	50.8	08:24:20	84.4	08:24:32	114.8	08:24:32

Hour	Max	Leq	Min	Peak
8:00 AM	80	57	47	103
9:00 AM	78	56	48	103
10:00 AM	80	68	49	95
11:00 AM	72	57	49	96
12:00 PM	73	57	49	96
1:00 PM	84	59	49	95
2:00 PM	77	58	48	93
3:00 PM	73	58	50	98
4:00 PM	81	58	51	98
5:00 PM	79	58	50	96
6:00 PM	75	58	50	92
7:00 PM	76	56	48	92
8:00 PM	73	55	49	90
9:00 PM	72	54	47	92
10:00 PM	79	52	45	94
11:00 PM	68	50	43	82
12:00 AM	67	48	41	83
1:00 AM	67	47	40	85
2:00 AM	70	48	42	86
3:00 AM	65	49	44	81
4:00 AM	71	52	46	85
5:00 AM	74	54	48	91
6:00 AM	81	60	46	94
7:00 AM	77	61	44	97
Max	84	68	51	103
Min	65	47	40	81

	Max	Leq	Min	Peak
12:00 AM	67	48	41	83
1:00 AM	67	47	40	85
2:00 AM	70	48	42	86
3:00 AM	65	49	44	81
4:00 AM	71	52	46	85
5:00 AM	74	54	48	91
6:00 AM	81	60	46	94
7:00 AM	77	61	44	97
8:00 AM	80	57	47	103
9:00 AM	78	56	48	103
10:00 AM	80	68	49	95
11:00 AM	72	57	49	96
12:00 PM	73	57	49	96
1:00 PM	84	59	49	95
2:00 PM	77	58	48	93
3:00 PM	73	58	50	98
4:00 PM	81	58	51	98
5:00 PM	79	58	50	96
6:00 PM	75	58	50	92
7:00 PM	76	56	48	92
8:00 PM	73	55	49	90
9:00 PM	72	54	47	92
10:00 PM	79	52	45	94
11:00 PM	68	50	43	82

Garfield Avenue



Summary

File Name on Meter	831_Data.549.s
File Name on PC	831_0001742-20210411 091722-831_Data.549.ldbin
Serial Number	0001742
Model	Model 831
Firmware Version	2.300
User	
Location	
Job Description	
Note	

Measurement

Description	
Start	2021-04-11 09:17:22
Stop	2021-04-12 09:31:20
Duration	24:13:58.398
Run Time	24:13:58.398
Pause	00:00:00.0
Pre-Calibration	2021-04-11 09:13:08
Post-Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	A Weighting
Detector	Slow
Preamplifier	PRM831
Microphone Correction	Off
Integration Method	Linear
Gain	0.0 dB
Overload	142.2 dB

	A	C	Z
Under Range Peak	**74.6**	71.6	76.6 dB
Under Range Limit	**26.0**	26.2	31.3 dB
Noise Floor	16.8	17.0	22.1 dB

Results

L_{Aeq}	55.2	
LAE	104.6	
EA	3.181	mPa²h
$L_{Apeak\ (max)}$	2021-04-11 09:18:33	106.2 dB
L_{ASmax}	2021-04-11 09:17:58	83.0 dB
L_{ASmin}	2021-04-12 02:50:58	40.8 dB
SEA	-99.94	dB
LAS > 60.0 dB (Exceedance Counts / Duration)	221	3737.6 s
LAS > 90.0 dB (Exceedance Counts / Duration)	0	0.0 s
L_{Apeak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
L_{Apeak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
L_{Apeak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	**Ldn**	**LDay 07:00-22:00**	**LNight 22:00-07:00**	**Lden**	**LDay 07:00-19:00**	**LEvening 19:00-22:00**
	58.7	56.5	50.9	59.3	56.6	56.2

L_{Ceq}	62.2	dB
L_{Aeq}	55.2	dB
L_{Ceq} - L_{Aeq}	7.1	dB
L_{AIeq}	58.1	dB
L_{Aeq}	55.2	dB
L_{AIeq} - L_{Aeq}	2.9	dB

	A		C		Z	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
L_{eq}	55.2		62.2		68.1	
$L_{S(max)}$	83.0	2021/04/11 9:17:58	83.1	2021/04/11 9:17:59	89.9	2021/04/11 14:49:53
$L_{F(max)}$	89.8	2021/04/11 9:17:47	89.8	2021/04/11 9:17:58	95.5	2021/04/11 17:27:10
$L_{I(max)}$	93.5	2021/04/11 9:17:47	92.8	2021/04/11 9:17:47	98.3	2021/04/11 14:49:53
$L_{S(min)}$	40.8	2021/04/12 2:50:58	47.6	2021/04/12 1:45:18	51.1	2021/04/12 1:45:20
$L_{F(min)}$	40.1	2021/04/12 2:50:58	46.1	2021/04/12 2:46:46	49.0	2021/04/12 2:46:46
$L_{I(min)}$	40.5	2021/04/12 2:50:57	47.7	2021/04/12 2:46:46	51.9	2021/04/12 2:46:28
$L_{Peak(max)}$	106.2	2021/04/11 9:18:33	108.1	2021/04/11 9:18:33	108.3	2021/04/11 9:18:33

Overload Count	0	
Overload Duration	0.0	s

Statistics

LAI1.70	62.8	dB
LAI8.30	57.4	dB

LAI10.00	57.0	dB
LAI25.00	54.4	dB
LAI50.00	51.7	dB
LAI75.00	49.8	dB

Calibration History

Preamp	Date	dB re. 1V/Pa	6.3	8.0	10.0
PRM831	2021-04-11 09:13:08	-24.67			
PRM831	2021-04-10 21:51:35	-24.77			
PRM831	2020-12-17 14:20:49	-24.53			
PRM831	2020-12-17 13:53:18	-24.60			
PRM831	2020-12-17 13:53:03	-24.60			
PRM831	2020-12-17 12:55:19	-24.52			
PRM831	2020-12-17 12:55:12	-24.55			
PRM831	2020-12-17 12:26:36	-25.02			
PRM831	2020-12-17 12:26:26	-25.03			
PRM831	2020-08-16 10:55:50	-24.74			
PRM831	2020-08-16 09:48:48	-24.69			

Record #	Date	Time	Run Duration	Run Time	Pause	LAeq	LAE	LASmin	LASmin Time	LASmax	LASmax Time	LApeak (max)	LApeak (max) Time
1	2021-04-11	09:17:22	00:00:37.6	00:00:37.6	00:00:00.0	72.5	88.3	49.8	09:17:24	83.0	09:17:58	104.6	09:17:47
2	2021-04-11	09:18:00	00:01:00.0	00:01:00.0	00:00:00.0	67.5	85.3	48.9	09:18:54	80.5	09:18:16	106.2	09:18:33
3	2021-04-11	09:19:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	48.4	09:19:55	52.1	09:19:11	76.4	09:19:01
4	2021-04-11	09:20:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	47.6	09:20:25	51.7	09:20:33	64.7	09:20:44
5	2021-04-11	09:21:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.4	48.1	09:21:24	51.5	09:21:50	66.9	09:21:07
6	2021-04-11	09:22:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	48.0	09:22:55	51.5	09:22:27	65.1	09:22:37
7	2021-04-11	09:23:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.2	48.7	09:23:51	58.5	09:23:21	72.0	09:23:21
8	2021-04-11	09:24:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	67.9	48.8	09:24:17	52.2	09:24:55	66.4	09:24:57
9	2021-04-11	09:25:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	50.8	09:25:44	56.8	09:25:58	69.6	09:25:50
10	2021-04-11	09:26:00	00:01:00.0	00:01:00.0	00:00:00.0	59.3	77.1	53.2	09:26:58	64.2	09:26:16	79.3	09:26:16
11	2021-04-11	09:27:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	49.8	09:27:57	56.5	09:27:00	70.0	09:27:00
12	2021-04-11	09:28:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	49.9	09:28:05	54.7	09:28:54	67.8	09:28:38
13	2021-04-11	09:29:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.1	09:29:48	54.0	09:29:03	66.9	09:29:27
14	2021-04-11	09:30:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	48.1	09:30:48	51.5	09:30:54	65.5	09:30:53
15	2021-04-11	09:31:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.8	48.4	09:31:03	52.0	09:31:38	66.8	09:31:12
16	2021-04-11	09:32:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.8	09:32:28	52.8	09:32:34	66.7	09:32:20
17	2021-04-11	09:33:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	49.4	09:33:55	54.9	09:33:27	68.6	09:33:27
18	2021-04-11	09:34:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.5	48.1	09:34:47	52.0	09:34:10	67.7	09:34:09
19	2021-04-11	09:35:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.4	48.2	09:35:59	51.4	09:35:39	66.0	09:35:39
20	2021-04-11	09:36:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	49.3	09:36:15	55.3	09:36:41	70.3	09:36:20
21	2021-04-11	09:37:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	48.1	09:37:15	51.0	09:37:00	67.2	09:37:05
22	2021-04-11	09:38:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	69.9	49.5	09:38:20	56.1	09:38:48	74.3	09:38:22
23	2021-04-11	09:39:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	48.7	09:39:55	54.1	09:39:04	68.8	09:39:03
24	2021-04-11	09:40:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	49.0	09:40:28	51.2	09:40:33	67.7	09:40:33
25	2021-04-11	09:41:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	48.3	09:41:05	57.4	09:41:32	73.5	09:41:31
26	2021-04-11	09:42:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	48.6	09:42:05	52.3	09:42:54	66.4	09:42:54
27	2021-04-11	09:43:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.5	09:43:29	51.3	09:43:56	64.9	09:43:00
28	2021-04-11	09:44:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	49.1	09:44:37	51.1	09:44:25	64.5	09:44:25
29	2021-04-11	09:45:00	00:01:00.0	00:01:00.0	00:00:00.0	59.5	77.3	50.0	09:45:06	66.8	09:45:44	81.5	09:45:42
30	2021-04-11	09:46:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	49.3	09:46:48	59.5	09:46:00	73.1	09:46:00
31	2021-04-11	09:47:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	48.9	09:47:37	51.8	09:47:25	69.0	09:47:20
32	2021-04-11	09:48:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.4	48.2	09:48:34	52.8	09:48:21	68.0	09:48:21
33	2021-04-11	09:49:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.6	47.6	09:49:57	50.5	09:49:01	66.2	09:49:44
34	2021-04-11	09:50:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.3	47.2	09:50:44	50.3	09:50:48	64.9	09:50:48
35	2021-04-11	09:51:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.5	47.4	09:51:03	54.3	09:51:48	69.7	09:51:47
36	2021-04-11	09:52:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	47.7	09:52:38	52.8	09:52:59	69.2	09:52:59
37	2021-04-11	09:53:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	47.9	09:53:19	52.7	09:53:00	69.2	09:53:00
38	2021-04-11	09:54:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	48.4	09:54:56	53.2	09:54:10	70.3	09:54:10
39	2021-04-11	09:55:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	48.5	09:55:02	56.7	09:55:45	71.8	09:55:45
40	2021-04-11	09:56:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.4	48.8	09:56:00	52.8	09:56:46	67.4	09:56:45
41	2021-04-11	09:57:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.1	09:57:10	53.3	09:57:46	68.7	09:57:46
42	2021-04-11	09:58:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.9	09:58:11	52.6	09:58:31	66.9	09:58:47
43	2021-04-11	09:59:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.0	09:59:32	53.9	09:59:47	69.1	09:59:36
44	2021-04-11	10:00:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	49.1	10:00:36	51.3	10:00:59	66.4	10:00:07
45	2021-04-11	10:01:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.0	49.3	10:01:11	56.1	10:01:53	70.5	10:01:27
46	2021-04-11	10:02:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	50.8	10:02:03	55.0	10:02:35	68.4	10:02:14
47	2021-04-11	10:03:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	48.9	10:03:56	61.4	10:03:47	74.6	10:03:47
48	2021-04-11	10:04:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	49.3	10:04:02	53.2	10:04:08	67.4	10:04:08
49	2021-04-11	10:05:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.4	10:05:46	52.2	10:05:25	66.6	10:05:10
50	2021-04-11	10:06:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	49.3	10:06:29	51.2	10:06:04	67.7	10:06:23
51	2021-04-11	10:07:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.0	49.2	10:07:12	52.4	10:07:52	66.5	10:07:56
52	2021-04-11	10:08:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.2	50.9	10:08:01	54.5	10:08:57	68.0	10:08:39
53	2021-04-11	10:09:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.6	10:09:18	54.2	10:09:05	69.4	10:09:08
54	2021-04-11	10:10:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	50.1	10:10:37	53.3	10:10:04	72.8	10:10:46
55	2021-04-11	10:11:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.6	10:11:05	53.5	10:11:34	72.3	10:11:33
56	2021-04-11	10:12:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	50.3	10:12:39	53.9	10:12:01	67.9	10:12:04
57	2021-04-11	10:13:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.9	10:13:26	51.9	10:13:07	72.3	10:13:27
58	2021-04-11	10:14:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	50.9	10:14:35	71.5	10:14:50	97.1	10:14:50
59	2021-04-11	10:15:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	50.3	10:15:59	56.2	10:15:52	78.7	10:15:09
60	2021-04-11	10:16:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.9	10:16:59	52.8	10:16:24	68.0	10:16:55
61	2021-04-11	10:17:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	49.9	10:17:00	53.6	10:17:13	71.8	10:17:26
62	2021-04-11	10:18:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.6	10:18:51	54.7	10:18:53	74.0	10:18:34
63	2021-04-11	10:19:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.7	10:19:30	52.2	10:19:54	71.1	10:19:46
64	2021-04-11	10:20:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.7	49.2	10:20:47	53.3	10:20:21	72.0	10:20:56
65	2021-04-11	10:21:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	48.9	10:21:05	51.9	10:21:17	74.6	10:21:17
66	2021-04-11	10:22:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	50.0	10:22:00	59.9	10:22:38	71.7	10:22:38
67	2021-04-11	10:23:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.1	10:23:41	53.7	10:23:30	81.6	10:23:30
68	2021-04-11	10:24:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	49.5	10:24:59	53.4	10:24:30	71.0	10:24:23
69	2021-04-11	10:25:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	49.2	10:25:41	51.4	10:25:20	78.7	10:25:20
70	2021-04-11	10:26:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	49.7	10:26:00	53.2	10:26:33	75.2	10:26:38
71	2021-04-11	10:27:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.8	10:27:59	52.4	10:27:30	71.6	10:27:00
72	2021-04-11	10:28:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.8	10:28:00	51.9	10:28:51	64.7	10:28:51
73	2021-04-11	10:29:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.0	50.0	10:29:37	52.4	10:29:42	71.5	10:29:28
74	2021-04-11	10:30:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.6	10:30:38	53.3	10:30:50	76.6	10:30:50

75	2021-04-11	10:31:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	50.0	10:31:55	52.5	10:31:59	66.8	10:31:08
76	2021-04-11	10:32:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.6	10:32:30	52.5	10:32:01	76.3	10:32:16
77	2021-04-11	10:33:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	49.2	10:33:09	51.2	10:33:59	64.7	10:33:59
78	2021-04-11	10:34:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.1	49.2	10:34:27	51.8	10:34:04	77.2	10:34:03
79	2021-04-11	10:35:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.7	10:35:00	51.8	10:35:57	64.7	10:35:05
80	2021-04-11	10:36:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	50.9	10:36:11	53.9	10:36:42	82.8	10:36:32
81	2021-04-11	10:37:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	51.8	10:37:27	53.6	10:37:02	66.8	10:37:55
82	2021-04-11	10:38:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	51.2	10:38:52	53.5	10:38:47	68.0	10:38:46
83	2021-04-11	10:39:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.2	10:39:49	55.3	10:39:50	78.6	10:39:50
84	2021-04-11	10:40:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	51.3	10:40:03	57.5	10:40:45	71.5	10:40:45
85	2021-04-11	10:41:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	51.7	10:41:02	55.9	10:41:18	71.7	10:41:55
86	2021-04-11	10:42:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	51.1	10:42:31	53.5	10:42:02	69.3	10:42:10
87	2021-04-11	10:43:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	50.6	10:43:53	53.5	10:43:28	70.0	10:43:37
88	2021-04-11	10:44:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	50.5	10:44:11	52.9	10:44:23	68.0	10:44:21
89	2021-04-11	10:45:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.3	50.3	10:45:11	52.9	10:45:49	69.4	10:45:31
90	2021-04-11	10:46:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	50.4	10:46:16	56.5	10:46:58	73.2	10:46:30
91	2021-04-11	10:47:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.8	50.3	10:47:12	55.9	10:47:54	70.4	10:47:53
92	2021-04-11	10:48:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.7	50.8	10:48:39	54.3	10:48:02	71.5	10:48:16
93	2021-04-11	10:49:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	50.9	10:49:50	59.3	10:49:23	72.4	10:49:28
94	2021-04-11	10:50:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	48.8	10:50:54	52.4	10:50:10	75.0	10:50:38
95	2021-04-11	10:51:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.7	10:51:59	51.4	10:51:16	76.4	10:51:51
96	2021-04-11	10:52:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.6	10:52:09	52.8	10:52:59	78.3	10:52:58
97	2021-04-11	10:53:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	49.9	10:53:11	57.9	10:53:05	74.6	10:53:00
98	2021-04-11	10:54:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.0	48.4	10:54:43	52.8	10:54:27	76.1	10:54:17
99	2021-04-11	10:55:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.7	10:55:16	53.5	10:55:33	81.5	10:55:51
100	2021-04-11	10:56:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	48.7	10:56:22	52.8	10:56:59	76.5	10:56:57
101	2021-04-11	10:57:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	50.2	10:57:49	54.0	10:57:40	75.7	10:57:27
102	2021-04-11	10:58:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	49.5	10:58:33	57.4	10:58:09	73.0	10:58:40
103	2021-04-11	10:59:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	49.2	10:59:28	52.4	10:59:10	79.0	10:59:10
104	2021-04-11	11:00:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	50.0	11:00:29	54.7	11:00:49	67.3	11:00:48
105	2021-04-11	11:01:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.7	11:01:26	53.3	11:01:00	74.4	11:01:03
106	2021-04-11	11:02:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	49.9	11:02:40	53.3	11:02:02	78.3	11:02:02
107	2021-04-11	11:03:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.5	50.4	11:03:30	53.7	11:03:49	76.0	11:03:05
108	2021-04-11	11:04:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	51.0	11:04:08	58.0	11:04:40	74.0	11:04:23
109	2021-04-11	11:05:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	51.3	11:05:15	55.0	11:05:59	72.1	11:05:59
110	2021-04-11	11:06:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.8	51.4	11:06:46	54.5	11:06:00	72.1	11:06:00
111	2021-04-11	11:07:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	51.3	11:07:56	53.5	11:07:29	72.7	11:07:33
112	2021-04-11	11:08:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.6	51.6	11:08:04	54.3	11:08:17	79.6	11:08:24
113	2021-04-11	11:09:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.1	11:09:54	55.5	11:09:03	77.0	11:09:14
114	2021-04-11	11:10:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.0	51.1	11:10:10	54.2	11:10:05	71.8	11:10:58
115	2021-04-11	11:11:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.7	11:11:56	54.1	11:11:05	72.3	11:11:14
116	2021-04-11	11:12:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	50.5	11:12:47	53.4	11:12:42	76.3	11:12:56
117	2021-04-11	11:13:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.5	11:13:50	54.1	11:13:32	81.1	11:13:04
118	2021-04-11	11:14:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.1	11:14:11	55.8	11:14:29	85.8	11:14:29
119	2021-04-11	11:15:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	50.5	11:15:59	54.5	11:15:03	70.9	11:15:39
120	2021-04-11	11:16:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	50.5	11:16:40	53.5	11:16:59	76.5	11:16:57
121	2021-04-11	11:17:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.9	11:17:48	52.5	11:17:00	75.7	11:17:05
122	2021-04-11	11:18:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.4	11:18:17	55.7	11:18:36	70.8	11:18:59
123	2021-04-11	11:19:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	51.7	11:19:25	57.5	11:19:06	84.2	11:19:21
124	2021-04-11	11:20:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	51.7	11:20:02	56.8	11:20:59	82.7	11:20:20
125	2021-04-11	11:21:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	51.2	11:21:58	57.3	11:21:01	73.4	11:21:06
126	2021-04-11	11:22:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	50.1	11:22:56	58.6	11:22:13	72.9	11:22:05
127	2021-04-11	11:23:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	49.9	11:23:00	54.5	11:23:46	79.8	11:23:45
128	2021-04-11	11:24:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.1	50.8	11:24:25	56.5	11:24:38	76.1	11:24:37
129	2021-04-11	11:25:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	50.3	11:25:52	54.9	11:25:54	73.6	11:25:55
130	2021-04-11	11:26:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.6	50.1	11:26:44	54.8	11:26:01	75.2	11:26:20
131	2021-04-11	11:27:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	50.2	11:27:12	54.0	11:27:51	78.9	11:27:02
132	2021-04-11	11:28:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	50.7	11:28:17	57.4	11:28:39	77.3	11:28:03
133	2021-04-11	11:29:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	51.5	11:29:10	61.2	11:29:43	76.2	11:29:43
134	2021-04-11	11:30:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	50.4	11:30:43	57.6	11:30:01	69.8	11:30:07
135	2021-04-11	11:31:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	50.2	11:31:37	54.3	11:31:21	72.1	11:31:19
136	2021-04-11	11:32:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	50.2	11:32:13	52.3	11:32:54	65.5	11:32:54
137	2021-04-11	11:33:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.9	11:33:25	53.3	11:33:52	68.6	11:33:21
138	2021-04-11	11:34:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	50.5	11:34:57	53.3	11:34:05	70.5	11:34:06
139	2021-04-11	11:35:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	50.5	11:35:00	54.2	11:35:04	78.9	11:35:31
140	2021-04-11	11:36:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.2	49.7	11:36:30	51.7	11:36:03	71.1	11:36:30
141	2021-04-11	11:37:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.9	11:37:29	52.6	11:37:00	66.8	11:37:20
142	2021-04-11	11:38:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	67.9	49.6	11:38:21	51.5	11:38:57	66.7	11:38:51
143	2021-04-11	11:39:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.7	48.3	11:39:53	51.3	11:39:04	69.1	11:39:45
144	2021-04-11	11:40:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	48.6	11:40:04	52.3	11:40:51	68.1	11:40:50
145	2021-04-11	11:41:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.6	48.5	11:41:09	54.5	11:41:35	82.5	11:41:35
146	2021-04-11	11:42:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.5	49.4	11:42:50	52.9	11:42:40	68.2	11:42:09
147	2021-04-11	11:43:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	48.6	11:43:33	51.9	11:43:27	68.3	11:43:06
148	2021-04-11	11:44:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	48.9	11:44:03	54.1	11:44:34	81.3	11:44:34
149	2021-04-11	11:45:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	49.6	11:45:24	52.7	11:45:49	69.7	11:45:29

150	2021-04-11	11:46:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	50.4	11:46:26	54.3	11:46:48	77.2	11:46:48
151	2021-04-11	11:47:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.2	49.9	11:47:27	58.1	11:47:39	72.8	11:47:57
152	2021-04-11	11:48:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	49.3	11:48:56	53.4	11:48:48	77.8	11:48:16
153	2021-04-11	11:49:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.2	11:49:17	54.8	11:49:37	80.2	11:49:37
154	2021-04-11	11:50:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	50.2	11:50:53	53.4	11:50:16	72.6	11:50:16
155	2021-04-11	11:51:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	50.5	11:51:06	53.0	11:51:39	80.7	11:51:43
156	2021-04-11	11:52:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	51.3	11:52:17	58.2	11:52:59	77.9	11:52:34
157	2021-04-11	11:53:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	51.9	11:53:38	66.0	11:53:03	85.1	11:53:38
158	2021-04-11	11:54:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.1	52.2	11:54:01	56.2	11:54:28	87.2	11:54:28
159	2021-04-11	11:55:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.3	52.5	11:55:30	58.4	11:55:55	71.8	11:55:05
160	2021-04-11	11:56:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	52.0	11:56:33	57.1	11:56:00	73.1	11:56:01
161	2021-04-11	11:57:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	51.2	11:57:05	55.8	11:57:38	76.5	11:57:25
162	2021-04-11	11:58:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	50.7	11:58:45	54.7	11:58:48	79.1	11:58:31
163	2021-04-11	11:59:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	50.2	11:59:20	58.2	11:59:42	72.8	11:59:00
164	2021-04-11	12:00:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.6	12:00:20	55.1	12:00:45	71.9	12:00:45
165	2021-04-11	12:01:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	50.8	12:01:08	54.7	12:01:37	71.2	12:01:12
166	2021-04-11	12:02:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	51.2	12:02:19	54.0	12:02:12	74.1	12:02:59
167	2021-04-11	12:03:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.3	12:03:53	54.2	12:03:14	74.1	12:03:00
168	2021-04-11	12:04:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.7	12:04:27	54.2	12:04:41	76.8	12:04:40
169	2021-04-11	12:05:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	50.4	12:05:15	61.5	12:05:55	76.0	12:05:55
170	2021-04-11	12:06:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.4	50.6	12:06:50	58.8	12:06:00	72.8	12:06:00
171	2021-04-11	12:07:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	50.0	12:07:41	54.5	12:07:59	76.8	12:07:20
172	2021-04-11	12:08:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	51.5	12:08:58	57.4	12:08:11	80.8	12:08:51
173	2021-04-11	12:09:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	50.2	12:09:47	53.8	12:09:40	79.5	12:09:51
174	2021-04-11	12:10:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	50.0	12:10:52	52.2	12:10:57	69.6	12:10:57
175	2021-04-11	12:11:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	50.8	12:11:09	54.7	12:11:32	68.2	12:11:29
176	2021-04-11	12:12:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.1	50.9	12:12:50	54.2	12:12:16	76.1	12:12:58
177	2021-04-11	12:13:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	51.5	12:13:35	55.5	12:13:16	71.4	12:13:16
178	2021-04-11	12:14:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.3	51.3	12:14:22	54.0	12:14:55	74.1	12:14:33
179	2021-04-11	12:15:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	51.5	12:15:47	54.7	12:15:14	68.5	12:15:13
180	2021-04-11	12:16:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	74.9	52.2	12:16:00	66.3	12:16:36	81.4	12:16:36
181	2021-04-11	12:17:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	51.9	12:17:58	59.7	12:17:16	78.9	12:17:58
182	2021-04-11	12:18:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	51.7	12:18:10	62.6	12:18:46	75.4	12:18:57
183	2021-04-11	12:19:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	51.4	12:19:58	60.0	12:19:00	74.5	12:19:00
184	2021-04-11	12:20:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.8	12:20:29	54.1	12:20:59	78.5	12:20:46
185	2021-04-11	12:21:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	51.7	12:21:17	55.0	12:21:00	74.5	12:21:56
186	2021-04-11	12:22:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	49.8	12:22:49	54.9	12:22:09	79.8	12:22:26
187	2021-04-11	12:23:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.4	50.0	12:23:45	51.8	12:23:20	65.7	12:23:20
188	2021-04-11	12:24:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.4	12:24:18	52.5	12:24:48	64.5	12:24:47
189	2021-04-11	12:25:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	49.4	12:25:20	51.8	12:25:15	71.3	12:25:11
190	2021-04-11	12:26:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.5	49.6	12:26:29	59.1	12:26:49	80.5	12:26:15
191	2021-04-11	12:27:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	48.8	12:27:20	55.4	12:27:01	67.6	12:27:00
192	2021-04-11	12:28:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.8	12:28:01	53.0	12:28:33	68.9	12:28:22
193	2021-04-11	12:29:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.3	12:29:14	57.5	12:29:20	78.3	12:29:50
194	2021-04-11	12:30:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	50.4	12:30:44	53.1	12:30:38	78.2	12:30:05
195	2021-04-11	12:31:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.6	49.4	12:31:59	53.0	12:31:33	72.8	12:31:49
196	2021-04-11	12:32:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.3	12:32:00	53.2	12:32:03	85.1	12:32:03
197	2021-04-11	12:33:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	49.9	12:33:35	53.2	12:33:58	76.4	12:33:29
198	2021-04-11	12:34:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.8	12:34:42	52.7	12:34:00	72.0	12:34:28
199	2021-04-11	12:35:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.5	50.3	12:35:13	53.7	12:35:48	67.7	12:35:47
200	2021-04-11	12:36:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	50.1	12:36:09	53.1	12:36:40	70.1	12:36:45
201	2021-04-11	12:37:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.6	12:37:34	52.1	12:37:03	64.5	12:37:12
202	2021-04-11	12:38:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.6	12:38:46	52.1	12:38:57	64.9	12:38:01
203	2021-04-11	12:39:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.6	12:39:14	53.5	12:39:56	66.7	12:39:47
204	2021-04-11	12:40:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	49.6	12:40:37	51.8	12:40:18	65.1	12:40:31
205	2021-04-11	12:41:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.8	49.8	12:41:02	53.9	12:41:41	66.1	12:41:40
206	2021-04-11	12:42:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	50.3	12:42:06	52.4	12:42:56	66.6	12:42:44
207	2021-04-11	12:43:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.0	12:43:59	52.2	12:43:32	71.8	12:43:15
208	2021-04-11	12:44:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.5	48.9	12:44:01	50.5	12:44:24	63.9	12:44:06
209	2021-04-11	12:45:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	47.5	12:45:20	50.2	12:45:03	66.8	12:45:49
210	2021-04-11	12:46:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.5	49.0	12:46:03	51.1	12:46:56	63.2	12:46:36
211	2021-04-11	12:47:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.6	12:47:00	51.7	12:47:17	71.7	12:47:33
212	2021-04-11	12:48:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.0	50.0	12:48:59	54.3	12:48:50	68.4	12:48:50
213	2021-04-11	12:49:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	50.0	12:49:00	53.7	12:49:23	76.7	12:49:46
214	2021-04-11	12:50:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.5	51.0	12:50:11	52.9	12:50:03	74.5	12:50:47
215	2021-04-11	12:51:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.7	50.8	12:51:51	52.8	12:51:21	65.8	12:51:42
216	2021-04-11	12:52:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.9	12:52:13	52.7	12:52:31	66.9	12:52:10
217	2021-04-11	12:53:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	50.6	12:53:57	52.5	12:53:08	65.2	12:53:41
218	2021-04-11	12:54:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.7	50.8	12:54:00	53.4	12:54:54	66.4	12:54:11
219	2021-04-11	12:55:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.7	12:55:55	53.1	12:55:00	69.6	12:55:41
220	2021-04-11	12:56:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	50.5	12:56:35	52.0	12:56:54	77.2	12:56:54
221	2021-04-11	12:57:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	50.5	12:57:50	52.8	12:57:35	73.7	12:57:37
222	2021-04-11	12:58:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	49.9	12:58:25	53.2	12:58:55	78.6	12:58:36
223	2021-04-11	12:59:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	49.8	12:59:58	54.6	12:59:46	73.2	12:59:23
224	2021-04-11	13:00:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.5	50.0	13:00:00	54.5	13:00:13	71.2	13:00:13

