



Walnut Creek Water Treatment Plant Pretreatment Project

Draft Environmental Impact Report

SCH #2022020573

Volume III – Appendices G-K



Prepared By:



September 2023

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East Bay Municipal Utility District

Walnut Creek Water Treatment Plant Pretreatment Project

Draft Environmental Impact Report
Volume II – Appendices G-K

September 2023

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PRELIMINARY DELINEATION OF AQUATIC RESOURCES, FOR THE
WALNUT CREEK WATER TREATMENT PLANT
PRETREATMENT PROJECT

SUBMITTED TO:

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October 2022

East Bay Municipal Utility District. 2022 *Preliminary Delineation of Aquatic Resources, for the Walnut Creek Water Treatment Plant Pretreatment Project*. October 2022. (Contra Costa County, CA). Prepared by Kleinfelder, San Francisco, CA.



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Acronyms and Abbreviations

CWA	Clean Water Act
EBMUD	East Bay Municipal Utility District
ED	Ephemeral Drainage
FAC	Facultative
FACU	Facultative upland
FACW	Facultative wetland
GPS	Global Positioning System
IC	Intermittent Creek
I	Interstate
MGD	Million gallons per day
NWI	National Wetlands Inventory
NL	Not listed
NRCS	National Resources Conservation Service
OBL	Obligate
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USGS	United States Geological Society



Walnut Creek Water Treatment Plant Pretreatment Project Preliminary Delineation of Aquatic Resources

Summary

The East Bay Municipal Utility District (EBMUD) proposes to add pretreatment facilities at the Walnut Creek Water Treatment Plant (WTP) located at 2201 Larkey Lane in Walnut Creek, Contra Costa County, California, under the Walnut Creek WTP Pretreatment Project (Project). The Project would add pretreatment facilities to the Walnut Creek WTP that would allow EBMUD to more reliably treat a broader range of lower quality untreated water resulting from high rainfall runoff, wildfires, algae blooms, climate change and emerging contaminants, improve the ability to treat supplemental supplies during future droughts, and improve treated water quality, taste, and odor by removing organics and by adding ozone treatment. The Project would also increase the Walnut Creek WTP capacity to meet future demands, improve water system reliability and operational flexibility, and allow for the potential decommissioning of the Lafayette WTP. The Project would be constructed in two phases. Phase 1 would allow the Walnut Creek WTP to treat a broader range of water quality and increase the capacity from 115 million gallons per day (MGD) to 125 million gallons per day. Phase 2 would allow the Walnut Creek WTP to further improve the ability to treat a broader range of water quality and would increase the capacity to 160 MGD.

This preliminary delineation of aquatic resources investigation followed the routine wetland delineation methods described in the *Corps of Engineers Wetlands Delineation Manual* (United States Army Corps of Engineers [USACE] 1987), supplemented with guidance as directed by the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008), and *Corps Regulatory Guidance Letter No. 05-05 Ordinary High Water Mark Identification* (USACE 2005).

Kleinfelder botanist Constance Ganong and biologist Michael Voeltz conducted a field investigation on March 8, 2022, to delineate and assess potential waters of the United States (including wetlands and water features) within the 31.15-acre Walnut Creek WTP Project site study area (Figure 1 and Figure 2). No wetlands were identified within the Walnut Creek WTP Project site study area.

A preliminary evaluation of jurisdiction under the USACE is presented in this report for wetland and other waters of the (U.S.) in accordance with Section 404 of the Clean Water Act. Three potentially jurisdictional non-wetland waters were identified at five locations within the study area. These include one unnamed intermittent creek (0.0238 acre), Putnam Creek (0.0247 acre), and one ephemeral drainage (0.0097 acre), which are illustrated in Appendix A and summarized in Table 2. A Custom Soil Resource Report is included in Appendix B, and representative photographs of the Walnut Creek WTP Project site study area are included in Appendix C. The Aquatic Resources Spreadsheet is included in Appendix D.

Introduction

The Walnut Creek WTP, constructed in 1967, is the primary WTP serving approximately 225,000 customers in EBMUD's east-of-hills service area, which includes portions of Pleasant Hill and Walnut Creek, Alamo, Lafayette, Danville, Blackhawk, and San Ramon Valley communities. The Walnut Creek WTP primarily treats Mokelumne River water stored in the Sierra foothills at Pardee Reservoir, but also treats untreated water stored locally in Briones Reservoir. The proposed Project would add pretreatment facilities to the Walnut Creek WTP that would allow EBMUD to more reliably treat a broader range of lower quality untreated water resulting from high rainfall runoff, wildfires, algae blooms, climate change and emerging contaminants, improve the ability to treat supplemental supplies during future droughts, and improve treated water quality, taste, and odor by removing organics and by adding ozone treatment. The Project would also increase the Walnut Creek WTP capacity to meet future demands, improve water system reliability and operational flexibility, and allow for the potential decommissioning of the Lafayette WTP. Figure 3 shows the proposed location and approximate footprint of the new pretreatment facilities and ancillary improvements required throughout the Walnut Creek WTP site. Hydraulic changes at the Walnut Creek WTP would require modification of weir structures at the Lafayette WTP. The work at the Lafayette WTP will take place in previously developed areas, thus an aquatic delineation was not performed at that site.

The Project would be designed and constructed in two separate phases as detailed below. Phase 1 would allow the Walnut Creek WTP to treat a broader range of water quality and increase the capacity from 115 million gallons per day (MGD) to 125 million gallons per day. Phase 2 would allow the Walnut Creek WTP to further improve the ability to treat a broader range of water quality and would increase the capacity to 160 MGD. The construction timing of the Phase 2 improvements is not firmly established but would depend on untreated water quality conditions in the future and the timing of future demands.

Phase 1 Proposed Pretreatment Improvements at Walnut Creek WTP

- Two gravity thickeners
- Thickened solids pump station
- Solids blending tanks
- Solids dewatering building and truck loading facility
- Combined reclaim vault
- Electrical facilities, including unit substation, plant backup generator, and fuel storage.
- Liquid oxygen (LOX) storage area
- Ozone generation building
- North pre-ozone injection pumps
- North intermediate ozone injection pumps
- North intermediate ozone contactor
- North ozone quenching and destruct facilities
- North ballasted flocculation basins
- Chemical building improvements, including storage and feed systems
- Maintenance building
- Large diameter buried pipelines
- Paved roadways
- Paved parking
- Security fencing and cameras
- Stormwater facilities

- Lighting
- Relocated hiking trails
- Demolition of existing process and maintenance facilities

Phase 2 Proposed Pretreatment Improvements at Walnut Creek WTP

- Two gravity thickeners
- Thickened solids pump station
- Large diameter buried pipelines
- South pre-ozone injection pumps
- South intermediate ozone injection pumps
- South intermediate ozone contactor
- South ozone quenching and destruct facilities
- South ballasted flocculation basins

Environmental Setting

Location

The Walnut Creek WTP Project site lies within a residential and open space area in the City of Walnut Creek (Figure 1) and the study area is bounded by Alfred Avenue to the east, the Briones to Mount Diablo Regional Trail to the north, and Acalanes Ridge Open Space to the south and west. The Project lies within Township 01N, Range 02W, and Sections 21 and 22 of the U.S. Geological Survey *Walnut Creek* 7.5-minute topographic quadrangle map (Figure 2).

Figure 1 depicts the Walnut Creek WTP Project site vicinity, which is within the western portion of the City of Walnut Creek and illustrates access to the site from Interstate 680 (I-680). To access the site from I-680, take exit 47 North Main Street in Walnut Creek. Then take San Luis Road west and turn right at Larkey Lane. The entrance to the Walnut Creek WTP is on the right.

Study Area

The 31.15-acre Walnut Creek WTP Project site study area encompasses all areas that may potentially be affected by proposed Project activities at the Walnut Creek WTP as displayed in Appendix A. In agreement with EBMUD Project Manager Tom Boardman during the site visit on March 8, 2022, the Walnut Creek WTP Project site study area was extended to include the aquatic resources just outside of the Project development area due to proposed fill activities that would occur near Putnam Creek, one of the two intermittent creeks mapped during the field survey. The Walnut Creek WTP Project site study area includes the proposed facilities (Figure 3), proposed staging areas (Figure 4), proposed fill areas (Figure 5), and existing parking areas and access roads that would be used to support construction. The study area is bounded by residential housing on the north and east and open space lands on the south and west.

Vegetation

The Walnut Creek WTP Project site study area lies within the San Francisco Bay Area Subregion of the California Floristic Province and the vegetation mapped within the Walnut Creek WTP Project site study area is primarily non-native grassland.

Non-Native Grassland:

A large portion of the Walnut Creek WTP Project site study area was mapped as non-native grassland. Non-native grassland is a herbaceous land cover type dominated by the native Arroyo lupine (*Lupinus succulentus*) and non-native species including Italian ryegrass (*Festuca perennis*), slender oats (*Avena barbata*), coastal heron's bill (*Erodium cicutarium*), rose clover (*Trifolium hirtum*), and black mustard (*Brassica nigra*). Other native species observed included California poppy (*Eschscholzia californica*) and purple needle grass (*Stipa pulchra*).

Non-native grassland was present in the Walnut Creek WTP Project site area of Proposed Facilities 9, 9a, 11 (x4) and 12 (x2), along the fence line where part of the proposed new pipeline is located, and in Staging Area 1, with the addition of rock slope protection. Staging Area 2 was also composed of non-native grassland that abuts coast live oak (*Quercus agrifolia*) and toyon (*Heteromeles arbutifolia*), and in Staging Area 3 with planted Peruvian pepper trees (*Schinus mole*) and scattered valley oak (*Quercus lobata*).

Non-Native Grassland/Ruderal:

Ruderal non-native grassland is similar to the non-native grassland described above but lacks Arroyo lupine and instead contains a higher concentration of non-native species, including milk thistle (*Silybum marianum*), curly dock (*Rumex crispus*), and California burclover (*Medicago polymorpha*). This land cover type was present in the Walnut Creek WTP Project site area of Proposed Facilities 4, 5, 14 and 15.

Mixed Oak/Aleppo pine (*Pinus halepensis*):

Proposed Facilities 6 (x2), 7, and 18 within the study area were dominated by Aleppo pine mixed with Coast live oak and valley oak. The understory of this land cover type was dominated by non-native grasses, including Italian ryegrass and slender oats, with Arroyo lupine and common fiddleneck (*Amsinckia intermedia*). There are existing gravel roads throughout the area where Proposed Facilities 6 (x2), 7, and 18 are planned.

Mixed Oak Woodland:

Mixed oak woodland dominated by coast live oak and valley oak surrounds the study area.

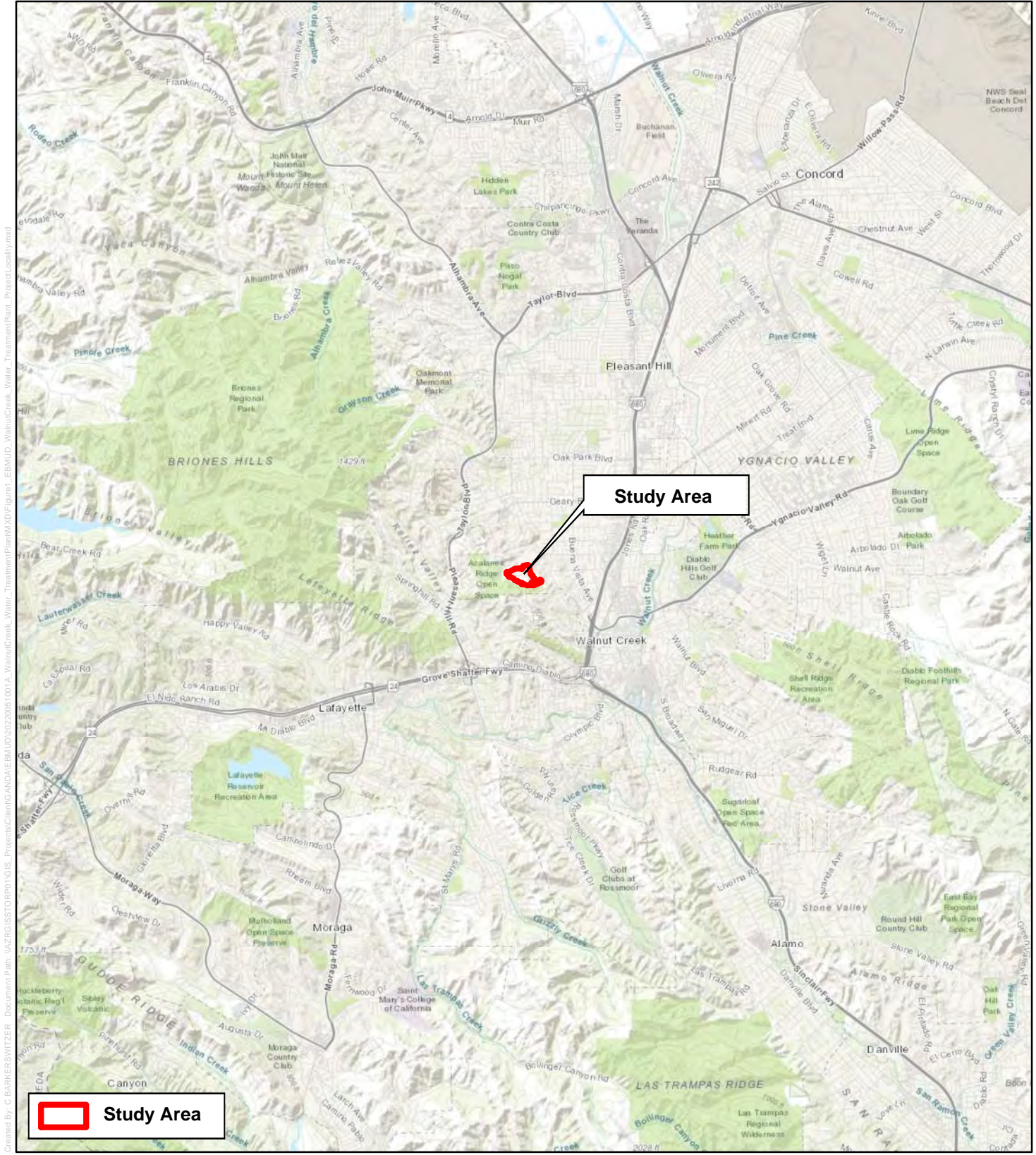
Hydrology

The Walnut Creek WTP Project site lies within the Grayson Creek Watershed, which drains a 11,021-acre area and is one of the five major sub-watersheds of the Walnut Creek Watershed (Contra Costa County Community Development Department 2003). The two intermittent creeks mapped within the study area join the central and western tributaries to Grayson Creek, and eventually flow to Grayson Creek, which is 8.87 miles, and flows to Pacheco Slough and then connects to Suisun Bay.

Soils

Soil types in the Walnut Creek WTP Project site study area were identified using the Web Soil Survey, a resource provided by the National Resources Conservation Service (NRCS 2022). The following soil units were identified within the Walnut Creek WTP Project site study area (see Appendix B for Soil Reports, soil descriptions and mapping): Lodo clay loam 30 to 50 percent slopes (LcF) and Los Osos Clay loam, 15 to 30 percent slopes (LhE).

The Lodo clay series consists of shallow, somewhat excessively drained soils that formed in material weathered from hard shale to fine grained sandstone. Lodo soils occur on uplands (mountain slopes, ridges, or hillslopes) and have slopes of 5 to 75 percent. These soils are found primarily where grazing, wildlife, and watersheds occur. Los Osos series consists of moderately deep, well drained soils that formed in material weathered from sandstone and shale. Los Osos soils occur on uplands (hills, mountain slopes) and have slopes of 5 to 75 percent. These soils are found primarily on ranges, and limited areas are cropped grain and sudan grass pasture.



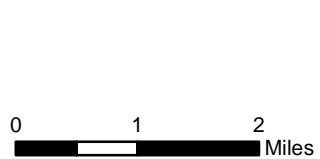
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Study Area

Study Area



USGS 7.5' Quad: WALNUT CREEK (1995)
 Legal Description: T01N, R02W SECTIONS 21, 22



N
 Scale 1:100,000
 1 Inch = 8,333 Feet


Figure 1: Project Vicinity
 EBMUD Walnut Creek
 Water Treatment Plant
 Contra Costa County, California



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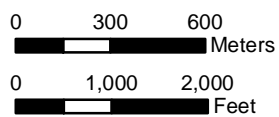


Study Area

 Study Area



USGS 7.5' Quad: WALNUT CREEK (1995)
Legal Description: T01N, R02W SECTIONS 21, 22

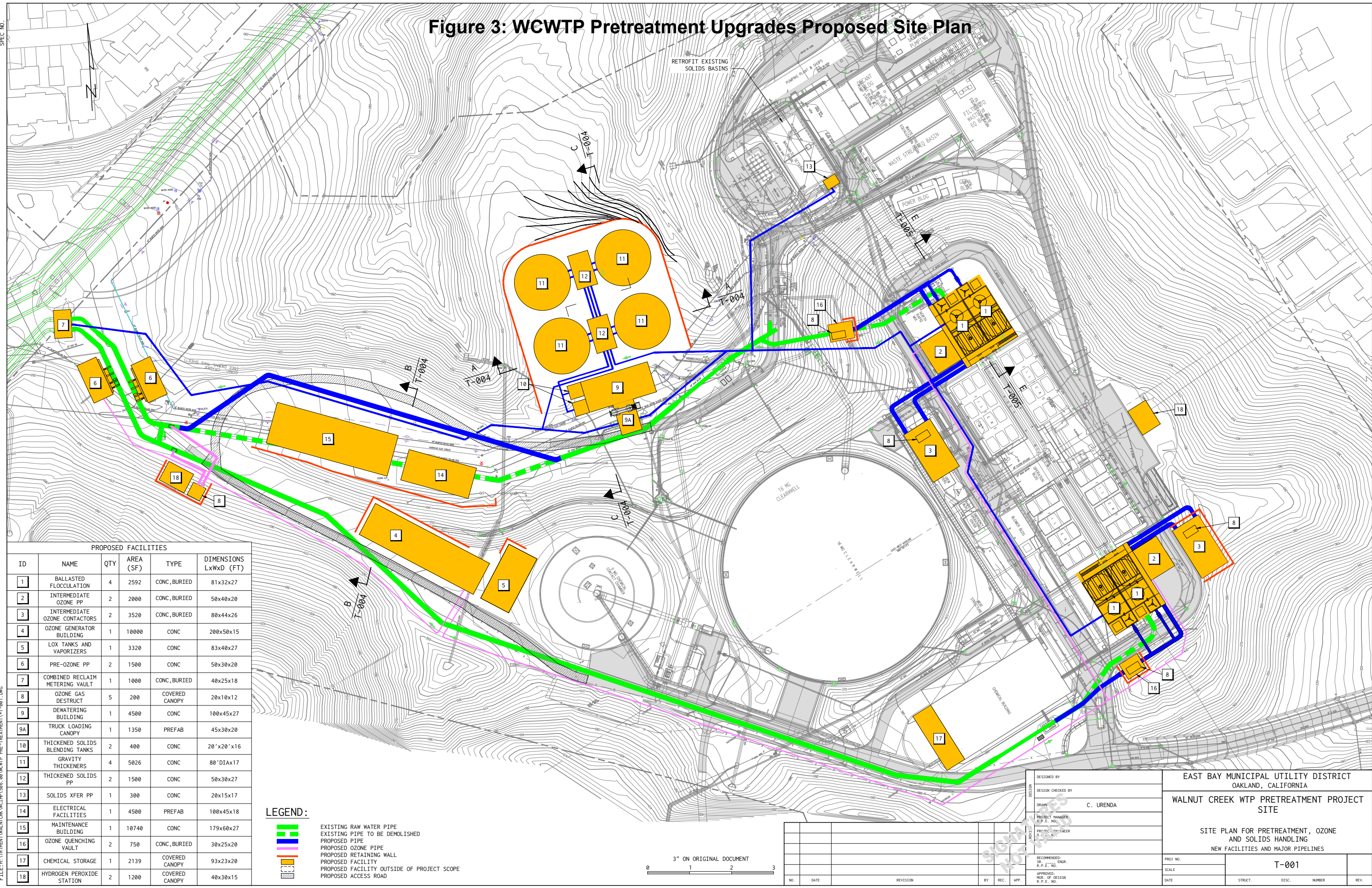


Scale 1:24,000
1 Inch = 2,000 Feet

Figure 2: Project Location
EBMUD Walnut Creek
Water Treatment Plant
Contra Costa County, California



Figure 3: WCWTP Pretreatment Upgrades Proposed Site Plan



SPEC. NO. _____
 REF 1: #####
 REF 2: #####
 REF 3: #####
 REF 4: #####
 USER: URENDA, CARLOS
 DATE: 1/7/2022, 10:32 AM
 FILE: \\S:\TREATMENT\WCWTP\096_00\WCWTP PRE-TREATMENT\T-001.DWG
 PLOT SCALE: 1:16.8356

PROPOSED FACILITIES

ID	NAME	QTY	AREA (SF)	TYPE	DIMENSIONS LxWxD (FT)
1	BALLASTED FLOCCULATION	4	2592	CONC, BURIED	81x32x27
2	INTERMEDIATE OZONE PP	2	2000	CONC, BURIED	50x40x20
3	INTERMEDIATE OZONE CONTACTORS	2	3520	CONC, BURIED	80x44x26
4	OZONE GENERATOR BUILDING	1	10000	CONC	200x50x15
5	LOX TANKS AND VAPORIZERS	1	3320	CONC	83x40x27
6	PRE-OZONE PP	2	1500	CONC	50x30x20
7	COMBINED RECLAIM METERING VAULT	1	1000	CONC, BURIED	40x25x18
8	OZONE GAS DESTRUCT	5	200	COVERED CANOPY	20x10x12
9	DEWATERING BUILDING	1	4500	CONC	100x45x27
9A	TRUCK LOADING CANOPY	1	1350	PREFAB	45x30x20
10	THICKENED SOLIDS BLENDING TANKS	2	400	CONC	20'x20'x16
11	GRAVITY THICKENERS	4	5026	CONC	80' DIAx17
12	THICKENED SOLIDS PP	2	1500	CONC	50x30x27
13	SOLIDS XFER PP	1	300	CONC	20x15x17
14	ELECTRICAL FACILITIES	1	4500	PREFAB	100x45x18
15	MAINTENANCE BUILDING	1	10740	CONC	179x60x27
16	OZONE QUENCHING VAULT	2	750	CONC, BURIED	30x25x20
17	CHEMICAL STORAGE	1	2139	COVERED CANOPY	93x23x20
18	HYDROGEN PEROXIDE STATION	2	1200	COVERED CANOPY	40x30x15

LEGEND:

- EXISTING RAW WATER PIPE
- EXISTING PIPE TO BE DEMOLISHED
- PROPOSED PIPE
- PROPOSED OZONE PIPE
- PROPOSED RETAINING WALL
- PROPOSED FACILITY
- PROPOSED FACILITY OUTSIDE OF PROJECT SCOPE
- PROPOSED ACCESS ROAD

3" ON ORIGINAL DOCUMENT
 0 1 2 3

DESIGNED BY	
DESIGN CHECKED BY	
DRAWN BY	C. URENDA
PROJECT MANAGER	
R.P.E. NO.	
PROJECT ENGINEER	
R.P.E. NO.	
RECOMMENDED BY	
R.P.E. NO.	
APPROVED BY	
R.P.E. NO.	