225	2021-04-11	13:01:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.5	13:01:20	54.4	13:01:49	69.0	13:01:48
226	2021-04-11	13:02:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	49.9	13:02:54	56.0	13:02:18	70.3	13:02:26
227	2021-04-11	13:03:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.2	13:03:58	53.3	13:03:08	71.9	13:03:40
228	2021-04-11	13:04:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.2	13:04:18	53.2	13:04:51	73.8	13:04:06
229	2021-04-11	13:05:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.6	13:05:47	52.0	13:05:08	74.8	13:05:02
230	2021-04-11	13:06:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	49.9	13:06:14	55.5	13:06:37	70.4	13:06:38
231	2021-04-11	13:07:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.6	49.6	13:07:42	55.5	13:07:04	69.4	13:07:12
232	2021-04-11	13:08:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	50.0	13:08:00	53.0	13:08:59	66.8	13:08:12
233	2021-04-11	13:09:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	51.5	13:09:05	59.2	13:09:57	76.8	13:09:39
234	2021-04-11	13:10:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	51.2	13:10:41	66.6	13:10:08	77.7	13:10:08
235	2021-04-11	13:11:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	51.3	13:11:57	54.0	13:11:11	77.7	13:11:20
236	2021-04-11	13:12:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	51.9	13:12:52	58.9	13:12:55	76.6	13:12:53
237	2021-04-11	13:13:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	50.6	13:13:27	62.4	13:13:55	83.9	13:13:38
238	2021-04-11	13:14:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	51.0	13:14:49	62.8	13:14:02	83.7	13:14:02
239	2021-04-11	13:15:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	52.2	13:15:00	56.0	13:15:58	73.6	13:15:36
240	2021-04-11	13:16:00	00:01:00.0	00:01:00.0	00:00:00.0	60.8	78.6	51.5	13:16:19	66.8	13:16:45	85.9	13:16:32
241	2021-04-11	13:17:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.1	51.5	13:17:36	56.9	13:17:59	71.6	13:17:59
242	2021-04-11	13:18:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	51.8	13:18:46	57.9	13:18:26	83.2	13:18:51
243	2021-04-11	13:19:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	50.6	13:19:53	61.6	13:19:01	83.5	13:19:37
244	2021-04-11	13:20:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.3	13:20:33	55.1	13:20:26	77.6	13:20:26
245	2021-04-11	13:21:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	50.8	13:21:45	54.8	13:21:24	69.7	13:21:48
246	2021-04-11	13:22:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.1	13:22:39	54.3	13:22:19	68.2	13:22:18
247	2021-04-11	13:23:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	69.9	49.4	13:23:33	56.0	13:23:58	80.0	13:23:33
248	2021-04-11	13:24:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	49.7	13:24:45	56.1	13:24:08	80.5	13:24:54
249	2021-04-11	13:25:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	49.6	13:25:38	56.0	13:25:13	79.0	13:25:07
250	2021-04-11	13:26:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	49.8	13:26:49	55.5	13:26:30	70.3	13:26:30
251	2021-04-11	13:27:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	49.4	13:27:59	60.7	13:27:39	80.9	13:27:39
252	2021-04-11	13:28:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	49.4	13:28:00	55.7	13:28:59	70.3	13:28:09
253	2021-04-11	13:29:00	00:01:00.0	00:01:00.0	00:00:00.0	60.2	78.0	52.4	13:29:55	67.1	13:29:23	82.6	13:29:26
254	2021-04-11	13:30:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	50.0	13:30:45	56.2	13:30:08	71.5	13:30:55
255	2021-04-11	13:31:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.5	13:31:40	54.8	13:31:00	71.1	13:31:00
256	2021-04-11	13:32:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.6	49.7	13:32:03	55.0	13:32:22	72.1	13:32:10
257	2021-04-11	13:33:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	49.8	13:33:45	56.7	13:33:25	73.6	13:33:25
258	2021-04-11	13:34:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.8	13:34:41	53.5	13:34:36	70.4	13:34:31
259	2021-04-11	13:35:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	50.4	13:35:09	58.3	13:35:29	75.9	13:35:29
260	2021-04-11	13:36:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.6	49.3	13:36:56	55.7	13:36:08	71.1	13:36:08
261	2021-04-11	13:37:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	48.0	13:37:51	55.0	13:37:00	77.4	13:37:38
262	2021-04-11	13:38:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.6	48.6	13:38:00	53.8	13:38:58	69.5	13:38:22
263	2021-04-11	13:39:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	49.5	13:39:03	54.8	13:39:26	67.3	13:39:25
264	2021-04-11	13:40:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.1	13:40:53	53.9	13:40:38	68.2	13:40:40
265	2021-04-11	13:41:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	48.7	13:41:17	53.5	13:41:33	68.8	13:41:03
266	2021-04-11	13:42:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.4	48.7	13:42:01	58.5	13:42:28	74.1	13:42:22
267	2021-04-11	13:43:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	48.8	13:43:06	56.8	13:43:39	72.0	13:43:39
268	2021-04-11	13:44:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	48.9	13:44:53	54.2	13:44:35	69.2	13:44:39
269	2021-04-11	13:45:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	47.9	13:45:22	51.5	13:45:46	69.2	13:45:32
270	2021-04-11	13:46:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.7	48.9	13:46:02	54.2	13:46:39	74.3	13:46:07
271	2021-04-11	13:47:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.7	13:47:28	51.9	13:47:57	69.1	13:47:57
272	2021-04-11	13:48:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.7	13:48:33	52.2	13:48:11	73.0	13:48:37
273	2021-04-11	13:49:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.6	13:49:09	53.2	13:49:43	72.0	13:49:21
274	2021-04-11	13:50:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	49.9	13:50:43	56.1	13:50:20	77.8	13:50:20
275	2021-04-11	13:51:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.5	13:51:00	55.2	13:51:56	76.9	13:51:25
276	2021-04-11	13:52:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.9	13:52:16	52.8	13:52:26	70.0	13:52:09
277	2021-04-11	13:53:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.2	50.5	13:53:06	55.0	13:53:52	75.6	13:53:52
278	2021-04-11	13:54:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	49.8	13:54:59	55.0	13:54:21	72.8	13:54:16
279	2021-04-11	13:55:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	50.2	13:55:02	55.3	13:55:36	72.7	13:55:28
280	2021-04-11	13:56:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.2	49.2	13:56:30	52.8	13:56:00	65.1	13:56:51
281	2021-04-11	13:57:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.8	49.2	13:57:34	54.5	13:57:35	79.0	13:57:35
282	2021-04-11	13:58:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	49.4	13:58:19	52.9	13:58:21	69.6	13:58:21
283	2021-04-11	13:59:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.8	13:59:01	52.8	13:59:36	69.3	13:59:13
284	2021-04-11	14:00:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	50.7	14:00:01	54.5	14:00:05	71.3	14:00:40
285	2021-04-11	14:01:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	51.2	14:01:13	56.9	14:01:13	72.9	14:01:17
286	2021-04-11	14:02:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	50.9	14:02:50	55.4	14:02:55	70.3	14:02:04
287	2021-04-11	14:03:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.8	50.6	14:03:19	54.6	14:03:03	68.2	14:03:03
288	2021-04-11	14:04:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.5	14:04:42	55.6	14:04:34	71.7	14:04:34
289	2021-04-11	14:05:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	69.9	50.6	14:05:28	58.8	14:05:35	77.4	14:05:16
290	2021-04-11	14:06:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.6	14:06:04	55.5	14:06:38	70.9	14:06:38
291	2021-04-11	14:07:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	51.3	14:07:33	54.8	14:07:51	69.2	14:07:50
292	2021-04-11	14:08:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.5	51.7	14:08:58	54.3	14:08:18	69.8	14:08:17
293	2021-04-11	14:09:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.2	14:09:12	53.9	14:09:23	69.1	14:09:23
294	2021-04-11	14:10:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	51.3	14:10:00	57.0	14:10:18	74.8	14:10:30
295	2021-04-11	14:11:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.1	14:11:59	56.4	14:11:03	69.8	14:11:10
296	2021-04-11	14:12:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.2	14:12:23	53.3	14:12:49	67.9	14:12:48
297	2021-04-11	14:13:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.3	14:13:35	55.8	14:13:03	73.5	14:13:27
298	2021-04-11	14:14:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.1	49.3	14:14:42	51.6	14:14:08	67.5	14:14:08
299	2021-04-11	14:15:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	49.7	14:15:15	56.7	14:15:54	69.7	14:15:54

300	2021-04-11	14:16:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	51.0	14:16:54	60.7	14:16:12	74.2	14:16:28
301	2021-04-11	14:17:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.5	50.3	14:17:16	63.9	14:17:52	77.3	14:17:47
302	2021-04-11	14:18:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	68.9	49.3	14:18:35	56.2	14:18:02	70.2	14:18:02
303	2021-04-11	14:19:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	49.9	14:19:03	52.4	14:19:30	66.0	14:19:07
304	2021-04-11	14:20:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	50.3	14:20:14	55.4	14:20:55	69.8	14:20:56
305	2021-04-11	14:21:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.6	14:21:38	51.7	14:21:02	64.7	14:21:52
306	2021-04-11	14:22:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.1	14:22:28	54.5	14:22:54	69.2	14:22:30
307	2021-04-11	14:23:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.6	14:23:24	55.8	14:23:35	73.3	14:23:57
308	2021-04-11	14:24:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.5	14:24:26	55.6	14:24:16	72.4	14:24:06
309	2021-04-11	14:25:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	50.7	14:25:27	57.8	14:25:49	79.9	14:25:31
310	2021-04-11	14:26:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	49.4	14:26:59	54.7	14:26:07	75.9	14:26:55
311	2021-04-11	14:27:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	49.3	14:27:00	57.4	14:27:15	73.9	14:27:15
312	2021-04-11	14:28:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.1	49.4	14:28:49	58.8	14:28:06	71.0	14:28:06
313	2021-04-11	14:29:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	68.9	49.7	14:29:00	53.4	14:29:43	66.5	14:29:01
314	2021-04-11	14:30:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	50.2	14:30:04	53.0	14:30:50	66.2	14:30:21
315	2021-04-11	14:31:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	51.5	14:31:30	55.8	14:31:12	71.1	14:31:11
316	2021-04-11	14:32:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	50.4	14:32:52	54.1	14:32:34	73.0	14:32:34
317	2021-04-11	14:33:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.0	49.7	14:33:28	55.6	14:33:39	71.8	14:33:39
318	2021-04-11	14:34:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	51.8	14:34:01	57.4	14:34:35	74.4	14:34:34
319	2021-04-11	14:35:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.2	52.5	14:35:00	55.9	14:35:55	69.8	14:35:30
320	2021-04-11	14:36:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.0	52.7	14:36:59	57.0	14:36:07	69.2	14:36:16
321	2021-04-11	14:37:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	52.8	14:37:00	58.6	14:37:58	71.6	14:37:58
322	2021-04-11	14:38:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	53.2	14:38:49	57.1	14:38:00	69.7	14:38:03
323	2021-04-11	14:39:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	51.6	14:39:57	55.2	14:39:31	68.2	14:39:31
324	2021-04-11	14:40:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.3	14:40:40	55.7	14:40:44	68.0	14:40:09
325	2021-04-11	14:41:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	51.2	14:41:57	54.1	14:41:00	67.1	14:41:00
326	2021-04-11	14:42:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	51.5	14:42:55	53.6	14:42:31	70.0	14:42:21
327	2021-04-11	14:43:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	51.0	14:43:06	53.5	14:43:26	66.8	14:43:18
328	2021-04-11	14:44:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.3	50.8	14:44:59	62.2	14:44:31	74.1	14:44:31
329	2021-04-11	14:45:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	50.1	14:45:16	52.6	14:45:57	66.1	14:45:51
330	2021-04-11	14:46:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	50.4	14:46:34	56.0	14:46:27	71.1	14:46:27
331	2021-04-11	14:47:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	52.2	14:47:00	56.7	14:47:14	70.9	14:47:13
332	2021-04-11	14:48:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	52.9	14:48:59	56.4	14:48:42	70.0	14:48:41
333	2021-04-11	14:49:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	52.1	14:49:25	54.4	14:49:10	74.6	14:49:46
334	2021-04-11	14:50:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	52.6	14:50:37	57.4	14:50:50	70.8	14:50:50
335	2021-04-11	14:51:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	51.8	14:51:59	56.8	14:51:26	70.3	14:51:44
336	2021-04-11	14:52:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.7	51.6	14:52:51	56.0	14:52:13	71.8	14:52:13
337	2021-04-11	14:53:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.1	14:53:15	55.0	14:53:33	73.2	14:53:30
338	2021-04-11	14:54:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.6	14:54:22	52.0	14:54:54	68.8	14:54:24
339	2021-04-11	14:55:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.8	14:55:50	58.1	14:55:05	71.5	14:55:05
340	2021-04-11	14:56:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	50.6	14:56:04	52.9	14:56:12	66.2	14:56:19
341	2021-04-11	14:57:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	50.9	14:57:09	55.1	14:57:46	69.1	14:57:41
342	2021-04-11	14:58:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	52.3	14:58:56	56.6	14:58:47	70.4	14:58:47
343	2021-04-11	14:59:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	52.0	14:59:26	58.6	14:59:52	73.6	14:59:57
344	2021-04-11	15:00:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	51.2	15:00:56	55.5	15:00:06	68.8	15:00:06
345	2021-04-11	15:01:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.3	50.5	15:01:17	57.2	15:01:59	70.7	15:01:58
346	2021-04-11	15:02:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	51.0	15:02:34	55.5	15:02:35	70.7	15:02:00
347	2021-04-11	15:03:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	51.9	15:03:26	56.4	15:03:31	71.0	15:03:43
348	2021-04-11	15:04:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.7	15:04:11	54.7	15:04:45	68.0	15:04:48
349	2021-04-11	15:05:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	52.7	15:05:05	57.4	15:05:09	70.4	15:05:09
350	2021-04-11	15:06:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.1	51.7	15:06:54	55.9	15:06:05	70.1	15:06:05
351	2021-04-11	15:07:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	52.0	15:07:53	56.1	15:07:29	69.4	15:07:22
352	2021-04-11	15:08:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	51.2	15:08:11	58.6	15:08:57	76.1	15:08:57
353	2021-04-11	15:09:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	52.9	15:09:08	55.7	15:09:34	70.1	15:09:30
354	2021-04-11	15:10:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	51.8	15:10:57	58.6	15:10:04	71.9	15:10:04
355	2021-04-11	15:11:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	51.8	15:11:11	63.2	15:11:59	80.8	15:11:58
356	2021-04-11	15:12:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.1	54.6	15:12:29	64.2	15:12:06	80.8	15:12:00
357	2021-04-11	15:13:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	53.2	15:13:26	63.4	15:13:18	78.2	15:13:18
358	2021-04-11	15:14:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.1	53.7	15:14:59	57.6	15:14:38	73.8	15:14:38
359	2021-04-11	15:15:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	53.5	15:15:01	57.0	15:15:27	70.0	15:15:34
360	2021-04-11	15:16:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	54.3	15:16:00	57.3	15:16:31	70.1	15:16:45
361	2021-04-11	15:17:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	55.4	15:17:12	59.3	15:17:36	72.7	15:17:34
362	2021-04-11	15:18:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	52.9	15:18:44	57.0	15:18:03	74.5	15:18:31
363	2021-04-11	15:19:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	53.2	15:19:06	57.2	15:19:37	69.8	15:19:37
364	2021-04-11	15:20:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.2	52.9	15:20:25	58.1	15:20:58	71.0	15:20:58
365	2021-04-11	15:21:00	00:01:00.0	00:01:00.0	00:00:00.0	61.5	79.3	52.8	15:21:53	67.5	15:21:11	85.2	15:21:19
366	2021-04-11	15:22:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.9	15:22:56	53.5	15:22:01	73.9	15:22:27
367	2021-04-11	15:23:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	48.9	15:23:30	53.8	15:23:46	71.8	15:23:15
368	2021-04-11	15:24:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	48.9	15:24:52	52.6	15:24:10	66.7	15:24:09
369	2021-04-11	15:25:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	48.4	15:25:41	51.1	15:25:21	64.5	15:25:43
370	2021-04-11	15:26:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	48.9	15:26:15	56.7	15:26:44	70.2	15:26:41
371	2021-04-11	15:27:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	49.3	15:27:18	54.7	15:27:00	76.8	15:27:22
372	2021-04-11	15:28:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	47.9	15:28:30	50.7	15:28:11	70.5	15:28:32
373	2021-04-11	15:29:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	49.0	15:29:04	57.5	15:29:57	70.0	15:29:57
374	2021-04-11	15:30:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	52.2	15:30:18	60.7	15:30:57	76.3	15:30:57

375	2021-04-11	15:31:00	00:01:00.0	00:01:00.0	00:00:00.0	60.8	78.6	51.7	15:31:56	71.1	15:31:11	84.8	15:31:13
376	2021-04-11	15:32:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	51.1	15:32:37	54.3	15:32:08	66.8	15:32:07
377	2021-04-11	15:33:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	52.0	15:33:21	53.5	15:33:47	66.6	15:33:11
378	2021-04-11	15:34:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	52.6	15:34:01	55.0	15:34:51	68.2	15:34:54
379	2021-04-11	15:35:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	53.4	15:35:47	56.5	15:35:05	71.3	15:35:56
380	2021-04-11	15:36:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.1	53.4	15:36:17	56.0	15:36:22	72.1	15:36:26
381	2021-04-11	15:37:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	52.7	15:37:18	55.2	15:37:37	72.6	15:37:32
382	2021-04-11	15:38:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	52.0	15:38:48	54.8	15:38:05	66.8	15:38:04
383	2021-04-11	15:39:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	52.4	15:39:59	54.4	15:39:54	68.0	15:39:04
384	2021-04-11	15:40:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	51.2	15:40:45	53.7	15:40:05	66.4	15:40:04
385	2021-04-11	15:41:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.7	15:41:34	54.4	15:41:51	70.5	15:41:51
386	2021-04-11	15:42:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.3	15:42:45	53.9	15:42:07	69.3	15:42:01
387	2021-04-11	15:43:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.1	49.8	15:43:59	54.3	15:43:38	69.3	15:43:38
388	2021-04-11	15:44:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.8	49.9	15:44:00	61.9	15:44:59	73.7	15:44:58
389	2021-04-11	15:45:00	00:01:00.0	00:01:00.0	00:00:00.0	68.6	86.4	53.7	15:45:54	75.7	15:45:17	95.0	15:45:16
390	2021-04-11	15:46:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	52.8	15:46:49	55.8	15:46:17	68.4	15:46:15
391	2021-04-11	15:47:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	52.1	15:47:14	55.7	15:47:35	68.3	15:47:27
392	2021-04-11	15:48:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	53.0	15:48:11	55.3	15:48:57	69.6	15:48:09
393	2021-04-11	15:49:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	51.8	15:49:59	56.9	15:49:27	70.8	15:49:22
394	2021-04-11	15:50:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.4	15:50:27	54.4	15:50:59	67.6	15:50:57
395	2021-04-11	15:51:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	51.4	15:51:36	56.3	15:51:56	69.4	15:51:56
396	2021-04-11	15:52:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	51.4	15:52:26	60.1	15:52:52	73.8	15:52:52
397	2021-04-11	15:53:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	51.0	15:53:59	64.9	15:53:48	84.3	15:53:48
398	2021-04-11	15:54:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.8	15:54:37	55.1	15:54:52	74.2	15:54:04
399	2021-04-11	15:55:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.5	52.0	15:55:11	59.3	15:55:44	73.9	15:55:42
400	2021-04-11	15:56:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	52.8	15:56:09	59.7	15:56:53	73.5	15:56:52
401	2021-04-11	15:57:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	51.8	15:57:57	61.8	15:57:12	77.2	15:57:23
402	2021-04-11	15:58:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	51.2	15:58:49	60.0	15:58:39	76.0	15:58:38
403	2021-04-11	15:59:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	52.7	15:59:02	58.3	15:59:21	73.6	15:59:47
404	2021-04-11	16:00:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	52.1	16:00:39	58.2	16:00:45	73.8	16:00:44
405	2021-04-11	16:01:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.2	52.0	16:01:40	58.4	16:01:31	74.8	16:01:45
406	2021-04-11	16:02:00	00:01:00.0	00:01:00.0	00:00:00.0	59.9	77.7	53.7	16:02:00	68.4	16:02:25	82.9	16:02:23
407	2021-04-11	16:03:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	53.5	16:03:52	58.1	16:03:31	74.2	16:03:39
408	2021-04-11	16:04:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	53.5	16:04:00	58.2	16:04:59	74.2	16:04:43
409	2021-04-11	16:05:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	52.5	16:05:52	58.4	16:05:28	74.7	16:05:27
410	2021-04-11	16:06:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	52.7	16:06:35	58.1	16:06:09	74.5	16:06:08
411	2021-04-11	16:07:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	53.6	16:07:59	55.9	16:07:00	69.2	16:07:00
412	2021-04-11	16:08:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	53.2	16:08:20	55.9	16:08:30	69.2	16:08:50
413	2021-04-11	16:09:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	53.1	16:09:25	57.2	16:09:12	71.6	16:09:12
414	2021-04-11	16:10:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	52.5	16:10:21	55.0	16:10:23	69.1	16:10:36
415	2021-04-11	16:11:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	51.8	16:11:29	54.1	16:11:54	67.3	16:11:25
416	2021-04-11	16:12:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	52.4	16:12:03	55.1	16:12:40	69.1	16:12:09
417	2021-04-11	16:13:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.1	52.1	16:13:35	54.6	16:13:56	75.0	16:13:18
418	2021-04-11	16:14:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	51.8	16:14:13	55.7	16:14:29	69.8	16:14:29
419	2021-04-11	16:15:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	51.9	16:15:14	55.7	16:15:53	68.9	16:15:56
420	2021-04-11	16:16:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	52.7	16:16:37	56.6	16:16:16	68.8	16:16:15
421	2021-04-11	16:17:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	52.6	16:17:57	55.5	16:17:24	69.4	16:17:32
422	2021-04-11	16:18:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	52.2	16:18:22	54.0	16:18:07	67.8	16:18:15
423	2021-04-11	16:19:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	52.8	16:19:00	54.2	16:19:03	73.0	16:19:56
424	2021-04-11	16:20:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	53.3	16:20:54	59.4	16:20:42	76.9	16:20:49
425	2021-04-11	16:21:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	52.8	16:21:10	57.7	16:21:57	79.3	16:21:19
426	2021-04-11	16:22:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	53.6	16:22:59	58.5	16:22:13	79.1	16:22:19
427	2021-04-11	16:23:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	53.4	16:23:00	57.0	16:23:45	73.6	16:23:10
428	2021-04-11	16:24:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	54.4	16:24:16	58.3	16:24:51	79.1	16:24:27
429	2021-04-11	16:25:00	00:01:00.0	00:01:00.0	00:00:00.0	60.1	77.8	56.8	16:25:20	66.6	16:25:36	80.2	16:25:36
430	2021-04-11	16:26:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.6	55.2	16:26:55	60.3	16:26:00	75.5	16:26:00
431	2021-04-11	16:27:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	55.0	16:27:09	57.6	16:27:20	80.4	16:27:54
432	2021-04-11	16:28:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	54.3	16:28:20	57.9	16:28:50	72.4	16:28:50
433	2021-04-11	16:29:00	00:01:00.0	00:01:00.0	00:00:00.0	55.3	73.1	54.0	16:29:50	57.0	16:29:16	69.7	16:29:14
434	2021-04-11	16:30:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	54.3	16:30:44	58.9	16:30:25	74.6	16:30:47
435	2021-04-11	16:31:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.6	54.9	16:31:00	58.8	16:31:34	71.4	16:31:00
436	2021-04-11	16:32:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	55.2	16:32:07	58.8	16:32:39	78.3	16:32:39
437	2021-04-11	16:33:00	00:01:00.0	00:01:00.0	00:00:00.0	57.9	75.7	55.9	16:33:33	60.6	16:33:48	84.8	16:33:07
438	2021-04-11	16:34:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	56.1	16:34:47	62.7	16:34:27	78.1	16:34:27
439	2021-04-11	16:35:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.1	56.6	16:35:07	61.5	16:35:40	77.2	16:35:40
440	2021-04-11	16:36:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	54.3	16:36:59	58.2	16:36:10	70.8	16:36:09
441	2021-04-11	16:37:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	54.3	16:37:00	58.2	16:37:47	73.4	16:37:47
442	2021-04-11	16:38:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	56.0	16:38:11	61.2	16:38:06	76.9	16:38:05
443	2021-04-11	16:39:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.7	56.6	16:39:18	60.0	16:39:58	72.7	16:39:31
444	2021-04-11	16:40:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.8	56.4	16:40:23	59.6	16:40:36	73.8	16:40:36
445	2021-04-11	16:41:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	57.2	16:41:27	60.5	16:41:32	74.8	16:41:32
446	2021-04-11	16:42:00	00:01:00.0	00:01:00.0	00:00:00.0	57.5	75.3	56.0	16:42:30	60.6	16:42:55	72.5	16:42:54
447	2021-04-11	16:43:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.5	57.3	16:43:05	60.3	16:43:02	73.4	16:43:38
448	2021-04-11	16:44:00	00:01:00.0	00:01:00.0	00:00:00.0	58.9	76.6	56.9	16:44:50	62.7	16:44:32	77.9	16:44:32
449	2021-04-11	16:45:00	00:01:00.0	00:01:00.0	00:00:00.0	58.5	76.2	56.1	16:45:58	60.5	16:45:11	76.4	16:45:54

450	2021-04-11	16:46:00	00:01:00.0	00:01:00.0	00:00:00.0	57.6	75.4	56.5	16:46:59	58.7	16:46:37	74.9	16:46:07
451	2021-04-11	16:47:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	55.6	16:47:31	58.6	16:47:41	73.2	16:47:06
452	2021-04-11	16:48:00	00:01:00.0	00:01:00.0	00:00:00.0	57.6	75.4	56.0	16:48:22	59.3	16:48:46	73.3	16:48:46
453	2021-04-11	16:49:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	56.6	16:49:52	59.2	16:49:39	73.5	16:49:18
454	2021-04-11	16:50:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	56.3	16:50:45	62.6	16:50:29	76.0	16:50:22
455	2021-04-11	16:51:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	55.9	16:51:18	58.5	16:51:04	71.3	16:51:28
456	2021-04-11	16:52:00	00:01:00.0	00:01:00.0	00:00:00.0	60.8	78.6	56.3	16:52:16	67.2	16:52:44	83.1	16:52:44
457	2021-04-11	16:53:00	00:01:00.0	00:01:00.0	00:00:00.0	62.3	80.1	57.8	16:53:02	65.1	16:53:59	79.8	16:53:58
458	2021-04-11	16:54:00	00:01:00.0	00:01:00.0	00:00:00.0	63.9	81.6	60.4	16:54:58	66.3	16:54:10	82.6	16:54:17
459	2021-04-11	16:55:00	00:01:00.0	00:01:00.0	00:00:00.0	60.0	77.7	58.2	16:55:39	62.4	16:55:00	77.7	16:55:05
460	2021-04-11	16:56:00	00:01:00.0	00:01:00.0	00:00:00.0	58.6	76.4	57.1	16:56:57	59.8	16:56:28	74.1	16:56:20
461	2021-04-11	16:57:00	00:01:00.0	00:01:00.0	00:00:00.0	64.8	82.6	58.1	16:57:00	72.2	16:57:24	88.8	16:57:27
462	2021-04-11	16:58:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	56.9	16:58:03	60.8	16:58:57	73.6	16:58:57
463	2021-04-11	16:59:00	00:01:00.0	00:01:00.0	00:00:00.0	58.2	75.9	56.3	16:59:23	61.0	16:59:48	73.2	16:59:48
464	2021-04-11	17:00:00	00:01:00.0	00:01:00.0	00:00:00.0	57.3	75.1	56.0	17:00:13	59.1	17:00:01	72.5	17:00:07
465	2021-04-11	17:01:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	56.1	17:01:53	58.3	17:01:45	71.1	17:01:00
466	2021-04-11	17:02:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.2	55.4	17:02:05	60.0	17:02:13	73.3	17:02:13
467	2021-04-11	17:03:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.7	56.6	17:03:01	60.1	17:03:14	74.0	17:03:42
468	2021-04-11	17:04:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	56.0	17:04:06	61.2	17:04:29	78.4	17:04:24
469	2021-04-11	17:05:00	00:01:00.0	00:01:00.0	00:00:00.0	57.5	75.3	56.2	17:05:48	60.2	17:05:05	76.4	17:05:04
470	2021-04-11	17:06:00	00:01:00.0	00:01:00.0	00:00:00.0	57.9	75.7	56.4	17:06:57	61.9	17:06:30	75.1	17:06:30
471	2021-04-11	17:07:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	55.3	17:07:15	58.5	17:07:17	74.7	17:07:17
472	2021-04-11	17:08:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.6	54.9	17:08:03	61.6	17:08:36	75.9	17:08:36
473	2021-04-11	17:09:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	54.9	17:09:51	60.0	17:09:04	72.1	17:09:03
474	2021-04-11	17:10:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	54.7	17:10:06	56.9	17:10:20	70.3	17:10:19
475	2021-04-11	17:11:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.2	54.9	17:11:31	59.5	17:11:47	73.2	17:11:51
476	2021-04-11	17:12:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	55.3	17:12:12	58.9	17:12:33	72.5	17:12:02
477	2021-04-11	17:13:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	56.0	17:13:00	58.6	17:13:02	74.7	17:13:45
478	2021-04-11	17:14:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	56.5	17:14:04	64.9	17:14:44	84.5	17:14:44
479	2021-04-11	17:15:00	00:01:00.0	00:01:00.0	00:00:00.0	57.5	75.3	56.3	17:15:24	59.2	17:15:59	76.9	17:15:07
480	2021-04-11	17:16:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	56.6	17:16:23	60.5	17:16:01	76.4	17:16:11
481	2021-04-11	17:17:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.5	56.1	17:17:42	60.3	17:17:47	72.3	17:17:48
482	2021-04-11	17:18:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.5	56.3	17:18:08	61.4	17:18:33	75.6	17:18:33
483	2021-04-11	17:19:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.7	56.5	17:19:57	59.9	17:19:00	73.8	17:19:18
484	2021-04-11	17:20:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	55.3	17:20:22	61.3	17:20:29	77.7	17:20:33
485	2021-04-11	17:21:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.1	56.0	17:21:20	60.1	17:21:39	75.4	17:21:39
486	2021-04-11	17:22:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	56.3	17:22:33	59.7	17:22:20	73.5	17:22:50
487	2021-04-11	17:23:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	56.1	17:23:10	58.9	17:23:52	74.6	17:23:07
488	2021-04-11	17:24:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.1	56.7	17:24:17	62.4	17:24:28	86.7	17:24:27
489	2021-04-11	17:25:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	56.5	17:25:33	59.6	17:25:58	74.2	17:25:15
490	2021-04-11	17:26:00	00:01:00.0	00:01:00.0	00:00:00.0	58.1	75.9	57.0	17:26:28	59.6	17:26:20	74.0	17:26:10
491	2021-04-11	17:27:00	00:01:00.0	00:01:00.0	00:00:00.0	59.3	77.0	57.8	17:27:45	61.8	17:27:17	77.9	17:27:18
492	2021-04-11	17:28:00	00:01:00.0	00:01:00.0	00:00:00.0	60.1	77.9	58.2	17:28:00	62.4	17:28:13	75.3	17:28:13
493	2021-04-11	17:29:00	00:01:00.0	00:01:00.0	00:00:00.0	59.1	76.9	57.6	17:29:56	62.9	17:29:25	75.7	17:29:24
494	2021-04-11	17:30:00	00:01:00.0	00:01:00.0	00:00:00.0	58.6	76.4	57.5	17:30:43	59.8	17:30:55	81.4	17:30:54
495	2021-04-11	17:31:00	00:01:00.0	00:01:00.0	00:00:00.0	59.2	77.0	57.5	17:31:09	63.9	17:31:49	76.3	17:31:53
496	2021-04-11	17:32:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.5	57.0	17:32:01	63.6	17:32:09	76.5	17:32:08
497	2021-04-11	17:33:00	00:01:00.0	00:01:00.0	00:00:00.0	57.9	75.7	56.5	17:33:11	59.2	17:33:35	72.0	17:33:31
498	2021-04-11	17:34:00	00:01:00.0	00:01:00.0	00:00:00.0	59.0	76.8	57.6	17:34:19	61.0	17:34:31	76.5	17:34:37
499	2021-04-11	17:35:00	00:01:00.0	00:01:00.0	00:00:00.0	58.8	76.6	56.8	17:35:07	61.0	17:35:43	77.4	17:35:25
500	2021-04-11	17:36:00	00:01:00.0	00:01:00.0	00:00:00.0	59.5	77.2	57.2	17:36:24	62.6	17:36:47	76.6	17:36:33
501	2021-04-11	17:37:00	00:01:00.0	00:01:00.0	00:00:00.0	58.6	76.4	57.1	17:37:14	62.1	17:37:28	77.7	17:37:28
502	2021-04-11	17:38:00	00:01:00.0	00:01:00.0	00:00:00.0	60.1	77.8	58.0	17:38:00	63.5	17:38:31	79.5	17:38:31
503	2021-04-11	17:39:00	00:01:00.0	00:01:00.0	00:00:00.0	58.7	76.5	56.7	17:39:40	60.9	17:39:18	76.4	17:39:13
504	2021-04-11	17:40:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.7	56.7	17:40:25	59.3	17:40:41	72.0	17:40:01
505	2021-04-11	17:41:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	54.9	17:41:37	58.5	17:41:05	73.4	17:41:05
506	2021-04-11	17:42:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	54.1	17:42:12	58.5	17:42:42	72.4	17:42:56
507	2021-04-11	17:43:00	00:01:00.0	00:01:00.0	00:00:00.0	59.0	76.8	56.0	17:43:59	60.9	17:43:41	75.1	17:43:41
508	2021-04-11	17:44:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.5	55.4	17:44:25	58.3	17:44:10	75.2	17:44:30
509	2021-04-11	17:45:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	55.4	17:45:52	58.8	17:45:32	72.7	17:45:46
510	2021-04-11	17:46:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	55.7	17:46:38	59.1	17:46:12	71.5	17:46:46
511	2021-04-11	17:47:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	54.6	17:47:44	58.3	17:47:10	71.1	17:47:17
512	2021-04-11	17:48:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.6	54.9	17:48:00	58.1	17:48:25	76.5	17:48:31
513	2021-04-11	17:49:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	55.3	17:49:03	59.1	17:49:21	75.3	17:49:10
514	2021-04-11	17:50:00	00:01:00.0	00:01:00.0	00:00:00.0	57.5	75.3	55.2	17:50:04	59.5	17:50:37	80.2	17:50:29
515	2021-04-11	17:51:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.6	55.2	17:51:18	58.7	17:51:36	71.5	17:51:39
516	2021-04-11	17:52:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	55.4	17:52:43	59.4	17:52:13	75.5	17:52:59
517	2021-04-11	17:53:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.1	56.8	17:53:04	60.0	17:53:51	75.5	17:53:00
518	2021-04-11	17:54:00	00:01:00.0	00:01:00.0	00:00:00.0	58.1	75.9	57.0	17:54:43	60.1	17:54:29	74.2	17:54:34
519	2021-04-11	17:55:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	56.9	17:55:03	59.7	17:55:36	75.0	17:55:06
520	2021-04-11	17:56:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.8	54.7	17:56:55	59.1	17:56:04	73.1	17:56:43
521	2021-04-11	17:57:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	54.7	17:57:04	57.7	17:57:37	71.2	17:57:55
522	2021-04-11	17:58:00	00:01:00.0	00:01:00.0	00:00:00.0	58.4	76.2	54.2	17:58:47	64.1	17:58:27	78.9	17:58:27
523	2021-04-11	17:59:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.5	54.8	17:59:00	57.6	17:59:26	73.6	17:59:58
524	2021-04-11	18:00:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	54.7	18:00:24	59.0	18:00:50	75.9	18:00:38