EAST BAY MUNICIPAL UTILITY DISTRICT OAKLAND, CALIFORNIA	
WALNUT CREEK WTP PRETREATMENT PROJECT SITE	
SITE PLAN FOR PRETREATMENT, OZONE AND SOLIDS HANDLING NEW FACILITIES AND MAJOR PIPELINES	
PROJ. NO.	
SCALE	T-001
DATE	
STRUCT.	
DISC.	
NUMBER	
REV.	

NO.	DATE	REVISION	BY	REC.	APP.

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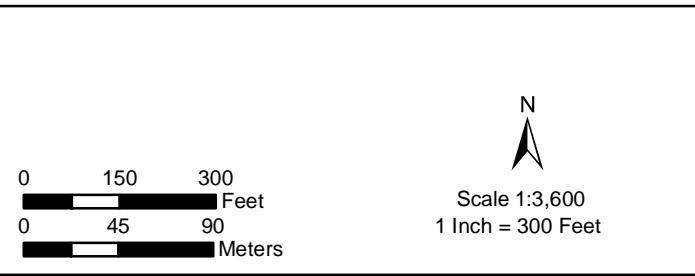


Figure 4: Staging Areas
 EBMUD Walnut Creek
 Water Treatment Plant
 Contra Costa County, California


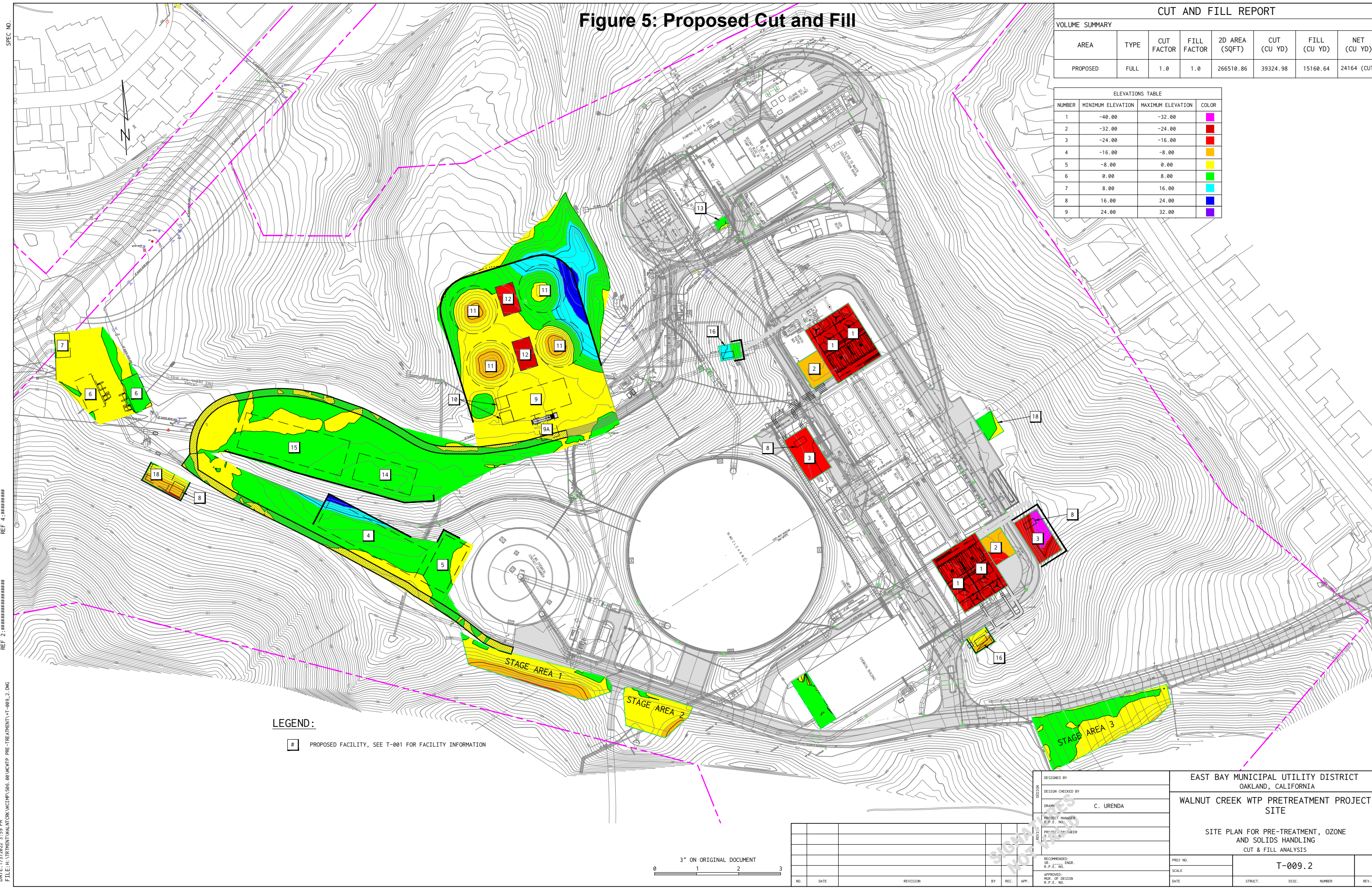


Figure 5: Proposed Cut and Fill

CUT AND FILL REPORT

VOLUME SUMMARY							
AREA	TYPE	CUT FACTOR	FILL FACTOR	2D AREA (SQFT)	CUT (CU YD)	FILL (CU YD)	NET (CU YD)
PROPOSED	FULL	1.0	1.0	266510.86	39324.98	15160.64	24164 (CUT)

ELEVATIONS TABLE			
NUMBER	MINIMUM ELEVATION	MAXIMUM ELEVATION	COLOR
1	-40.00	-32.00	Magenta
2	-32.00	-24.00	Red
3	-24.00	-16.00	Orange
4	-16.00	-8.00	Yellow
5	-8.00	0.00	Light Green
6	0.00	8.00	Green
7	8.00	16.00	Cyan
8	16.00	24.00	Blue
9	24.00	32.00	Dark Blue



LEGEND:

PROPOSED FACILITY, SEE T-001 FOR FACILITY INFORMATION

3" ON ORIGINAL DOCUMENT

NO.	DATE	REVISION	BY	REC.	APP.

DESIGNED BY	
DESIGN CHECKED BY	
DRAWN BY	C. URENDA
PROJECT MANAGER	
R.P.E. NO.	
PROJECT CHIEF	
R.P.E. NO.	
RECOMMENDED BY	
ENGR. R.P.E. NO.	
APPROVED BY	
ENGR. R.P.E. NO.	

EAST BAY MUNICIPAL UTILITY DISTRICT OAKLAND, CALIFORNIA	
WALNUT CREEK WTP PRETREATMENT PROJECT SITE	
SITE PLAN FOR PRE-TREATMENT, OZONE AND SOLIDS HANDLING CUT & FILL ANALYSIS	
PROJ. NO.	T-009.2
SCALE	
DATE	
STRUCT.	
DISC.	
NUMBER	
REV.	

SPEC. NO. 1:16.8356
 PLOT SCALE: 1:16.8356
 USER: URENDA, CARLOS
 DATE: 1/3/2022 3:59 PM
 FILE: \\TREATMENT\WALNUT\WTP\096_00\WCTP PRE-TREATMENT\T-009_2.DWG
 REF 1:#####
 REF 2:#####
 REF 3:#####
 REF 4:#####

Applied Methods

This preliminary delineation of aquatic resources investigation followed the wetland delineation methods described in the *Army Corps of Engineers Wetlands Delineation Manual* (USACE 1987), the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008), and the *Corps Regulatory Guidance Letter No. 05-05 Ordinary High Water Mark Identification* (USACE 2005).

Wetlands were identified based on vegetation, soils, and hydrology. Potential waters of the U.S. (wetland and water features) and sample point locations were mapped in the field using a Trimble Global Positioning System survey unit capable of sub-meter accuracy. If wetlands were determined, sample points were evaluated within the study area. Representative photographs of the Walnut Creek WTP Project site study area and aquatic features are included in Appendix C.

Preliminary Data Gathering and Review of Existing Materials

Prior to the field investigation, available aerial imagery, topographical maps, and soil maps of the Walnut Creek WTP Project site study area were reviewed to characterize the vegetation, soils, topography, and hydrology. Existing materials reviewed included geospatial wetlands information provided online by the United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) (USFWS 2022), current and historic aerial photography (Google Earth), the USGS *Walnut Creek 7.5-minute* topographic quadrangle, and the Web Soil Survey, a resource provided by the USDA NRCS (NRCS 2022).

Field Investigation

A field investigation to delineate the location and extent of aquatic resources within the 31.15-acre Walnut Creek WTP Project site study area was conducted on March 8, 2022, by Kleinfelder botanist Constance Ganong. Potential waters of the U.S. were mapped in the field, and representative photographs of the Walnut Creek WTP Project site study area and waters are included in Appendix C.

Mapping of Wetlands

Vegetation

Wetland vegetation was identified in the field based on species composition and corresponding wetland indicator status. The size of the sample plots represents the vegetation community and size of the feature. Plot sizes were generally listed in datasheets.

The percent cover of each plant species in the field was visually estimated. The “50/20” rule was used to select dominant species from each stratum (tree, shrub, and herb) of the community, as defined in the *Arid West Regional Supplement* (USACE 2008). In general, dominants are the most abundant species that individually or collectively account for more than 50 percent of the total cover of vegetation in each stratum, plus any other species that, by itself, accounts for at least 20 percent of the total. To identify 50 percent dominants, plant species are selected, in decreasing order of coverage, until the cumulative coverage of selected species exceeds 50 percent of the total coverage

for each stratum. If two or more species are equal in coverage, they are selected. In addition, any other species that, by itself, is at least 20 percent of the total percent cover in each stratum is selected. The selected plant species are considered to be dominants.

Plants were identified according to *The Jepson Manual, Vascular Plants of California, Second Edition* (Baldwin et. al. eds, 2012). The indicator status of each species was determined based on *The National Wetland Plant List: 2020 wetland ratings* (USACE accessed at NWPL Home v3.4-f9c (army.mil)). Vegetation was considered hydrophytic if more than 50 percent of the dominant species from all strata were obligate wetland, facultative wetland, or facultative and the Prevalence Index was 3.0 or less.

Wetland indicator species include those listed as obligate (OBL), facultative wetland (FACW), or facultative (FAC) in the *National List* for the Arid West Region. Upland indicator categories include facultative upland (FACU), or upland (UPL). Plants that are not found in the *National List* are designated as Not Listed (NL). Wetland indicator status categories are described in Table 1.

Table 1 Wetland Indicator Categories

Indicator Category	Wetland Occurrence
Obligate wetland plants (OBL)	Almost always occur in wetlands. With few exceptions, these plants (herbaceous or woody) are found in standing water or seasonally saturated soils (14 or more consecutive days) near the surface.
Facultative wetland plants (FACW)	Usually occur in a wetland but may occur in non-wetlands. These plants predominantly occur with hydric soils, often in geomorphic settings where water saturates the soils or floods the soil surface at least seasonally.
Facultative plants (FAC)	Occur in wetlands and non-wetlands. These plants can grow in hydric, mesic, or xeric habitat. The occurrence of these plants in different habitats represents responses to a variety of environmental variables other than just hydrology, such as shade tolerance, soil pH, and they have a wide tolerance of soil moisture conditions.
Facultative upland plants (FACU)	Usually occur in non-wetlands but may occur in wetlands. These plants predominantly occur on drier or more mesic sites in geomorphic settings where water rarely saturates the soils or floods the soil surface at least seasonally.
Upland plants (UPL)	Almost never occur in wetlands. These plants occupy mesic to xeric non-wetland habitats. They almost never occur in standing water or saturated soils. Typical growth includes herbaceous, shrubs, woody vines, and trees.

Source: Lichvar et. al. 2012

Hydrology

Hydrology was characterized in the field using the methods provided in the *Arid West Supplement* (USACE 2008) and included such characteristics as surface water, high water table, and saturation at a wetland feature.

Soils

Soils were characterized in the field using the methods provided in the *Arid West Supplement* (USACE 2008). Since no wetlands were observed during the site visit, it was not necessary to excavate a soil pit. The determination of whether soils were hydric is based on hydric soil indicators, which are a function of soil texture, matrix color, and/or the presence of other hydric soil indicators. Soil colors are classified according to the *Munsell Soil Color Charts* (Munsell 1994).

Mapping of Other Waters of the U.S.

The lateral edges of the nontidal creeks within the Walnut Creek WTP Project site study area were mapped at locations of the OHWM. The OHWM is defined as "...the line on the [watercourse banks] established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on bank; shelving; changes in the character of soil; destruction of terrestrial vegetation; the presence of litter and debris; or other appropriate means that consider the characteristics of the surrounding areas" (33 Code of Federal Regulations [CFR] 328).

The location of the OHWM for nontidal water bodies under the Clean Water Act includes evaluating physical characteristics of the area that are determined to be reliable indications of the OHWM (USACE 2005). Physical evidence to be evaluated includes those items listed in 33 CFR 329.11 (a)(1) including, but not limited to:

Natural line impressed on bank	Sediment sorting
Shelving	Leaf litter disturbed or washed away
Changes in the character of soil	Scour
Destruction of terrestrial vegetation	Deposition
Presence of litter and debris	Multiple observed flow events
Wracking	Bed and bank
Vegetation matted down, bent, or absent	Water staining
Change in plant community	

Results

Five water features were identified within the Walnut Creek WTP Project site study area and were assigned alphanumeric binomial labels, ED-1, IC-1, IC-2, IC-3, and IC-4, and are depicted on the map in Appendix A. IC-1 and IC-3 are two mapped portions of Putnam Creek, and IC-2 and IC-4 are mapped portions of an unnamed intermittent creek. The first part of the binomial consists of an acronym for the feature type (e.g., ED for ephemeral drainage and IC for Intermittent Creek). The second part of the binomial consists of a unique sequential number.

Appendix A depicts the extent of the 31.15-acre Walnut Creek WTP Project site study area and water features that were identified and mapped in the study area. No wetlands were identified within the Walnut Creek WTP Project site study area. Table 2 below lists the waters type and acreage of the water feature, as well as the length in linear feet.

Table 2 Acreage and Linear Feet of Aquatic Resources within the Survey Area

Aquatic Resource Name	Latitude/Longitude	Approximate Acreage	Approximate Linear Feet
Ephemeral Drainage			
ED-1	37.914316, -122.086738	0.0097	427.67
Intermittent Creek			
IC-1 (Putnam Creek)	37.914682, -122.084699	0.02	218.29
IC-2 (unnamed creek)	37.914317, -122.085839	0.02	447.89
IC-3 (Putnam Creek)	37.912367, -122.084525	0.0047	69.28
IC-4 (unnamed creek)	37.912832, -122.086014	0.0038	55.38
TOTAL WATER FEATURES		0.0582	1,12851

Water Features

The following describes the aquatic resources identified in the Walnut Creek WTP Project site study area.

Intermittent Creeks

Two intermittent creeks were identified and mapped at four locations (IC-1, IC-2, IC-3, and IC-4) in the Walnut Creek WTP Project site study area. Intermittent Creek 1 (IC-1), comprising approximately 0.02 acre in the Walnut Creek WTP Project site study area, and IC-3, comprising approximately 0.0047 acre in the Walnut Creek WTP Project site study area, are hydrologically connected via a 36-inch culvert under the Walnut Creek WTP and constitute one intermittent creek known as Putnam Creek. At the time of the survey, Putnam Creek had a low rate of flow. The outfall of IC-1 at the north end of the culvert is very narrow, approximately two feet wide, and winds through dense understory of English ivy (*Hedera helix*) and poison oak (*Toxicodendron diversilobum*), and an overstory of California bay (*Umbellularia californica*), California buckeye (*Aesculus californica*), and valley oak (Appendix C, Photo 1). Putnam Creek flows through a narrow weir to measure water flow (Appendix C, Photo 2) and steeply drops approximately 10 feet via a concrete lined channel (Appendix C, Photo 3), where it then widens to between five and eight feet wide as it flows north out of the Walnut Creek WTP Project site study area (Appendix C, Photo 4). There were no wetlands present within Putnam Creek. The southern end of Putnam Creek at IC-3 is approximately three feet wide as it flows north through the culvert that crosses under the Walnut Creek WTP (Appendix C, Photo 5 and Photo 6). The dense overstory along IC-3 consists of coast live oak, live oak, and California bay.

Intermittent Creek 2 (IC-2), approximately 0.02 acre, and IC-4, approximately 0.0038 acre, are hydrologically connected via a 36-inch culvert under the Walnut Creek WTP and constitute the second intermittent creek in the Walnut Creek WTP Project site study area. IC-2 within the Walnut Creek WTP Project site study area is approximately two feet wide, and IC-3 within the Walnut Creek WTP Project site study area is approximately 3 feet wide and was flowing at a low rate at the time of the survey. This unnamed creek flows north through a culvert under the Walnut Creek WTP and through non-native grasslands with overstory consisting of coast live oak, valley oak, and California bay (Appendix C, Photos 7 and 8).

Both intermittent creeks mapped within the study area flow north and converge approximately 615 feet north of the Walnut Creek WTP Project site study area. After the two creeks merge, Putnam Creek is presumed to flow to Murderer's Creek, then to Grayson Creek that flows to Pacheco Slough, which connects to Suisun Bay. The National Wetlands Inventory Mapper classifies these creek habitats as intermittent riverine streambeds, which are temporary flooded (R4SBA) (USFWS 2022).

Ephemeral Drainage

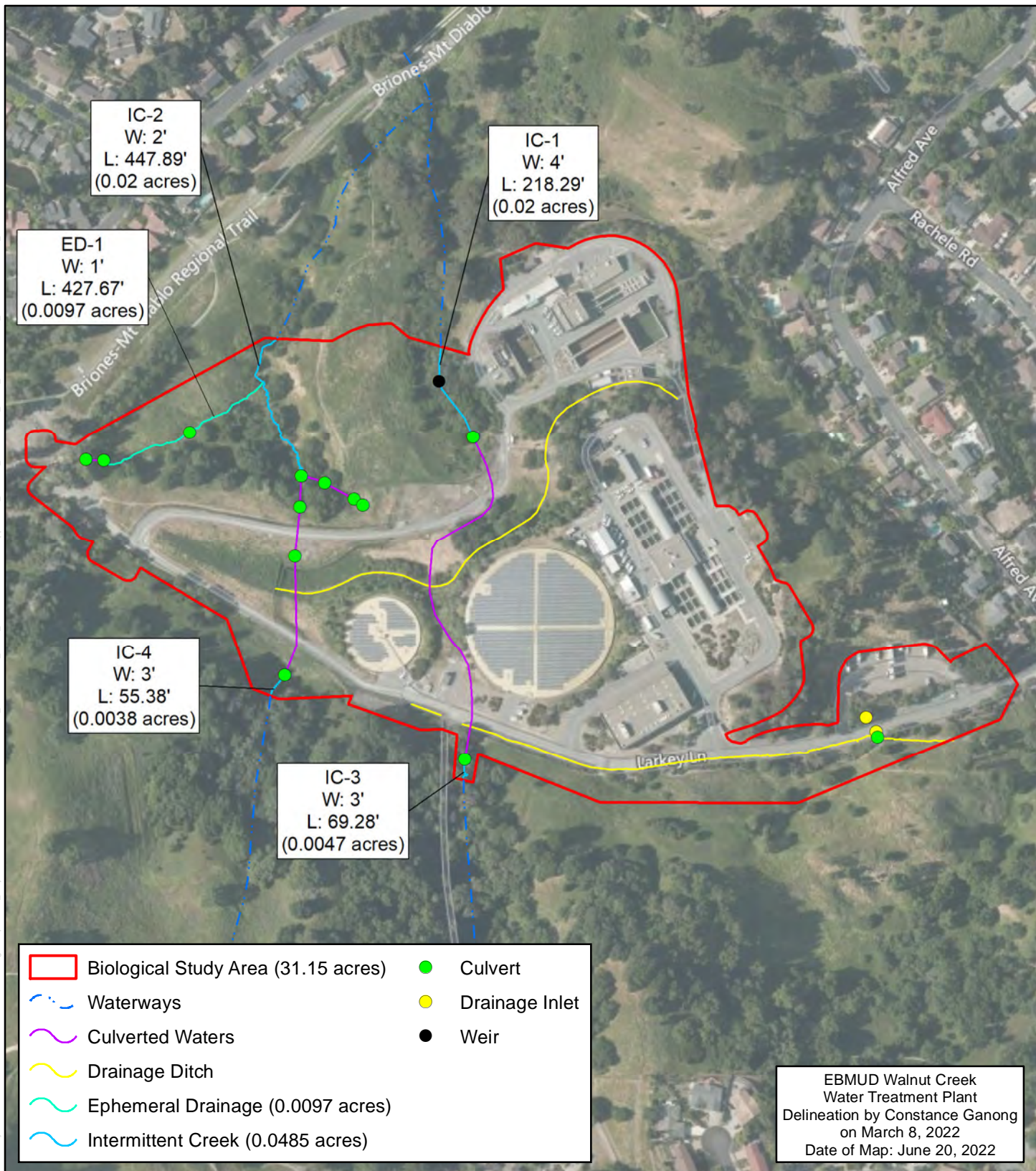
There is one approximately 0.0097-acre ephemeral drainage (ED-1) in the Walnut Creek WTP Project site study area that flows between three small culverts at the northwest edge of the Walnut Creek WTP Project site study area until it merges with IC-2 at the bottom of the hillslope. This drainage is approximately one foot wide (Appendix C, Photo 6) and flows northeast through non-native grassland, where the overstory consists of coast live oak, valley oak, and California bay (Appendix C, Photo 9).

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Appendix A
Aquatic Resources Map

Created By: C. BARRERSWITZER Document Path: \\azgigst0p01\GIS\Projects\Chern\GAND\EBMUD\20220601\001A_WalnutCreek_Water_TreatmentPlant\MapXD\AppendixA_EBMUD_WalnutCreek_Water_TreatmentPlant\MapXD\AppendixA_20220601.mxd



EBMUD Walnut Creek Water Treatment Plant
Delineation by Constance Ganong
on March 8, 2022
Date of Map: June 20, 2022

	Biological Study Area (31.15 acres)		Culvert
	Waterways		Drainage Inlet
	Culverted Waters		Weir
	Drainage Ditch		
	Ephemeral Drainage (0.0097 acres)		
	Intermittent Creek (0.0485 acres)		




USGS 7.5' Quad: WALNUT CREEK (1995)
Legal Description: T01N, R02W SECTIONS 21, 22

Scale 1:3,600
1 Inch = 300 Feet

0 150 300 Feet
0 45 90 Meters

N

Appendix A: Wetland Delineation
EBMUD Walnut Creek
Water Treatment Plant
Contra Costa County, California



Appendix B
Custom Soil Resource Report



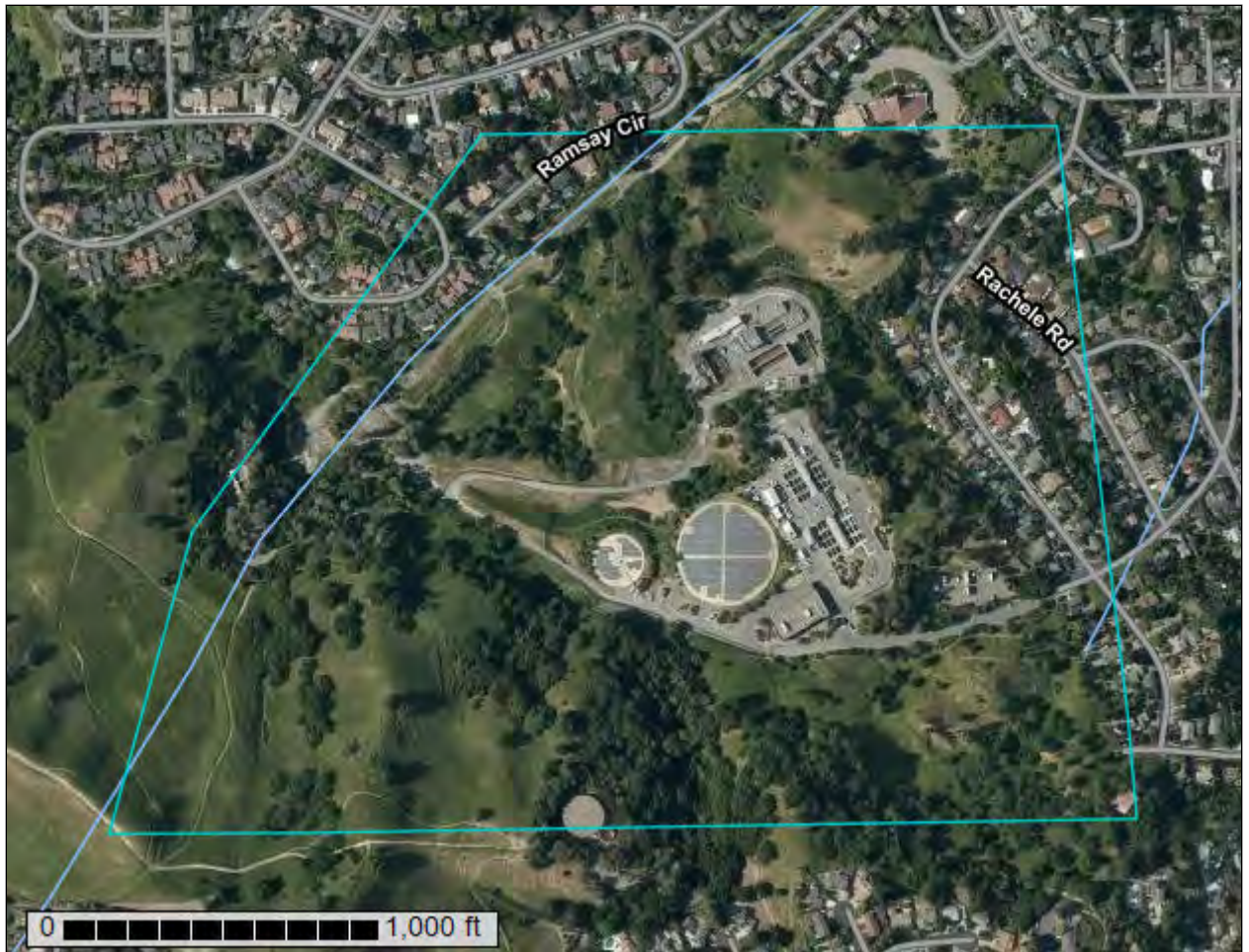
United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Contra Costa County, California



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report

Soil Map (EBMUD Walnut Creek Waste Water Treatment Plant)



Map Scale: 1:5,780 if printed on A landscape (11" x 8.5") sheet.


0 50 100 200 300 Meters

0 250 500 1000 1500 Feet


Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84


MAP LEGEND


Area of Interest (AOI)

 Area of Interest (AOI)




















Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Contra Costa County, California
 Survey Area Data: Version 18, Sep 9, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 25, 2019—Apr 29, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend (EBMUD Walnut Creek Waste Water Treatment Plant)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CnE	Cut and fill land-Los Osos complex, 9 to 30 percent slopes	2.1	1.6%
CoF	Cut and fill land-Millsholm complex, 30 to 50 percent slopes	16.4	12.1%
LcF	Lodo clay loam, 30 to 50 percent slopes, very rocky, MLRA 15	93.6	69.4%
LcG	Lodo clay loam, 50 to 75 percent slopes, very rocky, MLRA 15	1.8	1.3%
LhE	Los Osos clay loam, 15 to 30 percent slopes	17.1	12.7%
TaD	Tierra loam, 9 to 15 percent slopes, MLRA 14	4.0	2.9%
Totals for Area of Interest		134.9	100.0%

Map Unit Descriptions (EBMUD Walnut Creek Waste Water Treatment Plant)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They

Custom Soil Resource Report

generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Contra Costa County, California

CnE—Cut and fill land-Los Osos complex, 9 to 30 percent slopes

Map Unit Setting

National map unit symbol: h98p
Elevation: 100 to 2,500 feet
Mean annual precipitation: 14 to 25 inches
Mean annual air temperature: 59 degrees F
Frost-free period: 260 to 300 days
Farmland classification: Not prime farmland

Map Unit Composition

Cut and fill land (fill part): 70 percent
Los osos and similar soils: 15 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cut And Fill Land (fill Part)

Typical profile

- 0 to 60 inches: clay

Description of Los Osos

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from sandstone and shale

Typical profile

H1 - 0 to 8 inches: clay loam
H2 - 8 to 27 inches: clay
H3 - 27 to 31 inches: bedrock

Properties and qualities

Slope: 9 to 30 percent
Depth to restrictive feature: 24 to 40 inches to paralithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Ecological site: R015XY009CA - Hills 20-40"ppt
Hydric soil rating: No

Minor Components

Alo

Percent of map unit: 10 percent
Hydric soil rating: No

Sehorn

Percent of map unit: 5 percent
Hydric soil rating: No

CoF—Cut and fill land-Millsholm complex, 30 to 50 percent slopes

Map Unit Setting

National map unit symbol: h98r
Elevation: 300 to 2,000 feet
Mean annual precipitation: 14 to 24 inches
Mean annual air temperature: 59 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Not prime farmland

Map Unit Composition

Cut and fill land (fill part): 60 percent
Millsholm and similar soils: 20 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cut And Fill Land (fill Part)

Typical profile

- 0 to 60 inches: silty clay loam

Description of Millsholm

Setting

Landform: Upland slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from sandstone and shale

Typical profile

H1 - 0 to 12 inches: loam
H2 - 12 to 16 inches: bedrock

Properties and qualities

Slope: 30 to 50 percent
Depth to restrictive feature: 12 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Very high

Custom Soil Resource Report

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: D

Ecological site: R015XY008CA - Hills <20"ppt

Hydric soil rating: No

Minor Components

Lodo

Percent of map unit: 10 percent

Hydric soil rating: No

Los gatos

Percent of map unit: 5 percent

Hydric soil rating: No

Los osos

Percent of map unit: 5 percent

Hydric soil rating: No

LcF—Lodo clay loam, 30 to 50 percent slopes, very rocky, MLRA 15

Map Unit Setting

National map unit symbol: 2tb80

Elevation: 10 to 2,250 feet

Mean annual precipitation: 20 to 32 inches

Mean annual air temperature: 57 to 61 degrees F

Frost-free period: 240 to 330 days

Farmland classification: Not prime farmland

Map Unit Composition

Lodo and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lodo

Setting

Landform: Ridges, mountain slopes, hillslopes

Down-slope shape: Convex, linear

Across-slope shape: Convex

Parent material: Residuum weathered from sandstone and shale

Custom Soil Resource Report

Typical profile

H1 - 0 to 18 inches: clay loam

H2 - 18 to 28 inches: bedrock

Properties and qualities

Slope: 30 to 50 percent

Depth to restrictive feature: 4 to 20 inches to lithic bedrock

Drainage class: Somewhat excessively drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: D

Ecological site: R015XD072CA - STEEP SHALLOW FINE LOAMY

Hydric soil rating: No

Minor Components

Milsholm

Percent of map unit: 10 percent

Hydric soil rating: No

Rock outcrop

Percent of map unit: 3 percent

Hydric soil rating: No

Gaviota

Percent of map unit: 2 percent

Hydric soil rating: No

LcG—Lodo clay loam, 50 to 75 percent slopes, very rocky, MLRA 15

Map Unit Setting

National map unit symbol: 2tb81

Elevation: 200 to 1,750 feet

Mean annual precipitation: 15 to 31 inches

Mean annual air temperature: 57 to 60 degrees F

Frost-free period: 260 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Lodo and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lodo

Setting

Landform: Ridges, mountain slopes, hillslopes, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from sandstone and shale

Typical profile

H1 - 0 to 18 inches: clay loam
H2 - 18 to 28 inches: bedrock

Properties and qualities

Slope: 50 to 75 percent
Depth to restrictive feature: 4 to 20 inches to lithic bedrock
Drainage class: Somewhat excessively drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): 7e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R015XD120CA - VERY STEEP SHALLOW FINE LOAMY
Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 8 percent
Hydric soil rating: No

Millsholm

Percent of map unit: 7 percent
Hydric soil rating: No

LhE—Los Osos clay loam, 15 to 30 percent slopes

Map Unit Setting

National map unit symbol: 2yrgk
Elevation: 50 to 1,420 feet
Mean annual precipitation: 17 to 29 inches
Mean annual air temperature: 58 to 62 degrees F
Frost-free period: 284 to 365 days

Custom Soil Resource Report

Farmland classification: Not prime farmland

Map Unit Composition

Los osos and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Los Osos

Setting

Landform: Mountain slopes, hills

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Mountainflank, side slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Residuum weathered from sandstone and shale

Typical profile

A - 0 to 10 inches: clay loam

Bt1 - 10 to 20 inches: clay

Bt2 - 20 to 32 inches: clay

Cr - 32 to 42 inches: bedrock

Properties and qualities

Slope: 15 to 30 percent

Depth to restrictive feature: 24 to 40 inches to paralithic bedrock

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: D

Ecological site: R015XD035CA - STEEP FINE LOAMY

Hydric soil rating: No

Minor Components

Alo

Percent of map unit: 4 percent

Landform: Hills

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Convex

Hydric soil rating: No

Gaviota

Percent of map unit: 2 percent

Custom Soil Resource Report

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Diablo

Percent of map unit: 2 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Millsholm

Percent of map unit: 2 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Lodo

Percent of map unit: 2 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Tierra

Percent of map unit: 1 percent
Landform: Terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Los gatos

Percent of map unit: 1 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

San benito

Percent of map unit: 1 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope

Custom Soil Resource Report

Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

TaD—Tierra loam, 9 to 15 percent slopes, MLRA 14

Map Unit Setting

National map unit symbol: 2tz0w
Elevation: 0 to 1,530 feet
Mean annual precipitation: 15 to 27 inches
Mean annual air temperature: 57 to 60 degrees F
Frost-free period: 240 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Tierra and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tierra

Setting

Landform: Terraces, fluvial terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from sedimentary rock

Typical profile

Ap - 0 to 7 inches: loam
A - 7 to 25 inches: loam
Bt - 25 to 59 inches: clay
C - 59 to 79 inches: clay loam

Properties and qualities

Slope: 9 to 15 percent
Depth to restrictive feature: 10 to 26 inches to abrupt textural change
Drainage class: Moderately well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
(0.01 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Custom Soil Resource Report

Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Ecological site: R015XD115CA - CLAYPAN, R015XD049CA - LOAMY CLAYPAN
Hydric soil rating: No

Minor Components

Los osos

Percent of map unit: 5 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Millsholm

Percent of map unit: 5 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: No

Chamise

Percent of map unit: 2 percent
Landform: Terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Pleasanton

Percent of map unit: 1 percent
Landform: Terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Briones

Percent of map unit: 1 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Diablo

Percent of map unit: 1 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope

Custom Soil Resource Report

Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

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Appendix C
Photographs of the Study Area



Photo 1. Outfall of IC-1 at the northern end of the study area. The creek approximately two feet wide at this area before it flows through the weir. Photo facing south. March 8, 2022



Photo 2. IC-1 flows through a concrete weir that measures water flow. Photo facing north. March 8, 2022



Photo 3. Through the weir IC-1 flows down a concrete lined channel approximately 10 feet high. Photo facing south. March 8, 2022



Photo 4. IC-1 flows north outside of the study area after the drop from the weir. The creek width ranged from approximately five feet to eight feet wide. Photo facing north. March 8, 2022



Photo 5. IC-3 is hydrologically connected to IC-1 via a culvert that flows north under the water treatment plant. Photo facing north. March 8, 2022



Photo 6. IC-3 looking south upstream. March 8, 2022



Photo 7. The unnamed intermittent creek (IC-2) flows north from this culvert. Photo facing south. March 8, 2022



Photo 8. IC-2 is approximately two feet wide and flows primarily through non-native grasslands. Photo facing south. March 8, 2022



Photo 9. Ephemeral drainage 1 (ED-1), which is approximately one foot wide, flows northeast to IC-2. Photo facing southwest. March 8, 2022

Appendix D
Aquatic Resource Spreadsheet

Waters_Name	State	Cowardin_Code	HGM_Code	Meas_Type	Amount	Units	Waters_Type	PR_Determine_Cd	Latitude	Longitude	Local_Waterway
Ephemeral Channel 1 (EC-1)	CALIFORNIA	R4	RIVERINE	Area	0.0097	ACRE	PJD404		37.914316	-122.086738	
Intermittent Creek 1 (IC-1)	CALIFORNIA	R4	RIVERINE	Area	0.02	ACRE	PJD404		37.914682	-122.084699	
Intermittent Creek 2 (IC-2)	CALIFORNIA	R4	RIVERINE	Area	0.02	ACRE	PJD404		37.914317	-122.085839	
Intermittent Creek 3 (IC-3)	CALIFORNIA	R4	RIVERINE	Area	0.0047	ACRE	PJD404		37.912367	-122.084525	
Intermittent Creek 4 (IC-4)	CALIFORNIA	R4	RIVERINE	Area	0.0038	ACRE	PJD404		37.912832	-122.086014	

Appendix H - Geotechnical Interpretive Report

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Geotechnical Interpretive Report
Walnut Creek Water Treatment Plant
2201 Larkey Lane
Walnut Creek, California

Woodard & Curran

2175 N. California Boulevard | Walnut Creek, California 94596

June 9, 2022 | Project No. 403982001



Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

Geotechnical Interpretive Report
Walnut Creek Water Treatment Plant
2201 Larkey Lane
Walnut Creek, California



Woodard & Curran

2175 N. California Boulevard | Walnut Creek, California 94596

June 9, 2022 | Project No. 403982001



June 9, 2022
Peter C. Connolly, PE, GE
Principal Engineer
DCS/PCC/gvr


June 9, 2022

David C. Seymour, PG, CEG
Principal Engineering Geologist

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1 INTRODUCTION

This Geotechnical Interpretive Report (GIR) has been prepared by Ninyo & Moore as subconsultant to Woodard & Curran and presents the findings from recent subsurface exploration performed by Ninyo & Moore, a compilation of geotechnical and geologic information from regional studies and previous investigations at the Walnut Creek Water Treatment Plant (WCWTP), and geotechnical recommendations for the WCWTP Pretreatment Project (Project). The geotechnical recommendations are provided for consideration during project planning and should be reviewed by the future Geotechnical Engineer-of-Record (GEOR) and modified, as appropriate, to reflect actual structure dimensions, updated loads, or additional information from supplemental investigations.

2 SITE DESCRIPTION

The WCWTP located at 2201 Larkey Lane in Walnut Creek (Figure 1) is bounded to the east by single-family residential properties, and to the north, south, and west by open space. The WCWTP is situated on the northeastern flank of a northwest trending ridge atop a smaller, northerly-trending spur. Existing facilities at the WCWTP include a 16-million-gallon (MG) clearwell tank, a 4-MG chlorine contact chamber, dual-media filters, filter backwash water reclamation system, solids processing facilities, chemical building, Larkey Pumping Plant (PP), and the Leland Number 2 PP.

3 PROJECT DESCRIPTION

The proposed improvements associated with the Project under consideration (EBMUD, 2020) are summarized in Table 1. The proposed locations for the improvements are noted on Figure 2. The anticipated finish floor elevations for several of the proposed facilities are significantly above or below the existing grade. The anticipated finish pad elevations for the proposed facilities based on preliminary cut/fill estimates in the Basis of Design Report (BODR; EBMUD, 2020) are summarized in Table 2 along with the estimated grade differential between the existing grade and finish pad elevation assuming a finish pad elevation approximately 1 foot below finish floor. The assumed pad elevations listed in Table 2 are ordered geographically beginning with facilities at the western margin of the WCWTP and proceeding northeast then south. The alternate shading in the table is used to group facilities within close proximity.