525	2021-04-11	18:01:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.2	54.7	18:01:31	60.3	18:01:54	83.2	18:01:44
526	2021-04-11	18:02:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.6	55.3	18:02:04	60.8	18:02:57	79.8	18:02:01
527	2021-04-11	18:03:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	55.1	18:03:48	58.0	18:03:53	73.0	18:03:24
528	2021-04-11	18:04:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	55.8	18:04:37	59.0	18:04:05	77.2	18:04:28
529	2021-04-11	18:05:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	55.8	18:05:38	58.3	18:05:18	74.4	18:05:57
530	2021-04-11	18:06:00	00:01:00.0	00:01:00.0	00:00:00.0	57.3	75.0	56.1	18:06:03	59.4	18:06:36	74.5	18:06:11
531	2021-04-11	18:07:00	00:01:00.0	00:01:00.0	00:00:00.0	57.5	75.3	56.5	18:07:59	59.5	18:07:51	74.0	18:07:00
532	2021-04-11	18:08:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	55.2	18:08:52	63.8	18:08:09	77.2	18:08:09
533	2021-04-11	18:09:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.1	54.4	18:09:55	57.7	18:09:10	77.8	18:09:48
534	2021-04-11	18:10:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	52.9	18:10:59	56.6	18:10:43	73.9	18:10:33
535	2021-04-11	18:11:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	52.4	18:11:48	55.0	18:11:59	72.5	18:11:10
536	2021-04-11	18:12:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	54.3	18:12:28	56.1	18:12:23	73.1	18:12:23
537	2021-04-11	18:13:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.6	54.3	18:13:53	62.4	18:13:33	76.3	18:13:35
538	2021-04-11	18:14:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	55.1	18:14:05	57.7	18:14:46	70.2	18:14:32
539	2021-04-11	18:15:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	55.3	18:15:54	57.9	18:15:28	70.6	18:15:27
540	2021-04-11	18:16:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.7	54.5	18:16:52	58.7	18:16:07	74.9	18:16:07
541	2021-04-11	18:17:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	54.3	18:17:57	59.1	18:17:28	74.1	18:17:32
542	2021-04-11	18:18:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	54.3	18:18:02	58.5	18:18:51	73.1	18:18:39
543	2021-04-11	18:19:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	55.1	18:19:41	60.3	18:19:36	73.4	18:19:10
544	2021-04-11	18:20:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	54.3	18:20:36	57.8	18:20:56	71.5	18:20:18
545	2021-04-11	18:21:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	54.0	18:21:52	61.4	18:21:59	76.7	18:21:59
546	2021-04-11	18:22:00	00:01:00.0	00:01:00.0	00:00:00.0	57.9	75.7	53.8	18:22:29	63.7	18:22:01	77.0	18:22:00
547	2021-04-11	18:23:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	53.5	18:23:34	56.7	18:23:52	71.1	18:23:52
548	2021-04-11	18:24:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	53.2	18:24:09	55.9	18:24:27	70.1	18:24:10
549	2021-04-11	18:25:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	52.7	18:25:35	57.4	18:25:59	76.7	18:25:50
550	2021-04-11	18:26:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.7	53.5	18:26:29	57.4	18:26:00	73.5	18:26:22
551	2021-04-11	18:27:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.5	54.5	18:27:05	59.3	18:27:31	73.3	18:27:19
552	2021-04-11	18:28:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	55.1	18:28:27	58.1	18:28:15	71.6	18:28:14
553	2021-04-11	18:29:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	55.1	18:29:41	58.5	18:29:04	73.2	18:29:59
554	2021-04-11	18:30:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	55.6	18:30:48	58.5	18:30:24	73.2	18:30:00
555	2021-04-11	18:31:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.4	54.4	18:31:27	57.0	18:31:00	73.4	18:31:04
556	2021-04-11	18:32:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	54.9	18:32:22	58.9	18:32:49	73.8	18:32:34
557	2021-04-11	18:33:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	55.3	18:33:42	58.7	18:33:18	72.2	18:33:18
558	2021-04-11	18:34:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	54.5	18:34:36	58.3	18:34:14	71.8	18:34:56
559	2021-04-11	18:35:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	54.0	18:35:51	59.1	18:35:10	75.4	18:35:16
560	2021-04-11	18:36:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	53.5	18:36:12	58.7	18:36:23	73.1	18:36:32
561	2021-04-11	18:37:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	54.3	18:37:43	59.2	18:37:54	75.7	18:37:54
562	2021-04-11	18:38:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	55.5	18:38:56	60.3	18:38:04	77.1	18:38:03
563	2021-04-11	18:39:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	56.0	18:39:16	59.0	18:39:26	73.0	18:39:26
564	2021-04-11	18:40:00	00:01:00.0	00:01:00.0	00:00:00.0	56.8	74.5	55.5	18:40:23	58.7	18:40:32	73.0	18:40:14
565	2021-04-11	18:41:00	00:01:00.0	00:01:00.0	00:00:00.0	57.5	75.3	56.2	18:41:29	60.5	18:41:23	76.2	18:41:22
566	2021-04-11	18:42:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	55.2	18:42:57	59.1	18:42:23	72.7	18:42:23
567	2021-04-11	18:43:00	00:01:00.0	00:01:00.0	00:00:00.0	58.8	76.6	54.6	18:43:27	67.8	18:43:48	80.8	18:43:47
568	2021-04-11	18:44:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	54.2	18:44:30	62.8	18:44:07	77.3	18:44:07
569	2021-04-11	18:45:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	54.2	18:45:49	56.2	18:45:03	69.4	18:45:38
570	2021-04-11	18:46:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	53.0	18:46:40	58.4	18:46:59	70.6	18:46:59
571	2021-04-11	18:47:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	53.8	18:47:29	58.3	18:47:00	72.3	18:47:21
572	2021-04-11	18:48:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	54.2	18:48:11	59.0	18:48:55	73.4	18:48:55
573	2021-04-11	18:49:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	55.5	18:49:41	59.9	18:49:59	72.6	18:49:57
574	2021-04-11	18:50:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	55.3	18:50:30	59.7	18:50:00	74.6	18:50:12
575	2021-04-11	18:51:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	55.5	18:51:59	58.8	18:51:27	72.1	18:51:26
576	2021-04-11	18:52:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.8	55.1	18:52:00	60.8	18:52:15	76.9	18:52:14
577	2021-04-11	18:53:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	55.0	18:53:59	57.2	18:53:15	71.4	18:53:09
578	2021-04-11	18:54:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	54.2	18:54:51	61.5	18:54:22	78.1	18:54:07
579	2021-04-11	18:55:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	55.4	18:55:01	61.6	18:55:55	78.5	18:55:06
580	2021-04-11	18:56:00	00:01:00.0	00:01:00.0	00:00:00.0	58.5	76.3	55.6	18:56:17	62.9	18:56:58	78.7	18:56:45
581	2021-04-11	18:57:00	00:01:00.0	00:01:00.0	00:00:00.0	58.6	76.4	56.6	18:57:47	61.5	18:57:06	78.9	18:57:06
582	2021-04-11	18:58:00	00:01:00.0	00:01:00.0	00:00:00.0	63.0	80.8	54.3	18:58:59	67.5	18:58:19	82.6	18:58:11
583	2021-04-11	18:59:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	53.7	18:59:03	61.1	18:59:32	77.7	18:59:10
584	2021-04-11	19:00:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	55.1	19:00:31	60.9	19:00:07	81.3	19:00:03
585	2021-04-11	19:01:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	53.6	19:01:23	59.5	19:01:52	78.9	19:01:52
586	2021-04-11	19:02:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.2	54.7	19:02:52	58.6	19:02:13	72.4	19:02:13
587	2021-04-11	19:03:00	00:01:00.0	00:01:00.0	00:00:00.0	57.9	75.7	55.4	19:03:07	63.7	19:03:26	79.5	19:03:25
588	2021-04-11	19:04:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	55.5	19:04:09	58.9	19:04:34	74.0	19:04:34
589	2021-04-11	19:05:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	55.3	19:05:26	57.3	19:05:36	73.1	19:05:21
590	2021-04-11	19:06:00	00:01:00.0	00:01:00.0	00:00:00.0	65.4	83.2	55.6	19:06:05	71.3	19:06:39	87.1	19:06:39
591	2021-04-11	19:07:00	00:01:00.0	00:01:00.0	00:00:00.0	59.4	77.2	55.1	19:07:59	62.7	19:07:29	79.0	19:07:28
592	2021-04-11	19:08:00	00:01:00.0	00:01:00.0	00:00:00.0	56.5	74.3	55.1	19:08:07	60.7	19:08:56	76.3	19:08:56
593	2021-04-11	19:09:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.2	56.0	19:09:20	61.0	19:09:03	76.0	19:09:03
594	2021-04-11	19:10:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.0	54.7	19:10:52	58.1	19:10:30	71.4	19:10:32
595	2021-04-11	19:11:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.7	53.6	19:11:45	56.7	19:11:56	69.6	19:11:56
596	2021-04-11	19:12:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.0	55.1	19:12:51	57.5	19:12:07	70.4	19:12:10
597	2021-04-11	19:13:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	53.5	19:13:37	57.9	19:13:01	71.3	19:13:15
598	2021-04-11	19:14:00	00:01:00.0	00:01:00.0	00:00:00.0	58.2	76.0	54.1	19:14:00	61.9	19:14:44	76.5	19:14:39
599	2021-04-11	19:15:00	00:01:00.0	00:01:00.0	00:00:00.0	57.3	75.0	54.3	19:15:38	61.0	19:15:07	75.0	19:15:10

600	2021-04-11	19:16:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.6	54.5	19:16:24	58.1	19:16:48	70.9	19:16:47
601	2021-04-11	19:17:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.5	55.0	19:17:36	60.2	19:17:57	74.8	19:17:56
602	2021-04-11	19:18:00	00:01:00.0	00:01:00.0	00:00:00.0	64.3	82.1	57.3	19:18:06	70.2	19:18:36	85.2	19:18:38
603	2021-04-11	19:19:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	55.4	19:19:57	60.0	19:19:28	73.5	19:19:25
604	2021-04-11	19:20:00	00:01:00.0	00:01:00.0	00:00:00.0	58.9	76.7	55.5	19:20:03	64.1	19:20:56	77.7	19:20:55
605	2021-04-11	19:21:00	00:01:00.0	00:01:00.0	00:00:00.0	59.0	76.8	54.8	19:21:43	64.7	19:21:02	80.6	19:21:00
606	2021-04-11	19:22:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	55.2	19:22:58	59.6	19:22:11	74.5	19:22:58
607	2021-04-11	19:23:00	00:01:00.0	00:01:00.0	00:00:00.0	57.7	75.5	55.7	19:23:13	60.0	19:23:02	75.7	19:23:00
608	2021-04-11	19:24:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	54.2	19:24:54	57.6	19:24:08	70.6	19:24:59
609	2021-04-11	19:25:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.7	54.7	19:25:57	57.9	19:25:51	70.8	19:25:51
610	2021-04-11	19:26:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	54.6	19:26:06	58.1	19:26:53	73.6	19:26:53
611	2021-04-11	19:27:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	55.0	19:27:23	61.0	19:27:04	76.0	19:27:04
612	2021-04-11	19:28:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	54.1	19:28:13	60.7	19:28:18	74.0	19:28:18
613	2021-04-11	19:29:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	54.0	19:29:23	57.4	19:29:04	69.9	19:29:01
614	2021-04-11	19:30:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	54.1	19:30:24	56.1	19:30:57	69.2	19:30:57
615	2021-04-11	19:31:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	54.9	19:31:10	59.3	19:31:56	73.6	19:31:50
616	2021-04-11	19:32:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.5	54.8	19:32:47	59.5	19:32:57	75.0	19:32:12
617	2021-04-11	19:33:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	54.6	19:33:30	57.2	19:33:51	69.7	19:33:51
618	2021-04-11	19:34:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	52.9	19:34:31	56.3	19:34:57	69.4	19:34:06
619	2021-04-11	19:35:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	53.4	19:35:36	56.8	19:35:03	70.0	19:35:07
620	2021-04-11	19:36:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	53.0	19:36:04	55.0	19:36:42	78.5	19:36:49
621	2021-04-11	19:37:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	53.2	19:37:00	57.2	19:37:55	71.1	19:37:54
622	2021-04-11	19:38:00	00:01:00.0	00:01:00.0	00:00:00.0	57.0	74.8	54.1	19:38:01	62.4	19:38:18	80.4	19:38:07
623	2021-04-11	19:39:00	00:01:00.0	00:01:00.0	00:00:00.0	61.1	78.9	56.1	19:39:07	65.7	19:39:50	80.5	19:39:50
624	2021-04-11	19:40:00	00:01:00.0	00:01:00.0	00:00:00.0	58.0	75.8	53.5	19:40:57	65.0	19:40:01	80.7	19:40:01
625	2021-04-11	19:41:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	53.3	19:41:12	55.6	19:41:42	69.4	19:41:36
626	2021-04-11	19:42:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	52.9	19:42:26	55.5	19:42:34	70.0	19:42:33
627	2021-04-11	19:43:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.4	52.4	19:43:39	55.5	19:43:59	68.3	19:43:58
628	2021-04-11	19:44:00	00:01:00.0	00:01:00.0	00:00:00.0	59.7	77.5	53.9	19:44:58	64.3	19:44:36	78.8	19:44:36
629	2021-04-11	19:45:00	00:01:00.0	00:01:00.0	00:00:00.0	58.9	76.7	54.0	19:45:10	63.9	19:45:59	79.2	19:45:43
630	2021-04-11	19:46:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	54.4	19:46:18	63.2	19:46:00	76.5	19:46:00
631	2021-04-11	19:47:00	00:01:00.0	00:01:00.0	00:00:00.0	59.2	77.0	54.4	19:47:45	62.9	19:47:18	81.2	19:47:02
632	2021-04-11	19:48:00	00:01:00.0	00:01:00.0	00:00:00.0	59.7	77.5	55.5	19:48:12	63.8	19:48:55	76.9	19:48:45
633	2021-04-11	19:49:00	00:01:00.0	00:01:00.0	00:00:00.0	57.8	75.6	55.4	19:49:54	62.1	19:49:00	76.8	19:49:03
634	2021-04-11	19:50:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	53.5	19:50:39	56.6	19:50:00	69.4	19:50:33
635	2021-04-11	19:51:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	53.0	19:51:59	57.0	19:51:07	70.1	19:51:30
636	2021-04-11	19:52:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	52.5	19:52:02	57.0	19:52:33	74.8	19:52:25
637	2021-04-11	19:53:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	53.3	19:53:56	57.1	19:53:17	81.4	19:53:17
638	2021-04-11	19:54:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	53.5	19:54:00	56.9	19:54:37	81.2	19:54:35
639	2021-04-11	19:55:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	52.6	19:55:21	55.5	19:55:00	67.6	19:55:03
640	2021-04-11	19:56:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.7	19:56:45	55.3	19:56:04	68.6	19:56:03
641	2021-04-11	19:57:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	51.2	19:57:21	62.7	19:57:43	80.0	19:57:42
642	2021-04-11	19:58:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	52.3	19:58:15	55.4	19:58:58	73.8	19:58:20
643	2021-04-11	19:59:00	00:01:00.0	00:01:00.0	00:00:00.0	62.5	80.2	54.3	19:59:17	69.2	19:59:52	84.4	19:59:51
644	2021-04-11	20:00:00	00:01:00.0	00:01:00.0	00:00:00.0	60.1	77.9	54.3	20:00:59	67.9	20:00:04	82.1	20:00:00
645	2021-04-11	20:01:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	52.6	20:01:57	54.5	20:01:33	68.3	20:01:14
646	2021-04-11	20:02:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	52.4	20:02:01	59.2	20:02:38	71.8	20:02:37
647	2021-04-11	20:03:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	51.5	20:03:40	55.0	20:03:02	67.3	20:03:00
648	2021-04-11	20:04:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.2	52.3	20:04:00	55.6	20:04:59	68.8	20:04:59
649	2021-04-11	20:05:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.3	52.5	20:05:31	57.5	20:05:58	71.1	20:05:57
650	2021-04-11	20:06:00	00:01:00.0	00:01:00.0	00:00:00.0	61.1	78.9	54.0	20:06:53	67.0	20:06:22	83.8	20:06:21
651	2021-04-11	20:07:00	00:01:00.0	00:01:00.0	00:00:00.0	57.4	75.2	54.0	20:07:10	60.9	20:07:51	74.1	20:07:56
652	2021-04-11	20:08:00	00:01:00.0	00:01:00.0	00:00:00.0	60.4	78.1	54.0	20:08:20	66.7	20:08:45	84.5	20:08:45
653	2021-04-11	20:09:00	00:01:00.0	00:01:00.0	00:00:00.0	59.7	77.5	54.2	20:09:53	66.3	20:09:04	81.7	20:09:04
654	2021-04-11	20:10:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	51.9	20:10:58	54.8	20:10:16	67.9	20:10:15
655	2021-04-11	20:11:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	51.4	20:11:05	55.5	20:11:40	68.6	20:11:40
656	2021-04-11	20:12:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	52.0	20:12:58	56.8	20:12:08	74.5	20:12:54
657	2021-04-11	20:13:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	51.3	20:13:54	56.1	20:13:38	74.7	20:13:09
658	2021-04-11	20:14:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.1	51.7	20:14:57	57.6	20:14:09	75.5	20:14:31
659	2021-04-11	20:15:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	51.9	20:15:00	56.9	20:15:23	80.6	20:15:23
660	2021-04-11	20:16:00	00:01:00.0	00:01:00.0	00:00:00.0	55.3	73.0	52.1	20:16:58	61.9	20:16:21	80.1	20:16:00
661	2021-04-11	20:17:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.3	20:17:37	54.4	20:17:50	69.9	20:17:58
662	2021-04-11	20:18:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	52.4	20:18:00	63.8	20:18:50	75.5	20:18:50
663	2021-04-11	20:19:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.7	52.1	20:19:28	54.1	20:19:23	74.6	20:19:23
664	2021-04-11	20:20:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	51.7	20:20:57	54.6	20:20:24	75.7	20:20:22
665	2021-04-11	20:21:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	51.9	20:21:04	55.6	20:21:17	73.6	20:21:22
666	2021-04-11	20:22:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	52.4	20:22:01	56.1	20:22:30	76.8	20:22:30
667	2021-04-11	20:23:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.3	20:23:57	56.4	20:23:05	76.3	20:23:08
668	2021-04-11	20:24:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	50.6	20:24:00	59.0	20:24:38	73.4	20:24:59
669	2021-04-11	20:25:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	51.7	20:25:57	56.5	20:25:45	79.6	20:25:23
670	2021-04-11	20:26:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	52.0	20:26:01	58.8	20:26:04	81.7	20:26:10
671	2021-04-11	20:27:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	52.0	20:27:19	56.4	20:27:00	76.5	20:27:00
672	2021-04-11	20:28:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	52.0	20:28:00	58.5	20:28:59	79.8	20:28:59
673	2021-04-11	20:29:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	50.8	20:29:35	59.4	20:29:45	84.4	20:29:45
674	2021-04-11	20:30:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	51.8	20:30:01	63.3	20:30:48	80.4	20:30:26

675	2021-04-11	20:31:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.4	51.6	20:31:27	57.5	20:31:00	72.6	20:31:33
676	2021-04-11	20:32:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	50.9	20:32:59	53.4	20:32:33	71.7	20:32:09
677	2021-04-11	20:33:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	50.4	20:33:09	52.1	20:33:05	65.5	20:33:57
678	2021-04-11	20:34:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.9	51.1	20:34:00	55.4	20:34:52	70.8	20:34:17
679	2021-04-11	20:35:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	51.5	20:35:59	54.3	20:35:43	69.9	20:35:42
680	2021-04-11	20:36:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.0	20:36:08	55.8	20:36:35	73.5	20:36:15
681	2021-04-11	20:37:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.8	50.9	20:37:50	53.8	20:37:00	72.6	20:37:51
682	2021-04-11	20:38:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	50.4	20:38:15	52.3	20:38:06	68.9	20:38:17
683	2021-04-11	20:39:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	50.1	20:39:44	52.1	20:39:18	65.8	20:39:31
684	2021-04-11	20:40:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	50.4	20:40:25	51.9	20:40:54	66.4	20:40:35
685	2021-04-11	20:41:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.7	20:41:00	54.3	20:41:56	66.2	20:41:56
686	2021-04-11	20:42:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	51.3	20:42:33	53.4	20:42:46	67.9	20:42:28
687	2021-04-11	20:43:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.0	51.9	20:43:00	55.2	20:43:15	69.2	20:43:15
688	2021-04-11	20:44:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	52.2	20:44:07	54.3	20:44:32	67.6	20:44:32
689	2021-04-11	20:45:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	52.4	20:45:10	55.1	20:45:52	67.9	20:45:45
690	2021-04-11	20:46:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.6	51.6	20:46:43	56.0	20:46:54	68.5	20:46:54
691	2021-04-11	20:47:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	52.1	20:47:59	67.7	20:47:31	81.5	20:47:30
692	2021-04-11	20:48:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.9	20:48:01	53.6	20:48:37	67.3	20:48:32
693	2021-04-11	20:49:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	50.9	20:49:29	53.7	20:49:10	66.1	20:49:06
694	2021-04-11	20:50:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.8	20:50:41	54.0	20:50:21	67.6	20:50:25
695	2021-04-11	20:51:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	70.9	51.8	20:51:23	54.6	20:51:37	67.3	20:51:36
696	2021-04-11	20:52:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.4	53.5	20:52:23	55.9	20:52:40	68.4	20:52:27
697	2021-04-11	20:53:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	53.1	20:53:20	56.3	20:53:09	68.7	20:53:05
698	2021-04-11	20:54:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.7	53.0	20:54:51	56.4	20:54:04	69.2	20:54:03
699	2021-04-11	20:55:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	53.2	20:55:05	56.4	20:55:27	70.7	20:55:19
700	2021-04-11	20:56:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	54.2	20:56:56	57.0	20:56:21	69.6	20:56:59
701	2021-04-11	20:57:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	53.8	20:57:25	58.3	20:57:11	70.8	20:57:11
702	2021-04-11	20:58:00	00:01:00.0	00:01:00.0	00:00:00.0	57.3	75.1	53.8	20:58:03	66.3	20:58:21	82.0	20:58:22
703	2021-04-11	20:59:00	00:01:00.0	00:01:00.0	00:00:00.0	58.9	76.7	53.1	20:59:30	70.4	20:59:59	82.7	20:59:58
704	2021-04-11	21:00:00	00:01:00.0	00:01:00.0	00:00:00.0	65.1	82.9	54.2	21:00:55	78.1	21:00:02	91.1	21:00:02
705	2021-04-11	21:01:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	53.3	21:01:41	55.6	21:01:20	69.2	21:01:14
706	2021-04-11	21:02:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	53.1	21:02:47	55.6	21:02:59	68.8	21:02:58
707	2021-04-11	21:03:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	54.2	21:03:57	56.8	21:03:09	69.2	21:03:35
708	2021-04-11	21:04:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	53.1	21:04:28	55.4	21:04:43	69.2	21:04:43
709	2021-04-11	21:05:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	53.2	21:05:40	56.2	21:05:08	70.3	21:05:18
710	2021-04-11	21:06:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	52.5	21:06:25	56.7	21:06:49	69.4	21:06:44
711	2021-04-11	21:07:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	52.9	21:07:44	56.2	21:07:12	69.4	21:07:12
712	2021-04-11	21:08:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	53.2	21:08:14	56.0	21:08:46	69.8	21:08:46
713	2021-04-11	21:09:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	51.9	21:09:45	55.4	21:09:09	70.1	21:09:28
714	2021-04-11	21:10:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.3	52.4	21:10:18	55.7	21:10:57	69.7	21:10:57
715	2021-04-11	21:11:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	52.3	21:11:54	57.5	21:11:20	69.7	21:11:20
716	2021-04-11	21:12:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	52.5	21:12:00	56.0	21:12:38	71.1	21:12:33
717	2021-04-11	21:13:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	52.3	21:13:09	55.2	21:13:56	68.8	21:13:55
718	2021-04-11	21:14:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	52.2	21:14:40	57.0	21:14:48	69.2	21:14:47
719	2021-04-11	21:15:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.0	52.2	21:15:58	55.8	21:15:33	69.1	21:15:17
720	2021-04-11	21:16:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.4	51.9	21:16:03	56.3	21:16:24	69.5	21:16:24
721	2021-04-11	21:17:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	52.5	21:17:00	55.8	21:17:14	71.3	21:17:14
722	2021-04-11	21:18:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	52.5	21:18:17	57.0	21:18:59	71.1	21:18:56
723	2021-04-11	21:19:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.4	53.9	21:19:59	58.6	21:19:48	71.8	21:19:01
724	2021-04-11	21:20:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	51.8	21:20:20	55.8	21:20:00	69.6	21:20:00
725	2021-04-11	21:21:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	51.1	21:21:24	55.5	21:21:45	67.9	21:21:44
726	2021-04-11	21:22:00	00:01:00.0	00:01:00.0	00:00:00.0	54.0	71.8	51.2	21:22:04	58.2	21:22:33	70.8	21:22:33
727	2021-04-11	21:23:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	52.9	21:23:34	57.6	21:23:58	72.4	21:23:57
728	2021-04-11	21:24:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.8	51.4	21:24:27	55.7	21:24:00	68.2	21:24:00
729	2021-04-11	21:25:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	52.1	21:25:46	55.7	21:25:15	68.9	21:25:14
730	2021-04-11	21:26:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	52.6	21:26:00	57.7	21:26:55	73.8	21:26:55
731	2021-04-11	21:27:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	52.8	21:27:50	58.6	21:27:03	74.6	21:27:12
732	2021-04-11	21:28:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	53.0	21:28:51	55.6	21:28:14	68.6	21:28:20
733	2021-04-11	21:29:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	53.7	21:29:00	58.3	21:29:59	71.4	21:29:06
734	2021-04-11	21:30:00	00:01:00.0	00:01:00.0	00:00:00.0	59.4	77.2	56.2	21:30:57	63.2	21:30:40	75.0	21:30:41
735	2021-04-11	21:31:00	00:01:00.0	00:01:00.0	00:00:00.0	57.1	74.9	53.2	21:31:51	60.3	21:31:11	72.9	21:31:11
736	2021-04-11	21:32:00	00:01:00.0	00:01:00.0	00:00:00.0	60.1	77.9	55.1	21:32:00	65.6	21:32:53	79.9	21:32:50
737	2021-04-11	21:33:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	52.4	21:33:44	62.7	21:33:00	77.3	21:33:00
738	2021-04-11	21:34:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	53.5	21:34:08	56.4	21:34:53	69.9	21:34:54
739	2021-04-11	21:35:00	00:01:00.0	00:01:00.0	00:00:00.0	54.5	72.3	52.4	21:35:48	56.8	21:35:05	69.5	21:35:03
740	2021-04-11	21:36:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.5	52.9	21:36:00	56.1	21:36:28	70.1	21:36:30
741	2021-04-11	21:37:00	00:01:00.0	00:01:00.0	00:00:00.0	64.0	81.8	54.5	21:37:07	72.7	21:37:37	86.4	21:37:37
742	2021-04-11	21:38:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	52.7	21:38:59	57.7	21:38:38	71.7	21:38:38
743	2021-04-11	21:39:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	51.6	21:39:22	53.9	21:39:57	67.6	21:39:34
744	2021-04-11	21:40:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	51.7	21:40:14	55.0	21:40:53	69.4	21:40:53
745	2021-04-11	21:41:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	52.5	21:41:28	56.0	21:41:17	67.9	21:41:16
746	2021-04-11	21:42:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	51.0	21:42:59	54.4	21:42:29	66.7	21:42:29
747	2021-04-11	21:43:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	51.1	21:43:00	56.1	21:43:52	69.7	21:43:51
748	2021-04-11	21:44:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	51.6	21:44:41	56.1	21:44:04	68.7	21:44:20
749	2021-04-11	21:45:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	52.6	21:45:01	55.6	21:45:24	68.7	21:45:46

750	2021-04-11	21:46:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.5	50.7	21:46:59	57.8	21:46:34	69.6	21:46:33
751	2021-04-11	21:47:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	50.6	21:47:00	55.4	21:47:13	68.6	21:47:12
752	2021-04-11	21:48:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	51.2	21:48:44	54.6	21:48:12	67.9	21:48:12
753	2021-04-11	21:49:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	51.3	21:49:32	54.4	21:49:41	69.1	21:49:41
754	2021-04-11	21:50:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.5	51.3	21:50:59	57.6	21:50:21	71.0	21:50:20
755	2021-04-11	21:51:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	51.3	21:51:03	54.5	21:51:27	70.1	21:51:26
756	2021-04-11	21:52:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	50.9	21:52:17	56.0	21:52:53	68.9	21:52:53
757	2021-04-11	21:53:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	51.2	21:53:47	55.1	21:53:01	67.2	21:53:01
758	2021-04-11	21:54:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	51.3	21:54:38	53.6	21:54:17	68.3	21:54:30
759	2021-04-11	21:55:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	52.3	21:55:05	55.4	21:55:27	70.5	21:55:11
760	2021-04-11	21:56:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	50.9	21:56:56	54.3	21:56:06	67.5	21:56:03
761	2021-04-11	21:57:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	51.3	21:57:20	53.7	21:57:40	66.5	21:57:51
762	2021-04-11	21:58:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	51.1	21:58:29	53.1	21:58:12	66.7	21:58:00
763	2021-04-11	21:59:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.8	21:59:37	53.0	21:59:00	66.4	21:59:00
764	2021-04-11	22:00:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	50.4	22:00:05	56.8	22:00:43	69.7	22:00:42
765	2021-04-11	22:01:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	50.3	22:01:59	53.6	22:01:30	67.6	22:01:39
766	2021-04-11	22:02:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	50.5	22:02:00	52.6	22:02:42	69.3	22:02:04
767	2021-04-11	22:03:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	49.0	22:03:32	51.6	22:03:59	64.1	22:03:25
768	2021-04-11	22:04:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.6	22:04:16	53.2	22:04:50	66.9	22:04:58
769	2021-04-11	22:05:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	51.7	22:05:37	54.1	22:05:59	67.5	22:05:40
770	2021-04-11	22:06:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.6	22:06:45	54.2	22:06:00	67.5	22:06:11
771	2021-04-11	22:07:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	52.4	22:07:55	56.4	22:07:24	70.5	22:07:24
772	2021-04-11	22:08:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.0	50.7	22:08:48	53.1	22:08:09	66.2	22:08:59
773	2021-04-11	22:09:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	51.0	22:09:35	53.2	22:09:16	68.7	22:09:50
774	2021-04-11	22:10:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.6	22:10:46	53.1	22:10:36	65.5	22:10:19
775	2021-04-11	22:11:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	50.8	22:11:24	57.9	22:11:52	69.8	22:11:52
776	2021-04-11	22:12:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	51.5	22:12:08	57.5	22:12:37	70.2	22:12:35
777	2021-04-11	22:13:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.6	49.5	22:13:59	55.2	22:13:00	67.1	22:13:00
778	2021-04-11	22:14:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.4	49.4	22:14:50	51.5	22:14:21	65.2	22:14:41
779	2021-04-11	22:15:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.5	49.1	22:15:12	55.1	22:15:40	69.0	22:15:39
780	2021-04-11	22:16:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	51.0	22:16:42	54.9	22:16:46	67.3	22:16:06
781	2021-04-11	22:17:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.7	22:17:47	52.9	22:17:26	65.8	22:17:39
782	2021-04-11	22:18:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	50.5	22:18:04	52.1	22:18:43	66.2	22:18:48
783	2021-04-11	22:19:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	50.0	22:19:36	52.1	22:19:57	65.4	22:19:42
784	2021-04-11	22:20:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	51.1	22:20:32	60.3	22:20:54	73.8	22:20:59
785	2021-04-11	22:21:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.3	51.4	22:21:57	62.2	22:21:05	76.3	22:21:04
786	2021-04-11	22:22:00	00:01:00.0	00:01:00.0	00:00:00.0	55.3	73.1	51.7	22:22:49	59.7	22:22:28	75.6	22:22:10
787	2021-04-11	22:23:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	52.0	22:23:06	59.7	22:23:40	78.2	22:23:39
788	2021-04-11	22:24:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	51.8	22:24:59	57.0	22:24:01	70.4	22:24:00
789	2021-04-11	22:25:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.9	22:25:03	53.8	22:25:21	67.8	22:25:21
790	2021-04-11	22:26:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	49.5	22:26:52	53.9	22:26:16	66.4	22:26:16
791	2021-04-11	22:27:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	50.0	22:27:00	58.8	22:27:46	72.7	22:27:46
792	2021-04-11	22:28:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	50.2	22:28:23	53.9	22:28:00	65.5	22:28:00
793	2021-04-11	22:29:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	51.5	22:29:08	57.8	22:29:42	69.8	22:29:38
794	2021-04-11	22:30:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.3	49.2	22:30:16	56.2	22:30:05	70.1	22:30:03
795	2021-04-11	22:31:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	52.7	22:31:32	55.7	22:31:53	67.9	22:31:53
796	2021-04-11	22:32:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.2	50.6	22:32:54	54.8	22:32:10	67.4	22:32:08
797	2021-04-11	22:33:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	50.7	22:33:45	55.5	22:33:59	68.6	22:33:59
798	2021-04-11	22:34:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	51.4	22:34:04	54.4	22:34:09	68.6	22:34:00
799	2021-04-11	22:35:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	50.6	22:35:41	52.3	22:35:00	65.7	22:35:19
800	2021-04-11	22:36:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.1	51.2	22:36:44	58.7	22:36:17	75.4	22:36:17
801	2021-04-11	22:37:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.3	51.8	22:37:21	56.1	22:37:00	71.8	22:37:00
802	2021-04-11	22:38:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	51.8	22:38:37	54.6	22:38:04	68.3	22:38:04
803	2021-04-11	22:39:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	51.2	22:39:25	53.9	22:39:54	68.4	22:39:07
804	2021-04-11	22:40:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	70.9	51.0	22:40:31	58.9	22:40:09	71.8	22:40:09
805	2021-04-11	22:41:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	50.2	22:41:59	55.4	22:41:28	68.9	22:41:28
806	2021-04-11	22:42:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	50.1	22:42:00	53.7	22:42:54	66.7	22:42:22
807	2021-04-11	22:43:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.7	49.7	22:43:46	54.8	22:43:07	66.8	22:43:00
808	2021-04-11	22:44:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.5	22:44:01	53.7	22:44:36	66.0	22:44:40
809	2021-04-11	22:45:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	50.9	22:45:30	54.8	22:45:44	67.5	22:45:59
810	2021-04-11	22:46:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	48.4	22:46:58	55.5	22:46:15	68.2	22:46:14
811	2021-04-11	22:47:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.0	22:47:00	52.0	22:47:29	65.2	22:47:28
812	2021-04-11	22:48:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	49.1	22:48:22	51.7	22:48:26	63.9	22:48:18
813	2021-04-11	22:49:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	49.4	22:49:59	51.4	22:49:02	64.5	22:49:43
814	2021-04-11	22:50:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	48.9	22:50:59	52.5	22:50:26	65.8	22:50:25
815	2021-04-11	22:51:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.3	47.7	22:51:04	49.9	22:51:59	62.7	22:51:58
816	2021-04-11	22:52:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	48.9	22:52:30	51.4	22:52:11	64.7	22:52:49
817	2021-04-11	22:53:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.7	49.6	22:53:21	59.8	22:53:45	78.7	22:53:45
818	2021-04-11	22:54:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	48.8	22:54:35	56.1	22:54:47	73.6	22:54:47
819	2021-04-11	22:55:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.4	22:55:03	51.8	22:55:07	65.5	22:55:12
820	2021-04-11	22:56:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	49.4	22:56:07	52.3	22:56:29	67.2	22:56:46
821	2021-04-11	22:57:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	48.5	22:57:44	52.1	22:57:04	64.7	22:57:01
822	2021-04-11	22:58:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	47.5	22:58:59	50.4	22:58:04	66.8	22:58:27
823	2021-04-11	22:59:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	47.5	22:59:00	51.3	22:59:50	68.1	22:59:18
824	2021-04-11	23:00:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.4	48.5	23:00:54	50.8	23:00:02	67.5	23:00:14

825	2021-04-11	23:01:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	48.2	23:01:28	50.5	23:01:47	68.6	23:01:54
826	2021-04-11	23:02:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	49.1	23:02:02	52.2	23:02:13	65.8	23:02:47
827	2021-04-11	23:03:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.7	49.3	23:03:51	53.7	23:03:35	67.3	23:03:35
828	2021-04-11	23:04:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.5	23:04:59	52.0	23:04:13	66.4	23:04:28
829	2021-04-11	23:05:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.4	23:05:07	51.9	23:05:14	69.3	23:05:23
830	2021-04-11	23:06:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	48.9	23:06:17	51.9	23:06:45	63.9	23:06:30
831	2021-04-11	23:07:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	47.9	23:07:35	50.6	23:07:59	63.9	23:07:10
832	2021-04-11	23:08:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.5	23:08:38	52.5	23:08:08	65.2	23:08:07
833	2021-04-11	23:09:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.1	23:09:20	52.0	23:09:36	64.9	23:09:36
834	2021-04-11	23:10:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	48.7	23:10:46	51.2	23:10:05	63.7	23:10:25
835	2021-04-11	23:11:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.1	23:11:06	52.4	23:11:56	65.4	23:11:53
836	2021-04-11	23:12:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	49.6	23:12:28	54.7	23:12:58	67.2	23:12:57
837	2021-04-11	23:13:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	47.8	23:13:37	53.3	23:13:00	66.1	23:13:00
838	2021-04-11	23:14:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.2	49.0	23:14:42	52.2	23:14:14	65.1	23:14:13
839	2021-04-11	23:15:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	48.3	23:15:54	51.5	23:15:02	64.7	23:15:02
840	2021-04-11	23:16:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	48.0	23:16:10	52.1	23:16:59	65.2	23:16:25
841	2021-04-11	23:17:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.6	47.9	23:17:23	51.8	23:17:27	64.7	23:17:26
842	2021-04-11	23:18:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.4	47.7	23:18:22	51.5	23:18:03	65.5	23:18:03
843	2021-04-11	23:19:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	48.9	23:19:56	51.5	23:19:14	64.1	23:19:10
844	2021-04-11	23:20:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	49.4	23:20:51	53.8	23:20:18	67.4	23:20:18
845	2021-04-11	23:21:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	67.9	48.6	23:21:19	52.9	23:21:33	66.6	23:21:33
846	2021-04-11	23:22:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.7	47.8	23:22:53	50.7	23:22:18	63.5	23:22:21
847	2021-04-11	23:23:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	48.0	23:23:00	51.1	23:23:20	63.7	23:23:19
848	2021-04-11	23:24:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.4	23:24:59	53.1	23:24:07	66.8	23:24:07
849	2021-04-11	23:25:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.1	47.6	23:25:08	51.0	23:25:44	65.4	23:25:51
850	2021-04-11	23:26:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	47.9	23:26:39	50.0	23:26:25	63.0	23:26:34
851	2021-04-11	23:27:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.8	23:27:40	52.3	23:27:51	65.4	23:27:51
852	2021-04-11	23:28:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	48.2	23:28:14	51.4	23:28:37	64.5	23:28:37
853	2021-04-11	23:29:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	48.2	23:29:35	52.2	23:29:46	65.1	23:29:44
854	2021-04-11	23:30:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.6	47.4	23:30:32	51.0	23:30:09	63.5	23:30:08
855	2021-04-11	23:31:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	48.1	23:31:05	50.8	23:31:24	63.7	23:31:32
856	2021-04-11	23:32:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.4	47.7	23:32:59	51.7	23:32:23	66.7	23:32:15
857	2021-04-11	23:33:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	47.3	23:33:17	55.2	23:33:59	67.9	23:33:59
858	2021-04-11	23:34:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	47.2	23:34:31	61.1	23:34:03	71.8	23:34:03
859	2021-04-11	23:35:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	46.3	23:35:16	50.4	23:35:38	63.5	23:35:51
860	2021-04-11	23:36:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	46.6	23:36:39	49.8	23:36:52	63.5	23:36:59
861	2021-04-11	23:37:00	00:01:00.0	00:01:00.0	00:00:00.0	48.2	66.0	46.5	23:37:16	50.1	23:37:50	64.1	23:37:04
862	2021-04-11	23:38:00	00:01:00.0	00:01:00.0	00:00:00.0	47.7	65.4	46.5	23:38:14	49.4	23:38:47	64.3	23:38:22
863	2021-04-11	23:39:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	46.9	23:39:54	49.4	23:39:06	63.9	23:39:05
864	2021-04-11	23:40:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	46.2	23:40:25	48.9	23:40:08	61.7	23:40:07
865	2021-04-11	23:41:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.2	46.4	23:41:11	50.1	23:41:59	62.7	23:41:43
866	2021-04-11	23:42:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	44.9	23:42:52	49.9	23:42:19	63.5	23:42:03
867	2021-04-11	23:43:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	45.5	23:43:04	49.6	23:43:58	62.4	23:43:57
868	2021-04-11	23:44:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.0	46.1	23:44:24	48.3	23:44:00	61.3	23:44:00
869	2021-04-11	23:45:00	00:01:00.0	00:01:00.0	00:00:00.0	47.4	65.1	46.2	23:45:28	49.1	23:45:09	62.1	23:45:13
870	2021-04-11	23:46:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	45.9	23:46:04	49.9	23:46:43	62.7	23:46:46
871	2021-04-11	23:47:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	47.8	23:47:58	51.7	23:47:19	67.5	23:47:19
872	2021-04-11	23:48:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	46.5	23:48:17	49.4	23:48:47	63.0	23:48:44
873	2021-04-11	23:49:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	48.0	23:49:20	51.9	23:49:27	64.3	23:49:27
874	2021-04-11	23:50:00	00:01:00.0	00:01:00.0	00:00:00.0	49.8	67.6	48.0	23:50:07	52.9	23:50:44	66.2	23:50:43
875	2021-04-11	23:51:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.5	46.8	23:51:46	51.7	23:51:06	65.8	23:51:06
876	2021-04-11	23:52:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	47.7	23:52:36	51.9	23:52:44	64.1	23:52:55
877	2021-04-11	23:53:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	48.2	23:53:52	50.3	23:53:09	63.7	23:53:08
878	2021-04-11	23:54:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.4	47.7	23:54:17	51.6	23:54:37	64.1	23:54:36
879	2021-04-11	23:55:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	48.0	23:55:25	51.0	23:55:43	64.5	23:55:42
880	2021-04-11	23:56:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	48.1	23:56:46	51.8	23:56:06	64.3	23:56:04
881	2021-04-11	23:57:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	48.2	23:57:24	51.3	23:57:04	64.3	23:57:04
882	2021-04-11	23:58:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	47.7	23:58:07	52.4	23:58:15	64.9	23:58:15
883	2021-04-11	23:59:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	47.8	23:59:48	52.8	23:59:21	66.8	23:59:21
884	2021-04-12	00:00:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.7	46.6	00:00:55	50.2	00:00:05	63.5	00:00:27
885	2021-04-12	00:01:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	48.0	00:01:01	54.4	00:01:48	68.5	00:01:47
886	2021-04-12	00:02:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.7	49.4	00:02:49	54.1	00:02:39	67.2	00:02:39
887	2021-04-12	00:03:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.6	49.6	00:03:12	52.6	00:03:56	65.7	00:03:56
888	2021-04-12	00:04:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.5	47.7	00:04:25	51.6	00:04:08	65.4	00:04:37
889	2021-04-12	00:05:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	47.7	00:05:28	53.1	00:05:48	67.8	00:05:38
890	2021-04-12	00:06:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	48.7	00:06:28	54.7	00:06:11	70.4	00:06:07
891	2021-04-12	00:07:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	49.5	00:07:28	55.7	00:07:45	69.1	00:07:45
892	2021-04-12	00:08:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.0	47.3	00:08:59	50.8	00:08:07	63.7	00:08:03
893	2021-04-12	00:09:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	46.5	00:09:29	49.9	00:09:54	63.0	00:09:58
894	2021-04-12	00:10:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	47.4	00:10:26	50.9	00:10:47	63.5	00:10:42
895	2021-04-12	00:11:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	46.5	00:11:16	49.8	00:11:58	62.1	00:11:35
896	2021-04-12	00:12:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	46.8	00:12:59	52.7	00:12:38	65.8	00:12:38
897	2021-04-12	00:13:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.3	45.9	00:13:02	54.2	00:13:33	67.4	00:13:32
898	2021-04-12	00:14:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	49.3	00:14:59	55.0	00:14:40	68.4	00:14:40
899	2021-04-12	00:15:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	48.2	00:15:05	54.7	00:15:21	68.2	00:15:20

900	2021-04-12	00:16:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	48.9	00:16:54	52.3	00:16:00	65.2	00:16:09
901	2021-04-12	00:17:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	48.2	00:17:09	52.1	00:17:59	65.7	00:17:58
902	2021-04-12	00:18:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.3	49.1	00:18:18	52.1	00:18:04	65.7	00:18:00
903	2021-04-12	00:19:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.3	48.5	00:19:58	51.4	00:19:16	63.7	00:19:37
904	2021-04-12	00:20:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.2	47.1	00:20:59	54.2	00:20:24	68.5	00:20:23
905	2021-04-12	00:21:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	46.4	00:21:36	49.4	00:21:59	63.2	00:21:56
906	2021-04-12	00:22:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.4	48.0	00:22:58	51.2	00:22:29	64.1	00:22:39
907	2021-04-12	00:23:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.3	46.6	00:23:13	52.6	00:23:34	64.5	00:23:33
908	2021-04-12	00:24:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.0	46.6	00:24:22	53.1	00:24:53	65.8	00:24:51
909	2021-04-12	00:25:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	46.5	00:25:58	50.7	00:25:12	65.7	00:25:55
910	2021-04-12	00:26:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	46.9	00:26:00	57.0	00:26:29	68.7	00:26:29
911	2021-04-12	00:27:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.6	49.4	00:27:06	53.8	00:27:31	66.7	00:27:31
912	2021-04-12	00:28:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.7	46.7	00:28:49	51.3	00:28:05	65.2	00:28:02
913	2021-04-12	00:29:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	48.5	00:29:00	52.8	00:29:51	66.4	00:29:50
914	2021-04-12	00:30:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	47.3	00:30:29	56.3	00:30:53	70.3	00:30:52
915	2021-04-12	00:31:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	48.6	00:31:41	56.3	00:31:28	69.6	00:31:27
916	2021-04-12	00:32:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	47.5	00:32:49	53.6	00:32:30	66.4	00:32:30
917	2021-04-12	00:33:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	48.6	00:33:03	54.7	00:33:28	67.5	00:33:28
918	2021-04-12	00:34:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	48.9	00:34:22	53.5	00:34:51	68.3	00:34:51
919	2021-04-12	00:35:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	48.8	00:35:23	52.6	00:35:47	65.8	00:35:24
920	2021-04-12	00:36:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.4	00:36:28	56.7	00:36:45	70.0	00:36:45
921	2021-04-12	00:37:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	49.2	00:37:14	57.3	00:37:35	70.9	00:37:47
922	2021-04-12	00:38:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.3	50.0	00:38:58	64.0	00:38:51	78.0	00:38:50
923	2021-04-12	00:39:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	49.6	00:39:36	53.6	00:39:56	67.1	00:39:50
924	2021-04-12	00:40:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	48.2	00:40:27	52.9	00:40:47	68.1	00:40:46
925	2021-04-12	00:41:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	49.0	00:41:04	53.9	00:41:24	67.6	00:41:24
926	2021-04-12	00:42:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.8	48.4	00:42:38	53.5	00:42:29	67.4	00:42:16
927	2021-04-12	00:43:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	45.7	00:43:56	52.4	00:43:11	64.7	00:43:11
928	2021-04-12	00:44:00	00:01:00.0	00:01:00.0	00:00:00.0	47.5	65.3	45.6	00:44:01	49.3	00:44:54	63.0	00:44:45
929	2021-04-12	00:45:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	46.7	00:45:04	50.6	00:45:33	63.0	00:45:35
930	2021-04-12	00:46:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	46.3	00:46:59	49.9	00:46:50	63.7	00:46:31
931	2021-04-12	00:47:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	44.3	00:47:19	54.1	00:47:58	66.6	00:47:58
932	2021-04-12	00:48:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.7	46.9	00:48:09	53.5	00:48:00	66.1	00:48:00
933	2021-04-12	00:49:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	46.9	00:49:59	49.3	00:49:51	62.4	00:49:35
934	2021-04-12	00:50:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.2	46.0	00:50:02	53.0	00:50:54	66.0	00:50:54
935	2021-04-12	00:51:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.5	47.1	00:51:39	51.7	00:51:06	63.5	00:51:54
936	2021-04-12	00:52:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	48.0	00:52:57	54.0	00:52:06	67.1	00:52:05
937	2021-04-12	00:53:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	47.6	00:53:19	50.8	00:53:38	64.3	00:53:37
938	2021-04-12	00:54:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	46.8	00:54:56	49.3	00:54:39	63.2	00:54:42
939	2021-04-12	00:55:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.6	44.7	00:55:48	48.9	00:55:21	61.7	00:55:09
940	2021-04-12	00:56:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	45.0	00:56:08	53.5	00:56:50	65.8	00:56:50
941	2021-04-12	00:57:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	45.4	00:57:37	53.5	00:57:56	66.7	00:57:58
942	2021-04-12	00:58:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	48.4	00:58:40	54.6	00:58:13	66.8	00:58:07
943	2021-04-12	00:59:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.5	48.1	00:59:15	60.6	00:59:33	72.4	00:59:33
944	2021-04-12	01:00:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	47.9	01:00:59	53.2	01:00:00	65.4	01:00:36
945	2021-04-12	01:01:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	47.7	01:01:05	53.7	01:01:44	67.7	01:01:25
946	2021-04-12	01:02:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	46.2	01:02:16	52.9	01:02:31	67.1	01:02:20
947	2021-04-12	01:03:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	46.0	01:03:58	50.3	01:03:15	63.0	01:03:01
948	2021-04-12	01:04:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	45.5	01:04:16	49.1	01:04:40	62.4	01:04:26
949	2021-04-12	01:05:00	00:01:00.0	00:01:00.0	00:00:00.0	47.0	64.7	44.5	01:05:58	48.5	01:05:45	61.7	01:05:22
950	2021-04-12	01:06:00	00:01:00.0	00:01:00.0	00:00:00.0	46.1	63.8	44.3	01:06:23	48.4	01:06:42	60.9	01:06:01
951	2021-04-12	01:07:00	00:01:00.0	00:01:00.0	00:00:00.0	45.7	63.5	44.5	01:07:15	47.4	01:07:20	59.4	01:07:06
952	2021-04-12	01:08:00	00:01:00.0	00:01:00.0	00:00:00.0	47.7	65.5	45.4	01:08:00	49.3	01:08:55	62.1	01:08:38
953	2021-04-12	01:09:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	45.2	01:09:50	49.8	01:09:04	62.4	01:09:03
954	2021-04-12	01:10:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	45.9	01:10:08	50.6	01:10:34	63.2	01:10:34
955	2021-04-12	01:11:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.6	45.4	01:11:53	48.0	01:11:43	61.7	01:11:45
956	2021-04-12	01:12:00	00:01:00.0	00:01:00.0	00:00:00.0	47.1	64.9	44.8	01:12:56	48.8	01:12:45	62.4	01:12:43
957	2021-04-12	01:13:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.5	45.2	01:13:07	51.5	01:13:20	65.2	01:13:27
958	2021-04-12	01:14:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.3	46.3	01:14:18	54.0	01:14:46	67.9	01:14:46
959	2021-04-12	01:15:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.2	46.2	01:15:32	50.2	01:15:00	63.2	01:15:43
960	2021-04-12	01:16:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	47.1	01:16:13	51.6	01:16:36	63.7	01:16:35
961	2021-04-12	01:17:00	00:01:00.0	00:01:00.0	00:00:00.0	49.8	67.6	47.6	01:17:41	52.7	01:17:17	65.5	01:17:16
962	2021-04-12	01:18:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.6	48.0	01:18:58	51.8	01:18:23	64.7	01:18:09
963	2021-04-12	01:19:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.2	46.3	01:19:37	51.5	01:19:09	64.5	01:19:09
964	2021-04-12	01:20:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	46.9	01:20:57	50.6	01:20:17	64.1	01:20:42
965	2021-04-12	01:21:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	45.2	01:21:15	58.6	01:21:24	74.1	01:21:23
966	2021-04-12	01:22:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	46.1	01:22:38	49.6	01:22:04	63.0	01:22:02
967	2021-04-12	01:23:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.8	46.8	01:23:00	52.4	01:23:46	64.7	01:23:45
968	2021-04-12	01:24:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	46.7	01:24:29	51.5	01:24:35	64.9	01:24:34
969	2021-04-12	01:25:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.1	45.9	01:25:32	51.5	01:25:56	63.5	01:25:47
970	2021-04-12	01:26:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	46.6	01:26:26	51.5	01:26:45	63.5	01:26:44
971	2021-04-12	01:27:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.3	47.4	01:27:59	54.0	01:27:34	66.9	01:27:34
972	2021-04-12	01:28:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.7	46.9	01:28:46	52.1	01:28:12	65.1	01:28:11
973	2021-04-12	01:29:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.4	45.8	01:29:41	50.6	01:29:12	65.1	01:29:53
974	2021-04-12	01:30:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	45.7	01:30:59	52.3	01:30:04	65.4	01:30:04

975	2021-04-12	01:31:00	00:01:00.0	00:01:00.0	00:00:00.0	47.0	64.8	44.3	01:31:27	51.6	01:31:56	64.3	01:31:54
976	2021-04-12	01:32:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.6	43.6	01:32:47	49.3	01:32:00	62.1	01:32:04
977	2021-04-12	01:33:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.1	46.5	01:33:00	50.7	01:33:09	64.3	01:33:08
978	2021-04-12	01:34:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	45.8	01:34:31	51.1	01:34:50	63.2	01:34:09
979	2021-04-12	01:35:00	00:01:00.0	00:01:00.0	00:00:00.0	48.6	66.4	46.9	01:35:01	50.4	01:35:51	63.0	01:35:50
980	2021-04-12	01:36:00	00:01:00.0	00:01:00.0	00:00:00.0	46.4	64.2	44.3	01:36:58	48.2	01:36:01	61.3	01:36:24
981	2021-04-12	01:37:00	00:01:00.0	00:01:00.0	00:00:00.0	45.1	62.8	42.3	01:37:38	48.5	01:37:59	61.7	01:37:59
982	2021-04-12	01:38:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	46.8	01:38:16	51.0	01:38:41	64.5	01:38:24
983	2021-04-12	01:39:00	00:01:00.0	00:01:00.0	00:00:00.0	47.4	65.1	45.8	01:39:20	49.8	01:39:07	63.2	01:39:07
984	2021-04-12	01:40:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	45.8	01:40:13	49.5	01:40:55	62.4	01:40:54
985	2021-04-12	01:41:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	45.7	01:41:13	50.7	01:41:51	65.2	01:41:31
986	2021-04-12	01:42:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.7	46.7	01:42:21	51.1	01:42:11	64.1	01:42:10
987	2021-04-12	01:43:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.2	46.7	01:43:26	50.8	01:43:49	64.1	01:43:48
988	2021-04-12	01:44:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.6	43.9	01:44:59	49.8	01:44:04	63.0	01:44:04
989	2021-04-12	01:45:00	00:01:00.0	00:01:00.0	00:00:00.0	43.7	61.5	41.3	01:45:24	47.3	01:45:53	60.0	01:45:52
990	2021-04-12	01:46:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	45.7	01:46:03	49.4	01:46:57	62.4	01:46:20
991	2021-04-12	01:47:00	00:01:00.0	00:01:00.0	00:00:00.0	46.1	63.9	44.3	01:47:30	48.2	01:47:57	60.9	01:47:52
992	2021-04-12	01:48:00	00:01:00.0	00:01:00.0	00:00:00.0	45.8	63.6	42.4	01:48:50	47.9	01:48:38	66.4	01:48:38
993	2021-04-12	01:49:00	00:01:00.0	00:01:00.0	00:00:00.0	46.9	64.7	42.7	01:49:02	49.1	01:49:42	61.3	01:49:42
994	2021-04-12	01:50:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.3	44.8	01:50:18	49.9	01:50:46	62.7	01:50:36
995	2021-04-12	01:51:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	46.3	01:51:55	49.2	01:51:39	63.7	01:51:39
996	2021-04-12	01:52:00	00:01:00.0	00:01:00.0	00:00:00.0	47.5	65.3	44.5	01:52:07	52.4	01:52:35	65.1	01:52:34
997	2021-04-12	01:53:00	00:01:00.0	00:01:00.0	00:00:00.0	46.0	63.8	42.8	01:53:43	50.1	01:53:16	62.1	01:53:16
998	2021-04-12	01:54:00	00:01:00.0	00:01:00.0	00:00:00.0	45.7	63.5	43.4	01:54:36	48.1	01:54:06	61.3	01:54:05
999	2021-04-12	01:55:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	47.0	01:55:01	50.8	01:55:59	65.2	01:55:58
1000	2021-04-12	01:56:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	45.6	01:56:57	50.7	01:56:00	63.7	01:56:00
1001	2021-04-12	01:57:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.2	45.0	01:57:59	47.9	01:57:14	61.7	01:57:16
1002	2021-04-12	01:58:00	00:01:00.0	00:01:00.0	00:00:00.0	44.7	62.5	43.6	01:58:51	46.3	01:58:40	59.4	01:58:41
1003	2021-04-12	01:59:00	00:01:00.0	00:01:00.0	00:00:00.0	46.0	63.8	44.7	01:59:12	47.4	01:59:07	60.0	01:59:40
1004	2021-04-12	02:00:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.3	44.9	02:00:18	48.8	02:00:44	61.7	02:00:44
1005	2021-04-12	02:01:00	00:01:00.0	00:01:00.0	00:00:00.0	46.2	63.9	44.3	02:01:18	47.7	02:01:45	60.9	02:01:52
1006	2021-04-12	02:02:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	45.0	02:02:14	52.0	02:02:58	64.3	02:02:58
1007	2021-04-12	02:03:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	44.6	02:03:43	51.3	02:03:00	63.2	02:03:00
1008	2021-04-12	02:04:00	00:01:00.0	00:01:00.0	00:00:00.0	47.1	64.9	43.9	02:04:43	50.0	02:04:03	65.5	02:04:30
1009	2021-04-12	02:05:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	45.7	02:05:49	49.8	02:05:19	61.7	02:05:19
1010	2021-04-12	02:06:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	45.3	02:06:03	49.8	02:06:26	63.0	02:06:24
1011	2021-04-12	02:07:00	00:01:00.0	00:01:00.0	00:00:00.0	47.7	65.5	43.4	02:07:48	52.4	02:07:12	64.5	02:07:11
1012	2021-04-12	02:08:00	00:01:00.0	00:01:00.0	00:00:00.0	45.3	63.1	43.4	02:08:16	47.4	02:08:46	59.4	02:08:45
1013	2021-04-12	02:09:00	00:01:00.0	00:01:00.0	00:00:00.0	46.1	63.9	44.0	02:09:59	51.0	02:09:14	64.7	02:09:13
1014	2021-04-12	02:10:00	00:01:00.0	00:01:00.0	00:00:00.0	44.2	62.0	42.8	02:10:41	46.9	02:10:56	57.9	02:10:08
1015	2021-04-12	02:11:00	00:01:00.0	00:01:00.0	00:00:00.0	45.1	62.8	41.2	02:11:44	51.6	02:11:15	64.5	02:11:15
1016	2021-04-12	02:12:00	00:01:00.0	00:01:00.0	00:00:00.0	44.0	61.8	42.5	02:12:39	45.5	02:12:03	58.7	02:12:04
1017	2021-04-12	02:13:00	00:01:00.0	00:01:00.0	00:00:00.0	45.2	63.0	43.0	02:13:19	46.4	02:13:41	60.0	02:13:53
1018	2021-04-12	02:14:00	00:01:00.0	00:01:00.0	00:00:00.0	44.7	62.5	42.4	02:14:22	47.8	02:14:47	62.7	02:14:47
1019	2021-04-12	02:15:00	00:01:00.0	00:01:00.0	00:00:00.0	46.6	64.3	44.4	02:15:49	50.4	02:15:43	63.9	02:15:43
1020	2021-04-12	02:16:00	00:01:00.0	00:01:00.0	00:00:00.0	44.5	62.3	42.7	02:16:31	47.3	02:16:57	61.7	02:16:00
1021	2021-04-12	02:17:00	00:01:00.0	00:01:00.0	00:00:00.0	44.9	62.6	42.1	02:17:38	48.0	02:17:10	60.5	02:17:09
1022	2021-04-12	02:18:00	00:01:00.0	00:01:00.0	00:00:00.0	43.8	61.6	42.1	02:18:23	46.8	02:18:00	58.7	02:18:00
1023	2021-04-12	02:19:00	00:01:00.0	00:01:00.0	00:00:00.0	44.6	62.4	41.9	02:19:30	46.9	02:19:53	59.4	02:19:52
1024	2021-04-12	02:20:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.6	45.3	02:20:00	48.7	02:20:37	61.7	02:20:51
1025	2021-04-12	02:21:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.3	42.6	02:21:38	49.9	02:21:24	62.7	02:21:24
1026	2021-04-12	02:22:00	00:01:00.0	00:01:00.0	00:00:00.0	45.4	63.2	43.5	02:22:00	46.7	02:22:11	60.9	02:22:18
1027	2021-04-12	02:23:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	44.8	02:23:03	49.3	02:23:26	61.3	02:23:26
1028	2021-04-12	02:24:00	00:01:00.0	00:01:00.0	00:00:00.0	47.0	64.8	43.7	02:24:57	49.2	02:24:01	62.1	02:24:25
1029	2021-04-12	02:25:00	00:01:00.0	00:01:00.0	00:00:00.0	47.7	65.5	43.8	02:25:00	51.3	02:25:17	65.1	02:25:36
1030	2021-04-12	02:26:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.3	44.5	02:26:15	49.1	02:26:00	62.7	02:26:00
1031	2021-04-12	02:27:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.6	44.9	02:27:57	48.8	02:27:18	61.3	02:27:14
1032	2021-04-12	02:28:00	00:01:00.0	00:01:00.0	00:00:00.0	46.1	63.9	43.2	02:28:24	50.1	02:28:49	62.7	02:28:49
1033	2021-04-12	02:29:00	00:01:00.0	00:01:00.0	00:00:00.0	46.7	64.5	43.5	02:29:12	48.5	02:29:40	65.1	02:29:27
1034	2021-04-12	02:30:00	00:01:00.0	00:01:00.0	00:00:00.0	46.6	64.4	43.8	02:30:50	49.4	02:30:09	62.4	02:30:09
1035	2021-04-12	02:31:00	00:01:00.0	00:01:00.0	00:00:00.0	46.4	64.2	45.1	02:31:00	48.0	02:31:12	60.5	02:31:03
1036	2021-04-12	02:32:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.0	45.5	02:32:06	48.9	02:32:51	64.1	02:32:36
1037	2021-04-12	02:33:00	00:01:00.0	00:01:00.0	00:00:00.0	45.6	63.4	44.3	02:33:54	48.1	02:33:00	60.5	02:33:00
1038	2021-04-12	02:34:00	00:01:00.0	00:01:00.0	00:00:00.0	44.6	62.4	42.1	02:34:46	46.0	02:34:27	58.7	02:34:13
1039	2021-04-12	02:35:00	00:01:00.0	00:01:00.0	00:00:00.0	47.0	64.8	43.8	02:35:00	49.0	02:35:19	62.1	02:35:50
1040	2021-04-12	02:36:00	00:01:00.0	00:01:00.0	00:00:00.0	44.4	62.2	42.6	02:36:26	46.6	02:36:00	59.4	02:36:00
1041	2021-04-12	02:37:00	00:01:00.0	00:01:00.0	00:00:00.0	44.0	61.8	41.3	02:37:52	46.9	02:37:16	60.5	02:37:11
1042	2021-04-12	02:38:00	00:01:00.0	00:01:00.0	00:00:00.0	45.8	63.6	43.7	02:38:59	48.4	02:38:26	62.1	02:38:26
1043	2021-04-12	02:39:00	00:01:00.0	00:01:00.0	00:00:00.0	45.9	63.7	43.0	02:39:05	48.4	02:39:30	62.1	02:39:28
1044	2021-04-12	02:40:00	00:01:00.0	00:01:00.0	00:00:00.0	45.7	63.5	44.1	02:40:41	48.0	02:40:09	60.0	02:40:07
1045	2021-04-12	02:41:00	00:01:00.0	00:01:00.0	00:00:00.0	46.0	63.8	43.8	02:41:11	49.2	02:41:37	63.2	02:41:36
1046	2021-04-12	02:42:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.3	44.6	02:42:11	48.2	02:42:23	62.1	02:42:23
1047	2021-04-12	02:43:00	00:01:00.0	00:01:00.0	00:00:00.0	45.9	63.7	44.7	02:43:25	47.4	02:43:01	60.5	02:43:13
1048	2021-04-12	02:44:00	00:01:00.0	00:01:00.0	00:00:00.0	44.9	62.7	42.6	02:44:57	47.8	02:44:08	60.0	02:44:08
1049	2021-04-12	02:45:00	00:01:00.0	00:01:00.0	00:00:00.0	44.1	61.9	42.2	02:45:59	46.5	02:45:26	61.7	02:45:25