Table 1 – Summary of Proposed Facilities

Facility ID	Name	Type	Quantity	Approximate Dimensions (ft)
1	Ballasted Flocculation	Concrete, Buried	4	81x32x27
2	Intermediate Ozone PP	Concrete, Buried	2	50x40x20
3	Intermediate Ozone Contactors	Concrete, Buried	2	80x44x26
4	Ozone Generator Building	Concrete	1	200x50x15
5	LOX Tanks & Vaporizers	Concrete	1	83x40x27
6	Pre-Ozone PP	Concrete	2	50x30x20
7	Combined Reclaim Metering Vault	Concrete, Buried	1	40x25x18
8	Ozone Gas Destruct	Canopy	5	20x10x12
9	Dewatering Building	Concrete	1	100x45x27
9A	Truck Loading Canopy	Prefabricated	1	45x30x20
10	Thickened Solids Blending Tanks	Concrete	2	20x20x16
11	Gravity Thickeners	Concrete, Buried	4	80' Diameter x17
12	Thickened Solids PP	Concrete, Buried	2	50x30x27
13	Solids Transfer PP	Concrete	1	20x15x17
14	Electrical Facilities	Prefabricated	1	100x45x18
15	Maintenance Building	Concrete	1	120x60x27
16	Ozone Quenching Vault	Concrete, Buried	2	30x25x20
17	Chemical Storage	Canopy	1	93x23x20
18	Hydrogen Peroxide Station	Canopy	2	40x30x15

Note:

Dimensions are Length x Width x Height in feet unless otherwise noted

Reference: BODR (EBMUD, 2020)

Table 2 – Assumed Pad Elevations

Facility ID	Name	Finish Pad Elevation	FPE Relative to EGSE
7	Combined Reclaim Metering Vault	323 feet	18 feet below
6	Pre-Ozone PP – East	339 feet	1 foot below to 3 feet above
6	Pre-Ozone PP – West	340 feet	1 to 3 feet below
8	Ozone Gas Destruct- West	346 feet	5 to 14 feet below
18	Hydrogen Peroxide Station – West	346 feet	1 to 14 feet below
15	Maintenance Building	336 feet	2 feet below to 7 feet above
14	Electrical Facilities	333 feet	2 feet to 6 feet above
4	Ozone Generator Building	361 feet	1 foot below to 17 feet above
5	LOX Tanks & Vaporizers	365 feet	2 feet below to 5 feet above
11	Gravity Thickener – Northeast	290 feet	4 to 20 feet below
11	Gravity Thickener – Northwest	290 feet	18 to 25 feet below
11	Gravity Thickener – Southwest	293 feet	24 to 27 feet below
11	Gravity Thickener – Southeast	293 feet	8 to 25 feet below
12	Thickened Solids PP – North	286 feet	22 to 28 feet below
12	Thickened Solids PP – South	290 feet	26 to 29 feet below
9	Dewatering Building	317 feet	3 to 7 feet below
9A	Truck Loading Canopy	322 feet	1 to 4 feet below
10	Thickened Solids Blending Tank – North	319 feet	0 to 5 feet below
10	Thickened Solids Blending Tank – South	319 feet	4 to 6 feet below
13	Solids Transfer PP	320 feet	1 foot below to 1 foot above
1	Ballasted Flocculation – Northeast	360 feet	24 feet below
1	Ballasted Flocculation – Northwest	360 feet	24 feet below
2	Intermediate Ozone PP – North	370 feet	14 feet below
3	Intermediate Ozone Contactor – North	357 feet	21 to 26 feet below
8	Ozone Gas Destruct	On North Intermediate Ozone Contactor (3)	
16	Ozone Quenching Vault – North	338 feet	10 to 22 feet below
8	Ozone Gas Destruct	On North Ozone Quenching Vault (16)	
18	Hydrogen Peroxide Station – East	382 feet	1 foot below
1	Ballasted Flocculation – Southeast	360 feet	24 feet below
1	Ballasted Flocculation – Southeast	360 feet	24 feet below
2	Intermediate Ozone PP – South	370 feet	14 feet below
3	Intermediate Ozone Contactors – South	364 feet	20 to 37 feet below
8	Ozone Gas Destruct	On South Intermediate Ozone Contactor (3)	
16	Ozone Quenching Vault – South	361 feet	20 to 31 feet below
8	Ozone Gas Destruct	On South Ozone Quenching Vault (16)	
17	Chemical Storage	380 feet	1 foot below to 1 foot above

Notes:

Finish Pad Elevation (FPE) estimated from preliminary cut/fill estimates in the BODR (EBMUD, 2020) and Existing Ground Surface Elevation (EGSE) from Figure 2.

New permanent retaining walls associated with the Project are under consideration at eight locations (EBMUD, 2020). The retaining walls will retain cut at four locations and fill at four locations. The retaining wall locations are listed in Table 3 along with a description of the retained grade differential across the wall. In addition, three new staging areas have been proposed for construction (Figure 2) with retaining walls along the southern margins of the staging areas so that the grade in the staging areas may be cut down to match the grade on the adjacent roadway. The anticipated grade differential of the retaining walls at the staging areas are also listed in Table 3.

Table 3 – Summary of Proposed Retaining Walls	
Wall Location	Retains
West, south, and east of western Hydrogen Peroxide Station (18) and western Ozone Gas Destruct (8)	Up to 18 feet of cut
East and south of Electrical Facilities (14) and south of Dewatering Building (9) and Maintenance Building (15)	Up to 8 feet of fill
North and west of Ozone Generator Building (4)	Up to 22 feet of fill
Northern corner of LOX Tanks and Vaporizers (5)	Up to 10 feet of fill
West, north, and east of Gravity Thickeners (11) and Thickened Solids PP (12)	Up to 22 feet of fill
Eastern portion of northern Ozone Quenching Vault (16)	Up to 12 feet of cut
West, south, and east of southern Ozone Quenching Vault (16)	Up to 14 feet of cut
North, east, and south of southern Intermediate Ozone Contactor (3)	Up to 18 feet of cut
West and south of Staging Area 1	Up to 18 feet of cut
South and east of Staging Area 2	Up to 12 feet of cut
South and east of Staging Area 3	Up to 10 feet of cut

Reference: BODR (EBMUD, 2020)

To evaluate and develop appropriate foundation recommendations, Ninyo & Moore estimated distributed interior loads, sustained column and wall loads, and gross mat foundation bearing pressures that includes the distributed interior and wall/column loads for the proposed facilities, where applicable. The estimated foundation loads are summarized in Table 4.

Table 4 – Sustained Foundation Loads Assumed for Analysis

Facility ID	Facility Name	Distributed Interior Load	Column Load	Wall Load	Gross Mat Bearing Pressure
1	Ballasted Flocculation Basins	2,700 psf	--	4.6 kips/foot	3.1 ksf
2	Intermediate Ozone PP Vault	1,000 psf	--	3.6 kips/foot	1.3 ksf
3	Intermediate Ozone Contactor Tanks	2,600 psf	--	4.6 kips/foot	2.9 ksf
4	Ozone Generator Building	1,000 psf	38 kips	2.5 kips/foot	1.1 ksf
5	LOX Tanks & Vaporizers Building	1,000 psf	28 kips	3.4 kips/foot	1.3 ksf
6	Pre-Ozone PP Building	1,000 psf	19 kips	2.5 kips/foot	1.3 ksf
7	Combined Reclaim Metering Vault	1,000 psf	--	--	1.4 ksf
8	Ozone Gas Destruct Canopy	1,000 psf	3 kips	--	1.1 ksf
9	Dewatering Building	1,000 psf	38 kips	3.5 kips/foot	1.2 ksf
9A	Truck Loading Canopy	--	15 kips	--	--
10	Thickened Solids Blending Tanks	1,600 psf	--	2.7 kips/foot	2.1 ksf
11	Gravity Thickener Tanks	1,700 psf	--	4.8 kips/foot	1.9 ksf
12	Thickened Solids PP Vault	1,000 psf	--	4.5 kips/foot	1.5 ksf
13	Solids Transfer PP Building	1,000 psf	--	1.9 kips/foot	1.5 ksf
14	Electrical Facilities	1,000 psf	38 kips	1.2 kips/foot	1.1 ksf
15	Maintenance Building	100 psf	16 kips	2.1 kips/foot	0.4 ksf
16	Ozone Quenching Vault	1,000 psf	--	3.3 kips/foot	1.5 ksf
17	Chemical Storage Canopy	1,000 psf	18 kips	--	--
18	Hydrogen Peroxide Station Canopy	1,000 psf	15 kips	--	1.1 ksf

Source: Ninyo & Moore estimates

4 FIELD EXPLORATION AND TESTING

EBMUD prepared a geotechnical investigation report in 2001 (EBMUD, 2001) that presented the results of geophysical surveys performed in 1997 and 1998, and the logs and laboratory test results for borings performed by EBMUD in 1997 as well as the logs and laboratory test results for borings performed by Olivia Chen Consultants in 2001. As part of this GIR, Ninyo & Moore performed a geophysical survey, subsurface exploration, and laboratory testing to supplement the findings from the previous investigations. The subsurface exploration, geophysical surveys, and geotechnical testing performed for the GIR and previous studies are documented in the Appendices to this report and summarized in the following subsections.

4.1 Borings

EBMUD logged 22 borings drilled in 1997 using mud rotary wash techniques with a Failing 750 rig. Olivia Chen Consultants logged 13 borings drilled in 2001 using mud rotary wash techniques with a Failing 1500 rig. The top of boring elevation, approximate depth explored, and date of completion for the borings logged by EBMUD and Olivia Chen Consultants are summarized in Table 5.

Table 5 – Summary of Previous Borings				
Boring ID	Logged By	Date Completed	Elevation	Depth Explored
MM-1	EBMUD	10-28-1997	377 feet	76.0 feet
MM-2	EBMUD	11-5-1997	359 feet	33.0 feet
MM-3	EBMUD	11-3-1997	376 feet	65.5 feet
MM-4	EBMUD	11-5-1997	376 feet	34.0 feet
MM-5	EBMUD	11-6-1997	315 feet	14.0 feet
MN-2	EBMUD	11-4-1997	380* feet	6.5 feet
MN-3	EBMUD	10-30-1997	380* feet	23.5 feet
MN-4	EBMUD	10-27-1997	380* feet	32.5 feet
MN-8	EBMUD	11-4-1997	380* feet	13.0 feet
MN-9	EBMUD	10-31-1997	380* feet	24.0 feet
MN-10	EBMUD	10-31-1997	380* feet	18.0 feet
MN-11	EBMUD	11-6-1997	380* feet	9.0 feet
MN-13	EBMUD	10-27-1997	335* feet	22.5 feet
MN-14	EBMUD	10-28-1997	310* feet	20.0 feet
MN-15	EBMUD	10-23-1997	320* feet	47.5 feet
MN-16	EBMUD	10-23-1997	330* feet	42.5 feet
MN-17	EBMUD	10-23-1997	345* feet	42.5 feet
MN-18	EBMUD	10-21-1997	330* feet	82.0 feet
MN-19	EBMUD	10-22-1997	350* feet	40.7 feet
MN-20	EBMUD	11-5-1997	375* feet	7.0 feet
MN-21	EBMUD	10-24-1997	380* feet	35.0 feet
MN-22	EBMUD	10-30-1997	380* feet	32.0 feet
MN-23	Olivia Chen	2-12-2001	375* feet	43.3 feet
MN-23A	Olivia Chen	1-4-2001	380* feet	40.3 feet
MN-24	Olivia Chen	1-4-2001	380* feet	33.0 feet
MN-25	Olivia Chen	1-3-2001	375* feet	48.0 feet
MN-26	Olivia Chen	1-2-2001	335* feet	30.5 feet
MN-27	Olivia Chen	1-9-2001	320* feet	30.4 feet
MN-28A	Olivia Chen	1-3-2001	375* feet	31.5 feet
MN-29A	Olivia Chen	1-9-2001	365* feet	30.3 feet
MN-30	Olivia Chen	1-2-2001	340* feet	31.5 feet
MN-31	Olivia Chen	1-8-2001	320* feet	41.3 feet
MN-32	Olivia Chen	1-5-2001	335* feet	23.0 feet
MN-33	Olivia Chen	1-5-2001	330* feet	23.0 feet
MN-34	Olivia Chen	1-5-2001	315* feet	14.3 feet

Reference: EBMUD, 2001 except for Top of Boring elevation estimated from previous topography (EBMUD, 2001) where marked with asterisk

As part of this GIR, Ninyo & Moore retained Geo-Ex Subsurface Exploration of Dixon, California to drill eleven borings to supplement the information from the previous investigations. A sonic dual tube system on a Geoprobe 8140LS rig was used to recover continuous core in 5-foot intervals for two of the borings. A CME 75 rig was used to drill the remaining borings with solid stem auger, mud rotary wash techniques, or HQ wireline coring. The top of boring elevation, approximate depth explored, method of drilling, and date of completion for the borings logged by Ninyo & Moore are summarized in Table 6. Prior to drilling the borings, Ninyo & Moore obtained a boring permit from the Contra Costa County Environmental Health Division. A representative of Ninyo & Moore logged the subsurface conditions exposed in the borings and collected bulk and relatively undisturbed soil samples from the borings for laboratory testing. The borings were backfilled in accordance with the boring permit requirements shortly after drilling. The approximate locations of the borings for the current study and previous investigations are noted on Figure 2. Detailed logs of the borings drilled for this GIR are presented in Appendix A along with descriptions of the methods used for sample collection. Photographs of the recovered core samples are provided in Appendix A. Boring logs from the previous investigations are included in Appendix B.

Boring ID	Method	Date Completed	Elevation	Depth Explored
SB-1	6-inch dual tube sonic	9-10-2021	363 feet	28.0 feet
SB-2	6-inch dual tube sonic	9-10-2021	355 feet	45.0 feet
NMB-1	Mud rotary & HQ wireline coring	9-27-2021	387 feet	26.5 feet
NMB-2	4-inch solid stem auger	9-27-2021	383 feet	9.4 feet
NMB-3	4-inch solid stem auger	9-27-2021	377 feet	28.7 feet
NMB-4	4-inch solid stem auger	9-28-2021	363 feet	40.0 feet
NMB-5	4-inch solid stem & mud rotary	9-28-2021	319 feet	38.8 feet
NMB-6	4-inch solid stem auger	10-8-2021	352 feet	25.0 feet
NMB-7	4-inch solid stem auger	10-8-2021	331 feet	35.0 feet
NMB-8	4-inch solid stem auger	10-8-2021	303 feet	10.8 feet
NMB-9	4-inch solid stem auger	10-8-2021	382 feet	25.9 feet

4.2 Geotechnical Testing

Geotechnical laboratory testing performed for this GIR included tests to evaluate in-situ soil moisture content and density, organic matter percentage, percentage passing the No. 200 sieve, particle size distribution, Atterberg limits, direct shear strength, consolidation characteristics, expansion index, unconfined compressive strength of soil and rock cores, unconsolidated undrained (UU) triaxial shear strength, consolidated undrained (CU) triaxial shear strength, and corrosivity of site soil. The results of the in-situ moisture content and dry density tests are

presented on the boring logs in Appendix A. The results of the other laboratory tests are presented in Appendix C along with descriptions of the test methods used.

Geotechnical laboratory testing performed as part of previous investigations included tests to evaluate in-situ soil moisture content and density, specific gravity, Atterberg limits, fines content, UU triaxial shear strength, and CU triaxial shear strength. The test results are presented on the boring logs in Appendix B and tabulated in Appendix D. Geomatrix (2001) also presented the results of particle size distribution and Atterberg limits tests on samples collected from Borings MM-1, MM-2, and MM-3 (Appendix D).

4.3 Geophysical Surveys

Ninyo & Moore performed a geophysical survey at the WCWTP using seismic refraction and refraction microtremor (ReMi) techniques. The survey was performed along five lines. The survey line locations are noted on Figure 2. The survey results are presented in Appendix E along with a description of the methods used.

Portola Geophysics performed downhole seismic surveys in 1997 at Boring MM-1 to a depth of approximately 54 feet and at Boring MM-3 to a depth of approximately 64 feet. The results of the downhole seismic surveys and a description of the methods used are provided in Appendix B. In 1998, Portola Geophysics performed a seismic refraction survey along three lines at the proposed location for a chemical building near the southeastern edge of the WCWTP, and along seven lines for two proposed 9-MG tanks at the current location of the 4-MG chlorine contact chamber. The results of the seismic refraction surveys and a description of the methods used are presented in Appendix F.

4.4 Piezometers

Several of the borings drilled by Olivia Chen Consultants were developed into piezometers. Details of piezometer construction are summarized in Table 7. Geomatrix (2001) reports groundwater measurements in four piezometers (WC-39 to WC-42) installed in the embankment of the open cut clearwell that was demolished to make room for the circular concrete 16-MG clearwell constructed in 2004 and 2005. Records concerning the specific location and other details regarding these four piezometers are not in the documents provided for review because the piezometers were excavated and removed as part of the open cut clearwell demolition.

Table 7 – Summary of Piezometer Construction

Boring ID	Top of Casing Elevation	Seal Interval Depth	Screen Interval Depth
MN-23	375 feet	0-13 feet	22-42 feet
MN-23A	380 feet	0-11 feet	30-40 feet
MN-24	380 feet	0-11 feet	22.5-32.5 feet
MN-25	375 feet	0-11 feet	27.5-47.5 feet
MN-26	335 feet	0-11 feet	20-30 feet
MN-27	320 feet	0-11 feet	20-30 feet
MN-28A	375 feet	0-11 feet	20-30 feet
MN-29A	365 feet	0-11 feet	20-30 feet
MN-30	340 feet	0-11 feet	20-30 feet
MN-31	320 feet	0-11 feet	21-41 feet
MN-32	335 feet	0-11 feet	12.5-22.5 feet
MN-33	330 feet	0-11 feet	12.5-22.5 feet

Reference: EBMUD, 2001 except for Top of Casing elevation estimated from previous topography (EBMUD, 2001)

5 GEOLOGIC AND SUBSURFACE CONDITIONS

5.1 Regional Geologic Setting

The WCWTP site is located near the northwestern end of the Diablo Range, which is part of the Coast Ranges geomorphic province of California. The Coast Ranges are comprised of several mountain ranges and structural valleys formed by tectonic processes commonly found around the Circum-Pacific belt. Basement rocks have been sheared, faulted, metamorphosed, and uplifted, and are separated by thick blankets of Cretaceous and Cenozoic sediments that fill structural valleys and line continental margins. The San Francisco Bay Area has several ranges that trend northwest, parallel to major strike-slip faults such as the San Andreas, Hayward, and Calaveras (Figure 3). Major tectonic activity associated with these and other faults within this regional tectonic framework consists primarily of right-lateral, strike-slip movement. Figure 3 presents the location of the site relative to the epicenters of historic earthquakes with magnitudes of 5.5 or more from 1800 to 2000.

The WCWTP site is situated on the eastern flank of the Diablo Range overlooking Ygnacio Valley and Pleasant Hill to the east. There are several regional geologic maps that cover this area including those by Dibblee and Minch (2005); Graymer et al. (1994); Helley and Graymer (1997); Knudsen et al. (2000); Nilsen (1975); and Witter et al. (2006). The geologic information provided on the referenced geologic maps varies slightly, but, in general, indicates that the WCWTP site is underlain by Miocene age marine sedimentary rocks consisting of sandstone, siltstone, and shale. Quaternary age alluvial sediments, colluvial soils, and shallow landslide deposits are also present

in the drainage channels and slopes. A regional geologic map from Dibblee and Minch (2005) is provided as Figure 4.

Geologic formations depicted on the regional maps include the Miocene age Monterey Formation and Eocene age Domingene Formation of Dibblee and Minch (2005), which is mapped as Miocene age Neroly Formation, Briones Formation, Hambre Sandstone, and Eocene age Las Juntas Formation by Graymer et al. (1994). Both regional maps indicate that the WCWTP site is on the eastern limb of a northwesterly trending syncline, with bedding orientations striking to the northwest and dipping southwest toward the axis of the syncline. A branch of the Franklin fault, also referred to as the Southhampton fault, transects the northeast boundary of the site. The Eocene formations are exposed east of the Franklin fault beneath the adjoining residential neighborhood.

5.2 Site Geology

Previous geotechnical and seismic evaluations of the site include, but are not limited to, those by EBMUD (2001) and Geomatrix (1995, 2001a, and 2001b). Those evaluations indicate that the WCWTP site is underlain by sedimentary bedrock consisting of sandstone and siltstone with interbeds of shale and claystone described as Miocene age Neroly, Briones, and Hambre formations and the Eocene age Meganos Formation. Hardness and weathering of the rock units varies with depth and location. Surficial deposits present at the WCWTP site include alluvial and colluvial soils, and artificial fills placed during previous construction projects. A geologic map for the WCWTP site is provided as Figure 5. Figure 5 is based on mapping by Geomatrix (1998) with modifications to show additional fill depicted in historic aerial imagery (Google, 2021) that was placed near the proposed locations for Facilities 4, 5, 9, 14, and 15 during construction of the 4-MG chlorine contact chamber in 2002 and 2003. Historic aerial imagery also indicates that a temporary 80-foot-diameter above ground storage tank was constructed at the proposed location for the gravity thickeners, an area that was previously undeveloped, in 2002 and fill was stockpiled around and north of this tank beginning in 2003 during construction of the 16-MG clearwell. The temporary tank was demolished and the stockpiled fill was largely removed by 2007. The approximate extents of the area that was disturbed by construction activities between 2002 and 2007 around the proposed location for the gravity thickeners are noted on Figure 5. The formation names from the Geomatrix (1998) geologic map were used for this GIR. The correlation of formation names used in this report with the formation names from previous mapping is listed in Table 8.

Table 8 – Geologic Unit Correlations

Unit Description	This GIR	Geomatrix (1998)	Dibblee & Minch (2005)	Graymer et al. (1994)
Artificial Fill	Fill	Fill	--	--
Alluvium (Holocene)	Qal	Qal	Qa	Qu
Terrace Deposits (Quaternary)	Qt	Qt	Qoa	Qu
Sandstone (Miocene)	Tmnu (Upper Neroly)	Tmnu (Upper Neroly)	Tms (Monterey)	Tn (Neroly)
Sandstone & Shale (Miocene)	Tmnl (Lower Neroly)	Tmnl (Lower Neroly)	Tmc (Monterey)	Tn (Neroly)
Shale (Miocene)	Tmbu (Upper Briones)	Tmbu (Upper Briones)	Tmc (Monterey)	Tbr (Briones)
Sandstone (Miocene)	Tmbl (Lower Briones)	Tmbl (Lower Briones)	Tmc (Monterey)	Tbr (Briones)
Fine-Grained Sandstone (Miocene)	Tmh (Hambre)	Tmh (Hambre)	Tms (Monterey)	Th (Hambre)
Claystone (Eocene)	Tem (Meganos)	Tem (Meganos)	Tds (Domengene)	Tli (Las Juntas)

5.3 Landslides

Regional landslide mapping by Nilsen (1975) shows several landslides on the slopes along the easterly, western, and northern portions of the site (Figure 6). The approximate limits of some of the landslides are shown on Figure 5. Ninyo & Moore observed some of the Nilsen landslides on historical aerial photographs. The photographs reviewed by Ninyo & Moore are listed in Section 9. The landslides mapped by Nilsen appear to be shallow debris flows, mudflows, and soil slumps. A small slump located on an east facing slope in the northern portion of the Project site was identified during the aerial photograph review. No new facilities are located within approximately 300-ft of the small slump shown on Figure 5.

Geomatrix (1998) also identified a landslide along the western side of the site on the natural slope that ascends from the perimeter access road (Figure 5). The slide appears to be a relatively shallow soil slump.