1050	2021-04-12	02:46:00	00:01:00.0	00:01:00.0	00:00:00.0	43.3	61.1	41.9	02:46:47	45.4	02:46:06	57.9		02:46:05
1051	2021-04-12	02:47:00	00:01:00.0	00:01:00.0	00:00:00.0	46.2	64.0	41.4	02:47:10	49.8	02:47:53	62.4		02:47:35
1052	2021-04-12	02:48:00	00:01:00.0	00:01:00.0	00:00:00.0	46.0	63.8	44.2	02:48:58	48.8	02:48:15	60.9		02:48:15
1053	2021-04-12	02:49:00	00:01:00.0	00:01:00.0	00:00:00.0	44.4	62.2	43.0	02:49:24	46.0	02:49:17	58.7		02:49:16
1054	2021-04-12	02:50:00	00:01:00.0	00:01:00.0	00:00:00.0	47.4	65.2	40.8	02:50:58	52.8	02:50:32	67.1		02:50:31
1055	2021-04-12	02:51:00	00:01:00.0	00:01:00.0	00:00:00.0	43.5	61.3	40.8	02:51:01	44.8	02:51:51	57.9		02:51:47
1056	2021-04-12	02:52:00	00:01:00.0	00:01:00.0	00:00:00.0	45.1	62.9	42.7	02:52:36	48.1	02:52:52	62.7		02:52:41
1057	2021-04-12	02:53:00	00:01:00.0	00:01:00.0	00:00:00.0	45.4	63.2	44.4	02:53:34	46.3	02:53:28	60.0		02:53:22
1058	2021-04-12	02:54:00	00:01:00.0	00:01:00.0	00:00:00.0	45.9	63.6	44.7	02:54:28	47.3	02:54:18	60.9		02:54:49
1059	2021-04-12	02:55:00	00:01:00.0	00:01:00.0	00:00:00.0	46.0	63.7	44.7	02:55:31	47.4	02:55:24	60.0		02:55:24
1060	2021-04-12	02:56:00	00:01:00.0	00:01:00.0	00:00:00.0	46.2	64.0	43.4	02:56:57	49.3	02:56:23	62.1		02:56:22
1061	2021-04-12	02:57:00	00:01:00.0	00:01:00.0	00:00:00.0	46.1	63.9	43.7	02:57:01	48.1	02:57:55	61.3		02:57:54
1062	2021-04-12	02:58:00	00:01:00.0	00:01:00.0	00:00:00.0	44.0	61.8	42.4	02:58:42	46.3	02:58:08	59.4		02:58:07
1063	2021-04-12	02:59:00	00:01:00.0	00:01:00.0	00:00:00.0	46.6	64.4	44.5	02:59:05	48.4	02:59:28	62.4		02:59:28
1064	2021-04-12	03:00:00	00:01:00.0	00:01:00.0	00:00:00.0	45.6	63.4	43.5	03:00:31	47.7	03:00:02	60.9		03:00:02
1065	2021-04-12	03:01:00	00:01:00.0	00:01:00.0	00:00:00.0	44.9	62.6	43.0	03:01:26	48.0	03:01:29	61.3		03:01:28
1066	2021-04-12	03:02:00	00:01:00.0	00:01:00.0	00:00:00.0	46.6	64.4	43.4	03:02:11	49.4	03:02:37	61.7		03:02:19
1067	2021-04-12	03:03:00	00:01:00.0	00:01:00.0	00:00:00.0	45.5	63.3	42.7	03:03:51	47.3	03:03:07	60.5		03:03:19
1068	2021-04-12	03:04:00	00:01:00.0	00:01:00.0	00:00:00.0	44.1	61.9	41.3	03:04:45	47.2	03:04:22	60.9		03:04:20
1069	2021-04-12	03:05:00	00:01:00.0	00:01:00.0	00:00:00.0	45.8	63.6	43.2	03:05:02	49.2	03:05:56	63.2		03:05:07
1070	2021-04-12	03:06:00	00:01:00.0	00:01:00.0	00:00:00.0	46.3	64.1	44.4	03:06:00	48.7	03:06:12	62.4		03:06:35
1071	2021-04-12	03:07:00	00:01:00.0	00:01:00.0	00:00:00.0	45.5	63.3	44.1	03:07:54	47.5	03:07:12	60.0		03:07:08
1072	2021-04-12	03:08:00	00:01:00.0	00:01:00.0	00:00:00.0	46.3	64.1	43.6	03:08:17	48.0	03:08:44	60.9		03:08:24
1073	2021-04-12	03:09:00	00:01:00.0	00:01:00.0	00:00:00.0	45.4	63.2	43.5	03:09:53	46.9	03:09:13	60.5		03:09:28
1074	2021-04-12	03:10:00	00:01:00.0	00:01:00.0	00:00:00.0	45.7	63.4	42.7	03:10:08	51.9	03:10:51	64.7		03:10:51
1075	2021-04-12	03:11:00	00:01:00.0	00:01:00.0	00:00:00.0	45.9	63.7	44.4	03:11:30	47.7	03:11:48	61.3		03:11:46
1076	2021-04-12	03:12:00	00:01:00.0	00:01:00.0	00:00:00.0	46.4	64.2	44.2	03:12:43	48.5	03:12:13	62.4		03:12:09
1077	2021-04-12	03:13:00	00:01:00.0	00:01:00.0	00:00:00.0	44.8	62.6	41.5	03:13:38	46.9	03:13:13	61.3		03:13:09
1078	2021-04-12	03:14:00	00:01:00.0	00:01:00.0	00:00:00.0	45.7	63.5	43.6	03:14:22	48.4	03:14:42	61.7		03:14:36
1079	2021-04-12	03:15:00	00:01:00.0	00:01:00.0	00:00:00.0	45.2	62.9	43.3	03:15:05	46.9	03:15:56	66.1		03:15:22
1080	2021-04-12	03:16:00	00:01:00.0	00:01:00.0	00:00:00.0	45.3	63.1	42.5	03:16:21	47.8	03:16:09	60.5		03:16:09
1081	2021-04-12	03:17:00	00:01:00.0	00:01:00.0	00:00:00.0	46.5	64.3	44.4	03:17:07	50.3	03:17:36	62.7		03:17:36
1082	2021-04-12	03:18:00	00:01:00.0	00:01:00.0	00:00:00.0	47.1	64.9	45.0	03:18:14	49.3	03:18:59	61.7		03:18:35
1083	2021-04-12	03:19:00	00:01:00.0	00:01:00.0	00:00:00.0	47.0	64.8	44.7	03:19:22	49.4	03:19:58	62.4		03:19:53
1084	2021-04-12	03:20:00	00:01:00.0	00:01:00.0	00:00:00.0	47.7	65.5	44.5	03:20:44	50.3	03:20:12	62.1		03:20:08
1085	2021-04-12	03:21:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	46.4	03:21:07	49.5	03:21:56	62.7		03:21:55
1086	2021-04-12	03:22:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	44.9	03:22:59	50.4	03:22:17	62.7		03:22:15
1087	2021-04-12	03:23:00	00:01:00.0	00:01:00.0	00:00:00.0	47.2	65.0	45.5	03:23:57	49.5	03:23:54	61.3		03:23:20
1088	2021-04-12	03:24:00	00:01:00.0	00:01:00.0	00:00:00.0	46.7	64.5	45.3	03:24:38	48.7	03:24:42	60.9		03:24:41
1089	2021-04-12	03:25:00	00:01:00.0	00:01:00.0	00:00:00.0	46.3	64.1	44.8	03:25:07	48.5	03:25:12	61.7		03:25:30
1090	2021-04-12	03:26:00	00:01:00.0	00:01:00.0	00:00:00.0	46.0	63.8	44.5	03:26:30	47.8	03:26:34	60.5		03:26:33
1091	2021-04-12	03:27:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.7	45.5	03:27:01	50.2	03:27:54	62.7		03:27:19
1092	2021-04-12	03:28:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.0	45.5	03:28:28	49.5	03:28:01	62.4		03:28:11
1093	2021-04-12	03:29:00	00:01:00.0	00:01:00.0	00:00:00.0	46.6	64.4	44.8	03:29:39	48.6	03:29:12	61.3		03:29:13
1094	2021-04-12	03:30:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.1	46.9	03:30:00	51.4	03:30:27	66.0		03:30:45
1095	2021-04-12	03:31:00	00:01:00.0	00:01:00.0	00:00:00.0	48.2	65.9	45.6	03:31:56	50.5	03:31:18	63.7		03:31:17
1096	2021-04-12	03:32:00	00:01:00.0	00:01:00.0	00:00:00.0	47.7	65.5	45.5	03:32:10	50.5	03:32:56	63.2		03:32:55
1097	2021-04-12	03:33:00	00:01:00.0	00:01:00.0	00:00:00.0	47.2	65.0	45.8	03:33:59	48.9	03:33:01	62.4		03:33:04
1098	2021-04-12	03:34:00	00:01:00.0	00:01:00.0	00:00:00.0	46.6	64.4	44.9	03:34:02	48.5	03:34:20	60.9		03:34:41
1099	2021-04-12	03:35:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	44.7	03:35:01	49.7	03:35:50	62.7		03:35:51
1100	2021-04-12	03:36:00	00:01:00.0	00:01:00.0	00:00:00.0	47.7	65.5	46.1	03:36:18	49.0	03:36:01	61.3		03:36:00
1101	2021-04-12	03:37:00	00:01:00.0	00:01:00.0	00:00:00.0	48.8	66.6	47.2	03:37:00	50.4	03:37:07	63.9		03:37:42
1102	2021-04-12	03:38:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.1	47.5	03:38:51	51.7	03:38:29	66.0		03:38:28
1103	2021-04-12	03:39:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	46.0	03:39:40	53.1	03:39:18	67.4		03:39:17
1104	2021-04-12	03:40:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.2	46.5	03:40:00	52.6	03:40:28	65.1		03:40:27
1105	2021-04-12	03:41:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	45.3	03:41:55	50.0	03:41:03	63.5		03:41:02
1106	2021-04-12	03:42:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	45.8	03:42:00	51.6	03:42:22	64.9		03:42:42
1107	2021-04-12	03:43:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	46.8	03:43:30	52.5	03:43:07	65.4		03:43:46
1108	2021-04-12	03:44:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.2	45.1	03:44:54	50.8	03:44:28	64.1		03:44:27
1109	2021-04-12	03:45:00	00:01:00.0	00:01:00.0	00:00:00.0	47.1	64.9	45.3	03:45:12	49.7	03:45:41	63.5		03:45:39
1110	2021-04-12	03:46:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.4	46.6	03:46:00	50.9	03:46:29	64.1		03:46:50
1111	2021-04-12	03:47:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.2	46.5	03:47:44	50.0	03:47:05	64.7		03:47:02
1112	2021-04-12	03:48:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	46.8	03:48:06	50.5	03:48:33	63.2		03:48:21
1113	2021-04-12	03:49:00	00:01:00.0	00:01:00.0	00:00:00.0	48.6	66.4	46.2	03:49:08	50.7	03:49:39	63.7		03:49:47
1114	2021-04-12	03:50:00	00:01:00.0	00:01:00.0	00:00:00.0	45.9	63.7	44.6	03:50:57	49.1	03:50:00	61.3		03:50:01
1115	2021-04-12	03:51:00	00:01:00.0	00:01:00.0	00:00:00.0	47.5	65.3	44.6	03:51:00	49.3	03:51:51	62.4		03:51:23
1116	2021-04-12	03:52:00	00:01:00.0	00:01:00.0	00:00:00.0	46.8	64.6	44.1	03:52:24	49.6	03:52:51	62.4		03:52:55
1117	2021-04-12	03:53:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	45.8	03:53:42	49.4	03:53:42	66.4		03:53:42
1118	2021-04-12	03:54:00	00:01:00.0	00:01:00.0	00:00:00.0	47.1	64.9	43.7	03:54:23	50.6	03:54:38	66.8		03:54:33
1119	2021-04-12	03:55:00	00:01:00.0	00:01:00.0	00:00:00.0	47.5	65.3	45.6	03:55:24	50.2	03:55:17	66.8		03:55:17
1120	2021-04-12	03:56:00	00:01:00.0	00:01:00.0	00:00:00.0	48.4	66.1	47.0	03:56:00	50.0	03:56:50	63.5		03:56:50
1121	2021-04-12	03:57:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	47.9	03:57:00	51.0	03:57:16	64.3		03:57:40
1122	2021-04-12	03:58:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	47.2	03:58:58	53.0	03:58:25	66.4		03:58:25
1123	2021-04-12	03:59:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	45.9	03:59:31	50.1	03:59:57	68.8		03:59:16
1124	2021-04-12	04:00:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	47.5	04:00:25	50.7	04:00:09	63.9		04:00:06

1125	2021-04-12	04:01:00	00:01:00.0	00:01:00.0	00:00:00.0	49.8	67.6	46.8	04:01:24	53.8	04:01:52	66.9		04:01:52
1126	2021-04-12	04:02:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	48.9	04:02:31	52.8	04:02:01	66.4		04:02:33
1127	2021-04-12	04:03:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.8	04:03:48	50.9	04:03:44	64.3		04:03:36
1128	2021-04-12	04:04:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.3	46.5	04:04:30	51.2	04:04:03	63.2		04:04:45
1129	2021-04-12	04:05:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.1	46.5	04:05:17	49.8	04:05:06	63.0		04:05:06
1130	2021-04-12	04:06:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	46.4	04:06:59	52.0	04:06:42	66.0		04:06:42
1131	2021-04-12	04:07:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	45.1	04:07:16	49.6	04:07:29	62.4		04:07:28
1132	2021-04-12	04:08:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.3	46.7	04:08:04	50.3	04:08:41	64.1		04:08:39
1133	2021-04-12	04:09:00	00:01:00.0	00:01:00.0	00:00:00.0	46.9	64.7	45.6	04:09:36	48.9	04:09:59	64.5		04:09:55
1134	2021-04-12	04:10:00	00:01:00.0	00:01:00.0	00:00:00.0	48.0	65.8	46.5	04:10:36	49.3	04:10:20	62.4		04:10:10
1135	2021-04-12	04:11:00	00:01:00.0	00:01:00.0	00:00:00.0	48.2	66.0	47.1	04:11:11	50.0	04:11:06	64.1		04:11:18
1136	2021-04-12	04:12:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.2	47.0	04:12:25	50.9	04:12:44	64.7		04:12:43
1137	2021-04-12	04:13:00	00:01:00.0	00:01:00.0	00:00:00.0	48.6	66.3	47.7	04:13:19	49.6	04:13:01	62.7		04:13:25
1138	2021-04-12	04:14:00	00:01:00.0	00:01:00.0	00:00:00.0	47.5	65.3	46.3	04:14:52	49.1	04:14:04	62.4		04:14:06
1139	2021-04-12	04:15:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	45.9	04:15:27	52.4	04:15:42	63.7		04:15:42
1140	2021-04-12	04:16:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.4	45.7	04:16:14	49.1	04:16:24	61.3		04:16:24
1141	2021-04-12	04:17:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	45.8	04:17:48	49.4	04:17:05	62.1		04:17:25
1142	2021-04-12	04:18:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	47.3	04:18:09	56.0	04:18:37	69.1		04:18:36
1143	2021-04-12	04:19:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	47.7	04:19:39	52.4	04:19:02	65.1		04:19:51
1144	2021-04-12	04:20:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.3	48.0	04:20:30	53.2	04:20:39	65.8		04:20:40
1145	2021-04-12	04:21:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	46.8	04:21:40	51.5	04:21:01	64.5		04:21:01
1146	2021-04-12	04:22:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	47.9	04:22:10	51.9	04:22:43	71.4		04:22:47
1147	2021-04-12	04:23:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.5	04:23:45	50.9	04:23:17	63.9		04:23:24
1148	2021-04-12	04:24:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	48.8	04:24:22	52.3	04:24:54	65.5		04:24:53
1149	2021-04-12	04:25:00	00:01:00.0	00:01:00.0	00:00:00.0	49.6	67.3	47.8	04:25:10	50.8	04:25:56	64.3		04:25:53
1150	2021-04-12	04:26:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.8	49.8	04:26:31	54.9	04:26:59	68.5		04:26:59
1151	2021-04-12	04:27:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	48.2	04:27:28	55.3	04:27:01	69.1		04:27:01
1152	2021-04-12	04:28:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	49.0	04:28:32	52.8	04:28:52	66.4		04:28:48
1153	2021-04-12	04:29:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	50.3	04:29:00	53.8	04:29:46	66.8		04:29:50
1154	2021-04-12	04:30:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	50.5	04:30:59	56.3	04:30:20	68.8		04:30:14
1155	2021-04-12	04:31:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.3	04:31:51	51.8	04:31:11	64.5		04:31:06
1156	2021-04-12	04:32:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.2	04:32:01	51.8	04:32:15	64.7		04:32:15
1157	2021-04-12	04:33:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	50.2	04:33:16	53.3	04:33:35	66.6		04:33:34
1158	2021-04-12	04:34:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	49.6	04:34:11	52.6	04:34:35	66.0		04:34:49
1159	2021-04-12	04:35:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	48.6	04:35:12	52.7	04:35:48	64.7		04:35:45
1160	2021-04-12	04:36:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	48.6	04:36:11	53.7	04:36:34	66.7		04:36:34
1161	2021-04-12	04:37:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.6	04:37:25	52.3	04:37:51	65.8		04:37:36
1162	2021-04-12	04:38:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.1	04:38:02	54.7	04:38:49	68.3		04:38:49
1163	2021-04-12	04:39:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	69.9	50.2	04:39:41	54.9	04:39:04	68.4		04:39:03
1164	2021-04-12	04:40:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	50.5	04:40:50	52.6	04:40:37	65.4		04:40:13
1165	2021-04-12	04:41:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	48.4	04:41:59	52.2	04:41:19	65.1		04:41:15
1166	2021-04-12	04:42:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	47.7	04:42:02	52.4	04:42:55	67.5		04:42:55
1167	2021-04-12	04:43:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	50.0	04:43:36	52.1	04:43:10	64.3		04:43:10
1168	2021-04-12	04:44:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	49.8	04:44:42	52.4	04:44:30	65.2		04:44:34
1169	2021-04-12	04:45:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	48.8	04:45:55	51.1	04:45:31	64.3		04:45:13
1170	2021-04-12	04:46:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.3	04:46:00	51.9	04:46:29	65.1		04:46:29
1171	2021-04-12	04:47:00	00:01:00.0	00:01:00.0	00:00:00.0	49.8	67.6	47.7	04:47:59	51.2	04:47:15	64.5		04:47:05
1172	2021-04-12	04:48:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.7	47.6	04:48:00	49.8	04:48:43	64.3		04:48:35
1173	2021-04-12	04:49:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	48.8	04:49:04	52.6	04:49:51	65.5		04:49:50
1174	2021-04-12	04:50:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.8	48.7	04:50:16	51.5	04:50:07	64.5		04:50:06
1175	2021-04-12	04:51:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	49.9	04:51:06	54.2	04:51:39	67.4		04:51:32
1176	2021-04-12	04:52:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	51.7	04:52:55	53.8	04:52:08	66.8		04:52:32
1177	2021-04-12	04:53:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.8	50.6	04:53:17	56.8	04:53:31	69.5		04:53:30
1178	2021-04-12	04:54:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.9	04:54:33	53.0	04:54:00	65.8		04:54:42
1179	2021-04-12	04:55:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.5	04:55:36	52.9	04:55:07	66.1		04:55:07
1180	2021-04-12	04:56:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.8	50.6	04:56:51	53.7	04:56:10	66.0		04:56:09
1181	2021-04-12	04:57:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.6	04:57:06	52.8	04:57:01	65.4		04:57:40
1182	2021-04-12	04:58:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	50.5	04:58:19	52.6	04:58:38	65.8		04:58:55
1183	2021-04-12	04:59:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.8	04:59:57	53.3	04:59:06	66.1		04:59:07
1184	2021-04-12	05:00:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	50.5	05:00:03	52.6	05:00:58	66.6		05:00:27
1185	2021-04-12	05:01:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.4	05:01:13	52.9	05:01:21	66.1		05:01:00
1186	2021-04-12	05:02:00	00:01:00.0	00:01:00.0	00:00:00.0	53.0	70.7	51.0	05:02:58	55.0	05:02:32	67.6		05:02:23
1187	2021-04-12	05:03:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.5	05:03:10	51.9	05:03:18	64.3		05:03:58
1188	2021-04-12	05:04:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	50.2	05:04:21	52.3	05:04:37	65.7		05:04:26
1189	2021-04-12	05:05:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.4	49.3	05:05:44	53.6	05:05:13	66.9		05:05:05
1190	2021-04-12	05:06:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.4	05:06:00	52.9	05:06:13	65.7		05:06:10
1191	2021-04-12	05:07:00	00:01:00.0	00:01:00.0	00:00:00.0	52.5	70.3	50.7	05:07:54	55.3	05:07:10	68.0		05:07:08
1192	2021-04-12	05:08:00	00:01:00.0	00:01:00.0	00:00:00.0	52.7	70.5	50.7	05:08:53	54.6	05:08:15	75.4		05:08:47
1193	2021-04-12	05:09:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.4	05:09:03	54.5	05:09:53	68.9		05:09:11
1194	2021-04-12	05:10:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.1	05:10:24	52.2	05:10:08	67.1		05:10:05
1195	2021-04-12	05:11:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.8	05:11:21	52.2	05:11:59	64.7		05:11:55
1196	2021-04-12	05:12:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	49.2	05:12:58	53.7	05:12:02	66.5		05:12:01
1197	2021-04-12	05:13:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.6	49.6	05:13:00	53.8	05:13:16	66.8		05:13:15
1198	2021-04-12	05:14:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.0	50.4	05:14:54	54.3	05:14:29	67.6		05:14:25
1199	2021-04-12	05:15:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.3	50.4	05:15:00	52.8	05:15:53	67.8		05:15:59

1200	2021-04-12	05:16:00	00:01:00.0	00:01:00.0	00:00:00.0	52.2	70.0	51.3	05:16:07	53.3	05:16:40	67.9	05:16:34
1201	2021-04-12	05:17:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.4	51.7	05:17:45	53.4	05:17:18	68.3	05:17:50
1202	2021-04-12	05:18:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	50.4	05:18:47	54.3	05:18:06	68.2	05:18:29
1203	2021-04-12	05:19:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.7	50.7	05:19:00	53.1	05:19:21	69.1	05:19:16
1204	2021-04-12	05:20:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	50.6	05:20:30	52.5	05:20:00	66.7	05:20:36
1205	2021-04-12	05:21:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	50.2	05:21:59	52.5	05:21:09	66.2	05:21:47
1206	2021-04-12	05:22:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	49.9	05:22:10	52.8	05:22:46	65.1	05:22:07
1207	2021-04-12	05:23:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.3	50.2	05:23:52	53.1	05:23:02	67.5	05:23:09
1208	2021-04-12	05:24:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.8	05:24:03	53.2	05:24:31	69.2	05:24:34
1209	2021-04-12	05:25:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.9	05:25:01	53.2	05:25:10	68.6	05:25:04
1210	2021-04-12	05:26:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.8	05:26:45	51.9	05:26:00	68.2	05:26:24
1211	2021-04-12	05:27:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.7	05:27:04	54.9	05:27:16	68.6	05:27:26
1212	2021-04-12	05:28:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	49.6	05:28:46	54.8	05:28:37	82.6	05:28:37
1213	2021-04-12	05:29:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	50.5	05:29:13	54.4	05:29:56	73.4	05:29:01
1214	2021-04-12	05:30:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	52.5	05:30:10	55.5	05:30:50	68.3	05:30:50
1215	2021-04-12	05:31:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	72.0	52.4	05:31:15	56.9	05:31:06	69.4	05:31:06
1216	2021-04-12	05:32:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	53.5	05:32:05	56.8	05:32:24	70.3	05:32:23
1217	2021-04-12	05:33:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	54.4	05:33:21	57.7	05:33:49	70.3	05:33:48
1218	2021-04-12	05:34:00	00:01:00.0	00:01:00.0	00:00:00.0	55.7	73.5	54.5	05:34:03	57.4	05:34:29	71.4	05:34:28
1219	2021-04-12	05:35:00	00:01:00.0	00:01:00.0	00:00:00.0	55.3	73.1	54.3	05:35:22	56.5	05:35:44	69.4	05:35:42
1220	2021-04-12	05:36:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	54.9	05:36:35	57.2	05:36:57	72.1	05:36:11
1221	2021-04-12	05:37:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	54.8	05:37:56	57.6	05:37:46	72.9	05:37:46
1222	2021-04-12	05:38:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.6	53.2	05:38:28	56.4	05:38:15	69.4	05:38:01
1223	2021-04-12	05:39:00	00:01:00.0	00:01:00.0	00:00:00.0	54.7	72.5	53.7	05:39:50	56.1	05:39:00	69.3	05:39:11
1224	2021-04-12	05:40:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	54.5	05:40:14	58.8	05:40:40	71.1	05:40:38
1225	2021-04-12	05:41:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	73.9	54.9	05:41:41	57.9	05:41:59	71.8	05:41:21
1226	2021-04-12	05:42:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	54.9	05:42:58	59.8	05:42:00	74.7	05:42:00
1227	2021-04-12	05:43:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	53.8	05:43:41	57.0	05:43:04	70.2	05:43:53
1228	2021-04-12	05:44:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	53.8	05:44:59	57.8	05:44:36	71.3	05:44:11
1229	2021-04-12	05:45:00	00:01:00.0	00:01:00.0	00:00:00.0	56.9	74.7	53.8	05:45:02	60.1	05:45:27	72.9	05:45:27
1230	2021-04-12	05:46:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	54.2	05:46:05	57.3	05:46:59	71.1	05:46:59
1231	2021-04-12	05:47:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	53.8	05:47:57	58.4	05:47:01	71.1	05:47:00
1232	2021-04-12	05:48:00	00:01:00.0	00:01:00.0	00:00:00.0	54.9	72.7	53.4	05:48:15	57.1	05:48:59	69.6	05:48:58
1233	2021-04-12	05:49:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	52.5	05:49:15	56.4	05:49:00	69.6	05:49:00
1234	2021-04-12	05:50:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	53.5	05:50:59	57.0	05:50:29	70.0	05:50:26
1235	2021-04-12	05:51:00	00:01:00.0	00:01:00.0	00:00:00.0	53.4	71.2	52.2	05:51:28	54.6	05:51:42	67.9	05:51:42
1236	2021-04-12	05:52:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	52.8	05:52:17	57.0	05:52:56	69.4	05:52:37
1237	2021-04-12	05:53:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	54.2	05:53:31	57.7	05:53:02	70.4	05:53:01
1238	2021-04-12	05:54:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.3	53.1	05:54:47	56.7	05:54:25	69.1	05:54:24
1239	2021-04-12	05:55:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.8	53.4	05:55:29	56.5	05:55:39	70.3	05:55:36
1240	2021-04-12	05:56:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	53.4	05:56:09	56.9	05:56:01	69.4	05:56:00
1241	2021-04-12	05:57:00	00:01:00.0	00:01:00.0	00:00:00.0	54.1	71.9	53.1	05:57:30	56.6	05:57:00	70.9	05:57:04
1242	2021-04-12	05:58:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	53.8	05:58:58	56.8	05:58:24	73.2	05:58:48
1243	2021-04-12	05:59:00	00:01:00.0	00:01:00.0	00:00:00.0	54.6	72.4	53.4	05:59:03	55.7	05:59:58	73.5	05:59:43
1244	2021-04-12	06:00:00	00:01:00.0	00:01:00.0	00:00:00.0	54.3	72.1	53.3	06:00:32	55.3	06:00:22	70.7	06:00:01
1245	2021-04-12	06:01:00	00:01:00.0	00:01:00.0	00:00:00.0	54.2	71.9	52.6	06:01:44	55.4	06:01:07	68.4	06:01:10
1246	2021-04-12	06:02:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	52.4	06:02:03	61.0	06:02:42	80.6	06:02:42
1247	2021-04-12	06:03:00	00:01:00.0	00:01:00.0	00:00:00.0	55.6	73.4	54.3	06:03:29	59.3	06:03:02	78.4	06:03:01
1248	2021-04-12	06:04:00	00:01:00.0	00:01:00.0	00:00:00.0	55.2	73.0	53.8	06:04:52	58.8	06:04:59	76.7	06:04:58
1249	2021-04-12	06:05:00	00:01:00.0	00:01:00.0	00:00:00.0	56.3	74.1	54.6	06:05:42	59.7	06:05:06	77.4	06:05:05
1250	2021-04-12	06:06:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	74.0	54.8	06:06:41	58.1	06:06:59	76.6	06:06:49
1251	2021-04-12	06:07:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	54.7	06:07:25	57.5	06:07:00	74.7	06:07:00
1252	2021-04-12	06:08:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.8	54.9	06:08:11	57.9	06:08:41	73.0	06:08:41
1253	2021-04-12	06:09:00	00:01:00.0	00:01:00.0	00:00:00.0	56.2	73.9	54.8	06:09:42	57.3	06:09:35	69.9	06:09:21
1254	2021-04-12	06:10:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	55.6	06:10:11	57.7	06:10:53	71.7	06:10:35
1255	2021-04-12	06:11:00	00:01:00.0	00:01:00.0	00:00:00.0	55.5	73.3	54.0	06:11:22	57.2	06:11:55	70.5	06:11:38
1256	2021-04-12	06:12:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	53.9	06:12:25	56.8	06:12:04	75.6	06:12:04
1257	2021-04-12	06:13:00	00:01:00.0	00:01:00.0	00:00:00.0	55.8	73.6	54.6	06:13:51	57.3	06:13:22	71.2	06:13:19
1258	2021-04-12	06:14:00	00:01:00.0	00:01:00.0	00:00:00.0	56.0	73.8	53.7	06:14:16	58.5	06:14:57	70.9	06:14:45
1259	2021-04-12	06:15:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.5	55.0	06:15:47	60.2	06:15:08	74.3	06:15:08
1260	2021-04-12	06:16:00	00:01:00.0	00:01:00.0	00:00:00.0	57.2	75.0	55.9	06:16:55	61.8	06:16:38	83.7	06:16:38
1261	2021-04-12	06:17:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	55.8	06:17:51	57.8	06:17:42	70.9	06:17:32
1262	2021-04-12	06:18:00	00:01:00.0	00:01:00.0	00:00:00.0	56.4	74.2	55.4	06:18:15	57.4	06:18:57	71.1	06:18:49
1263	2021-04-12	06:19:00	00:01:00.0	00:01:00.0	00:00:00.0	56.1	73.9	55.3	06:19:34	57.1	06:19:03	70.1	06:19:11
1264	2021-04-12	06:20:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	53.2	06:20:52	57.5	06:20:00	70.8	06:20:00
1265	2021-04-12	06:21:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	52.9	06:21:10	55.7	06:21:48	69.2	06:21:47
1266	2021-04-12	06:22:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	53.5	06:22:55	60.0	06:22:34	72.6	06:22:33
1267	2021-04-12	06:23:00	00:01:00.0	00:01:00.0	00:00:00.0	52.9	70.7	51.6	06:23:28	54.9	06:23:56	67.6	06:23:53
1268	2021-04-12	06:24:00	00:01:00.0	00:01:00.0	00:00:00.0	53.6	71.4	51.9	06:24:36	56.3	06:24:55	72.5	06:24:09
1269	2021-04-12	06:25:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	49.5	06:25:37	53.1	06:25:00	69.6	06:25:00
1270	2021-04-12	06:26:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.0	49.3	06:26:22	52.6	06:26:54	82.7	06:26:17
1271	2021-04-12	06:27:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.3	49.4	06:27:54	51.8	06:27:19	65.2	06:27:17
1272	2021-04-12	06:28:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	49.1	06:28:50	50.6	06:28:13	63.9	06:28:38
1273	2021-04-12	06:29:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.8	49.2	06:29:00	53.9	06:29:33	69.2	06:29:31
1274	2021-04-12	06:30:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.0	06:30:27	56.3	06:30:32	70.5	06:30:32