With the exception of the southern Intermediate Ozone Contactor Tank (Facility 3), the mapped landslides do not overlap with the proposed facilities. The southern Intermediate Ozone Contactor partially overlaps with the top of a mapped landslide extending down the adjacent slope to the southeast, but with the estimated pad grade for the concrete structure at 20 to 27 feet below the existing grade, it is anticipated that the structure will be on formational material, below the colluvium prone to sliding.

5.4 Faulting

The WCWTP site is transected by fault traces associated with the Franklin fault (Figures 3 and 4) that have been evaluated by Geomatrix (1995 and 2001a) and reviewed by William Lettis & Associates (WLA, 1999). The Franklin fault traces identified as the West, Central, and East faults (WLA, 1999) are considered to be active per dam safety standards established by the California Division of Safety Dams (DSOD), which classifies an active fault as one that has been active in the last 35,000 years. The approximate locations of the West, Central, and East faults are shown on Figure 5. The development of structures designed for human occupancy near active faults in California is regulated by the Alquist-Priolo Earthquake Fault Zoning Act (A-P Act). The A-P Act tasks the California Geological Survey (CGS) with establishing Earthquake Fault Zones to delineate regions of potential ground surface rupture adjacent to faults determined by CGS to be sufficiently active and well-defined as to constitute a potential hazard to structures from surface fault rupture or fault creep. The WCWTP site is not located within an Earthquake Fault Zone (CDMG, 1993). For purposes of the A-P Act, active faults are defined by CGS as faults that have caused surface displacement within Holocene time, or within approximately the last 11,700 years (CGS, 2018). The Franklin fault traces identified as the West, Central, and East faults (WLA, 1999) are not considered to be active per standards established by the A-P Act and the CGS.. The closest, mapped Earthquake Fault Zone is the one associated with the Concord fault, which is located 4 miles from the site to the northeast (CDMG, 1993).

5.5 Naturally Occurring Asbestos

Naturally occurring asbestos is more likely to be encountered in, and immediately adjacent to, outcrops of serpentinite and ultramafic rocks. Serpentinite and ultramafic rocks are not present at the WCWTP site. Regional mapping by Churchill and Hill (2000) indicate that no ultramafic rocks have been mapped in the general vicinity of the WCWTP site. Therefore, it is unlikely that significant concentrations of naturally occurring asbestos are present at the WCWTP site.

5.6 Subsurface Conditions

Subsurface investigations at the site encountered fill, native soil, and bedrock below existing pavement, where present. The fill, as encountered, generally consisted of stiff to hard, lean to fat clay, stiff to hard sandy silt, and medium dense to very dense silty sand. The native soil, described as colluvium and residual soil, generally consisted of stiff to hard, lean to fat clay, stiff sandy silt, and very dense clayey sand. The bedrock encountered in the borings generally consisted of friable to moderately strong, weathered, and weakly to strongly cemented sandstone, siltstone, shale, and claystone of the Hambre and Briones Formations.

The subsurface conditions encountered in borings from previous investigations are summarized in Table 9. The subsurface conditions encountered in the borings drilled for the GIR are summarized in Table 10. Detailed descriptions are presented on the logs in Appendix A and Appendix B. Anticipated subsurface conditions at the locations for the proposed facilities are described in the following subsections.

Table 9 – Summary of Subsurface Conditions in Previous Borings				
Boring ID	Pavement Section	Depth Interval Below Ground Surface		
		Fill	Native Soil	Bedrock
MM-1	--	0.0-69.0 feet	--	69.0-76.0 feet
MM-2	--	0.0-24.0 feet	--	24.0-33.0 feet
MM-3	--	0.0-51.5 feet	--	51.5-65.5 feet
MM-4	--	0.0-31.0 feet	--	31.0-34.0 feet
MM-5	--	0.0-9.5 feet	--	9.5-14.0 feet
MN-2	--	--	0.0-1.8 feet	1.8-6.5 feet
MN-3	--	--	0.0-3.3 feet	3.3-23.5 feet
MN-4	3"AC/3"AB	--	0.5-3.0 feet	3.0-32.5 feet
MN-8	3"AC/3"AB	--	--	0.5-13.0 feet
MN-9	4"AC/6"AB	0.8-5.0 feet	5.0-13.5 feet	13.5-24.0 feet
MN-10	3"AC/3"AB	0.5-5.0 feet	--	5.0-18.0 feet
MN-11	3"AC/3"AB	--	0.5-6.0 feet	6.0-9.0 feet
MN-13	--	--	--	0.0-22.5 feet
MN-14	--	0.0-2.0 feet	2.0-4.0 feet	4.0-20.0 feet
MN-15	4"AC/4"AB	0.7-8.0 feet	8.0-22.5 feet	22.5-47.6 feet
MN-16	--	--	0.0-2.5 feet	2.5-42.5 feet
MN-17	--	--	0.0-4.0 feet	4.0-42.5 feet
MN-18	--	0.0-20.0 feet	--	20.0-82.0 feet
MN-19	--	0.0-5.0 feet	--	5.0-40.7 feet
MN-20	--	0.0-2.5 feet	--	2.5-7.0 feet
MN-21	12"AB	--	1.0-3.5 feet	3.5-35.0 feet
MN-22	--	0.0-20.0 feet	--	20.0-32.0 feet
MN-23	--	0.0-5.0 feet	5.0-35.0 feet	35.0-43.3 feet
MN-23A	--	0.0-20.0 feet	--	20.0-40.3 feet
MN-24	4"AC	--	0.3-10.0 feet	10.0-33.0 feet
MN-25	--	0.0-10.0 feet	--	10.0-48.0 feet
MN-26	4"AC/6"PCC	--	--	0.8-30.5 feet
MN-27	--	0.0-10.0 feet	10.0-20.0 feet	20.0-30.4 feet
MN-28A	--	0.0-13.5 feet	--	13.5-31.5 feet
MN-29A	2"AC	--	--	0.2-30.3 feet
MN-30	--	0.0-10.0 feet	--	10.0-31.5 feet
MN-31	--	--	0.0-5.0 feet	5.0-41.3 feet
MN-32	--	--	0.0-10.0 feet	10.0-23.0 feet
MN-33	--	--	--	0.0-20.0 feet
MN-34	--	--	--	0.0-14.3 feet

Reference: EBMUD, 2001

Table 10 – Summary of Subsurface Conditions in Borings by Ninyo & Moore

Boring ID	Pavement Section	Depth Interval Below Ground Surface		
		Fill	Native Soil	Bedrock
SB-1	--	0.0-12.0 feet	12.0-15.0 feet	15.0-28.0 feet
SB-2	--	0.0-38.0 feet	--	38.0-45.0 feet
NMB-1	--	--	--	0.0-26.5 feet
NMB-2	--	--	--	0.0-9.4 feet
NMB-3	4½"AC/5½"AB	0.8-28.0 feet	--	28.0-28.7 feet
NMB-4	--	0.0-39.0 feet	--	39.0-40.0 feet
NMB-5	--	0.0-6.0 feet	--	6.0-38.8 feet
NMB-6	--	0.0-18.0 feet	--	18.0-25.0 feet
NMB-7	--	0.0-18.0 feet	18.0-23.5 feet	23.5-35.0 feet
NMB-8	--	0.0-4.0 feet	--	4.0-10.8 feet
NMB-9	--	--	0.0-12.0 feet	12.0-26.0 feet

Source: Boring Logs in Appendix A

5.6.1 Ballasted Flocculation Basins (Facility 1)

The subsurface conditions exposed in Borings MN-8 and MN-2 indicate that the proposed locations for the Ballasted Flocculation Basins are underlain by soil consisting of silty clay and by sandstone and siltstone of the Hambre Formation.

5.6.2 Intermediate Ozone PP Vaults (Facility 2)

The subsurface conditions exposed in Boring MN-9 indicate that the proposed location for the northern Intermediate Ozone PP Vault is underlain by fill consisting of sandy clay over soil consisting of sandy silt, over sandstone, siltstone, and claystone of the Hambre Formation. The subsurface conditions exposed in Boring MN-2 indicate that the proposed location for the southern Intermediate Ozone PP Vault is underlain by soil consisting of silty clay, over siltstone of the Hambre Formation.

5.6.3 Intermediate Ozone Contactor Tanks (Facility 3)

The subsurface conditions exposed in Boring NMB-3 indicate that the proposed location for the northern Intermediate Ozone Contactor Tank is underlain by fill consisting of sand and clay over sandstone and siltstone of the Hambre Formation. Historic grading plans (EBMUD, 1964) indicate that the ground surface elevation at the proposed location for the northern Intermediate Ozone Contactor Tank was previously about 8 to 23 feet below the existing ground surface elevation.

The subsurface conditions exposed in Boring NMB-1 indicate that the proposed location for the southern Intermediate Ozone Contactor Tank is underlain by siltstone of the Hambre Formation. Historic grading plans (EBMUD, 1964) indicate that the ground surface elevation at the proposed location for the southern Intermediate Ozone Contactor Tank was previously about 1 to 14 feet above the existing ground surface elevation.

5.6.4 Ozone Generator Building (Facility 4)

The subsurface conditions exposed in Borings NMB-4 and NMB-6 indicate that the proposed location for the Ozone Generator Building is underlain by fill consisting of sand, clay, and gravel over sandstone and siltstone of the Briones Formation.

5.6.5 LOX Tanks & Vaporizers (Facility 5)

The subsurface conditions exposed in Borings NMB-4, SB-2, and MN-26 indicate that the proposed location for the LOX Tanks & Vaporizers is underlain by fill consisting of sand, clay, and gravel over sandstone, siltstone, and claystone of the Briones Formation.

5.6.6 Pre-Ozone PPs (Facility 6)

Geologic mapping of the WCWTP site (Figure 5) and the subsurface conditions exposed in Boring MN-30 indicate that the proposed locations for the two Pre-Ozone PPs are underlain by fill consisting of sandy lean clay over soil consisting of lean clay, over claystone and siltstone of the Briones Formation.

5.6.7 Combined Reclaim Metering Vault (Facility 7)

Geologic mapping of the WCWTP site (Figure 5) indicates that the proposed location for the Combined Reclaim Metering Vault is underlain by fill over shale of the Briones Formation.

5.6.8 Ozone Gas Destruct Canopy (Facility 8)

Geologic mapping of the WCWTP site (Figure 5) indicates that the proposed location for the western Ozone Gas Destruct Canopy is underlain by soil over shale of the Briones Formation. The other four Ozone Gas Destruct Canopies will be constructed over the Intermediate Ozone Contactors (Facility 3) or the Ozone Quenching Vaults (Facility 16).

5.6.9 Dewatering Building (Facility 9)

The subsurface conditions exposed in Boring NMB-5 indicate that the proposed location for the Dewatering Building is underlain by fill consisting of clay and clayey sand, over siltstone and sandstone of the Hambre Formation.

5.6.10 Truck Loading Canopy (Facility 9A)

The subsurface conditions exposed in Boring NMB-5 indicate that the proposed location for the Truck Loading Canopy abutting the south side of the Dewatering Building is underlain by fill consisting of clay and clayey sand, over siltstone and sandstone of the Hambre Formation.

5.6.11 Thickened Solids Blending Tanks (Facility 10)

The subsurface conditions exposed in Boring NMB-5 indicate that the proposed locations for the two Thickened Solids Blending Tanks abutting the west side of the Dewatering Building are underlain by fill consisting of clay and clayey sand, over siltstone and sandstone of the Hambre Formation.

5.6.12 Gravity Thickeners (Facility 11)

The subsurface conditions exposed in Borings NMB-5 and NMB-8 indicate that the proposed locations for the four Gravity Thickeners are underlain by fill consisting of sandy clay and clayey sand, over siltstone and sandstone of the Hambre Formation.

5.6.13 Thickened Solids PP Vaults (Facility 12)

The subsurface conditions exposed in Borings NMB-5 and NMB-8 indicate that the proposed locations for the two Thickened Solids PP Vaults are underlain by fill consisting of sandy clay and clayey sand, over siltstone and sandstone of the Hambre Formation.

5.6.14 Solids Transfer PP (Facility 13)

The subsurface conditions exposed in Boring MN-33 indicate that the proposed locations for the Solids Transfer PP is underlain by siltstone of the Hambre Formation.

5.6.15 Electrical Facilities (Facility 14)

The subsurface conditions exposed in Boring MN-15, drilled before fill was placed to raise the grade in the area during construction of the 4-MG chlorine contact chamber and 16-MG clearwell, indicate that the proposed location for the Electrical Facilities is underlain by fill consisting of sandy clay and clayey sand, over soil consisting of silty clay, over claystone, siltstone, and shale of the Briones Formation.

5.6.16 Maintenance Building (Facility 15)

The subsurface conditions exposed in Borings MN-16, NMB-7, and SB-1 indicate that the proposed location for the Maintenance Building is underlain by fill consisting of sandy clay and clayey sand, over soil consisting of fat clay, over siltstone of the Briones Formation.

5.6.17 Ozone Quenching Vaults (Facility 16)

Geologic mapping of the WCWTP site (Figure 5) indicates that the proposed location for the northern Ozone Quenching Vault is underlain by fill over sandstone of the Hambre Formation and the southern location of the Ozone Quenching Vault is underlain by sandstone of the Hambre Formation. Historic grading plans (EBMUD, 1964) indicate that the ground surface elevation at the proposed location for the northern Ozone Quenching Vault was previously about 21 to 25 feet below the existing ground surface elevation and the ground surface elevation at the proposed location for the southern Ozone Quenching Vault was previously about 9 to 14 feet above the existing ground surface elevation.

5.6.18 Chemical Storage Canopy (Facility 17)

The subsurface conditions exposed in Borings MN-21 and MN-28A indicate that the proposed location for the Chemical Storage Canopy is underlain by fill consisting of sandy clay, over siltstone and claystone of the Hambre Formation. Historic grading plans (EBMUD, 1964) indicate that the ground surface elevation at the proposed location for the Chemical Storage Canopy was previously about 15 to 25 feet below the existing ground surface elevation.

5.6.19 Hydrogen Peroxide Station Canopies (Facility 18)

Geologic mapping of the WCWTP site (Figure 5) indicates that the proposed location for the western Hydrogen Peroxide Station Canopy is underlain by soil over shale of the Briones Formation. The subsurface conditions exposed in Boring NMB-2 indicate that the proposed location for the eastern Hydrogen Peroxide Station Canopy is underlain by siltstone of the Hambre Formation.

5.7 Groundwater

Groundwater levels were measured in seven of the piezometers developed by Olivia Chen Consultants (EBMUD, 2001). Where measured, the depth to groundwater ranged between approximately 4 and 39 feet. A summary of the groundwater levels measured in the piezometers over four days in 2001 is provided in Table 11. The borings included in Appendix A were drilled using mud rotary wash techniques which generally obscures and precludes evaluation of groundwater levels during drilling. Groundwater was not encountered in the solid stem auger borings performed for the current study. Monitoring records (Geomatrix, 2001) for the four piezometers (WC-39 to WC-42) installed in the embankment of the previous open cut clearwell are included in Appendix G. The records indicate that over a 10-year period ending in February of 2001, the groundwater levels in the piezometers generally ranged between approximately 35 and 70 feet below the water level in the reservoir which was generally at an elevation of about 370 feet.

Table 11 – Piezometer Measurements				
Boring ID	Depth to Groundwater Below Ground Surface [Groundwater Elevation] in feet			
	1-22-2001	3-9-2001	4-5-2001	5-17-2001
MN-23	Not Available	31.0 [344.0]	39.0 [336.0]	dry
MN-23A	dry	dry	dry	dry
MN-24	dry	dry	dry	dry
MN-25	23.0 [352.0]	23.4 [351.6]	23.4 [351.6]	23.9 [351.1]
MN-26	6.0 [329.0]	21.0 [314.0]	4.4 [330.6]	5.7 [329.3]
MN-27	21.0 [299.0]	12.6 [307.4]	9.3 [310.7]	13.1 [306.9]
MN-28A	dry	25.5 [349.5]	24.8 [350.2]	25.4 [349.6]
MN-29A	11.5 [353.5]	3.9 [361.1]	5.3 [359.7]	7.6 [357.4]
MN-30	dry	dry	dry	dry
MN-31	dry	dry	dry	dry
MN-32	dry	dry	dry	dry
MN-33	dry	13.0 [317.0]	dry	dry

Reference: EBMUD, 2001 except for groundwater elevation estimated from previous topography (EBMUD, 2001)

Groundwater may rise to a higher elevation than was encountered in the exploratory borings due to the short time available for seepage of water into the borings. Furthermore, groundwater levels may fluctuate in response to seasonal variations in precipitation, nearby groundwater pumping or dewatering, changes in irrigation practices adjacent to or within the Project area, or other factors. In addition, seeps may be encountered at elevations above the observed groundwater levels due to perched groundwater conditions, leaking pipelines, preferential drainage, or other factors not evident at the time of exploration.

5.8 Liquefaction and Strain Softening

The strong vibratory motions generated by earthquakes can trigger a rapid loss of shear strength in saturated, loose, granular soils of low plasticity (liquefaction) or in wet, sensitive, cohesive soils (strain softening). Liquefaction and strain softening can result in a loss of foundation bearing capacity or lateral spreading of sloping or unconfined ground. Liquefaction can also generate sand boils leading to subsidence at the ground surface. Liquefaction (or strain softening) is generally not a concern at depths more than 50 feet below ground surface. The WCWTP site is in an area that has not yet been evaluated for liquefaction seismic hazard zones by the California Geological Survey. Regional studies of liquefaction susceptibility by Knudsen et al. (2000) and Witter et al. (2006) indicate that the WCWTP site is in an area where the liquefaction susceptibility is considered to be very low.

The subsurface exploration for the GIR and previous investigations encountered fill and native soil that generally consisted of medium to very dense silty and clayey sand, and stiff to hard clay. Saturated loose granular soil was not encountered, and the cohesive soil encountered was not wet or particularly sensitive. Based on these findings, liquefaction, seismic strain softening and related hazards such as dynamic settlement, lateral spreading, sand-boil-induced ground subsidence, or a reduction in foundation bearing capacity due to liquefaction, are not design considerations at the WCWTP site.

5.9 Corrosive/Deleterious Soil

An evaluation of the corrosivity of the on-site material was conducted to assess the impact to concrete and metals. The corrosion impact was evaluated using the results of limited laboratory testing on samples obtained during our subsurface study. Laboratory testing to quantify pH, redox potential, electrical resistivity at in-situ and saturated conditions, sulfide content, chloride content, and soluble sulfate content was performed on selected samples collected during the subsurface exploration for this study. The results of the corrosivity tests are presented in Appendix C.

The California Department of Transportation (Caltrans) has developed guidelines (Caltrans, 2018) to assess the need for special measures to mitigate corrosion in corrosive environments for structural elements exposed to soil. The American Concrete Institute (ACI) has developed criteria to classify the degree of sulfate exposure for concrete in contact with soil so that concrete can be specified in accordance with the California Building Code to mitigate concrete deterioration by sulfate attack.

Caltrans defines a corrosive environment for structures as an area where the soil has a chloride concentration of 500 parts per million (ppm) or greater, soluble sulfate concentration of 0.15 percent (1,500 ppm) or greater, or a pH of 5.5 or less (Caltrans, 2018). The ACI criteria used to evaluate the deleterious nature of sulfate in soil on concrete are listed in Table 12. Based on these criteria and the results of the testing, site soil does not meet the definition of a corrosive environment for structures, and the sulfate exposure to concrete is negligible to moderate with an exposure classification for sulfate of S0 and S1. The samples tested indicate that the site soil is corrosive to ferrous metals based on the resistivity test results for saturated conditions and slightly corrosive based on the redox potential as noted in Appendix C.

Table 12 – Criteria for Soil Deleterious to Concrete

Sulfate Content Percent by Weight	Sulfate Exposure	Exposure Class
0.0 to 0.1	Negligible	S0
0.1 to 0.2	Moderate	S1
0.2 to 2.0	Severe	S2
> 2.0	Very Severe	S3

Reference: American Concrete Institute (ACI) Committee 318 Table 19.3.1.1 (ACI, 2016)

5.10 Expansive Soils

Some clay minerals undergo volume changes upon wetting or drying. Unsaturated soils containing those minerals will shrink/swell with the removal/addition of water. The heaving pressures and differential movement associated with expansion and changes in soil moisture can damage structures and flatwork. Laboratory testing was performed on selected samples of the near-surface soil to evaluate the expansion index. The tests were performed in general accordance with the American Society of Testing and Materials (ASTM) Standard D 4829 (Expansion Index) on a sample of the near-surface Hambre formation at Boring NMB-2 and a sample of near-surface fill at Boring NMB-6. The results of the laboratory testing indicate that the Expansion Index of the near-surface soil at those locations ranges from 24 to 39, which is consistent with a low expansion characteristic. The results of the Expansion Index tests are presented in Appendix C.

Additional testing was performed as part of the GIR and previous investigations to evaluate Atterberg Limits and Plasticity Index in accordance with ASTM D 4318. Three of 54 tests performed on fill samples, 4 of 11 tests performed on soil samples, 6 of 8 tests performed on samples of Briones Formation, and 1 of 9 tests performed on samples of Hambre Formation indicated that the Plasticity Index was 35 or more which is consistent with a very high expansion characteristic. In addition, 69 percent of tests on fill, 91 percent of tests on soil, 100 percent of

tests on Briones Formation, and 44 percent of tests on Hambre Formation indicated that the Plasticity Index exceeded 15 which is indicative of a moderate to very high expansion characteristic. These results indicate that layers of moderately to very highly expansive soil are present at the WCWTP site which is a consideration for pad grading using on-site materials at structures located within a few feet of finish grade where seasonal variations in soil moisture are anticipated.

The Expansion Index testing performed as part of this study indicate that the existing subgrade conditions at the Ozone Generator Building (Facility 4) and the eastern Hydrogen Peroxide Station (Facility 18) consist of material with a low expansion characteristic. The Ozone Generator Building may require additional fill to achieve finish pad grade.