1275	2021-04-12	06:31:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	49.6	06:31:20	52.9	06:31:00	66.8	06:31:52
1276	2021-04-12	06:32:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.4	06:32:50	53.6	06:32:42	68.8	06:32:25
1277	2021-04-12	06:33:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	49.1	06:33:55	54.4	06:33:06	68.8	06:33:05
1278	2021-04-12	06:34:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	48.7	06:34:18	52.9	06:34:46	67.9	06:34:46
1279	2021-04-12	06:35:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.5	06:35:00	54.8	06:35:24	77.4	06:35:24
1280	2021-04-12	06:36:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	49.2	06:36:08	52.4	06:36:02	66.5	06:36:02
1281	2021-04-12	06:37:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.0	49.0	06:37:47	51.6	06:37:37	66.7	06:37:36
1282	2021-04-12	06:38:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.5	06:38:04	54.2	06:38:21	70.7	06:38:21
1283	2021-04-12	06:39:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.5	49.9	06:39:30	59.5	06:39:02	76.3	06:39:11
1284	2021-04-12	06:40:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.7	06:40:14	51.2	06:40:51	64.3	06:40:10
1285	2021-04-12	06:41:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.2	50.3	06:41:19	52.6	06:41:57	66.1	06:41:56
1286	2021-04-12	06:42:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	50.1	06:42:21	52.1	06:42:59	64.9	06:42:45
1287	2021-04-12	06:43:00	00:01:00.0	00:01:00.0	00:00:00.0	51.5	69.2	50.4	06:43:41	52.5	06:43:22	66.1	06:43:22
1288	2021-04-12	06:44:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	50.8	06:44:34	53.6	06:44:48	73.1	06:44:41
1289	2021-04-12	06:45:00	00:01:00.0	00:01:00.0	00:00:00.0	52.4	70.2	51.2	06:45:36	53.9	06:45:59	67.1	06:45:59
1290	2021-04-12	06:46:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.1	51.1	06:46:37	54.7	06:46:04	67.1	06:46:00
1291	2021-04-12	06:47:00	00:01:00.0	00:01:00.0	00:00:00.0	52.6	70.3	51.8	06:47:51	55.3	06:47:17	70.6	06:47:17
1292	2021-04-12	06:48:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.6	50.8	06:48:15	53.1	06:48:42	65.8	06:48:00
1293	2021-04-12	06:49:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	51.2	06:49:45	52.9	06:49:03	66.5	06:49:35
1294	2021-04-12	06:50:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.7	49.3	06:50:36	53.3	06:50:19	67.5	06:50:14
1295	2021-04-12	06:51:00	00:01:00.0	00:01:00.0	00:00:00.0	53.1	70.8	49.8	06:51:13	64.3	06:51:59	80.3	06:51:59
1296	2021-04-12	06:52:00	00:01:00.0	00:01:00.0	00:00:00.0	55.1	72.9	49.9	06:52:58	68.4	06:52:00	83.6	06:52:00
1297	2021-04-12	06:53:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	49.8	06:53:06	55.1	06:53:33	70.1	06:53:21
1298	2021-04-12	06:54:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.6	49.1	06:54:58	52.9	06:54:19	70.6	06:54:19
1299	2021-04-12	06:55:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.5	49.2	06:55:10	57.6	06:55:14	73.3	06:55:14
1300	2021-04-12	06:56:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	47.9	06:56:43	52.9	06:56:25	67.8	06:56:35
1301	2021-04-12	06:57:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	48.9	06:57:00	53.3	06:57:12	66.7	06:57:55
1302	2021-04-12	06:58:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	48.6	06:58:49	52.9	06:58:29	67.6	06:58:27
1303	2021-04-12	06:59:00	00:01:00.0	00:01:00.0	00:00:00.0	49.8	67.6	48.2	06:59:33	52.6	06:59:19	66.6	06:59:18
1304	2021-04-12	07:00:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	48.4	07:00:44	53.3	07:00:28	66.7	07:00:28
1305	2021-04-12	07:01:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	49.0	07:01:02	52.2	07:01:41	70.1	07:01:41
1306	2021-04-12	07:02:00	00:01:00.0	00:01:00.0	00:00:00.0	53.8	71.6	50.4	07:02:11	62.4	07:02:37	77.1	07:02:37
1307	2021-04-12	07:03:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	49.6	07:03:56	51.3	07:03:27	65.4	07:03:35
1308	2021-04-12	07:04:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	50.2	07:04:01	52.1	07:04:53	65.2	07:04:04
1309	2021-04-12	07:05:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	50.0	07:05:05	53.2	07:05:36	67.4	07:05:55
1310	2021-04-12	07:06:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	67.9	49.6	07:06:26	51.3	07:06:04	64.9	07:06:04
1311	2021-04-12	07:07:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.8	07:07:15	52.2	07:07:39	65.1	07:07:26
1312	2021-04-12	07:08:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.5	07:08:39	51.9	07:08:03	65.7	07:08:58
1313	2021-04-12	07:09:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.1	50.3	07:09:20	53.1	07:09:52	67.9	07:09:53
1314	2021-04-12	07:10:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	51.2	07:10:54	56.2	07:10:43	72.4	07:10:05
1315	2021-04-12	07:11:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	50.2	07:11:36	53.4	07:11:01	75.7	07:11:01
1316	2021-04-12	07:12:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	49.9	07:12:57	51.8	07:12:49	65.5	07:12:44
1317	2021-04-12	07:13:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	49.6	07:13:39	60.4	07:13:50	70.4	07:13:50
1318	2021-04-12	07:14:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.1	49.4	07:14:20	56.0	07:14:01	67.6	07:14:08
1319	2021-04-12	07:15:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	49.3	07:15:47	54.4	07:15:01	72.2	07:15:00
1320	2021-04-12	07:16:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	49.5	07:16:00	51.5	07:16:57	64.5	07:16:59
1321	2021-04-12	07:17:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	50.0	07:17:59	52.1	07:17:43	67.3	07:17:55
1322	2021-04-12	07:18:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.5	49.0	07:18:58	50.6	07:18:23	66.8	07:18:16
1323	2021-04-12	07:19:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	48.9	07:19:04	52.7	07:19:36	69.5	07:19:36
1324	2021-04-12	07:20:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.8	07:20:58	51.4	07:20:52	64.1	07:20:04
1325	2021-04-12	07:21:00	00:01:00.0	00:01:00.0	00:00:00.0	51.2	69.0	49.4	07:21:34	54.6	07:21:18	66.7	07:21:24
1326	2021-04-12	07:22:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	49.5	07:22:18	51.6	07:22:58	67.2	07:22:08
1327	2021-04-12	07:23:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	49.6	07:23:29	51.8	07:23:53	67.3	07:23:08
1328	2021-04-12	07:24:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	49.4	07:24:15	58.2	07:24:42	74.2	07:24:42
1329	2021-04-12	07:25:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	49.2	07:25:10	50.8	07:25:29	65.1	07:25:29
1330	2021-04-12	07:26:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	49.1	07:26:16	56.8	07:26:08	77.4	07:26:08
1331	2021-04-12	07:27:00	00:01:00.0	00:01:00.0	00:00:00.0	50.0	67.8	48.9	07:27:26	51.4	07:27:27	75.1	07:27:26
1332	2021-04-12	07:28:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.4	48.3	07:28:46	60.3	07:28:09	80.4	07:28:09
1333	2021-04-12	07:29:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.2	47.7	07:29:59	49.2	07:29:24	64.5	07:29:24
1334	2021-04-12	07:30:00	00:01:00.0	00:01:00.0	00:00:00.0	47.9	65.7	47.3	07:30:06	49.0	07:30:20	63.2	07:30:23
1335	2021-04-12	07:31:00	00:01:00.0	00:01:00.0	00:00:00.0	49.0	66.8	47.1	07:31:32	55.0	07:31:15	75.0	07:31:15
1336	2021-04-12	07:32:00	00:01:00.0	00:01:00.0	00:00:00.0	51.8	69.6	49.5	07:32:33	60.1	07:32:21	88.7	07:32:21
1337	2021-04-12	07:33:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.5	49.7	07:33:26	54.4	07:33:10	73.4	07:33:58
1338	2021-04-12	07:34:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.4	49.5	07:34:51	55.3	07:34:07	78.8	07:34:07
1339	2021-04-12	07:35:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	49.2	07:35:59	57.5	07:35:45	77.8	07:35:43
1340	2021-04-12	07:36:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	47.5	07:36:20	51.2	07:36:42	64.5	07:36:00
1341	2021-04-12	07:37:00	00:01:00.0	00:01:00.0	00:00:00.0	67.4	85.2	49.0	07:37:00	74.8	07:37:47	90.3	07:37:42
1342	2021-04-12	07:38:00	00:01:00.0	00:01:00.0	00:00:00.0	60.8	78.6	51.2	07:38:26	68.9	07:38:33	90.7	07:38:33
1343	2021-04-12	07:39:00	00:01:00.0	00:01:00.0	00:00:00.0	63.8	81.6	59.2	07:39:40	66.6	07:39:00	85.2	07:39:57
1344	2021-04-12	07:40:00	00:01:00.0	00:01:00.0	00:00:00.0	63.3	81.1	51.9	07:40:48	68.3	07:40:18	87.6	07:40:01
1345	2021-04-12	07:41:00	00:01:00.0	00:01:00.0	00:00:00.0	53.3	71.1	48.6	07:41:23	57.9	07:41:59	73.8	07:41:58
1346	2021-04-12	07:42:00	00:01:00.0	00:01:00.0	00:00:00.0	58.3	76.0	50.3	07:42:28	63.1	07:42:12	78.0	07:42:05
1347	2021-04-12	07:43:00	00:01:00.0	00:01:00.0	00:00:00.0	62.0	79.8	49.9	07:43:09	69.9	07:43:58	90.7	07:43:58
1348	2021-04-12	07:44:00	00:01:00.0	00:01:00.0	00:00:00.0	64.3	82.1	59.0	07:44:36	68.4	07:44:02	87.4	07:44:01
1349	2021-04-12	07:45:00	00:01:00.0	00:01:00.0	00:00:00.0	68.3	86.1	62.1	07:45:25	73.7	07:45:40	93.6	07:45:38

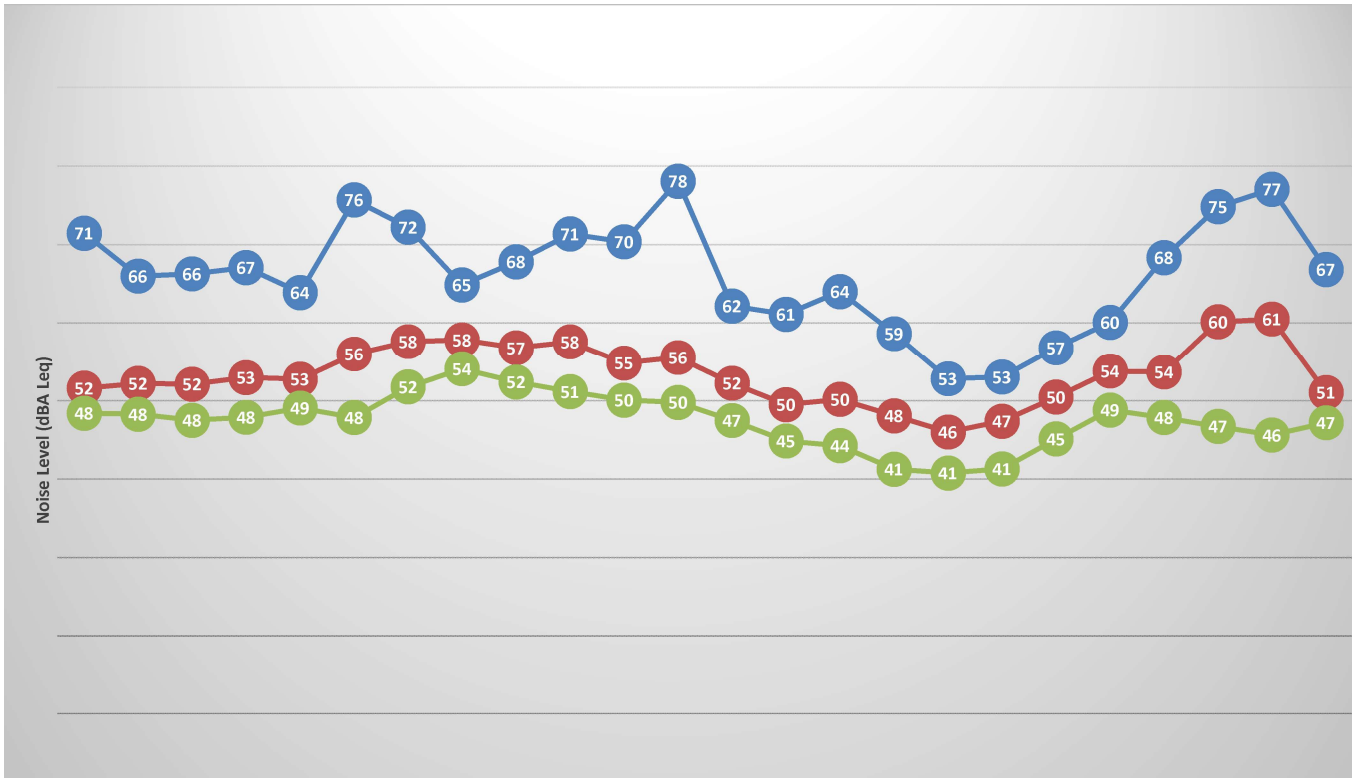
1350	2021-04-12	07:46:00	00:01:00.0	00:01:00.0	00:00:00.0	70.1	87.9	63.3	07:46:35	73.1	07:46:06	94.6	07:46:05
1351	2021-04-12	07:47:00	00:01:00.0	00:01:00.0	00:00:00.0	66.6	84.4	60.1	07:47:59	69.8	07:47:16	91.9	07:47:15
1352	2021-04-12	07:48:00	00:01:00.0	00:01:00.0	00:00:00.0	61.6	79.4	58.3	07:48:20	63.3	07:48:06	81.9	07:48:54
1353	2021-04-12	07:49:00	00:01:00.0	00:01:00.0	00:00:00.0	68.1	85.9	62.4	07:49:00	74.3	07:49:59	94.4	07:49:59
1354	2021-04-12	07:50:00	00:01:00.0	00:01:00.0	00:00:00.0	66.7	84.4	58.6	07:50:59	74.7	07:50:00	94.4	07:50:00
1355	2021-04-12	07:51:00	00:01:00.0	00:01:00.0	00:00:00.0	64.8	82.6	58.8	07:51:59	68.6	07:51:20	88.0	07:51:19
1356	2021-04-12	07:52:00	00:01:00.0	00:01:00.0	00:00:00.0	53.2	71.0	47.5	07:52:14	59.0	07:52:55	76.2	07:52:54
1357	2021-04-12	07:53:00	00:01:00.0	00:01:00.0	00:00:00.0	59.7	77.5	48.7	07:53:44	65.4	07:53:22	80.1	07:53:18
1358	2021-04-12	07:54:00	00:01:00.0	00:01:00.0	00:00:00.0	57.3	75.0	49.8	07:54:13	63.8	07:54:59	78.9	07:54:40
1359	2021-04-12	07:55:00	00:01:00.0	00:01:00.0	00:00:00.0	57.9	75.7	48.9	07:55:48	65.9	07:55:07	80.7	07:55:00
1360	2021-04-12	07:56:00	00:01:00.0	00:01:00.0	00:00:00.0	61.3	79.0	50.2	07:56:04	65.7	07:56:38	81.9	07:56:30
1361	2021-04-12	07:57:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	47.2	07:57:57	56.1	07:57:00	77.0	07:57:08
1362	2021-04-12	07:58:00	00:01:00.0	00:01:00.0	00:00:00.0	48.3	66.1	46.7	07:58:11	50.7	07:58:55	73.5	07:58:04
1363	2021-04-12	07:59:00	00:01:00.0	00:01:00.0	00:00:00.0	56.7	74.5	48.9	07:59:07	65.6	07:59:59	79.8	07:59:59
1364	2021-04-12	08:00:00	00:01:00.0	00:01:00.0	00:00:00.0	62.5	80.3	47.6	08:00:57	68.6	08:00:12	85.1	08:00:12
1365	2021-04-12	08:01:00	00:01:00.0	00:01:00.0	00:00:00.0	51.4	69.2	47.5	08:01:08	60.7	08:01:24	71.8	08:01:24
1366	2021-04-12	08:02:00	00:01:00.0	00:01:00.0	00:00:00.0	48.9	66.7	47.2	08:02:03	51.8	08:02:22	73.3	08:02:47
1367	2021-04-12	08:03:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	48.1	08:03:26	54.5	08:03:55	76.0	08:03:59
1368	2021-04-12	08:04:00	00:01:00.0	00:01:00.0	00:00:00.0	55.0	72.8	49.9	08:04:49	60.5	08:04:19	78.8	08:04:18
1369	2021-04-12	08:05:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.8	48.6	08:05:53	53.1	08:05:38	71.8	08:05:44
1370	2021-04-12	08:06:00	00:01:00.0	00:01:00.0	00:00:00.0	50.7	68.5	48.4	08:06:09	55.6	08:06:45	80.8	08:06:42
1371	2021-04-12	08:07:00	00:01:00.0	00:01:00.0	00:00:00.0	50.2	68.0	48.3	08:07:58	57.4	08:07:12	71.2	08:07:33
1372	2021-04-12	08:08:00	00:01:00.0	00:01:00.0	00:00:00.0	49.1	66.9	48.1	08:08:12	51.2	08:08:42	74.4	08:08:38
1373	2021-04-12	08:09:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	48.8	08:09:41	53.7	08:09:13	67.5	08:09:13
1374	2021-04-12	08:10:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	49.3	08:10:02	60.3	08:10:56	76.4	08:10:42
1375	2021-04-12	08:11:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.5	50.0	08:11:56	62.7	08:11:09	76.6	08:11:09
1376	2021-04-12	08:12:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	49.1	08:12:34	51.3	08:12:51	64.1	08:12:20
1377	2021-04-12	08:13:00	00:01:00.0	00:01:00.0	00:00:00.0	53.5	71.3	49.9	08:13:03	57.7	08:13:55	71.3	08:13:50
1378	2021-04-12	08:14:00	00:01:00.0	00:01:00.0	00:00:00.0	69.7	87.5	56.6	08:14:00	74.4	08:14:16	92.7	08:14:15
1379	2021-04-12	08:15:00	00:01:00.0	00:01:00.0	00:00:00.0	72.8	90.5	67.4	08:15:32	77.1	08:15:14	95.2	08:15:13
1380	2021-04-12	08:16:00	00:01:00.0	00:01:00.0	00:00:00.0	68.0	85.7	65.0	08:16:30	70.8	08:16:52	86.3	08:16:47
1381	2021-04-12	08:17:00	00:01:00.0	00:01:00.0	00:00:00.0	64.3	82.1	60.3	08:17:49	68.5	08:17:18	83.6	08:17:01
1382	2021-04-12	08:18:00	00:01:00.0	00:01:00.0	00:00:00.0	66.1	83.9	60.7	08:18:02	68.8	08:18:30	85.3	08:18:13
1383	2021-04-12	08:19:00	00:01:00.0	00:01:00.0	00:00:00.0	68.6	86.4	63.3	08:19:23	72.6	08:19:41	88.3	08:19:40
1384	2021-04-12	08:20:00	00:01:00.0	00:01:00.0	00:00:00.0	69.4	87.2	61.7	08:20:53	74.0	08:20:18	90.0	08:20:48
1385	2021-04-12	08:21:00	00:01:00.0	00:01:00.0	00:00:00.0	59.6	77.4	50.0	08:21:50	67.6	08:21:07	84.2	08:21:01
1386	2021-04-12	08:22:00	00:01:00.0	00:01:00.0	00:00:00.0	54.8	72.6	50.6	08:22:16	60.1	08:22:19	79.6	08:22:19
1387	2021-04-12	08:23:00	00:01:00.0	00:01:00.0	00:00:00.0	60.3	78.1	52.6	08:23:10	64.4	08:23:38	79.4	08:23:41
1388	2021-04-12	08:24:00	00:01:00.0	00:01:00.0	00:00:00.0	52.8	70.6	47.8	08:24:35	60.1	08:24:00	74.6	08:24:00
1389	2021-04-12	08:25:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	47.5	08:25:59	56.0	08:25:33	72.6	08:25:32
1390	2021-04-12	08:26:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	46.1	08:26:59	48.9	08:26:45	64.9	08:26:42
1391	2021-04-12	08:27:00	00:01:00.0	00:01:00.0	00:00:00.0	46.6	64.3	45.7	08:27:04	48.0	08:27:59	60.0	08:27:29
1392	2021-04-12	08:28:00	00:01:00.0	00:01:00.0	00:00:00.0	47.5	65.3	46.7	08:28:46	48.5	08:28:02	65.4	08:28:28
1393	2021-04-12	08:29:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	46.7	08:29:33	49.4	08:29:59	62.7	08:29:48
1394	2021-04-12	08:30:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	47.1	08:30:39	51.6	08:30:59	65.4	08:30:15
1395	2021-04-12	08:31:00	00:01:00.0	00:01:00.0	00:00:00.0	49.7	67.5	46.7	08:31:43	53.6	08:31:22	65.5	08:31:15
1396	2021-04-12	08:32:00	00:01:00.0	00:01:00.0	00:00:00.0	47.8	65.6	46.4	08:32:52	53.4	08:32:39	66.5	08:32:16
1397	2021-04-12	08:33:00	00:01:00.0	00:01:00.0	00:00:00.0	52.3	70.0	46.2	08:33:02	62.9	08:33:40	81.9	08:33:23
1398	2021-04-12	08:34:00	00:01:00.0	00:01:00.0	00:00:00.0	53.7	71.5	47.4	08:34:15	60.3	08:34:55	78.0	08:34:50
1399	2021-04-12	08:35:00	00:01:00.0	00:01:00.0	00:00:00.0	54.4	72.2	47.1	08:35:36	62.3	08:35:40	81.0	08:35:38
1400	2021-04-12	08:36:00	00:01:00.0	00:01:00.0	00:00:00.0	56.6	74.4	48.1	08:36:00	65.0	08:36:14	82.3	08:36:14
1401	2021-04-12	08:37:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	45.6	08:37:48	52.7	08:37:04	65.2	08:37:04
1402	2021-04-12	08:38:00	00:01:00.0	00:01:00.0	00:00:00.0	47.1	64.9	46.0	08:38:05	49.0	08:38:40	64.9	08:38:06
1403	2021-04-12	08:39:00	00:01:00.0	00:01:00.0	00:00:00.0	47.3	65.1	46.4	08:39:16	48.3	08:39:28	63.2	08:39:32
1404	2021-04-12	08:40:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	46.5	08:40:42	55.9	08:40:56	78.6	08:40:56
1405	2021-04-12	08:41:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	47.0	08:41:44	58.1	08:41:09	69.8	08:41:09
1406	2021-04-12	08:42:00	00:01:00.0	00:01:00.0	00:00:00.0	47.6	65.3	46.4	08:42:50	49.6	08:42:00	66.0	08:42:08
1407	2021-04-12	08:43:00	00:01:00.0	00:01:00.0	00:00:00.0	47.2	65.0	46.1	08:43:14	49.8	08:43:40	64.3	08:43:20
1408	2021-04-12	08:44:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.2	46.4	08:44:37	55.3	08:44:49	71.4	08:44:38
1409	2021-04-12	08:45:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.2	47.4	08:45:45	56.3	08:45:03	71.4	08:45:03
1410	2021-04-12	08:46:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	46.7	08:46:59	61.5	08:46:35	75.9	08:46:39
1411	2021-04-12	08:47:00	00:01:00.0	00:01:00.0	00:00:00.0	48.1	65.9	46.7	08:47:00	50.4	08:47:42	64.3	08:47:42
1412	2021-04-12	08:48:00	00:01:00.0	00:01:00.0	00:00:00.0	49.3	67.1	46.8	08:48:38	54.3	08:48:45	70.2	08:48:45
1413	2021-04-12	08:49:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.1	47.4	08:49:59	53.3	08:49:44	71.1	08:49:54
1414	2021-04-12	08:50:00	00:01:00.0	00:01:00.0	00:00:00.0	48.5	66.2	47.3	08:50:00	51.5	08:50:40	67.5	08:50:40
1415	2021-04-12	08:51:00	00:01:00.0	00:01:00.0	00:00:00.0	48.2	66.0	47.2	08:51:26	52.0	08:51:31	70.6	08:51:30
1416	2021-04-12	08:52:00	00:01:00.0	00:01:00.0	00:00:00.0	55.4	73.2	47.5	08:52:56	69.2	08:52:07	86.3	08:52:06
1417	2021-04-12	08:53:00	00:01:00.0	00:01:00.0	00:00:00.0	49.4	67.2	47.6	08:53:45	54.7	08:53:57	72.9	08:53:56
1418	2021-04-12	08:54:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	47.5	08:54:32	62.8	08:54:20	80.5	08:54:20
1419	2021-04-12	08:55:00	00:01:00.0	00:01:00.0	00:00:00.0	52.1	69.9	49.0	08:55:00	55.0	08:55:39	70.1	08:55:45
1420	2021-04-12	08:56:00	00:01:00.0	00:01:00.0	00:00:00.0	51.3	69.1	48.7	08:56:52	54.9	08:56:41	71.8	08:56:37
1421	2021-04-12	08:57:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	48.6	08:57:58	53.8	08:57:26	68.5	08:57:28
1422	2021-04-12	08:58:00	00:01:00.0	00:01:00.0	00:00:00.0	50.9	68.7	48.7	08:58:31	53.8	08:58:49	69.6	08:58:49
1423	2021-04-12	08:59:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	47.4	08:59:21	53.1	08:59:10	68.1	08:59:49
1424	2021-04-12	09:00:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	47.3	09:00:38	50.9	09:00:03	68.3	09:00:24

1425	2021-04-12	09:01:00	00:01:00.0	00:01:00.0	00:00:00.0	48.7	66.5	47.7	09:01:34	50.3	09:01:48	68.6	09:01:30
1426	2021-04-12	09:02:00	00:01:00.0	00:01:00.0	00:00:00.0	49.2	67.0	48.4	09:02:22	50.1	09:02:13	72.7	09:02:22
1427	2021-04-12	09:03:00	00:01:00.0	00:01:00.0	00:00:00.0	53.9	71.7	48.7	09:03:02	58.1	09:03:53	69.1	09:03:28
1428	2021-04-12	09:04:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.8	09:04:42	53.7	09:04:00	68.2	09:04:00
1429	2021-04-12	09:05:00	00:01:00.0	00:01:00.0	00:00:00.0	50.3	68.0	49.3	09:05:53	51.5	09:05:18	69.6	09:05:22
1430	2021-04-12	09:06:00	00:01:00.0	00:01:00.0	00:00:00.0	49.5	67.3	48.7	09:06:41	50.4	09:06:59	64.5	09:06:52
1431	2021-04-12	09:07:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.3	49.1	09:07:18	53.4	09:07:59	69.2	09:07:35
1432	2021-04-12	09:08:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.3	09:08:42	54.5	09:08:06	68.9	09:08:04
1433	2021-04-12	09:09:00	00:01:00.0	00:01:00.0	00:00:00.0	50.4	68.2	48.9	09:09:07	53.4	09:09:51	71.2	09:09:51
1434	2021-04-12	09:10:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.6	09:10:36	52.0	09:10:06	65.5	09:10:37
1435	2021-04-12	09:11:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.4	50.3	09:11:05	57.6	09:11:33	72.3	09:11:33
1436	2021-04-12	09:12:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.9	09:12:19	56.2	09:12:49	75.0	09:12:49
1437	2021-04-12	09:13:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	50.5	09:13:54	52.0	09:13:13	65.4	09:13:47
1438	2021-04-12	09:14:00	00:01:00.0	00:01:00.0	00:00:00.0	52.0	69.8	50.3	09:14:54	54.8	09:14:40	68.8	09:14:40
1439	2021-04-12	09:15:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.7	09:15:20	52.9	09:15:01	65.5	09:15:01
1440	2021-04-12	09:16:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	49.4	09:16:37	51.5	09:16:27	65.7	09:16:12
1441	2021-04-12	09:17:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	49.4	09:17:33	51.5	09:17:03	64.3	09:17:02
1442	2021-04-12	09:18:00	00:01:00.0	00:01:00.0	00:00:00.0	50.1	67.9	49.2	09:18:06	53.8	09:18:53	66.8	09:18:54
1443	2021-04-12	09:19:00	00:01:00.0	00:01:00.0	00:00:00.0	51.6	69.3	49.2	09:19:20	55.7	09:19:30	70.2	09:19:30
1444	2021-04-12	09:20:00	00:01:00.0	00:01:00.0	00:00:00.0	51.9	69.7	49.3	09:20:54	56.9	09:20:17	72.2	09:20:48
1445	2021-04-12	09:21:00	00:01:00.0	00:01:00.0	00:00:00.0	51.0	68.8	49.3	09:21:08	57.5	09:21:49	76.0	09:21:49
1446	2021-04-12	09:22:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.3	49.6	09:22:02	51.7	09:22:55	71.4	09:22:26
1447	2021-04-12	09:23:00	00:01:00.0	00:01:00.0	00:00:00.0	50.6	68.4	49.8	09:23:41	53.9	09:23:54	66.0	09:23:53
1448	2021-04-12	09:24:00	00:01:00.0	00:01:00.0	00:00:00.0	50.8	68.6	49.9	09:24:17	52.8	09:24:59	69.1	09:24:57
1449	2021-04-12	09:25:00	00:01:00.0	00:01:00.0	00:00:00.0	50.5	68.3	49.7	09:25:24	52.8	09:25:28	73.7	09:25:04
1450	2021-04-12	09:26:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.9	49.0	09:26:52	55.7	09:26:26	70.7	09:26:25
1451	2021-04-12	09:27:00	00:01:00.0	00:01:00.0	00:00:00.0	49.9	67.7	49.1	09:27:04	51.4	09:27:41	65.1	09:27:41
1452	2021-04-12	09:28:00	00:01:00.0	00:01:00.0	00:00:00.0	51.1	68.8	49.6	09:28:15	55.7	09:28:45	72.5	09:28:45
1453	2021-04-12	09:29:00	00:01:00.0	00:01:00.0	00:00:00.0	51.7	69.5	50.5	09:29:01	53.2	09:29:12	68.6	09:29:08
1454	2021-04-12	09:30:00	00:01:00.0	00:01:00.0	00:00:00.0	55.9	73.7	50.4	09:30:05	64.5	09:30:38	89.9	09:30:38
1455	2021-04-12	09:31:00	00:00:20.8	00:00:20.8	00:00:00.0	69.2	82.3	52.5	09:31:00	78.7	09:31:07	105.2	09:31:06

Ambient Noise Measurement

Hour	Max	Leq	Min	Peak		Max	Leq	Min	Peak
10:00 AM	71	52	48	97	7:00 PM	71	58	51	87
11:00 AM	66	52	48	87	8:00 PM	70	55	50	84
12:00 PM	66	52	48	85	9:00 PM	78	56	50	91
1:00 PM	67	53	48	86	10:00 PM	62	52	47	79
2:00 PM	64	53	49	80	11:00 PM	61	50	45	72
3:00 PM	76	56	48	95	12:00 AM	64	50	44	78
4:00 PM	72	58	52	89	1:00 AM	59	48	41	74
5:00 PM	65	58	54	87	2:00 AM	53	46	41	67
6:00 PM	68	57	52	83	3:00 AM	53	47	41	69
7:00 PM	71	58	51	87	4:00 AM	57	50	45	71
8:00 PM	70	55	50	84	5:00 AM	60	54	49	83
9:00 PM	78	56	50	91	6:00 AM	68	54	48	84
10:00 PM	62	52	47	79	7:00 AM	75	60	47	95
11:00 PM	61	50	45	72	8:00 AM	77	61	46	95
12:00 AM	64	50	44	78	9:00 AM	67	51	47	82
1:00 AM	59	48	41	74	10:00 AM	71	52	48	97
2:00 AM	53	46	41	67	11:00 AM	66	52	48	87
3:00 AM	53	47	41	69	12:00 PM	66	52	48	85
4:00 AM	57	50	45	71	1:00 PM	67	53	48	86
5:00 AM	60	54	49	83	2:00 PM	64	53	49	80
6:00 AM	68	54	48	84	3:00 PM	76	56	48	95
7:00 AM	75	60	47	95	4:00 PM	72	58	52	89
8:00 AM	77	61	46	95	5:00 PM	65	58	54	87
9:00 AM	67	51	47	82	6:00 PM	68	57	52	83
Max	78	61	54	97					
Min	53	46	41	67					

Villa Parke



Contribution levels of the receivers

Source name	Traffic lane	Level w/o NP Night dB(A)	Level w NP Night dB(A)
1 1.Fl		63.7	46.0
Backup Alarm	-	57.4	40.6
Circulation Tank Motor	-	60.2	42.5
Compressor	-	47.3	30.2
Drill Rig Motor	-	58.4	39.6
1 2.Fl		63.7	46.4
Backup Alarm	-	57.4	41.1
Circulation Tank Motor	-	60.2	43.0
Compressor	-	47.1	30.5
Drill Rig Motor	-	58.4	39.7
2 1.Fl		63.6	46.3
Backup Alarm	-	57.9	41.4
Circulation Tank Motor	-	60.0	43.2
Compressor	-	47.1	30.1
Drill Rig Motor	-	57.8	38.7
2 2.Fl		63.5	46.8
Backup Alarm	-	57.8	41.8
Circulation Tank Motor	-	60.0	43.8
Compressor	-	46.9	30.4
Drill Rig Motor	-	57.8	38.7
3 1.Fl		62.9	45.1
Backup Alarm	-	57.4	41.4
Circulation Tank Motor	-	59.3	40.6
Compressor	-	46.8	29.3
Drill Rig Motor	-	57.1	38.1
3 2.Fl		62.8	45.5
Backup Alarm	-	57.4	41.8
Circulation Tank Motor	-	59.3	41.2
Compressor	-	46.4	29.5
Drill Rig Motor	-	56.8	37.9
4 1.Fl		63.4	45.7
Backup Alarm	-	56.2	40.6
Circulation Tank Motor	-	59.8	41.5
Compressor	-	49.4	32.1
Drill Rig Motor	-	58.7	40.1
4 2.Fl		63.3	46.6
Backup Alarm	-	55.9	41.7
Circulation Tank Motor	-	59.7	42.7
Compressor	-	49.3	32.7
Drill Rig Motor	-	58.6	40.3
5 1.Fl		63.9	45.3
Backup Alarm	-	57.4	40.6
Circulation Tank Motor	-	60.2	41.3
Compressor	-	49.6	30.9
Drill Rig Motor	-	58.9	38.9
5 2.Fl		63.5	46.0
Backup Alarm	-	56.7	41.6
Circulation Tank Motor	-	60.0	42.2
Compressor	-	49.3	31.5
Drill Rig Motor	-	58.5	38.9
6 1.Fl		63.1	45.3
Backup Alarm	-	56.1	39.7
Circulation Tank Motor	-	59.3	41.9
Compressor	-	46.7	28.9
Drill Rig Motor	-	58.6	39.4
6 2.Fl		63.0	45.7
Backup Alarm	-	56.0	40.0
Circulation Tank Motor	-	59.3	42.4

Contribution levels of the receivers

Source name	Traffic lane	Level w/o NP Night dB(A)	Level w NP Night dB(A)
Compressor	-	46.3	29.1
Drill Rig Motor	-	58.5	39.6
7 1.Fl		63.1	44.8
Backup Alarm	-	55.9	36.9
Circulation Tank Motor	-	59.4	41.9
Compressor	-	46.9	28.6
Drill Rig Motor	-	58.6	39.6
7 2.Fl		63.0	45.0
Backup Alarm	-	55.6	36.7
Circulation Tank Motor	-	59.3	42.3
Compressor	-	46.4	28.7
Drill Rig Motor	-	58.5	39.6
8 1.Fl		62.2	43.2
Backup Alarm	-	54.9	38.0
Circulation Tank Motor	-	58.5	39.6
Compressor	-	46.1	28.7
Drill Rig Motor	-	57.8	36.5
8 2.Fl		61.8	43.0
Backup Alarm	-	54.1	37.5
Circulation Tank Motor	-	58.2	39.8
Compressor	-	45.3	28.4
Drill Rig Motor	-	57.4	36.5
9 1.Fl		61.7	42.0
Backup Alarm	-	54.2	38.2
Circulation Tank Motor	-	57.7	36.9
Compressor	-	46.0	28.3
Drill Rig Motor	-	57.7	35.8
9 2.Fl		61.0	41.6
Backup Alarm	-	53.1	37.6
Circulation Tank Motor	-	57.3	37.0
Compressor	-	44.9	27.7
Drill Rig Motor	-	56.9	35.2
10 1.Fl		61.1	42.2
Backup Alarm	-	54.4	39.0
Circulation Tank Motor	-	56.7	36.8
Compressor	-	44.9	27.8
Drill Rig Motor	-	57.2	35.4
10 2.Fl		60.4	41.8
Backup Alarm	-	53.2	38.3
Circulation Tank Motor	-	56.3	36.9
Compressor	-	43.8	26.9
Drill Rig Motor	-	56.3	34.4
11 1.Fl		62.6	45.6
Backup Alarm	-	55.6	40.4
Circulation Tank Motor	-	58.7	41.5
Compressor	-	47.7	30.8
Drill Rig Motor	-	58.1	40.1
11 2.Fl		62.3	46.0
Backup Alarm	-	54.9	40.8
Circulation Tank Motor	-	58.6	42.3
Compressor	-	47.6	31.0
Drill Rig Motor	-	57.8	39.9
12 1.Fl		60.1	43.2
Backup Alarm	-	53.8	39.3
Circulation Tank Motor	-	56.2	38.4
Compressor	-	45.6	29.3
Drill Rig Motor	-	55.1	36.4

Contribution levels of the receivers

Source name	Traffic lane	Level w/o NP Night dB(A)	Level w NP Night dB(A)
12 2.Fl		59.3	42.9
Backup Alarm	-	52.7	38.9
Circulation Tank Motor	-	55.8	38.7
Compressor	-	44.7	28.7
Drill Rig Motor	-	54.2	35.6
13 1.Fl		60.2	42.4
Backup Alarm	-	52.8	39.1
Circulation Tank Motor	-	56.3	36.6
Compressor	-	44.3	28.2
Drill Rig Motor	-	56.1	36.2
13 2.Fl		59.2	41.9
Backup Alarm	-	51.4	38.6
Circulation Tank Motor	-	55.6	36.4
Compressor	-	43.2	27.3
Drill Rig Motor	-	54.9	35.0
14 1.Fl		61.8	45.1
Backup Alarm	-	56.4	41.8
Circulation Tank Motor	-	58.1	39.7
Compressor	-	46.1	28.6
Drill Rig Motor	-	56.2	38.7
14 2.Fl		61.6	45.3
Backup Alarm	-	56.3	42.1
Circulation Tank Motor	-	58.0	40.2
Compressor	-	45.4	28.5
Drill Rig Motor	-	55.5	38.1
15 1.Fl		61.1	45.0
Backup Alarm	-	55.8	41.8
Circulation Tank Motor	-	57.3	40.0
Compressor	-	45.6	28.2
Drill Rig Motor	-	55.3	37.5
15 2.Fl		60.8	45.1
Backup Alarm	-	55.5	41.8
Circulation Tank Motor	-	57.2	40.5
Compressor	-	44.9	27.9
Drill Rig Motor	-	54.4	36.8
16 1.Fl		59.5	46.0
Backup Alarm	-	54.2	44.3
Circulation Tank Motor	-	55.5	39.2
Compressor	-	44.5	26.8
Drill Rig Motor	-	53.8	35.7
16 2.Fl		58.8	45.6
Backup Alarm	-	53.4	43.8
Circulation Tank Motor	-	55.3	39.5
Compressor	-	43.4	26.0
Drill Rig Motor	-	52.6	34.7
17 1.Fl		50.3	37.8
Backup Alarm	-	38.8	33.8
Circulation Tank Motor	-	44.6	33.0
Compressor	-	37.3	24.8
Drill Rig Motor	-	48.1	31.0
17 2.Fl		50.7	37.0
Backup Alarm	-	40.3	33.2
Circulation Tank Motor	-	46.2	32.5
Compressor	-	37.3	23.8
Drill Rig Motor	-	47.7	29.7
19 1.Fl		57.2	38.5
Backup Alarm	-	45.6	32.7
Circulation Tank Motor	-	53.9	34.7

Contribution levels of the receivers

Source name	Traffic lane	Level w/o NP Night dB(A)	Level w NP Night dB(A)
Compressor	-	42.9	25.4
Drill Rig Motor	-	53.5	32.7
19 2.Fl		56.2	37.6
Backup Alarm	-	45.3	32.0
Circulation Tank Motor	-	53.0	34.0
Compressor	-	41.4	24.1
Drill Rig Motor	-	52.2	31.4
19 1.Fl		58.1	40.0
Backup Alarm	-	51.1	35.6
Circulation Tank Motor	-	54.2	36.0
Compressor	-	43.2	25.7
Drill Rig Motor	-	53.6	32.9
19 2.Fl		57.0	39.0
Backup Alarm	-	49.7	34.2
Circulation Tank Motor	-	53.4	35.4
Compressor	-	41.7	24.4
Drill Rig Motor	-	52.3	31.8
20 1.Fl		58.4	40.6
Backup Alarm	-	51.5	36.1
Circulation Tank Motor	-	54.1	36.6
Compressor	-	43.6	26.1
Drill Rig Motor	-	54.3	33.9
20 2.Fl		57.5	39.7
Backup Alarm	-	50.4	34.8
Circulation Tank Motor	-	53.5	36.2
Compressor	-	42.2	24.9
Drill Rig Motor	-	53.1	32.8
21 1.Fl		59.9	42.5
Backup Alarm	-	52.2	37.9
Circulation Tank Motor	-	56.5	37.9
Compressor	-	45.4	27.2
Drill Rig Motor	-	55.2	36.9
21 2.Fl		59.1	42.0
Backup Alarm	-	50.9	37.1
Circulation Tank Motor	-	56.0	38.0
Compressor	-	44.1	26.2
Drill Rig Motor	-	54.2	36.1
22 1.Fl		59.3	41.8
Backup Alarm	-	51.6	37.0
Circulation Tank Motor	-	56.0	37.4
Compressor	-	44.8	26.9
Drill Rig Motor	-	54.4	36.3
22 2.Fl		58.3	41.3
Backup Alarm	-	50.2	36.9
Circulation Tank Motor	-	55.2	37.0
Compressor	-	43.5	25.7
Drill Rig Motor	-	53.5	35.3
23 1.Fl		59.8	43.8
Backup Alarm	-	53.5	40.5
Circulation Tank Motor	-	55.9	38.7
Compressor	-	44.8	27.3
Drill Rig Motor	-	54.9	36.7
23 2.Fl		58.9	43.2
Backup Alarm	-	52.2	39.8
Circulation Tank Motor	-	55.3	38.5
Compressor	-	43.6	26.4
Drill Rig Motor	-	54.0	35.8

Contribution levels of the receivers

Source name	Traffic lane	Level w/o NP Night dB(A)	Level w NP Night dB(A)
24 1.Fl		60.1	43.1
Backup Alarm	-	53.4	39.2
Circulation Tank Motor	-	55.9	38.5
Compressor	-	44.8	27.2
Drill Rig Motor	-	55.8	36.6
24 2.Fl		59.1	42.6
Backup Alarm	-	52.1	38.7
Circulation Tank Motor	-	55.1	38.4
Compressor	-	43.5	26.3
Drill Rig Motor	-	54.7	35.7
25 1.Fl		58.5	41.3
Backup Alarm	-	53.0	37.1
Circulation Tank Motor	-	53.8	37.5
Compressor	-	44.3	26.6
Drill Rig Motor	-	53.7	33.4
25 2.Fl		57.3	40.6
Backup Alarm	-	51.5	36.2
Circulation Tank Motor	-	53.0	37.1
Compressor	-	42.9	25.5
Drill Rig Motor	-	52.6	32.2
26 1.Fl		57.8	41.1
Backup Alarm	-	50.5	35.3
Circulation Tank Motor	-	54.2	36.9
Compressor	-	42.9	26.7
Drill Rig Motor	-	53.1	36.0
26 2.Fl		56.6	40.1
Backup Alarm	-	49.0	34.4
Circulation Tank Motor	-	53.4	36.3
Compressor	-	41.6	25.5
Drill Rig Motor	-	51.7	34.7
27 1.Fl		57.3	40.1
Backup Alarm	-	50.1	35.0
Circulation Tank Motor	-	53.7	36.3
Compressor	-	42.5	26.1
Drill Rig Motor	-	52.5	33.7
27 2.Fl		56.0	39.1
Backup Alarm	-	48.6	34.1
Circulation Tank Motor	-	52.7	35.6
Compressor	-	40.9	24.8
Drill Rig Motor	-	51.1	32.3
29 1.Fl		58.0	46.3
Backup Alarm	-	52.5	45.1
Circulation Tank Motor	-	54.1	38.5
Compressor	-	43.2	27.1
Drill Rig Motor	-	52.3	34.8
29 2.Fl		56.9	45.5
Backup Alarm	-	51.3	44.2
Circulation Tank Motor	-	53.4	38.3
Compressor	-	41.8	26.0
Drill Rig Motor	-	50.8	33.6
30 1.Fl		57.3	44.1
Backup Alarm	-	51.8	42.2
Circulation Tank Motor	-	53.5	38.0
Compressor	-	42.5	25.8
Drill Rig Motor	-	51.7	34.3
30 2.Fl		56.1	43.4
Backup Alarm	-	50.4	41.3
Circulation Tank Motor	-	52.6	37.7

Contribution levels of the receivers

Source name	Traffic lane	Level w/o NP Night dB(A)	Level w NP Night dB(A)
Compressor	-	40.9	24.6
Drill Rig Motor	-	50.1	33.1
31 1.Fl		56.9	42.2
Backup Alarm	-	50.6	39.5
Circulation Tank Motor	-	53.4	37.1
Compressor	-	41.5	24.4
Drill Rig Motor	-	51.6	33.8
31 2.Fl		55.6	41.5
Backup Alarm	-	49.0	38.7
Circulation Tank Motor	-	52.3	36.6
Compressor	-	40.0	23.2
Drill Rig Motor	-	50.3	32.8
32 1.Fl		59.5	42.5
Backup Alarm	-	53.2	37.6
Circulation Tank Motor	-	55.5	38.8
Compressor	-	44.5	26.8
Drill Rig Motor	-	54.7	35.7
32 2.Fl		58.6	42.0
Backup Alarm	-	52.2	37.0
Circulation Tank Motor	-	55.0	38.8
Compressor	-	43.5	25.9
Drill Rig Motor	-	53.5	34.5
33 1.Fl		59.7	42.7
Backup Alarm	-	54.4	38.1
Circulation Tank Motor	-	55.5	39.2
Compressor	-	45.0	29.3
Drill Rig Motor	-	54.6	35.0
33 2.Fl		58.9	42.4
Backup Alarm	-	53.4	37.3
Circulation Tank Motor	-	55.1	39.5
Compressor	-	44.0	28.4
Drill Rig Motor	-	53.3	33.7
34 1.Fl		58.9	41.9
Backup Alarm	-	53.4	35.4
Circulation Tank Motor	-	55.2	39.1
Compressor	-	44.5	27.0
Drill Rig Motor	-	53.0	35.4
34 2.Fl		58.0	41.7
Backup Alarm	-	52.4	34.7
Circulation Tank Motor	-	54.7	39.3
Compressor	-	43.4	26.0
Drill Rig Motor	-	51.7	34.4
35 1.Fl		54.3	39.3
Backup Alarm	-	48.3	33.9
Circulation Tank Motor	-	50.6	36.1
Compressor	-	39.7	22.8
Drill Rig Motor	-	48.8	32.6
35 2.Fl		53.1	38.5
Backup Alarm	-	47.1	32.7
Circulation Tank Motor	-	49.4	35.4
Compressor	-	38.5	21.9
Drill Rig Motor	-	47.7	31.8
36 1.Fl		54.5	38.8
Backup Alarm	-	48.5	32.9
Circulation Tank Motor	-	50.9	35.5
Compressor	-	39.9	21.9
Drill Rig Motor	-	49.0	32.9

Contribution levels of the receivers

Source name	Traffic lane	Level w/o NP Night dB(A)	Level w NP Night dB(A)
36 2.Fl		53.3	38.0
Backup Alarm	-	47.2	31.7
Circulation Tank Motor	-	49.7	34.8
Compressor	-	38.7	20.9
Drill Rig Motor	-	47.8	32.1
37 1.Fl		41.1	36.5
Backup Alarm	-	34.1	28.5
Circulation Tank Motor	-	37.8	33.9
Compressor	-	28.2	22.0
Drill Rig Motor	-	35.4	30.5
37 2.Fl		44.9	36.4
Backup Alarm	-	37.5	29.5
Circulation Tank Motor	-	41.8	33.7
Compressor	-	31.3	21.5
Drill Rig Motor	-	39.6	29.9
38 1.Fl		54.6	38.9
Backup Alarm	-	48.6	33.4
Circulation Tank Motor	-	50.9	35.5
Compressor	-	40.0	21.9
Drill Rig Motor	-	49.2	32.5
38 2.Fl		53.3	38.0
Backup Alarm	-	47.2	32.4
Circulation Tank Motor	-	49.6	34.8
Compressor	-	38.8	20.9
Drill Rig Motor	-	48.1	31.7
39 1.Fl		55.0	40.1
Backup Alarm	-	48.8	36.8
Circulation Tank Motor	-	51.1	35.7
Compressor	-	40.2	20.5
Drill Rig Motor	-	50.0	32.0
39 2.Fl		53.7	39.6
Backup Alarm	-	47.4	36.7
Circulation Tank Motor	-	49.8	34.9
Compressor	-	38.9	19.3
Drill Rig Motor	-	48.9	31.0
40 1.Fl		56.0	40.3
Backup Alarm	-	51.6	37.3
Circulation Tank Motor	-	51.7	35.6
Compressor	-	40.2	23.1
Drill Rig Motor	-	49.8	31.8
40 2.Fl		54.8	39.5
Backup Alarm	-	50.3	36.6
Circulation Tank Motor	-	50.5	34.8
Compressor	-	38.9	22.0
Drill Rig Motor	-	48.7	30.9
41 1.Fl		55.3	38.0
Backup Alarm	-	49.6	33.1
Circulation Tank Motor	-	51.6	34.1
Compressor	-	40.5	23.2
Drill Rig Motor	-	49.8	31.7
41 2.Fl		54.2	37.2
Backup Alarm	-	48.5	32.5
Circulation Tank Motor	-	50.3	33.3
Compressor	-	39.2	22.0
Drill Rig Motor	-	48.7	30.8
42 1.Fl		55.0	39.2
Backup Alarm	-	41.9	30.6
Circulation Tank Motor	-	48.5	36.3

Contribution levels of the receivers

Source name	Traffic lane	Level w/o NP Night dB(A)	Level w NP Night dB(A)
Compressor	-	43.8	25.4
Drill Rig Motor	-	53.1	34.2
42 2.Fl		54.4	38.8
Backup Alarm	-	43.7	29.9
Circulation Tank Motor	-	49.2	36.4
Compressor	-	42.3	24.2
Drill Rig Motor	-	51.9	33.0
43 1.Fl		56.5	39.9
Backup Alarm	-	50.5	35.2
Circulation Tank Motor	-	52.8	36.1
Compressor	-	42.2	24.3
Drill Rig Motor	-	51.1	33.4
43 2.Fl		55.5	39.0
Backup Alarm	-	49.1	34.0
Circulation Tank Motor	-	52.1	35.3
Compressor	-	40.8	22.9
Drill Rig Motor	-	50.0	32.3
44 1.Fl		61.9	43.5
Backup Alarm	-	56.8	39.9
Circulation Tank Motor	-	58.0	38.9
Compressor	-	48.1	29.3
Drill Rig Motor	-	55.7	36.3
44 2.Fl		61.4	43.8
Backup Alarm	-	55.9	40.2
Circulation Tank Motor	-	57.9	39.6
Compressor	-	47.5	29.3
Drill Rig Motor	-	55.0	35.7
45 1.Fl		60.6	42.5
Backup Alarm	-	55.5	38.6
Circulation Tank Motor	-	57.9	38.8
Compressor	-	47.4	27.8
Drill Rig Motor	-	50.4	34.0
45 2.Fl		59.8	42.6
Backup Alarm	-	54.3	38.3
Circulation Tank Motor	-	57.5	39.3
Compressor	-	46.4	27.5
Drill Rig Motor	-	49.5	33.8
46 1.Fl		59.0	42.0
Backup Alarm	-	52.9	39.0
Circulation Tank Motor	-	55.3	36.7
Compressor	-	44.6	26.1
Drill Rig Motor	-	53.8	34.6
46 2.Fl		58.1	41.5
Backup Alarm	-	51.8	38.4
Circulation Tank Motor	-	54.6	36.8
Compressor	-	43.6	25.4
Drill Rig Motor	-	52.5	33.4
47 1.Fl		57.6	40.6
Backup Alarm	-	51.1	36.9
Circulation Tank Motor	-	53.6	35.7
Compressor	-	43.6	26.0
Drill Rig Motor	-	52.7	33.6
47 2.Fl		56.4	39.6
Backup Alarm	-	49.8	35.7
Circulation Tank Motor	-	52.8	35.4
Compressor	-	42.3	24.9
Drill Rig Motor	-	51.3	32.3

Contribution levels of the receivers

Source name	Traffic lane	Level w/o NP Night dB(A)	Level w NP Night dB(A)
48 1.Fl		58.6	40.9
Backup Alarm	-	51.7	37.1
Circulation Tank Motor	-	55.0	36.5
Compressor	-	43.9	26.4
Drill Rig Motor	-	53.7	33.6
48 2.Fl		57.4	40.1
Backup Alarm	-	50.4	36.3
Circulation Tank Motor	-	54.1	35.9
Compressor	-	42.6	25.3
Drill Rig Motor	-	52.3	32.4
49 1.Fl		58.6	41.2
Backup Alarm	-	53.1	38.1
Circulation Tank Motor	-	55.4	36.4
Compressor	-	45.1	25.8
Drill Rig Motor	-	51.2	32.7
49 2.Fl		57.3	40.2
Backup Alarm	-	51.6	37.2
Circulation Tank Motor	-	54.4	35.6
Compressor	-	43.6	24.4
Drill Rig Motor	-	49.9	31.6
50 1.Fl		58.7	41.1
Backup Alarm	-	52.7	38.0
Circulation Tank Motor	-	54.9	36.0
Compressor	-	43.7	24.8
Drill Rig Motor	-	53.5	33.4
50 2.Fl		57.5	40.2
Backup Alarm	-	51.3	37.2
Circulation Tank Motor	-	53.9	35.3
Compressor	-	42.3	23.5
Drill Rig Motor	-	52.2	32.2
51 1.Fl		56.1	39.4
Backup Alarm	-	45.2	35.0
Circulation Tank Motor	-	53.2	34.4
Compressor	-	38.2	24.5
Drill Rig Motor	-	52.0	33.9
51 2.Fl		54.9	38.5
Backup Alarm	-	45.2	34.6
Circulation Tank Motor	-	52.1	33.5
Compressor	-	37.8	23.3
Drill Rig Motor	-	50.4	32.6
51 1.Fl		56.5	39.7
Backup Alarm	-	52.2	35.9
Circulation Tank Motor	-	52.0	35.9
Compressor	-	41.6	23.6
Drill Rig Motor	-	50.4	31.6
51 2.Fl		55.1	38.7
Backup Alarm	-	50.7	34.8
Circulation Tank Motor	-	50.7	35.0
Compressor	-	40.0	22.3
Drill Rig Motor	-	49.0	30.6

Noise emissions of industry sources

Source name	Referen	Level		Frequency spectrum [dB(A)]												Corrections		
			dB(A)	8 Hz	16 Hz	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz	Cwall dB(A)	CI dB(A)	CT dB(A)
Circulation Tank Motor	Lw/unit	Day	104.8	37.8	38.8	56.8	77.8	82.8	92.8	97.8	99.8	99.8	93.8	84.8	74.8	-	-	-
Drill Rig Motor	Lw/unit	Day	103.3	33.5	37.5	57.5	75.5	84.5	89.5	95.5	98.5	98.5	92.5	85.5	80.5	-	-	-
Compressor	Lw/unit	Day	93.2	30.3	33.3	55.3	70.3	80.3	85.3	87.3	87.3	85.3	80.3	79.3	72.3	-	-	-
Backup Alarm	Lw/unit	Day	103.0	-	-	-	70.0	80.0	87.0	93.0	96.0	97.0	97.0	95.0	-	-	-	-

Spectra of the receivers

No.	Name	Floor	Time slic	8 Hz	16 Hz	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
1	1	1.Fl	Night	-9.8	-9.1	8.4	25.7	30.1	37.8	40.1	40.0	39.4	34.4	25.0	-7.2
		2.Fl	Night	-9.7	-9.0	8.7	26.1	30.5	38.4	40.8	40.4	39.4	34.2	24.9	-7.2
2	2	1.Fl	Night	-9.8	-9.2	8.3	25.8	30.8	38.3	40.7	40.3	39.4	34.6	25.4	-10.2
		2.Fl	Night	-9.7	-9.0	8.6	26.2	31.2	39.0	41.4	40.9	39.4	34.4	25.2	-10.4
3	3	1.Fl	Night	-10.2	-9.5	8.0	25.5	30.5	37.3	39.4	39.0	38.1	33.7	24.7	-14.5
		2.Fl	Night	-10.2	-9.5	8.2	25.8	30.8	37.8	40.0	39.5	37.9	33.5	24.5	-14.8
4	4	1.Fl	Night	-10.1	-9.1	8.8	25.6	31.4	37.5	40.4	40.0	38.4	32.7	21.9	-8.2
		2.Fl	Night	-9.9	-8.8	9.2	26.2	32.1	38.6	41.6	41.1	38.9	32.6	21.4	-8.3
5	5	1.Fl	Night	-10.9	-9.9	8.0	24.8	30.4	36.8	40.0	39.7	38.1	32.2	20.7	-12.0
		2.Fl	Night	-10.8	-9.7	8.3	25.3	30.9	37.8	40.9	40.6	38.4	32.1	20.0	-12.2
6	6	1.Fl	Night	-10.5	-9.8	7.9	25.0	29.5	37.5	39.6	39.4	38.7	33.3	23.0	-8.2
		2.Fl	Night	-10.5	-9.6	8.1	25.4	29.9	38.0	40.2	39.7	38.7	33.1	22.8	-8.3
7	7	1.Fl	Night	-10.7	-9.9	7.8	24.9	29.4	36.9	38.9	38.9	38.4	32.3	21.4	-8.2
		2.Fl	Night	-10.7	-9.8	8.0	25.3	29.8	37.5	39.5	38.9	38.0	32.0	21.2	-8.3
8	8	1.Fl	Night	-12.0	-10.9	6.9	24.1	28.6	33.8	37.6	37.6	36.4	30.9	18.9	-15.3
		2.Fl	Night	-12.0	-10.9	7.0	24.3	28.8	33.9	37.9	37.5	35.8	30.2	18.1	-15.6
9	9	1.Fl	Night	-12.8	-11.7	6.3	23.3	27.9	32.4	36.2	36.8	35.4	29.8	16.8	-19.9
		2.Fl	Night	-13.0	-11.9	6.1	23.4	27.9	32.3	36.3	36.2	34.5	28.9	15.8	-20.4
10	10	1.Fl	Night	-13.4	-12.2	5.8	22.9	27.5	33.2	36.5	37.0	35.4	29.6	15.8	-23.3
		2.Fl	Night	-13.7	-12.5	5.5	22.7	27.2	33.1	36.3	36.4	34.5	28.6	14.5	-24.1
11	11	1.Fl	Night	-11.4	-10.4	7.5	24.7	30.9	37.7	40.1	40.2	38.3	32.2	20.5	-11.7
		2.Fl	Night	-11.3	-10.2	7.7	25.1	31.4	38.5	40.9	40.4	38.1	31.6	19.9	-12.0
12	12	1.Fl	Night	-13.6	-12.5	5.4	22.7	29.2	35.2	37.6	37.9	35.5	29.1	15.0	-25.5
		2.Fl	Night	-14.0	-13.0	5.0	22.5	28.9	35.2	37.6	37.6	35.0	28.1	13.7	-26.5
13	13	1.Fl	Night	-14.2	-13.2	4.8	22.2	28.8	34.1	36.7	37.4	35.1	28.3	13.1	-30.2
		2.Fl	Night	-14.9	-13.8	4.1	21.7	28.2	33.7	36.3	36.8	34.2	27.1	11.7	-31.4
14	14	1.Fl	Night	-11.0	-10.3	7.4	24.9	30.0	36.3	39.7	39.5	38.3	33.2	23.1	-17.6
		2.Fl	Night	-11.1	-10.4	7.3	25.1	30.1	36.7	40.0	39.7	38.0	33.0	22.9	-18.2
15	15	1.Fl	Night	-8.0	-10.7	7.0	24.6	29.9	36.2	39.7	39.3	37.8	32.8	22.1	-21.6
		2.Fl	Night	-8.2	-10.9	6.8	24.7	29.8	36.4	40.0	39.5	37.6	32.4	21.7	-22.2
16	16	1.Fl	Night	-9.9	-11.8	5.8	24.1	30.3	37.2	40.6	40.7	38.7	33.5	21.1	-31.5
		2.Fl	Night	-10.3	-12.3	5.3	23.7	29.8	36.9	40.3	40.3	38.1	32.9	20.3	-32.4
17	17	1.Fl	Night	-16.0	-15.5	1.3	17.4	22.0	28.6	32.8	32.5	30.6	23.0	4.9	-43.3
		2.Fl	Night	-17.1	-16.5	0.3	16.7	21.1	28.0	32.2	31.8	29.6	21.9	3.5	-44.8
18	19	1.Fl	Night	-15.3	-14.2	3.8	20.7	24.8	30.9	32.4	33.0	31.5	23.9	6.5	-39.0
		2.Fl	Night	-16.3	-15.2	2.8	19.9	23.9	30.2	31.7	32.3	30.0	22.5	5.1	-40.4
19		1.Fl	Night	-15.0	-13.9	4.1	21.3	25.8	32.2	34.6	34.0	32.8	26.2	9.6	-36.6
		2.Fl	Night	-16.0	-14.8	3.1	20.5	24.9	31.4	33.9	33.2	30.9	24.4	8.1	-37.9
20	20	1.Fl	Night	-14.7	-13.6	4.4	21.5	26.0	32.6	35.1	35.0	33.6	26.9	10.7	-34.0
		2.Fl	Night	-15.6	-14.5	3.5	20.9	25.2	32.0	34.5	34.2	31.9	25.2	9.1	-35.2
21	21	1.Fl	Night	-14.0	-12.9	5.1	22.3	27.0	34.2	37.2	37.1	35.4	28.2	12.8	-25.7
		2.Fl	Night	-14.6	-13.5	4.5	21.9	26.5	34.0	36.9	36.8	34.2	26.7	11.4	-26.7
22	22	1.Fl	Night	-14.5	-13.4	4.5	21.7	26.4	33.7	36.6	36.5	34.7	26.7	9.2	-29.0
		2.Fl	Night	-15.2	-14.1	3.8	21.2	25.8	33.3	36.3	36.0	33.6	25.6	8.0	-30.2
23	23	1.Fl	Night	-14.1	-13.0	4.9	22.3	27.4	35.0	38.4	38.8	36.4	29.7	14.4	-25.5
		2.Fl	Night	-14.7	-13.6	4.3	21.9	26.9	34.8	38.3	38.0	35.6	28.3	12.9	-26.5
24	24	1.Fl	Night	-14.3	-13.2	4.7	22.1	27.2	34.8	37.5	38.1	35.8	28.7	12.5	-27.5
		2.Fl	Night	-15.0	-13.9	4.0	21.6	26.6	34.5	37.3	37.7	35.1	27.6	11.1	-28.6
25	25	1.Fl	Night	-15.0	-13.9	4.0	21.4	26.6	33.4	35.7	36.2	33.6	26.6	9.9	-35.8
		2.Fl	Night	-15.9	-14.8	3.1	20.7	25.7	32.9	35.2	35.4	32.6	24.9	8.3	-37.1
26	26	1.Fl	Night	-15.4	-14.3	3.6	21.1	26.3	33.5	35.8	35.6	33.4	25.6	8.1	-38.0
		2.Fl	Night	-16.4	-15.4	2.6	20.2	25.3	32.8	35.1	34.7	32.1	23.8	6.5	-39.5
27	27	1.Fl	Night	-15.8	-14.7	3.3	20.7	26.0	32.5	35.0	34.5	32.1	24.4	6.4	-43.0
		2.Fl	Night	-16.9	-15.9	2.1	19.8	24.9	31.8	34.2	33.5	30.7	22.6	4.8	-44.5
28	29	1.Fl	Night	-10.7	-12.5	5.3	23.1	29.6	36.6	40.6	41.4	39.6	34.2	19.7	-41.6
		2.Fl	Night	-11.5	-13.5	4.3	22.3	28.6	35.8	39.9	40.6	38.7	33.2	18.5	-42.8
29	30	1.Fl	Night	-14.3	-13.7	4.4	22.1	28.5	35.4	39.0	39.0	36.6	30.3	14.7	-46.3
		2.Fl	Night	-15.5	-14.8	3.2	21.2	27.4	34.6	38.3	38.3	35.8	29.4	13.4	-47.6
30	31	1.Fl	Night	-14.0	-14.5	3.5	21.0	27.0	33.0	37.4	37.2	34.4	27.3	9.8	-53.8
		2.Fl	Night	-15.3	-15.8	2.3	19.9	25.8	32.1	36.7	36.6	33.8	26.4	8.4	-55.1
31	32	1.Fl	Night	-13.7	-12.8	4.9	22.3	26.8	35.0	37.2	36.7	34.7	29.2	16.4	-34.4
		2.Fl	Night	-14.4	-13.5	4.2	21.9	26.3	34.7	36.9	36.2	33.8	28.2	15.4	-35.5
32	33	1.Fl	Night	-13.3	-12.4	5.2	22.6	27.0	35.2	37.5	36.9	35.2	30.0	17.8	-31.5
		2.Fl	Night	-13.8	-13.0	4.6	22.3	26.6	35.1	37.3	36.6	34.1	28.7	16.8	-32.5
33	34	1.Fl	Night	-13.4	-12.5	5.0	22.2	26.6	34.1	37.0	36.2	34.0	27.9	15.3	-34.3
		2.Fl	Night	-14.0	-13.2	4.3	21.9	26.1	34.0	36.9	36.1	33.3	26.9	14.3	-35.4
34	35	1.Fl	Night	-13.9	-15.6	2.0	19.6	24.8	31.1	34.8	33.9	30.8	22.6	2.3	-71.1