The findings from Borings NMB-4 and SB-2 indicate that the existing subgrade conditions at the LOX Tanks & Vaporizers (Facility 5) consists of clayey sand which is indicative of a low to moderate expansion characteristic, but it is expected that additional fill will be needed to achieve finish pad grade.

The findings from Borings MN-30, MN-16, and MN-21 indicate that the existing subgrade conditions at the Pre-Ozone PPs (Facility 6 both locations), Maintenance Building (Facility 15), and Chemical Storage Canopy (Facility 17) consist of clay which may be indicative of a high expansion characteristic. With the exception of the western Pre-Ozone PP, these locations are also expected to receive some additional fill to achieve finish pad grades.

The findings from Boring NMB-5 indicate that the subgrade conditions at the Dewatering Building (Facility 9), Truck Canopy (Facility 9A), and Thickened Solids Blending Tanks (Facility 10) may include clay soil and siltstone of the Hambre Formation with may have a moderate to very high expansion characteristic.

The subgrade conditions are not known, or the corresponding expansion characteristic is not discernable at the Solids Transfer PP (Facility 13), the Electrical Facilities (Facility 14), and the western Hydrogen Peroxide Station Canopy and Ozone Gas Destruct Canopy (Facilities 18 and 8, respectively). The Solids Transfer PP and the Electrical Facilities may require additional fill to achieve finish pad grades.

Due to the depth of foundation embedment, shrink and swell of expansive soil subgrade is not a concern for the other proposed facilities.

5.11 Seismic Ground Motion and Site Classification

Based on historical seismic activity, the potential for future seismic ground motion at the site is considered significant. Seismic design criteria to address ground shaking are provided in Section 7.1. The peak ground acceleration (PGA) associated with the Maximum Considered Earthquake Geometric Mean (MCE_G) was calculated in accordance with the American Society of Civil Engineers (ASCE) 7-16 Standard and the 2019 California Building Code (CBC). The MCE_G peak ground acceleration with adjustment for site class effects (PGA_M) was calculated as 0.783g using the seismic design tool developed by the Structural Engineers Association of California in conjunction with the Office of Statewide Health Planning and Development (SEAOC/OSHPD, 2021). The PGA_M is based on a mapped MCE_G peak ground acceleration of 0.712g for the site and a site coefficient (F_{PGA}) of 1.1 for Site Class D. Site Class D was selected based on the results of the geophysical survey performed at the site using the Refraction Microtremor method (Appendix E) with an average shear wave velocity computed from the survey of 1,136 feet per second (fps) over a depth of 100 feet (V_{s100}).

5.12 Fill Suitability

Historic grading plans (EBMUD, 1964), geologic mapping of the WCWTP site (Figure 5), and subsurface exploration conducted for the GIR and previous investigations (EBMUD, 2001) indicates that several of the proposed facilities will be located over areas that are presently underlain by fill. The proposed facilities located over areas underlain by old fill include the Pre-Ozone PPs (Facility 6, both locations), the Maintenance Building (Facility 15), the Electrical Facilities (Facility 14), the Ozone Generator Building (Facility 4), the LOX Tanks & Vaporizers (Facility 5), the northern location of the Intermediate Ozone Contactor (Facility 3), the northern location of the Ozone Quenching Vault (Facility 16), and the Chemical Storage Canopy (Facility 17). Previous investigations (EBMUD, 2001) concluded that the existing fill derived from excavated overburden during WCWTP construction was unsuitable as a foundation material for the clearwell tank, chlorine contact chamber, chemical storage building, south filters, and blower building due to the potential for organic material in the fill.

As part of the GIR, Ninyo & Moore performed subsurface exploration that included sonic borings near the Maintenance Building (Facility 15) and the LOX Tanks (Facility 5), and auger borings near the Maintenance Building (Facility 15), LOX tanks (Facility 5), the Ozone Building (Facility 4), and the northern location of the Intermediate Ozone Contactor (Facility 3) to evaluate the suitability of the old fill and the need for mitigation by removal and replacement. The continuous cores recovered from the sonic borings were reviewed. The cores included scattered rootlets, wood chips, and grasses, but did not include continuous layers of organic material. Bulk soil

samples collected from the cores were tested to evaluate the organic content of the soil. Relatively undisturbed soil samples collected from the auger borings were tested to evaluate consolidation characteristics. The results of the organic content tests indicate that the organic content of the fill is less than 3 percent which indicates that the organic content is not significant and the existing on-site fill may be considered a mineral soil instead of an organic soil (15 percent organic content) or highly organic soil (30 percent organic content). The results of the consolidation tests indicate that the fill is relatively stiff and exhibits little swelling or compression on wetting. Based on these findings, the existing fill near the proposed locations for the Maintenance Building (Facility 15), LOX Tanks (Facility 5), and Ozone Building (Facility 4) may be considered a suitable bearing material for the proposed structures supported on footings or mat foundations. The surface topography and subsurface conditions encountered in Boring NMB-3 at the northern location of the Intermediate Ozone Contactor (Facility 3) indicate that the old fill will be essentially removed by excavation to get to finish pad elevation for the facility.

Subsurface exploration performed by Ninyo & Moore for this GIR encountered fill in Borings NMB 5 and NMB-8 indicating that the proposed locations for the Dewatering Building (Facility 9), the Truck Loading Canopy (Facility 9A), the Thickened Solids Blending Tanks (Facility 10), the Gravity Thickener Tanks (Facility 11), and the Thickened Solids PP Vaults (Facility 12), in an area not evaluated by EBMUD in the 2001 investigation, are also underlain by old fill. Historic aerial imagery (Google, 2021) indicates that the proposed locations for these facilities are in an area that was disturbed by construction activities between 2002 and 2007 (Figure 5). Documentation that the existing fill in this area was placed as engineered fill is not available. Due to the potential for inclusion of deleterious materials and variable or deficient support characteristics in the undocumented fill, and uncertainties regarding the thickness of the fill, the existing fill in this area should be considered, based on the available information, an unsuitable bearing material in the present state. It is anticipated, based on the assumed pad elevations and the subsurface conditions encountered in Borings NMB 5 and NMB-8, that the old undocumented fill will be removed by the excavation to achieve the assumed pad elevations for the Gravity Thickener Tanks (Facility 11) and the Thickened Solids PP Vaults (Facility 12) but some undocumented fill will remain below the pad elevations for the Dewatering Building (Facility 9), Truck Loading Canopy (Facility 9A), and Thickened Solids Blending Tanks (Facility 10).

Additional exploration may be performed to re-evaluate the suitability of the existing fill at the proposed locations for the Pre-ozone PPs (Facility 6, both locations), the Dewatering Building (Facility 9), the Truck Loading Canopy (Facility 9A), the Thickened Solids Blending Tanks (Facility 10), the Electrical Facilities (Facility 14), the northern location of the Ozone Quenching Vault (Facility 16), and the Chemical Storage Canopy (Facility 17). If the additional exploration

indicates that the fill is indeed suitable, these facilities may be supported on footings or mat foundations. If additional exploration is not performed or if the fill is found to be unsuitable, these facilities may be supported on deep footings or drilled pier foundations with a structural slab or additional piers to support tanks or other equipment. Alternatively, these facilities may be supported on footings or mat foundations provided that the existing fill is removed and replaced with compacted, engineered fill.

5.13 Slope Stability

Ninyo & Moore performed an analysis to evaluate the impact of the proposed construction on existing slopes. The analysis included an evaluation of the following slopes:

1. Global stability of the wall retaining the cut slope south of Staging Area 1 based on the conditions encountered in Boring NMB-9.
2. Global stability of the wall retaining fill on the slope northeast of northeast Gravity Thickener Tank (Facility 11) based on the conditions encountered in Boring NMB-8.
3. Stability of the slope northeast of the Maintenance Building (Facility 15) under surcharge from the new building and proposed fill based on the conditions encountered in Boring SB-1.

Slope stability and global wall stability were evaluated using GSTABL7 (Gregory, 2003), a two-dimensional slope stability analysis program, to compute the factor of safety, based on the Modified Bishop limit equilibrium method, for circular failure surfaces. The parameters assumed for the analysis are summarized in Table 13. The slopes were evaluated for static conditions. The slope northeast of the Maintenance Building (Facility 15) was also evaluated for stability under seismic conditions using a pseudo-static analysis with a seismic coefficient (k_h) of 0.29. The seismic coefficient was evaluated in accordance with the screening analysis procedure developed by the Southern California Earthquake Center (SCEC, 2002) for a displacement threshold of 2 inches and a maximum horizontal acceleration with a 10 percent probability of exceedance in 50 years, corrected for soft rock site conditions (MHA_r), of 0.645g corresponding to an earthquake magnitude and rupture distance of 6.49 and 7.07 kilometers, respectively. The Unified Hazard Tool (USGS, 2021) was used to evaluate the MHA_r and to perform a deaggregation analysis to evaluate the corresponding earthquake magnitude and rupture distance.

The results of the analysis, presented on Figures 7A through 7D and summarized in Table 13, indicate that the stability of the analyzed slopes, as modified by the proposed construction, is adequate based on a computed factor of safety meeting or exceeding 1.5 for static conditions and meeting or exceeding 1.0 for pseudo-static (seismic) conditions.

Table 13 – Summary of Stability Analysis

Analysis	Factor of Safety
Wall supporting 18-foot high cut in 2.5:1 (horizontal:vertical) slope south of Staging Area 1. Slope consists of colluvium ($\phi' = 26^\circ$, $c' = 200$ psf) 12-feet thick over siltstone of the Briones Formation ($\phi' = 32^\circ$, $c' = 450$ psf)	2.2 static
Wall supporting 17-foot of new fill ($\phi' = 32^\circ$, $c' = 200$ psf) on 3:1 over 2:1 (H:V) slope northeast of gravity thickener tanks. Slope consists of old fill/colluvium ($\phi' = 26^\circ$, $c' = 200$ psf) 12-feet thick over sandstone of the Hambre Formation ($\phi' = 32^\circ$, $c' = 450$ psf)	1.6 static
New fill embankment ($\phi' = 32^\circ$, $c' = 200$ psf) 9 feet high with 7.5:1 (H:V) side slope and 100 psf surcharge for Maintenance Building on old fill embankment ($\phi' = 32^\circ$, $c' = 200$ psf) that is 25 feet high with a 1.8:1 (H:V) side slope northeast of the Maintenance Building Wall. Old fill embankment on 5 feet of colluvium ($\phi' = 26^\circ$, $c' = 200$ psf) over siltstone of the Briones Formation ($\phi' = 32^\circ$, $c' = 450$ psf) inclined down to northeast at 6:1 (H:V).	1.5 static
New fill embankment ($\phi' = 32^\circ$, $c' = 200$ psf) 9 feet high with 7.5:1 (H:V) side slope and 100 psf surcharge for Maintenance Building on old fill embankment ($\phi' = 17^\circ$, $c' = 1700$ psf) that is 25 feet high with a 1.8:1 (H:V) side slope northeast of the Maintenance Building Wall. Old fill embankment on 5 feet of colluvium ($\phi' = 0^\circ$, $c' = 1500$ psf) over siltstone of the Briones Formation ($\phi' = 32^\circ$, $c' = 450$ psf) inclined down to northeast at 6:1 (H:V).	1.2 seismic ($k_h = 0.29$)

6 CONCLUSIONS

The information presented in this GIR demonstrates that the proposed improvements are geotechnically feasible provided that the improvements are designed to accommodate the geotechnical conditions at the improvement locations. Conclusions regarding the geotechnical conditions at the WCWTP site, based on the information presented in this GIR, are as follows:

- Geologic mapping at the WCWTP site (Figure 5) and subsurface exploration from the GIR and previous investigations indicate that the proposed facilities will be underlain by fill, native soil described as colluvium, alluvium, or residual soil, and bedrock of Miocene age. As encountered in the borings, the fill generally consisted of stiff to hard, lean to fat clay, stiff to hard sandy silt, and medium dense to very dense silty sand; the native soil generally consisted of stiff to hard, lean to fat clay, stiff sandy silt, and very dense clayey sand; and the bedrock generally consisted of friable to moderately strong, weathered, and weakly to strongly cemented sandstone, siltstone, shale, and claystone of the Hambre and Briones Formations.
- Previous investigations (EBMUD, 2001) concluded that existing fill at WCWTP site was unsuitable as a foundation material due to the potential for organic material in the fill. As part of the GIR, Ninyo & Moore performed subsurface exploration that included sonic borings near the Maintenance Building (Facility 15) and the LOX Tanks (Facility 5), and auger borings near the Maintenance Building (Facility 15), LOX Tanks (Facility 5), Ozone Building (Facility 4), and the northern location of the Intermediate Ozone Contactor (Facility 3) to evaluate the suitability of the old fill and the need for mitigation (Figure 2). The findings from this subsurface exploration indicate the old fill at the northern location of the Intermediate Ozone Contactor (Facility 3) will be essentially removed by excavation to get to finish pad elevation for the facility and the existing fill near the proposed locations for the Maintenance Building (Facility 15), LOX Tanks (Facility 5), and Ozone Building (Facility 4) may be considered a

suitable bearing material for foundations. The suitability of the existing fill at the proposed locations for the Pre-ozone PPs (Facility 6, both locations), the Electrical Facilities (Facility 14), the northern location of the Ozone Quenching Vault (Facility 16), and the Chemical Storage Canopy (Facility 17) was not specifically evaluated.

- Ninyo & Moore encountered fill in Borings NMB-5 and NMB-8 near the proposed locations for the Dewatering Building (Facility 9), the Truck Loading Canopy (Facility 9A), and the Thickened Solids Blending Tanks (Facility 10) in an area that was not evaluated by EBMUD in the 2001 investigation. Historic aerial imagery (Google, 2021) indicates that the proposed locations for these facilities are in an area that was disturbed by construction activities between 2002 and 2007 (Figure 5). The fill in this area lacks documentation of placement as an engineered fill and is unsuitable as a foundation material under these facilities due to the potential for inclusion of deleterious materials, variable or deficient support characteristics, and uncertainties regarding the thickness of the fill. The proposed locations for the Gravity Thickener Tanks (Facility 11) and Thickened Solids PP Vaults (Facility 12) are also in the area disturbed by construction activities between 2002 and 2007 but it is anticipated that the old undocumented fill at the proposed locations for those facilities will be removed by excavation for the below grade structures based on the assumed finish pad elevations and subsurface conditions encountered in Borings NMB-5 and NMB-8.
- Groundwater was not encountered in the borings for this GIR which extended to depths of approximately 10 to 45 feet below the ground surface. Geomatrix (2001) reported groundwater levels at the WCWTP site that ranged between elevations of 300 and 335 feet or about 35 to 70 feet below the water level in the previous open cut clearwell that was removed in 2004 based on piezometers installed in the embankments of the clearwell. EBMUD (2001) reported groundwater levels that ranged between approximately 4 and 39 feet below the ground surface corresponding to elevations between approximately 299 and 361 feet based on piezometers developed from Borings MN-23, MN-25, MN-26, MN-27, MN-28A, MN-29A, and MN-33 (Figure 2). Variation and fluctuation in groundwater levels should be anticipated as discussed in Section 5.7.
- Based on historic seismicity (Figure 3), the WCWTP site could experience significant ground shaking during an earthquake. All new facilities should be designed per applicable Seismic Design Criteria presented in Section 7.1 of this GIR.
- The WCWTP site is not within an A-P Act Earthquake Fault Zone established by CGS to delineate regions of potential ground surface rupture adjacent to faults determined by CGS to be sufficiently active and well-defined as to constitute a potential hazard to structures designed for human occupancy. The WCWTP site is transected by fault traces associated with the Franklin Fault but the Franklin Fault is not considered Holocene active (Jennings & Bryant, 2010) with displacement in the last 11,700 years and therefore does not meet the standard established by CGS for a fault that is sufficiently active to constitute a hazard to structures designed for human occupancy by surface fault rupture or fault creep.
- The WCWTP site is in an area characterized by very low susceptibility to liquefaction based on regional studies (Knudsen et al., 2000; Witter et al., 2006) and soil susceptible to liquefaction was not encountered during subsurface exploration for the GIR and previous investigations indicating the liquefaction and related hazards (e.g., lateral spreading, sand-boil-induced ground subsidence, dynamic settlement, and reduction in foundation bearing capacity due to liquefaction) are not considerations for the proposed improvements.

- Several shallow landslides interpreted from aerial photographs, included on regional landslide maps (Nilsen, 1975), or identified during previous geologic mapping at the WCWTP site (Geomatrix, 1998) are noted on Figure 5. With the exception of the southern Intermediate Ozone Contactor Tank (Facility 3), the mapped landslides do not overlap with the proposed facilities. The southern Intermediate Ozone Contactor overlaps with a mapped landslide extending down the adjacent slope to the southeast but with the estimated pad grade for the tank at 20 to 27 feet below the existing grade, it is anticipated that the tank will be on formational material, below the colluvium prone to sliding.
- Ninyo & Moore performed an analysis to evaluate the impact of the proposed construction on existing slopes. The analysis included an evaluation of the wall retaining the cut slope south of Staging Area 1, the wall retaining fill on the slope northeast of the Gravity Thickener Tank (Facility 11), and the slope northeast of the Maintenance Building (Facility 15) under surcharge from the new building and proposed fill embankment. The results of the analysis, presented on Figures 7A through 7D, indicate that the stability of the analyzed slopes, as modified by the proposed construction, is adequate under static and seismic conditions.
- Significant concentrations of naturally occurring asbestos (NOA) are unlikely to be encountered at the WCWTP site because rocks that typically contain NOA are not present at the site based on regional mapping and the exploration conducted for this GIR.
- Laboratory testing performed for the GIR and previous investigations indicates that expansion characteristic of the on-site fill, soil, and formational material ranges from very low to very high. These results indicate that layers of moderately to very highly expansive soil are present at the WCWTP site which is a consideration for pad grading using on-site materials at structures located within a few feet of finish grade.
- Laboratory corrosion testing of soil samples collected during the subsurface exploration for this GIR indicates that the site does not meet the definition of a corrosive environment for structures (Caltrans, 2018) and the sulfate exposure to concrete is negligible to moderate with an exposure classification for sulfate of S0 and S1. The test results indicate that the samples tested may be considered corrosive to ferrous metals based on the electrical resistivity for saturated conditions and slightly corrosive based on the redox potential testing as noted in Appendix C. Buried iron, steel, cast iron, ductile iron, galvanized steel, and dielectric coated steel should be appropriately protected against corrosion depending on the importance or expected service life of the element. A corrosion engineer may be consulted to provide recommendations to mitigate corrosion.

7 RECOMMENDATIONS

The following sections present geotechnical recommendations for consideration during project planning. These recommendations should be reviewed by the Geotechnical Engineer-of-Record (GEOR) and modified, as appropriate, to reflect actual structure dimensions, updated loads, or additional information from supplemental investigations.

7.1 Seismic Design Criteria

Table 14 presents the Risk-Targeted, Maximum Considered Earthquake (MCE_R) spectral response accelerations consistent with the 2019 California Building Code and corresponding site-adjusted and design level spectral response accelerations based on the USGS seismic design maps (SEAOC/OSHPD, 2021). As discussed in Section 5.11, a geophysical survey using the Refraction Microtremor method (Appendix E) was performed as part of this GIR to evaluate seismic site classification. The values provided in the table may be used for seismic design provided that the seismic response coefficient is calculated from equation 12.8-2 of ASCE Standard 7-16 for structures with a fundamental period of 0.87 seconds or less in accordance with Exception 2 in Section 11.4.8 of ASCE 7-16 and presuming that the proposed structures do not include seismic-isolation or damping systems.

Table 14 – California Building Code Seismic Design Criteria	
Seismic Design Parameter Evaluated for 37.9136°North latitude, 122.0829°West longitude	Value
Site Class	D
Site Coefficient, F_a	1.0
Site Coefficient, F_v	1.7
Mapped Spectral Acceleration at 0.2-second Period, S_s	1.751g
Mapped Spectral Acceleration at 1.0-second Period, S_1	0.600g
Spectral Acceleration at 0.2-second Period Adjusted for Site Class, S_{MS}	1.751g
Spectral Acceleration at 1.0-second Period Adjusted for Site Class, S_{M1}	1.020g
Design Spectral Response Acceleration at 0.2-second Period, S_{DS}	1.167g
Design Spectral Response Acceleration at 1.0-second Period, S_{D1}	0.680g
Seismic Design Category for Risk Category I, II, III, or IV	D

Reference: 2019 California Building Code and SEAOC/OSHPD, 2021

7.2 Foundations

Recommended foundations for the proposed facilities are provided in the following subsections. The estimated foundation loads assumed for the analysis, based on the facility type descriptions and dimensions in the BODR (EBMUD, 2020), are summarized in Table 4. Foundation recommendations should be re-evaluated if the actual foundation loads differ significantly from the assumed values.

7.2.1 Ballasted Flocculation Basins (Facility 1)

For a finish pad elevation of approximately 24 feet below the existing ground surface, it is anticipated, based on the subsurface conditions exposed in Borings MN-8 and MN-2, that the Ballasted Flocculation Basins will be underlain by formational material and these four structures may be supported on mat foundations.

7.2.2 Intermediate Ozone PP Vaults (Facility 2)

For a finish pad elevation of approximately 14 feet below the existing ground surface, it is anticipated, based on the subsurface conditions exposed in Borings MN-9 and MN-2, that the Intermediate Ozone PP Vaults will be underlain by formational material and these two structures may be supported on mat foundations.

7.2.3 Intermediate Ozone Contactor Tanks (Facility 3)

For a finish pad elevation of approximately 21 to 26 feet below the existing ground surface at the location for the northern Intermediate Ozone Contactor Tank, it is anticipated, based on historic grading plans (EBMUD, 1964) and the subsurface conditions exposed in Boring NMB-3, that the northern tank will be underlain predominantly by formational material with a thin wedge of old fill up to approximately 3 feet thick under the western corner of the tank.