Spectra of the receivers

No.	Name	Floor	Time slic	8 Hz	16 Hz	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
34	35	2.Fl	Night	-15.1	-16.7	1.0	18.5	23.7	30.2	34.0	33.1	29.8	21.4	1.0	-72.2
35	36	1.Fl	Night	-12.9	-15.0	2.4	19.7	24.7	31.0	34.1	33.4	30.3	21.9	2.3	-69.2
		2.Fl	Night	-14.1	-16.2	1.3	18.7	23.7	30.1	33.3	32.6	29.3	20.6	1.0	-70.4
36	37	1.Fl	Night	-18.8	-18.4	-1.5	15.3	20.9	28.7	32.0	31.0	27.9	17.9	-5.3	-77.1
		2.Fl	Night	-19.8	-19.3	-2.2	14.8	20.4	28.3	32.0	31.1	27.6	17.4	-6.3	-78.2
37	38	1.Fl	Night	-12.9	-15.1	2.3	19.6	24.5	30.8	34.3	33.4	30.2	22.0	2.3	-69.6
		2.Fl	Night	-14.1	-16.3	1.2	18.5	23.4	29.9	33.5	32.7	29.3	20.7	0.9	-70.9
38	39	1.Fl	Night	-16.0	-15.1	2.3	19.5	24.4	30.6	35.3	34.9	32.7	24.6	4.3	-67.7
		2.Fl	Night	-17.2	-16.3	1.2	18.5	23.3	29.7	34.7	34.6	32.4	24.3	3.2	-68.9
39	40	1.Fl	Night	-16.2	-15.3	2.1	19.4	24.3	30.5	35.2	35.2	33.5	26.0	6.0	-67.5
		2.Fl	Night	-17.4	-16.5	1.0	18.3	23.3	29.6	34.6	34.6	32.4	24.1	2.9	-68.8
40	41	1.Fl	Night	-16.4	-15.5	2.0	19.2	24.1	30.4	32.5	31.9	31.1	23.6	4.2	-66.9
		2.Fl	Night	-17.6	-16.7	0.8	18.1	23.1	29.6	31.7	31.6	29.9	22.6	3.1	-68.2
41	42	1.Fl	Night	-15.8	-14.9	2.7	18.9	23.5	32.0	34.1	33.5	31.6	23.8	7.3	-45.9
		2.Fl	Night	-16.8	-16.0	1.7	18.2	22.7	31.7	33.9	33.3	30.5	22.5	5.8	-47.2
42	43	1.Fl	Night	-15.8	-14.9	2.9	20.3	25.5	32.2	34.7	34.5	32.1	25.5	9.1	-51.8
		2.Fl	Night	-17.0	-16.1	1.7	19.2	24.4	31.3	33.8	33.6	30.9	24.1	7.5	-53.2
43	44	1.Fl	Night	-12.7	-11.7	6.3	23.1	29.0	34.7	38.4	37.9	36.4	30.3	17.6	-21.3
		2.Fl	Night	-12.9	-11.8	6.2	23.2	28.9	35.1	38.8	38.4	36.4	30.0	16.6	-21.9
44	45	1.Fl	Night	-13.6	-13.0	4.5	21.3	26.1	33.8	37.1	37.3	35.6	29.1	14.9	-26.5
		2.Fl	Night	-13.7	-12.9	4.7	21.7	26.5	34.4	37.4	37.4	34.9	28.2	13.6	-27.4
45	46	1.Fl	Night	-14.4	-13.3	4.7	21.5	27.4	34.2	36.7	36.3	34.6	28.4	13.6	-35.5
		2.Fl	Night	-15.1	-14.1	3.9	20.9	26.6	33.8	36.4	36.0	33.6	27.2	12.2	-36.7
46	47	1.Fl	Night	-15.1	-14.0	3.9	20.7	26.6	32.6	35.2	34.7	33.2	27.5	12.6	-42.1
		2.Fl	Night	-16.1	-15.0	2.9	19.9	25.6	31.9	34.5	33.9	31.7	25.9	11.0	-43.5
47	48	1.Fl	Night	-15.3	-14.3	3.6	20.6	26.5	33.3	35.5	35.3	33.3	27.5	12.1	-44.2
		2.Fl	Night	-16.4	-15.4	2.5	19.7	25.5	32.5	34.6	34.7	32.3	26.3	10.7	-45.7
48	49	1.Fl	Night	-15.9	-14.9	2.9	20.0	25.1	32.5	36.3	35.7	33.6	27.5	11.2	-49.6
		2.Fl	Night	-17.1	-16.1	1.8	19.0	24.0	31.5	35.4	34.9	32.5	26.1	9.7	-51.1
49	50	1.Fl	Night	-15.7	-14.7	3.1	20.2	25.4	32.6	35.7	36.0	33.7	27.3	10.9	-48.6
		2.Fl	Night	-16.8	-15.9	2.0	19.2	24.3	31.7	34.9	35.2	32.7	26.0	9.4	-50.0
50	51	1.Fl	Night	-16.3	-15.3	2.3	19.8	24.2	31.4	34.4	34.0	31.6	23.3	4.3	-46.3
		2.Fl	Night	-17.5	-16.5	1.1	18.8	23.2	30.6	33.7	33.2	30.6	22.3	2.9	-47.9
51		1.Fl	Night	-16.5	-15.5	2.3	19.5	24.8	31.9	34.8	34.1	31.8	25.4	7.9	-57.1
		2.Fl	Night	-17.8	-16.8	1.1	18.4	23.7	30.9	33.9	33.2	30.6	24.0	6.4	-58.5

Spectra of the receivers

No.	Name	Floor	Time slic	8 Hz	16 Hz	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
1	1	1.Fl	Night	-4.7	-2.6	16.8	36.3	43.8	51.2	56.4	58.7	58.8	53.4	44.1	13.4
		2.Fl	Night	-4.7	-2.6	16.8	36.3	43.8	51.2	56.4	58.7	58.8	53.4	44.1	13.3
2	2	1.Fl	Night	-5.0	-2.9	16.5	36.0	43.6	51.0	56.2	58.5	58.8	53.5	44.5	11.4
		2.Fl	Night	-5.0	-2.9	16.4	36.0	43.5	50.9	56.2	58.5	58.7	53.4	44.4	11.3
3	3	1.Fl	Night	-5.6	-3.6	15.9	35.4	43.0	50.4	55.6	57.9	58.1	52.9	43.8	8.1
		2.Fl	Night	-5.7	-3.7	15.7	35.3	42.8	50.3	55.5	57.8	58.0	52.8	43.7	7.8
4	4	1.Fl	Night	-4.9	-2.7	17.0	36.0	43.7	50.8	55.9	58.7	58.6	52.5	41.9	13.4
		2.Fl	Night	-5.0	-2.7	17.0	35.9	43.7	50.7	55.9	58.6	58.4	52.3	41.7	13.4
5	5	1.Fl	Night	-5.8	-3.6	16.1	35.1	42.8	49.9	56.8	59.3	59.1	52.9	41.2	9.6
		2.Fl	Night	-5.9	-3.7	16.0	35.0	42.7	49.8	56.4	58.9	58.7	52.5	40.7	9.5
6	6	1.Fl	Night	-5.3	-3.1	16.4	35.7	43.3	50.5	55.8	58.3	58.1	52.3	42.0	12.3
		2.Fl	Night	-5.3	-3.1	16.3	35.7	43.3	50.5	55.7	58.2	58.0	52.2	41.9	12.3
7	7	1.Fl	Night	-5.4	-3.2	16.3	35.5	43.2	50.4	55.6	58.5	58.3	52.2	41.4	12.3
		2.Fl	Night	-5.5	-3.3	16.2	35.5	43.1	50.3	55.5	58.3	58.1	52.0	41.2	12.2
8	8	1.Fl	Night	-6.8	-4.4	15.1	34.3	42.0	49.1	54.3	57.9	57.4	50.8	38.4	7.4
		2.Fl	Night	-6.9	-4.6	14.9	34.1	41.8	48.8	54.1	57.4	56.9	50.3	37.8	7.2
9	9	1.Fl	Night	-7.7	-5.3	14.3	33.4	41.2	48.1	53.4	57.6	56.9	49.9	36.3	2.9
		2.Fl	Night	-8.0	-5.7	13.8	33.0	40.7	47.8	53.0	56.9	56.3	49.2	35.5	2.4
10	10	1.Fl	Night	-8.3	-5.9	13.8	32.8	40.7	47.6	52.8	57.1	56.4	49.5	34.9	-0.5
		2.Fl	Night	-8.7	-6.4	13.1	32.3	40.0	47.0	52.2	56.2	55.6	48.6	33.9	-1.2
11	11	1.Fl	Night	-6.2	-3.9	15.7	34.7	42.5	49.5	54.7	58.3	57.8	51.3	39.4	8.6
		2.Fl	Night	-6.3	-4.0	15.6	34.6	42.4	49.4	54.5	57.9	57.4	50.9	38.9	8.5
12	12	1.Fl	Night	-8.5	-6.1	13.6	32.6	40.4	47.3	52.5	55.7	55.2	48.5	34.0	-3.5
		2.Fl	Night	-9.0	-6.7	12.9	31.9	39.6	46.7	51.8	55.0	54.5	47.6	32.9	-4.4
13	13	1.Fl	Night	-9.1	-6.8	12.9	31.9	39.7	46.7	51.8	56.3	55.5	48.0	32.1	-8.1
		2.Fl	Night	-9.9	-7.6	12.0	31.0	38.7	45.8	50.9	55.2	54.5	46.9	30.8	-9.1
14	14	1.Fl	Night	-6.7	-4.6	14.9	34.3	42.0	49.3	54.5	56.8	57.1	51.5	41.7	2.8
		2.Fl	Night	-6.9	-4.9	14.5	34.1	41.6	49.1	54.3	56.5	56.8	51.4	41.6	2.4
15	15	1.Fl	Night	-7.3	-5.2	14.3	33.7	41.4	48.7	53.9	56.2	56.1	50.7	40.5	-0.4
		2.Fl	Night	-7.6	-5.6	13.8	33.4	41.0	48.4	53.6	55.8	55.8	50.4	40.2	-1.0
16	16	1.Fl	Night	-8.8	-6.6	13.0	32.3	40.1	47.3	52.4	54.7	54.3	48.7	37.2	-9.3
		2.Fl	Night	-9.3	-7.3	12.2	31.7	39.3	46.7	51.8	54.0	53.6	48.0	36.4	-10.1
17	17	1.Fl	Night	-10.7	-8.4	10.0	28.5	35.5	41.1	44.7	45.6	43.3	33.0	12.7	-30.4
		2.Fl	Night	-11.9	-9.7	8.8	27.5	34.7	41.0	45.1	46.1	44.1	33.4	12.9	-31.7
18	19	1.Fl	Night	-10.2	-7.9	11.7	30.7	38.3	45.3	50.3	52.5	52.5	43.4	24.5	-16.1
		2.Fl	Night	-11.3	-9.1	10.5	29.5	37.1	44.2	49.3	51.4	51.5	42.3	23.4	-17.5
19		1.Fl	Night	-10.0	-7.6	12.0	31.1	38.9	45.8	51.0	53.3	53.4	45.9	29.2	-13.7
		2.Fl	Night	-11.0	-8.7	10.8	30.0	37.6	44.7	49.9	52.2	52.3	44.7	27.7	-15.0
20	20	1.Fl	Night	-9.7	-7.3	12.3	31.4	39.2	46.1	51.3	53.7	53.6	46.3	30.1	-11.1
		2.Fl	Night	-10.6	-8.3	11.2	30.4	38.0	45.1	50.3	52.8	52.7	45.2	28.7	-12.3
21	21	1.Fl	Night	-9.0	-6.6	13.1	32.1	39.9	46.8	52.0	55.5	55.3	48.0	32.4	-5.2
		2.Fl	Night	-9.7	-7.4	12.2	31.3	39.0	46.0	51.2	54.7	54.5	47.0	31.2	-6.2
22	22	1.Fl	Night	-9.4	-7.0	12.7	31.7	39.5	46.4	51.6	54.8	54.8	47.2	30.8	-8.5
		2.Fl	Night	-10.2	-7.9	11.7	30.7	38.5	45.5	50.6	53.9	53.8	46.1	29.5	-9.6
23	23	1.Fl	Night	-8.9	-6.5	13.2	32.1	40.0	46.9	52.0	55.6	54.9	48.1	32.5	-5.0
		2.Fl	Night	-9.6	-7.3	12.3	31.4	39.1	46.1	51.2	54.6	54.0	47.0	31.3	-6.0
24	24	1.Fl	Night	-9.1	-6.8	12.9	31.9	39.8	46.6	51.8	56.0	55.3	48.2	32.0	-7.0
		2.Fl	Night	-9.9	-7.6	12.0	31.0	38.8	45.8	50.9	55.0	54.3	47.0	30.7	-8.0
25	25	1.Fl	Night	-9.8	-7.5	12.2	31.2	39.0	45.9	51.0	54.1	53.5	46.8	30.1	-13.0
		2.Fl	Night	-10.8	-8.6	11.0	30.1	37.8	44.8	50.0	53.0	52.3	45.5	28.7	-14.3
26	26	1.Fl	Night	-10.3	-7.9	11.7	30.7	38.5	45.5	50.6	53.4	52.8	45.2	27.8	-17.0
		2.Fl	Night	-11.4	-9.1	10.5	29.5	37.2	44.3	49.4	52.3	51.6	43.9	26.3	-18.4
27	27	1.Fl	Night	-10.7	-8.4	11.3	30.3	38.1	45.1	50.2	52.9	52.3	44.5	26.4	-20.9
		2.Fl	Night	-11.9	-9.7	9.9	29.0	36.7	43.8	48.9	51.6	51.0	43.2	24.9	-22.4
28	29	1.Fl	Night	-10.0	-7.9	11.7	31.0	38.8	46.0	51.1	53.3	52.7	46.6	33.1	-19.4
		2.Fl	Night	-11.0	-9.0	10.5	30.0	37.6	44.9	50.0	52.2	51.7	45.5	31.9	-20.6
29	30	1.Fl	Night	-10.6	-8.4	11.2	30.5	38.2	45.4	50.5	52.7	52.1	45.6	31.2	-24.1
		2.Fl	Night	-11.7	-9.6	9.9	29.3	36.9	44.2	49.3	51.5	50.8	44.4	29.8	-25.4
30	31	1.Fl	Night	-11.4	-9.3	10.3	29.6	37.3	44.5	49.6	52.7	51.8	44.3	27.9	-32.2
		2.Fl	Night	-12.7	-10.6	9.0	28.3	35.9	43.2	48.3	51.5	50.5	42.9	26.4	-33.5
31	32	1.Fl	Night	-9.3	-7.1	12.6	31.8	39.6	46.7	51.8	55.2	54.6	47.9	34.9	-12.4
		2.Fl	Night	-10.0	-7.9	11.6	31.0	38.6	45.9	51.0	54.3	53.7	47.0	33.9	-13.5
32	33	1.Fl	Night	-9.0	-6.8	12.9	32.1	39.9	47.0	52.1	55.0	55.1	48.8	36.2	-10.4
		2.Fl	Night	-9.6	-7.6	12.0	31.4	39.0	46.3	51.4	54.1	54.3	47.9	35.3	-11.3
33	34	1.Fl	Night	-9.3	-7.1	12.5	31.7	39.5	46.7	51.8	54.0	54.0	47.9	35.2	-13.2
		2.Fl	Night	-10.1	-8.0	11.5	30.9	38.5	45.9	50.9	53.1	53.1	46.9	34.2	-14.3
34	35	1.Fl	Night	-13.1	-10.9	8.6	27.9	35.6	42.7	47.8	49.9	48.8	40.9	21.0	-49.7

Spectra of the receivers

No.	Name	Floor	Time slic	8 Hz	16 Hz	31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	16 kHz
34	35	2.Fl	Night	-14.3	-12.1	7.5	26.7	34.4	41.5	46.6	48.6	47.7	39.7	19.8	-50.8
35	36	1.Fl	Night	-12.9	-10.8	8.8	28.1	35.8	42.9	48.0	50.1	49.2	41.2	21.9	-46.9
		2.Fl	Night	-14.1	-12.0	7.6	26.9	34.6	41.7	46.7	48.8	48.0	39.9	20.6	-48.1
36	37	1.Fl	Night	-13.7	-13.4	5.1	23.1	28.7	33.7	36.3	35.6	31.7	20.3	-3.8	-79.5
		2.Fl	Night	-14.8	-14.4	4.3	22.8	29.5	35.8	39.8	40.4	37.4	26.1	1.7	-72.9
37	38	1.Fl	Night	-12.9	-10.7	8.9	28.1	35.8	43.0	48.0	50.1	49.2	41.6	22.0	-46.9
		2.Fl	Night	-14.1	-11.9	7.6	26.9	34.6	41.7	46.8	48.8	48.0	40.4	20.7	-48.1
38	39	1.Fl	Night	-12.7	-10.5	9.1	28.3	36.0	43.2	48.2	50.3	50.0	41.9	22.8	-45.0
		2.Fl	Night	-13.9	-11.8	7.8	27.1	34.8	41.9	46.9	49.0	48.9	40.6	21.4	-46.2
39	40	1.Fl	Night	-12.7	-10.6	9.0	28.3	36.0	43.1	48.1	51.1	51.8	44.4	25.2	-45.6
		2.Fl	Night	-14.0	-11.8	7.8	27.0	34.7	41.8	46.9	49.8	50.7	43.3	23.9	-46.9
40	41	1.Fl	Night	-12.7	-10.6	9.0	28.3	36.0	43.1	48.1	50.3	51.0	42.8	22.9	-45.6
		2.Fl	Night	-14.0	-11.8	7.8	27.0	34.7	41.8	46.9	49.1	50.0	41.7	21.6	-46.8
41	42	1.Fl	Night	-11.6	-9.2	10.6	29.1	37.1	43.2	47.8	51.0	49.6	39.7	19.8	-25.2
		2.Fl	Night	-12.8	-10.5	9.3	28.1	36.0	42.6	47.3	50.5	49.1	39.1	19.1	-26.7
42	43	1.Fl	Night	-11.2	-9.1	10.6	29.8	37.5	44.6	49.7	52.1	51.2	44.0	27.6	-29.5
		2.Fl	Night	-12.5	-10.4	9.2	28.5	36.1	43.3	48.4	51.3	50.4	42.8	26.0	-30.9
43	44	1.Fl	Night	-7.7	-5.4	14.3	33.3	41.2	48.1	53.9	56.8	57.8	51.7	39.4	1.4
		2.Fl	Night	-8.0	-5.8	13.9	32.9	40.6	47.7	53.4	56.2	57.3	51.0	38.5	0.8
44	45	1.Fl	Night	-8.4	-6.0	13.7	31.7	39.1	46.6	53.4	55.8	55.9	49.5	35.6	-7.2
		2.Fl	Night	-8.8	-6.6	13.0	31.4	38.7	46.2	52.7	55.1	55.1	48.6	34.6	-7.9
45	46	1.Fl	Night	-9.5	-7.2	12.5	31.5	39.4	46.4	51.4	54.3	54.5	47.4	32.0	-12.8
		2.Fl	Night	-10.3	-8.2	11.5	30.6	38.3	45.4	50.5	53.3	53.6	46.3	30.7	-14.0
46	47	1.Fl	Night	-10.3	-8.0	11.7	30.7	38.5	45.6	50.6	52.8	52.6	45.5	29.8	-19.9
		2.Fl	Night	-11.3	-9.2	10.4	29.6	37.2	44.4	49.5	51.6	51.5	44.2	28.4	-21.2
47	48	1.Fl	Night	-10.5	-8.3	11.4	30.5	38.3	45.4	50.4	54.7	53.7	45.9	29.4	-22.1
		2.Fl	Night	-11.6	-9.5	10.1	29.3	36.9	44.1	49.2	53.5	52.6	44.6	28.0	-23.5
48	49	1.Fl	Night	-11.1	-8.9	10.7	29.9	37.6	45.1	52.0	54.1	53.4	46.5	30.0	-26.4
		2.Fl	Night	-12.4	-10.2	9.4	28.6	36.2	43.8	50.7	52.9	52.1	45.1	28.4	-27.9
49	50	1.Fl	Night	-10.9	-8.7	11.0	30.1	37.9	45.0	50.0	54.9	54.0	46.4	29.1	-26.1
		2.Fl	Night	-12.1	-10.0	9.6	28.8	36.5	43.8	48.8	53.7	52.8	45.1	27.6	-27.5
50	51	1.Fl	Night	-11.1	-8.8	10.5	29.6	37.1	44.1	49.2	51.9	50.9	41.7	21.7	-25.6
		2.Fl	Night	-12.5	-10.2	9.1	28.2	35.7	42.9	48.0	50.7	49.7	40.7	20.6	-27.2
51		1.Fl	Night	-11.8	-9.6	10.0	29.2	36.9	44.6	49.7	51.9	51.2	44.6	26.9	-34.7
		2.Fl	Night	-13.1	-10.9	8.7	27.9	35.6	43.2	48.4	50.6	49.8	43.2	25.5	-36.1

Receiver list

No.	Receiver name	Building side	Floor	Limit Night dB(A)	Level w/o NP Night dB(A)	Level w NP Night dB(A)	Difference Night dB	Conflict Night dB
1	1	East	1.Fl	-	63.7	46.0	-17.8	-
			2.Fl	-	63.7	46.4	-17.3	-
2	2	East	1.Fl	-	63.6	46.3	-17.2	-
			2.Fl	-	63.5	46.8	-16.7	-
3	3	East	1.Fl	-	62.9	45.1	-17.8	-
			2.Fl	-	62.8	45.5	-17.4	-
4	4	West	1.Fl	-	63.4	45.7	-17.7	-
			2.Fl	-	63.3	46.6	-16.6	-
5	5	South	1.Fl	-	63.9	45.3	-18.6	-
			2.Fl	-	63.5	46.0	-17.5	-
6	6	East	1.Fl	-	63.1	45.3	-17.7	-
			2.Fl	-	63.0	45.7	-17.3	-
7	7	East	1.Fl	-	63.1	44.8	-18.3	-
			2.Fl	-	63.0	45.0	-18.0	-
8	8	East	1.Fl	-	62.2	43.2	-19.0	-
			2.Fl	-	61.8	43.0	-18.7	-
9	9	East	1.Fl	-	61.7	42.0	-19.6	-
			2.Fl	-	61.0	41.6	-19.4	-
10	10	East	1.Fl	-	61.1	42.2	-18.9	-
			2.Fl	-	60.4	41.8	-18.6	-
11	11	West	1.Fl	-	62.6	45.6	-17.0	-
			2.Fl	-	62.3	46.0	-16.3	-
12	12	West	1.Fl	-	60.1	43.2	-16.9	-
			2.Fl	-	59.3	42.9	-16.4	-
13	13	West	1.Fl	-	60.2	42.4	-17.8	-
			2.Fl	-	59.2	41.9	-17.3	-
14	14	East	1.Fl	-	61.8	45.1	-16.7	-
			2.Fl	-	61.6	45.3	-16.3	-
15	15	East	1.Fl	-	61.1	45.0	-16.1	-
			2.Fl	-	60.8	45.1	-15.7	-
16	16	East	1.Fl	-	59.5	46.0	-13.5	-
			2.Fl	-	58.8	45.6	-13.2	-
17	17	South	1.Fl	-	50.3	37.8	-12.5	-
			2.Fl	-	50.7	37.0	-13.7	-
18	19	South	1.Fl	-	57.2	38.5	-18.7	-
			2.Fl	-	56.2	37.6	-18.6	-
19		South	1.Fl	-	58.1	40.0	-18.1	-
			2.Fl	-	57.0	39.0	-18.0	-
20	20	South	1.Fl	-	58.4	40.6	-17.8	-
			2.Fl	-	57.5	39.7	-17.7	-
21	21	South	1.Fl	-	59.9	42.5	-17.4	-
			2.Fl	-	59.1	42.0	-17.1	-
22	22	South	1.Fl	-	59.3	41.8	-17.5	-
			2.Fl	-	58.3	41.3	-17.0	-
23	23	South	1.Fl	-	59.8	43.8	-16.0	-
			2.Fl	-	58.9	43.2	-15.7	-
24	24	South	1.Fl	-	60.1	43.1	-17.0	-
			2.Fl	-	59.1	42.6	-16.4	-
25	25	South	1.Fl	-	58.5	41.3	-17.2	-
			2.Fl	-	57.3	40.6	-16.8	-
26	26	South	1.Fl	-	57.8	41.1	-16.7	-
			2.Fl	-	56.6	40.1	-16.5	-
27	27	South	1.Fl	-	57.3	40.1	-17.2	-
			2.Fl	-	56.0	39.1	-16.9	-
28	29	East	1.Fl	-	58.0	46.3	-11.6	-
			2.Fl	-	56.9	45.5	-11.4	-
29	30	East	1.Fl	-	57.3	44.1	-13.2	-
			2.Fl	-	56.1	43.4	-12.7	-
30	31	East	1.Fl	-	56.9	42.2	-14.7	-
			2.Fl	-	55.6	41.5	-14.1	-
31	32	North	1.Fl	-	59.5	42.5	-17.0	-
			2.Fl	-	58.6	42.0	-16.6	-
32	33	North	1.Fl	-	59.7	42.7	-17.0	-
			2.Fl	-	58.9	42.4	-16.6	-
33	34	North	1.Fl	-	58.9	41.9	-17.0	-

Receiver list

No.	Receiver name	Building side	Floor	Limit Night dB(A)	Level w/o NP Night dB(A)	Level w NP Night dB(A)	Difference Night dB	Conflict Night dB
33	34	North	2.Fl	-	58.0	41.7	-16.3	-
34	35	North	1.Fl	-	54.3	39.3	-15.0	-
			2.Fl	-	53.1	38.5	-14.6	-
35	36	North	1.Fl	-	54.5	38.8	-15.7	-
			2.Fl	-	53.3	38.0	-15.4	-
36	37	North	1.Fl	-	41.1	36.5	-4.6	-
			2.Fl	-	44.9	36.4	-8.6	-
37	38	North	1.Fl	-	54.6	38.9	-15.7	-
			2.Fl	-	53.3	38.0	-15.3	-
38	39	North	1.Fl	-	55.0	40.1	-14.9	-
			2.Fl	-	53.7	39.6	-14.1	-
39	40	North	1.Fl	-	56.0	40.3	-15.7	-
			2.Fl	-	54.8	39.5	-15.3	-
40	41	North	1.Fl	-	55.3	38.0	-17.3	-
			2.Fl	-	54.2	37.2	-17.0	-
41	42	North	1.Fl	-	55.0	39.2	-15.7	-
			2.Fl	-	54.4	38.8	-15.6	-
42	43	North	1.Fl	-	56.5	39.9	-16.6	-
			2.Fl	-	55.5	39.0	-16.6	-
43	44	West	1.Fl	-	61.9	43.5	-18.4	-
			2.Fl	-	61.4	43.8	-17.6	-
44	45	South	1.Fl	-	60.6	42.5	-18.0	-
			2.Fl	-	59.8	42.6	-17.2	-
45	46	West	1.Fl	-	59.0	42.0	-17.0	-
			2.Fl	-	58.1	41.5	-16.6	-
46	47	West	1.Fl	-	57.6	40.6	-17.0	-
			2.Fl	-	56.4	39.6	-16.8	-
47	48	West	1.Fl	-	58.6	40.9	-17.7	-
			2.Fl	-	57.4	40.1	-17.3	-
48	49	West	1.Fl	-	58.6	41.2	-17.4	-
			2.Fl	-	57.3	40.2	-17.1	-
49	50	West	1.Fl	-	58.7	41.1	-17.6	-
			2.Fl	-	57.5	40.2	-17.3	-
50	51	South	1.Fl	-	56.1	39.4	-16.7	-
			2.Fl	-	54.9	38.5	-16.4	-
51		North	1.Fl	-	56.5	39.7	-16.8	-
			2.Fl	-	55.1	38.7	-16.4	-