For a finish pad elevation of approximately 20 to 37 feet below the existing ground surface at the location for the southern Intermediate Ozone Contactor Tank, it is anticipated, based on historic grading plans and the subsurface conditions exposed in Boring NMB-1, that the southern tank will be underlain by formational material. Based on the anticipated bearing conditions, these two structures may be supported on mat foundations.

7.2.4 Ozone Generator Building (Facility 4)

For a finish pad elevation that is approximately 1 foot below to 17 feet above the existing ground surface at the location for the Ozone Generator Building, it is anticipated, based on the subsurface conditions exposed in Borings NMB-4 and NMB-6, that the building will be underlain by approximately 0 to 17 feet of new fill over approximately 8 to 20 feet of old fill and 5 feet of soil with a depth to formational material of approximately 15 to 42 feet. As part of the GIR, Ninyo & Moore performed subsurface exploration and laboratory testing to evaluate the suitability of the old fill at the Ozone Generator Building and concluded that the old fill is a suitable bearing material for foundations based on the results of the exploration and testing. Based on the anticipated bearing conditions, the Ozone Generator Building may

be supported on footings. Alternatively, the Ozone Generator Building may be supported on a mat foundation. The mat foundation may be preferred where concrete pads for tanks or other equipment would be needed over large portions of the floor area. The new fill at the northern corner of the pad will be supported by a retaining wall. The retaining wall at the northern corner of the pad may be eliminated if the foundation wall for the Ozone Generator Building is designed to resist the lateral earth pressures from the fill used to build the building pad.

The ground conditions encountered in Borings NMB-4 and NMB-6, indicate that the existing subgrade material at the proposed location for the Ozone Generator Building consists of clayey sand which is indicative of a low expansion characteristic. To mitigate concerns related to expansive soil, new fill placed within 2 feet of finish pad grade should consist of select site fill or import fill with a low expansion characteristic. Chemical treatment of suitable on-site material with quicklime can be performed to create fill with a low expansion characteristic as an alternative to identifying select site fill or using import fill.

7.2.5 LOX Tanks & Vaporizers (Facility 5)

For a finish pad elevation that is approximately 2 foot below to 5 feet above the existing ground surface at the location for the LOX Tanks & Vaporizers, it is anticipated, based on the subsurface conditions exposed in Borings NMB-4, SB-2, and MN-26, that the facility will be underlain by approximately 0 to 5 feet of new fill over approximately 28 to 37 feet of old fill and 6 to 7 feet of soil with a depth to formational material of approximately 34 to 49 feet. As part of the GIR, Ninyo & Moore performed subsurface exploration and laboratory testing to evaluate the suitability of the old fill at the LOX Tanks & Vaporizers and concluded that the old fill is a suitable bearing material for foundations based on the results of the exploration and testing. Based on the anticipated bearing conditions, the facility may be supported on footings. Alternatively, the facility may be supported on a mat foundation. The mat foundation may be preferred where concrete pads for tanks or other equipment would be needed over large portions of the floor area. The new fill at the northern corner of the pad will be supported by a retaining wall. The retaining wall at the northern corner of the pad may be eliminated if the foundation wall for the facility is designed to resist the lateral earth pressures from the fill used to build the building pad.

The ground conditions encountered in Borings NMB-4, SB-2, and MN-26, indicate that the existing subgrade material at the proposed location for the LOX Tanks & Vaporizers consists of clayey sand which is indicative of a low expansion characteristic. To mitigate concerns related to expansive soil, new fill placed within 2 feet of finish pad grade should consist of select site fill or import fill with a low expansion characteristic. Chemical treatment of suitable on-site material with quicklime can be performed to create fill with a low expansion characteristic as an alternative to identifying select site fill or using import fill.

7.2.6 Pre-Ozone PPs (Facility 6)

For finish pad elevations that are approximately 3 feet below to 3 feet above the existing ground surface at the two locations for the Pre-Ozone PPs, it is anticipated, based on geologic mapping of the site (Figure 5) and the subsurface conditions exposed in Boring MN-30, that the PPs will be underlain by new fill (at the east location), old fill (at both locations) and soil over formational material. Approximately 5 feet of sandy clay fill was encountered at Boring MN-30 over 5 feet of lean clay soil on claystone of the Briones Formation. Ninyo & Moore did not evaluate the suitability of the old fill at the Pre-Ozone PPs as part of the GIR because the existing untreated water pipelines, that are adjacent to the proposed locations for the PPs could not be located by ground penetrating radar or electromagnetic scanning so proposed exploration at the PPs was abandoned to avoid potential damage to the untreated water pipelines. Previous investigations (EBMUD, 2001) concluded that the old fill was unsuitable as a foundation material due to the potential for organic material in the old fill. Based on the anticipated bearing conditions, the two Pre-Ozone PPs may be supported on footings or a mat foundation provided that the pad is over-excavated to remove the old fill before new fill is placed and compacted in lifts to achieve finish pad grade. The mat foundation may be preferred where concrete pads for pumps or other equipment would be needed over large portions of the floor area.

To mitigate concerns related to expansive soil, the top 2 feet below finish pad grade should consist of select site fill or import fill with a low expansion characteristic. Chemical treatment of suitable on-site material with quicklime can be performed to create a 2-foot thick layer with low expansion characteristics as an alternative to identifying select site fill or using import fill. The ground conditions encountered in Boring MN-30 indicate that the existing subgrade material consists of clay and sandy clay which is consistent with a moderate to high expansion characteristic so additional removal or in-place chemical treatment may be needed where the old fill is within 2 feet below the finish pad grade.

7.2.7 Combined Reclaim Metering Vault (Facility 7)

For a finish pad elevation of approximately 18 feet below the existing ground surface, it is anticipated, based on geologic mapping of the WCWTP site (Figure 5), that the Combined Reclaim Metering Vault will be underlain by formational material and may be supported on a mat foundation.

7.2.8 Ozone Gas Destruct Canopies (Facility 8)

For a finish pad elevation of approximately 5 to 14 feet below the existing ground surface, it is anticipated, based on geologic mapping of the WCWTP site (Figure 5), that the western Ozone Gas Destruct Canopy will be underlain by soil or formational material. Based on the anticipated bearing conditions, the western Ozone Gas Destruct Canopy may be supported on footings. Alternatively, where concrete equipment pads are needed over large portions of the canopy area, a mat foundation may be used to support the canopy and facility equipment on a common foundation.

To mitigate concerns related to expansive soil, the top 2 feet below finish pad grade should consist of a material with low expansion characteristics using select site fill or import fill, or by chemically treating suitable on-site material with quicklime.

The other four Ozone Gas Destruct Canopies will be constructed over the Intermediate Ozone Contactors (Facility 3) or the Ozone Quenching Vaults (Facility 16).

7.2.9 Dewatering Building (Facility 9)

For a finish pad elevation of 317 feet that is approximately 3 to 7 feet below the existing ground surface at the location for the Dewatering Building, it is anticipated, based on the subsurface conditions exposed in Boring NMB-5, that the Dewatering Building will be underlain by approximately 0 to 2 feet of old fill over siltstone and sandstone of the Hambre Formation. The old fill is undocumented and unsuitable as a foundation material based on existing information. The Dewatering Building may be supported on footings or a mat foundation provided that the old fill below the finish pad elevation is removed and replaced with engineered fill. The mat foundation may be preferred where concrete pads for tanks or other equipment would be needed over large portions of the floor area.

To mitigate concerns related to expansive soil, the top 2 feet below finish pad grade should consist of a material with low expansion characteristics using select site fill or import fill, or by chemically treating suitable on-site material with quicklime. The ground conditions encountered in Boring NMB-5 indicate that the existing subgrade material includes clay soil and siltstone of the Hambre Formation which may have a moderate to very high expansion characteristic.

7.2.10 Truck Loading Canopy (Facility 9A)

For an assumed finish pad elevation of 322 feet that is approximately 1 to 3 feet below the existing ground surface at the location for the Truck Loading Canopy, it is anticipated, based on the subsurface conditions exposed in Boring NMB-5, that the canopy will be underlain by approximately 3 to 5 feet of old fill over siltstone and sandstone of the Hambre Formation. The old fill is undocumented and unsuitable as a foundation material based on existing information. Based on the anticipated bearing conditions and thickness of the old fill, the Truck Loading Canopy may be supported on footings that are extended to bear on the formational material below the old fill.

7.2.11 Thickened Solids Blending Tanks (Facility 10)

For an assumed finish pad elevation of 319 feet that is approximately 0 to 6 feet below the existing ground surface at the locations for the two Thickened Solids Blending Tanks, it is anticipated, based on the subsurface conditions exposed in Boring NMB-5, that the tanks will be underlain by approximately 0 to 5 feet of old fill over siltstone and sandstone of the Hambre Formation. The old fill is undocumented and unsuitable as a foundation material based on existing information. Based on the anticipated bearing conditions, the tanks may be supported on mat foundations provided that the old fill below the finish pad elevation is removed and replaced with engineered fill.

To mitigate concerns related to expansive soil, the top 2 feet below finish pad grade should consist of a material with low expansion characteristics using select site fill or import fill, or by chemically treating suitable on-site material with quicklime. The ground conditions encountered in Boring NMB-5 indicate that the existing subgrade material includes clay soil and siltstone of the Hambre Formation which may have a moderate to very high expansion characteristic as discussed in Section 5.10.

7.2.12 Gravity Thickener Tanks (Facility 11)

For a finish pad elevation of approximately 4 to 27 feet below the existing ground surface, it is anticipated, based on the subsurface conditions exposed in Borings NMB-5 and NMB-8, that the Gravity Thickener Tanks will be underlain by siltstone and sandstone of the Hambre Formation and these four structures may be supported on mat foundations.

7.2.13 Thickened Solids PP Vaults (Facility 12)

For a finish pad elevation of approximately 22 to 29 feet below the existing ground surface, it is anticipated, based on the subsurface conditions exposed in Borings NMB-5 and NMB-8, that the Thickened Solids PP Vaults will be underlain by siltstone and sandstone of the Hambre Formation and these two structures may be supported on mat foundations.

7.2.14 Solids Transfer PP (Facility 13)

For a finish pad elevation of approximately 1 foot below to 1 foot above the existing ground surface at the proposed location of the Solids Transfer PP, it is anticipated, based on the subsurface conditions exposed in Boring MN-33, that the PP will be underlain by new fill and siltstone of the Hambre Formation. Based on the anticipated bearing conditions, the Solids Transfer PP may be supported on footings. Alternatively, the Solids Transfer PP may be supported on a mat foundation. The mat foundation may be preferred where concrete pads for pumps or other equipment would be needed over large portions of the floor area.

To mitigate concerns related to expansive soil, the top 2 feet below finish pad grade should consist of a material with low expansion characteristics using select site fill or import fill, or by chemically treating suitable on-site material with quicklime. The expansion characteristic of the existing subgrade at the Solids Transfer PP is not known.

7.2.15 Electrical Facilities (Facility 14)

For an assumed finish pad elevation of 333 feet that is approximately 2 to 6 feet above the existing ground surface at the location for the Electrical Facilities, it is anticipated, based on the subsurface conditions exposed in Boring MN-15, that the Electrical Facilities will be underlain by approximately 2 to 6 feet of new fill over approximately 20 to 25 feet of old fill and 13 to 18 feet of soil with a depth to formational material of approximately 40 to 50 feet. Ninyo & Moore did not evaluate the suitability of the old fill at the Electrical Facilities as part of the GIR. Previous investigations (EBMUD, 2001) concluded that the old fill was unsuitable as a foundation material due to the potential for organic material in the old fill. Additional exploration may be performed to re-evaluate the suitability of the existing fill at the proposed

location for the Electrical Facilities. If the additional exploration indicates that the fill is indeed suitable, this facility may be supported on footings or mat foundations. If additional exploration is not performed or if the fill is found to be unsuitable, these facilities may be supported on deep footings or drilled pier foundations with a structural slab or additional piers to support equipment. Alternatively, this facility may be supported on footings or mat foundations provided that the existing fill is removed and replaced with compacted, engineered fill.

7.2.16 Maintenance Building (Facility 15)

For an assumed finish pad elevation of 336 feet that is approximately 2 feet below to 7 feet above the existing ground surface at the location for the Maintenance Building, it is anticipated, based on the subsurface conditions exposed in Borings MN-16, NMB-7, and SB-1, that the building will be underlain by approximately 0 to 7 feet of new fill over approximately 3 to 19 feet of old fill and 3 to 17 feet of soil with a depth to formational material of approximately 20 to 33 feet. As part of the current study, Ninyo & Moore performed subsurface exploration and laboratory testing to evaluate the suitability of the old fill at the Maintenance Building and concluded that the old fill is a suitable bearing material for foundations based on the results of the exploration and testing. Based on the anticipated bearing conditions, the Maintenance Building may be supported on footings.

To mitigate concerns related to expansive soil, the top 2 feet below finish pad grade should consist of a material with low expansion characteristics using select site fill or import fill, or by chemically treating suitable on-site material with quicklime. The ground conditions encountered in Boring MN-16 indicate that the existing subgrade material includes clay soil which may be indicative of a high expansion characteristic.

7.2.17 Ozone Quenching Vaults (Facility 16)

For a finish pad elevation of approximately 20 to 31 feet below the existing ground surface, it is anticipated, based on historic grading plans (EBMUD, 1964) and geologic mapping of the WCWTP site (Figure 5), that the southern Ozone Quenching Vault will be underlain by formational material and may be supported on a mat foundation.

For a finish pad elevation of approximately 10 to 22 feet below the existing ground surface, it is anticipated, based on historic grading plans (EBMUD, 1964) and geologic mapping of the WCWTP site (Figure 5), that the northern Ozone Quenching Vault will be underlain by approximately 3 to 11 feet of old fill over soil and formational material. Ninyo & Moore did not evaluate the suitability of the old fill at the northern Ozone Quenching Vault as part of the current study. Previous investigations (EBMUD, 2001) concluded that the old fill was

unsuitable as a foundation material due to the potential for organic material in the old fill. Based on the anticipated bearing conditions and extent of unsuitable old fill below the existing ground surface, the northern Ozone Quenching Vault may be supported on drilled piers bearing on formational material.

7.2.18 Chemical Storage Canopy (Facility 17)

For a finish pad elevation that is approximately 1 foot below to 1 foot above the existing ground surface at the location for the Chemical Storage Canopy, it is anticipated, based on historic grading plans (EBMUD, 1964) and the subsurface conditions exposed in Borings MN-21 and MN-28A, that the Chemical Storage Canopy will be underlain by approximately 0 to 1 foot of new fill over approximately 15 to 25 feet of old fill with a depth to formational material of approximately 16 to 25 feet. Ninyo & Moore did not evaluate the suitability of the old fill at the Chemical Storage Canopy as part of the current study. Previous investigations (EBMUD, 2001) concluded that the old fill was unsuitable as a foundation material due to the potential for organic material in the old fill. Based on the anticipated bearing conditions, thickness of unsuitable old fill, and proximity to the Chemical Building, the Chemical Storage Canopy may be supported on drilled piers that extend below the old fill.

7.2.19 Hydrogen Peroxide Station Canopies (Facility 18)

For a finish pad elevation of approximately 1 to 14 feet below the existing ground surface at the proposed location of the western Hydrogen Peroxide Station Canopy, it is anticipated, based on geologic mapping of the WCWTP site (Figure 5), that the western canopy will be underlain by soil or formational material. Based on the anticipated bearing conditions, the western Hydrogen Peroxide Station Canopy may be supported on footings. Alternatively, where concrete equipment pads are needed over large portions of the canopy area, a mat foundation may be used to support the canopy and facility equipment on a common foundation. To mitigate concerns related to expansive soil, the top 2 feet below finish pad grade at the western canopy should consist of a material with low expansion characteristics using select site fill or import fill, or by chemically treating suitable on-site material with quicklime.

For a finish pad elevation of approximately 1 foot below the existing ground surface at the proposed location of the eastern Hydrogen Peroxide Station Canopy, it is anticipated, based on the subsurface conditions exposed in Boring NMB-2, that the eastern canopy will be underlain by siltstone of the Hambre Formation. Based on the anticipated bearing conditions, the eastern Hydrogen Peroxide Station Canopy may be supported on footings. Alternatively,

where concrete equipment pads are needed over large portions of the canopy area, a mat foundation may be used to support the canopy and facility equipment on a common foundation. Laboratory testing performed for this study indicated that existing subgrade at the location of the eastern Hydrogen Peroxide Station Canopy has a low expansion characteristic.

7.3 Footings

The parameters listed in Table 15 may be used to design footings to support the listed facilities presuming that the structure loads conform with the assumptions in Table 4, that the footings for the Truck Loading Canopy (Facility 9A) are extended to bear on formational material below the old fill, and that the old fill is removed from below the finish pad elevation for the Pre-Ozone PP (Facility 6) and the Dewatering Building (Facility 9) and replaced with engineered fill. If the proposed retaining walls at the north corner of the Ozone Generator Building (Facility 4) and the north corner VOX Tanks & Vaporizers (Facility 5) are eliminated, the foundation walls of these facilities at those locations should be designed as restrained retaining walls in accordance with the criteria for footings and lateral earth pressures in Section 7.9. A lateral bearing pressure of 330 psf per foot of depth may be used to evaluate the resistance of footings to lateral loads. The recommended lateral bearing pressure is for level and gently sloping ground conditions where the ground slope adjacent to the foundation is 5 percent or less. The lateral bearing pressure should be neglected to a depth of 12 inches where the ground adjacent to the foundation is not covered by a slab or pavement. The lateral bearing pressure may be increased by one-third when considering loads of short duration such as wind or seismic forces. A friction coefficient of 0.35 may be assumed for evaluating frictional resistance to lateral loads. The weight of the material above a plane rising up and away from the bottom edges of the footings at 20 degrees off plumb may be considered, along with the weight of the footing and the material over the footing, when evaluating footing resistance to uplift. A unit weight of 120 pounds per cubic foot (pcf) for soil or aggregate and 150 pcf for normal weight concrete may be assumed for this evaluation.

Table 15 – Design Parameters for Footings

ID	Facility	Bearing Depth ^[1]	Footing Width	Allowable Bearing Capacity ^[2]	Static Settlement ^[3]
4	Ozone Generator Building	36 inches	1½ to 4 feet	3,000 psf	1½ inch total
5	LOX Tanks & Vaporizers	36 inches	1½ to 4 feet	2,500 psf	1½ inch total
6	Pre-Ozone PP	36 inches	1½ to 4 feet	4,000 psf	1 inch total
8	Ozone Gas Destruct (west)	36 inches	2 to 4 feet	5,300 psf	1 inch total
9	Dewatering Building	36 inches	1½ to 4 feet	4,400 psf	⅔ inch total
9A	Truck Loading Canopy	36 inches	2 to 4 feet	6,000 psf	½ inch total
13	Solids Transfer PP	36 inches	1½ to 4 feet	6,000 psf	¼ inch total
15	Maintenance Building	36 inches	1½ to 4 feet	3,000 psf	1 inch total
18	Hydrogen Peroxide Station (west)	36 inches	2 to 4 feet	5,300 psf	1 inch total
18	Hydrogen Peroxide Station (east)	36 inches	2 to 4 feet	6,000 psf	¼ inch total

Notes:

- 1 Below the adjacent finish grade.
- 2 Gross allowable bearing capacity in pounds per square foot with Safety Factor of 3 or more. Allowable bearing capacity may be increased by one-third for wind or seismic load combinations.
- 3 Total static settlement due to sustained loads. Differential settlement is 50 percent of total over 20-foot span.

7.4 Mat Foundations

The parameters listed in Table 15 may be used to design mat foundations for the listed facilities presuming that the structure loads conform with the assumptions in Table 4 and that old fill is removed from below the finish pad elevation for the Pre-Ozone PP (Facility 6), the Dewatering Building (Facility 9), and the Thickened Solids Blending Tanks (Facility 12) and replaced with engineered fill.

Table 16 – Design Parameters for Mat Foundations

ID	Facility	Plan Dimensions (feet)	Bearing Depth ^[1]	Allowable Bearing Capacity ^[2]	Static Settlement ^[3]
1	Ballasted Flocculation	81x32x27	24 feet	11,700 psf	¼ inch total
2	Intermediate Ozone PP	50x40x20	14 feet	8,700 psf	¼ inch total
3	Intermediate Ozone Contactors	80x44x26	20 feet	10,100 psf	¼ inch total
4	Ozone Generator Building	200x50x15	0.5 feet	1,500 psf	1¼ inch total
5	LOX Tanks & Vaporizers	83x40x27	0.5 feet	1,500 psf	1 inch total
6	Pre-Ozone PP	50x30x20	0.5 feet	3,000 psf	½ inch total
7	Combined Reclaim Metering Vault	40x25x18	18 feet	11,700 psf	¼ inch total
8	Ozone Gas Destruct (West)	20x10x12	0.5 feet	3,800 psf	⅓ inch total
9	Dewatering Building	100x45x27	0.5 feet	3,400 psf	⅓ inch total
10	Thickened Solids Blending Tanks	20x20x16	0.5 feet	4,000 psf	½ inch total
11	Gravity Thickeners	80' Diameter x17	17 feet	7,500 psf	¼ inch total
12	Thickened Solids PP	50x30x27	22 feet	11,000 psf	¼ inch total
13	Solids Transfer PP	20x15x17	0.5 feet	4,000 psf	¼ inch total
15	Maintenance Building	120x60x27	0.5 feet	1,500 psf	½ inch total
16	Ozone Quenching Vault (south)	30x25x20	12 feet	10,300 psf	¼ inch total
18	Hydrogen Peroxide Station (east)	40x30x15	0.5 feet	5,100 psf	¼ inch total
18	Hydrogen Peroxide Station (west)	40x30x15	0.5 feet	3,100 psf	⅓ inch total

Notes:

- 1 Below the adjacent finish grade.
- 2 Gross allowable bearing capacity in pounds per square foot with Safety Factor of 3 or more. Allowable bearing capacity may be increased by one-third for wind or seismic load combinations.
- 3 Total static settlement due to sustained loads. Differential settlement is 50 percent of total over 20-foot span.

A lateral bearing pressure of 330 psf per foot of depth may be used to evaluate the resistance of mat foundations and embedded foundation walls to lateral loads. The recommended lateral bearing pressure is for level and gently sloping ground conditions where the ground slope adjacent to the foundation is 5 percent or less. The lateral bearing pressure for foundation walls on ground sloping more than 5 percent should be reduced by 9 psf per foot depth per degree of inclination. For complex slopes, an equivalent ground slope may be evaluated as the slope between the ground surface above the edge of the mat foundation to a point on the ground surface at a lateral distance from the edge of foundation equivalent to three times the embedment depth of the foundation. The lateral bearing pressure should be neglected to a depth of 12 inches where the ground adjacent to the foundation is not covered by a slab or pavement. The lateral bearing pressure may be increased by one-third when considering loads of short duration such as wind or seismic forces. A friction coefficient of 0.35 may be assumed for evaluating frictional resistance to lateral loads for mat foundations bearing on soil or formational material. The coefficient of friction may be increased to 0.50 where the mat is constructed over 6 inches of compacted

aggregate base. The coefficient of friction should be reduced to 0.20 where the mat is underlain by a plastic moisture vapor retarding membrane.

7.5 Drilled Piers

Drilled piers may be used to support the Electrical Facilities (Facility 15), the northern Ozone Quenching Vault (Facility 17), and the Chemical Storage Canopy (Facility 17) where the old fill underlying these facilities has not been found to be suitable and removal is not feasible due to the thickness of the fill or the proximity to adjacent improvements or slopes. As noted above, additional borings at the locations of the facilities listed above could provide data that indicates that drilled piers would not be needed.

The drilled piers may be designed for an allowable axial side resistance of 500 psf in soil below the old fill and 1,500 psf in formational material for downward loading with a safety factor of 2. The piers may be designed for an allowable tip resistance of 6,000 psf in soil below the old fill and 13,000 psf in formational material with a safety factor of 3. To reduce potential for downdrag due to settlement of the old fill, the embedment depth of the pier should be adjusted so that the sum of the allowable tip and side resistance below the old fill exceeds the sustained load on the pier plus a drag load computed from a negative skin friction of 750 psf on the pier in the old fill.

An allowable axial side resistance of 750 psf in the old fill may be considered in addition to the tip resistance and the side resistance in the soil and formational material below the old fill when evaluating resistance for downward loading under seismic or other transient loading conditions. An allowable axial side resistance of 500 psf in the old fill, 330 psf in the soil below the old fill, and 1,000 psf in the formational material may be assumed for upward loading with a safety factor of 3.

A lateral load corresponding to $\frac{1}{2}$ inch head deflection of approximately 19, 28, and 51 kips for 18-, 24-, and 36-inch diameter piers, respectively, for pinned head conditions may be assumed for preliminary assessment of lateral load resistance. A lateral bearing pressure of 330 psf per foot of depth acting on embedded grade beams or pile caps may also be considered when evaluating foundation resistance to lateral loads. The recommended lateral bearing pressure is for level and gently sloping ground conditions where the ground slope adjacent to the foundation is 5 percent or less. The lateral bearing pressure should be neglected to a depth of 12 inches where the ground adjacent to the foundation is not covered by a slab or pavement. For a preliminary assessment of group effects, the lateral load resistance for a trailing pier parallel to the direction of the lateral load may be neglected where the center-to-center pier spacing is less than 8 diameters and the lateral load resistance per pier assumes that the center-to-center spacing perpendicular to the lateral load direction is no less than three diameters.

7.6 Below Grade Walls

Below grade walls for tanks, vaults, or basements should be designed to resist at-rest lateral earth pressures. Recommended values of at-rest lateral earth pressure, for drained and undrained conditions, and for level and sloping backfill, are provided in Table 17 for design of below grade walls under static or sustained loading. At-rest earth pressures are provided for below grade walls in formational material where less than 2 lateral feet of backfill is need to fill the annular space between the below grade wall and the edge of the excavation in formational material, and for below grade walls in site soil or where more than 2 lateral feet of general fill is needed to backfill the annular space. Below grade walls may be designed for drained conditions where a subdrain that discharges by gravity to a sump or a suitable outlet is provided near the base of the below grade wall. Table 17 also provides equivalent fluid lateral earth pressures for combined seismic and active lateral earth pressures to evaluate earth pressures on below grade walls under drained and undrained seismic conditions.

Table 17 – Lateral Earth Pressures for Below Grade Walls				
Material	Drained Conditions		Undrained Conditions	
	At-Rest Lateral Earth Pressure (psf/foot depth)	Seismic Active Earth Pressure (psf/foot depth)	At-Rest Lateral Earth Pressure (psf/foot depth)	Seismic Active Earth Pressure (psf/foot depth)
Site soil or general backfill	67 + 1.2/degree	96 + 1.9/degree	96 + 1.2/degree	110 + 1.9/degree
Formational Material	49 + 1.2/degree	82 + 0.5/degree	87 + 1.2/degree	103 + 0.5/degree

Note:
Equivalent fluid lateral earth pressures presented for level backfill conditions plus additional lateral earth pressure per degree of backfill slope inclination when measured from the horizontal

Below grade walls that retain level ground should be designed to resist construction or live load surcharges on the backfill. The uniform lateral earth pressure due to a backfill surcharge of 240 psf may be calculated as the product of the appropriate at-rest lateral earth pressure and the surcharge equivalent backfill thickness of 2 feet. An additional backfill surcharge and lateral earth pressure for adjacent foundations or other surcharge should be considered, as applicable, where the adjacent foundation bears above an imaginary plane that rises up and away from the bottom edge of the below grade wall at a 1½:1 (horizontal to vertical) gradient.

7.7 Uplift Resistance

The resistance of partially buried tanks and vaults to buoyancy and seismic uplift may be evaluated by considering the weight of the material above a plane rising up and away from the bottom edges of the mat foundation at 20 degrees off plumb, along with the weight of the tank or vault and the material over the tank or vault (if buried). A unit weight of 120 pounds per cubic foot (pcf) for soil or aggregate above groundwater or 60 pcf below groundwater may be assumed for this evaluation. A subdrain around the perimeter or a drainage blanket under the tank or vault may be considered as a measure to reduce uplift due to buoyancy provided that the subdrain or drainage blanket can be drained by gravity or by a sump pump when the tank or vault is empty.

Tiedown anchors consisting of a bar tendon installed in a drilled hole backfilled with grout, may be used to provide additional resistance to uplift from buoyancy or seismic loading. A smooth plastic sleeve should be provided over the tendon to create an unbonded zone that extends no less than 10 feet for bar tendons, and no less than 15 feet below the ground surface. Gravity-grouted tiedown anchors with a bonded length of no less than 15 feet may be designed for an allowable grout-to-ground bond strength of 1,000 psf in formational material with a safety factor of 3. Pressure grouting during initial grout placement or during one or more post-grouting operations, may be performed below a depth of 10 feet from the ground surface to enhance pullout resistance. The allowable grout-to-ground bond strength may be increased to 2,000 psf, with a safety factor of 3, where pressure grouting is performed to enhance pullout resistance with injection pressures of 150 pounds per square inch (psi) or more.

7.8 Retaining Walls

New permanent retaining walls associated with the proposed improvements are under consideration for nine locations. The retaining walls will retain cut at four locations and new fill at four locations. In addition, three walls retaining cut have been proposed to create three staging areas. Retaining wall recommendations are presented in the following subsections with the anticipated wall length and retained grade differential across the wall based on the existing topography (Figure 2) and preliminary cut/fill estimates in the BODR (EBMUD, 2020).

7.8.1 Hydrogen Peroxide Station & Ozone Gas Destruct (Facilities 18 & 8)

The proposed retaining wall is approximately 150 feet long (EBMUD, 2020) and retains up to 16 feet of cut (EBMUD, 2020) along the western, southern, and eastern edge of the level pad for the western Hydrogen Peroxide Station (Facility 18) and western Ozone Gas Destruct Canopy (Facility 8). Retained soil slopes up to the south at a gradient of approximately 2.4:1 (horizontal to vertical). Soil nails with a shotcrete facing may be used to retain the cut face.

Soldier piles with treated timber or precast concrete lagging and tieback ground anchors may be considered as an alternative to soil nail walls to reduce the degree of wall movement and mitigate the potential reduction in slope stability due to excavation at the toe for the pad. Based on geologic mapping of the site (Figure 5) it is anticipated that the proposed wall will retain soil and shale of the Briones Formation.

7.8.2 Electrical Facilities & Maintenance Building (Facilities 14 & 15)

The proposed retaining wall at the Maintenance Building (Facility 15) and Electrical Facilities (Facility 14) is approximately 450 feet long (EBMUD, 2020) supporting up to approximately 8 feet of fill (EBMUD, 2020) along the southern and eastern edges of the new fill embankment below the Electrical Facilities and Maintenance Building. The proposed retaining wall location is along the toe of a slope descending from the south at a gradient of approximately 2:1 (horizontal to vertical). The proposed retaining wall will retain level backfill and a potential surcharge from the Maintenance Building and Electrical Facilities depending on facility location relative to the wall. The southern and eastern edges of the proposed fill embankment may be graded to slope down at gradients of 2:1 (horizontal to vertical) or flatter to eliminate the proposed wall. Where a 2:1 side slope cannot be accommodated due to adjacent improvements or features (e.g., structures, pipelines or utilities, drainage swales, or subdrain outlets), a semi-gravity wall such as an L-shaped or inverted tee precast or cast-in-place concrete wall on footings may be used to retain the edge of the fill embankment. Based on the subsurface conditions encountered in Borings MN-16, SB-1, and MN-15, it is anticipated that the proposed retaining wall will bear on old fill.

7.8.3 Ozone Generator Building (Facility 4)

The proposed retaining wall at the Ozone Generator Building (Facility 4) is approximately 250 feet long (EBMUD, 2020) supporting up to approximately 24 feet of fill (EBMUD, 2020) along the western and northern edges of the new fill pad for the building. The proposed retaining wall location is on a slope that descends to the north away from the wall at a gradient of approximately 2:1 (horizontal to vertical). The proposed retaining wall will retain level backfill and surcharge from the Ozone Generator Building. A semi-gravity retaining wall such as an L-shaped or inverted tee precast or cast-in-place concrete wall may be used to retain the fill for the building pad. The retaining wall may be eliminated if the foundation wall for the Ozone Generator Building is designed to resist the lateral earth pressures from the fill used to build the building pad. Based on the subsurface conditions encountered in Borings NMB-6 and NMB-4, it is anticipated that the proposed retaining wall will bear on old fill.

7.8.4 LOX Tanks & Vaporizers (Facility 5)

The proposed retaining wall at the LOX Tanks & Vaporizers (Facility 5) is approximately 55 feet long (EBMUD, 2020) supporting up to approximately 8 feet of fill (EBMUD, 2020) at the northern corner of the new fill pad for the building. The proposed retaining wall location is on a slope that descends to the north away from the wall at a gradient of approximately 2:1 (horizontal to vertical). The proposed retaining wall will retain level backfill and surcharge from the LOX Tanks & Vaporizers. A semi-gravity retaining wall such as an L-shaped or inverted tee precast or cast-in-place concrete wall may be used to retain the fill for the building pad. The retaining wall may be eliminated if the foundation wall for the building is designed to resist the lateral earth pressures from the fill used to build the building pad. Based on the subsurface conditions encountered in Borings NMB-4 and SB-2, it is anticipated that the proposed retaining wall will bear on old fill.

7.8.5 Gravity Thickeners & Thickened Solids Pumping Plant (Facilities 11 & 12)

The proposed retaining wall at the Gravity Thickeners (Facility 11) and Thickened Solids Pumping Plants (Facility 12) is approximately 660 feet long (EBMUD, 2020) supporting up to approximately 24 feet of fill (EBMUD, 2020) along the western, northern, and eastern edges of the pad for Gravity Thickeners. The proposed retaining wall location is on sloping ground that descends away from the wall to the west, north, and east at gradients of up to approximately 2:1 (horizontal to vertical). The proposed retaining wall will retain level backfill. No surcharge from the below grade Gravity Thickeners and Thickened Solids Pumping Plants is expected based on the anticipated bearing elevations for these facilities. A semi-gravity retaining wall such as an L-shaped or inverted tee precast or cast-in-place concrete wall may be used to retain the fill for the pad around the Gravity Thickeners. Based on the subsurface conditions encountered in Borings NMB-5 and NMB-8, it is anticipated that the proposed retaining wall will bear on siltstone and sandstone of the Hambre Formation.

7.8.6 Northern Ozone Quenching Vault (Facility 16)

The proposed retaining wall at the northern Ozone Quenching Vault (Facility 16) is approximately 65 feet long (EBMUD, 2020) and retains up to 5 feet of cut (EBMUD, 2020) along the northern, eastern, and southern edge of the level pad for the northern Ozone Gas Destruct (Facility 8) constructed over the below grade Ozone Quenching Vault. Retained soil slopes up to the east at a gradient of approximately 2:1 (horizontal to vertical). An internally braced soldier pile and lagging system extending up the proposed cut may be used to shore the excavation for construction of the vault. The soldier piles retaining the proposed cut with treated timber or precast concrete lagging may be left in place after the vault is constructed

to retain the cut face on the eastern portion of the Ozone Gas Destruct pad. Soil nails with a shotcrete facing may be considered as an alternative method to retain the cut face. Based on historic grading plans (EBMUD, 1964) and geologic mapping of the WCWTP site (Figure 5), it is anticipated that the proposed retaining wall forming the pad for the northern Ozone Gas Destruct Canopy at the northern Ozone Quenching Vault will retain old fill.

7.8.7 Southern Ozone Quenching Vault (Facility 16)

The proposed retaining wall at the southern Ozone Quenching Vault (Facility 16) is approximately 100 feet long (EBMUD, 2020) and retains up to 12 feet of cut (Figure 2) along the western, southern, and eastern edge of the level pad for the southern Ozone Gas Destruct (Facility 8) constructed over the below grade Ozone Quenching Vault. Retained soil slopes parallel to wall alignment but is relatively level adjacent to the wall in a direction perpendicular to the wall alignment. The proposed retaining wall at the southern Ozone Quenching Vault may be eliminated by cutting the face back to slope at 2:1 (horizontal to vertical) above the excavation shoring for the vault. Alternatively, an internally-braced soldier pile and lagging system extending up the proposed cut may be used to shore the excavation for construction of the vault. The soldier piles retaining the proposed cut with treated timber or precast concrete lagging may be left in place after the vault is constructed to retain the cut face on the southern portion of the Ozone Gas Destruct pad. Soil nails with a shotcrete facing may also be considered as an alternative method to retain the cut face. Based on geologic mapping of the WCWTP site (Figure 5), it is anticipated that the proposed retaining wall forming the pad for the southern Ozone Gas Destruct Canopy at the southern Ozone Quenching Vault will retain soil and sandstone of the Hambre Formation.

7.8.8 Southern Intermediate Ozone Contactor (Facility 3)

The proposed retaining wall at the southern Intermediate Ozone Contactor (Facility 3) is approximately 210 feet long (EBMUD, 2020) and retains up to 17 feet of cut (EBMUD, 2020) along the northern, eastern, and southern edges of the level pad for the southeastern Ozone Gas Destruct (Facility 8) constructed over the below grade Intermediate Ozone Contactor. Retained soil slopes parallel to wall alignment and down slightly in a direction perpendicular to the wall alignment. The proposed retaining wall at the southern Intermediate Ozone Contactor may be eliminated by cutting the face back to slope at 2:1 (horizontal to vertical) above the excavation shoring for the contactor tank. Alternatively, an internally-braced soldier pile and lagging system extending up the proposed cut may be used to shore the excavation for construction of the contactor tank. The soldier piles retaining the proposed cut with treated timber or precast concrete lagging may be left in place after the tank is constructed to retain

the cut face on the eastern portion of the Ozone Gas Destruct pad. Soil nails with a shotcrete facing may also be considered as an alternative method to retain the cut face. Based on geologic mapping of the WCWTP site (Figure 5), it is anticipated that the proposed retaining wall forming the pad for the southeastern Ozone Gas Destruct Canopy at the southern Intermediate Ozone Contactor will retain soil and sandstone of the Hambre Formation.

7.8.9 Staging Area 1

The proposed retaining wall at Staging Area 1 is approximately 300 feet long and retains up to 18 feet of cut (Figure 2) along the western and southern edges of the near level staging area. Retained soil slopes up to the south at a gradient of up to approximately 2.5:1 (horizontal to vertical). Soil nails with a shotcrete facing may be used to retain the cut face. Soldier piles with treated timber or precast concrete lagging and tieback ground anchors may be considered as an alternative to soil nail walls to reduce the degree of wall movement and mitigate the potential reduction in slope stability due to excavation at the toe for the staging area. Based on the subsurface conditions encountered in Boring NMB-9, it is anticipated that the proposed retaining wall will retain soil and on siltstone of the Briones Formation.

7.8.10 Staging Area 2

The proposed retaining wall at Staging Area 2 is approximately 80 feet long and retains up to 12 feet of cut (Figure 2) along the southern and eastern edges of the near level staging area. Retained soil slopes up to the southeast at a gradient of up to approximately 3.5:1 (horizontal to vertical). Soil nails with a shotcrete facing may be used to retain the cut face. Soldier piles with treated timber or precast concrete lagging and tieback ground anchors may be considered as an alternative to soil nail walls to reduce the degree of wall movement and mitigate the potential reduction in slope stability due to excavation at the toe for the staging area. Based on geologic mapping of the site (Figure 5) it is anticipated that the proposed retaining wall will retain soil and shale of the Briones Formation.

7.8.11 Staging Area 3

The proposed retaining wall at Staging Area 3 is approximately 180 feet long and retains up to 10 feet of cut (Figure 2) along the southern and eastern edges of the near level staging area. Retained soil slopes up to the south at a gradient of up to approximately 2:1 (horizontal to vertical). Soil nails with a shotcrete facing may be used to retain the cut face. Soldier piles with treated timber or precast concrete lagging and tieback ground anchors may be considered as an alternative to soil nail walls to reduce the degree of wall movement and mitigate the potential reduction in slope stability due to excavation at the toe for the staging

area. Based on geologic mapping of the site (Figure 5) it is anticipated that the proposed retaining wall will retain soil and sandstone of the Hambre Formation.

7.9 Semi-Gravity Retaining Walls

Concrete inverted tee and L-shaped semi-gravity retaining walls may be used to retain embankment fill at the Maintenance Building and Electrical Facilities (Facilities 14 and 15), and pad fill at the Ozone Generator Building (Facility 4), the LOX Tanks & Vaporizers (Facility 5), and around the Gravity Thickeners (Facility 11). Semi-gravity retaining walls may be designed for drained conditions and hydrostatic pressures may be neglected presuming that weep holes are provided near the base of the wall stem and a subdrain is provided near the heel of the wall footing. Retaining walls that yield or deflect may be designed for active earth pressures. Retaining walls that are restrained against movement should be designed for at-rest earth pressures. Recommended values of active and at-rest lateral earth pressures for design of semi-gravity retaining walls backfilled with structural fill or select, chemically-treated fill are provided in Table 18. Structural fill used to backfill retaining walls should have a sand equivalent value of no less than 20 with 100 percent by dry weight passing the 3-inch sieve, 35 to 100 percent passing the No. 4 sieve, and 20 to 100 percent passing the No. 30 sieve. On-site material that meets these criteria, after stockpiling and testing, may be used as structural fill. On-site material with a sand equivalent value less than 20 may be used to backfill retaining walls provided the soil is chemically treated with quicklime to reduce the expansion characteristic and is processed, as needed to meet the gradation criteria. On-site material that meets the sand equivalent and gradation criteria for structural fill after chemical treatment and processing may be used as structural fill to backfill retaining walls. On-site material that meets the gradation criteria for structural fill but does not have a sand equivalent value more than 20 after chemical treatment and processing may be used to backfill retaining walls as select, chemically-treated fill provided that expansion index is not more than 50 or the plasticity index is not more than 15 after chemical treatment. The estimated retaining wall deflection needed to reduce at-rest earth pressure to active earth pressure is approximately $\frac{1}{2}$ percent of wall height for walls backfilled with select, chemically-treated fill and approximately $\frac{1}{4}$ percent of wall height for walls backfilled with structural fill. An additional equivalent fluid pressure of 55 psf per foot depth, for consideration with the active earth pressure, may be used to evaluate seismic earth pressure on retaining walls as appropriate.

Table 18 – Lateral Earth Pressures for Semi-Gravity Walls

Material	Backfill or Ground Slope	Active Lateral Earth Pressure	At-Rest Lateral Earth Pressure	Passive Lateral Earth Pressure ^[1]
Structural Fill	Level Backfill	29 psf/foot depth	53 psf/foot depth	--
Select, Chemically-Treated Fill	Level Backfill	35 psf/foot depth	60 psf/foot depth	--
Old Fill or Soil	Level Ground	--	--	330 psf/foot depth
	3H:1V Ground	--	--	134 psf/foot depth
	2H:1V Ground	--	--	78 psf/foot depth

Note:

1 Passive lateral earth pressure listed is 50 percent of nominal passive lateral earth pressure and corresponds to wall deflection equivalent to approximately 1 percent of footing embedment depth.

Walls retaining level ground should be designed to resist construction or live load surcharges on the backfill. The uniform lateral earth pressure due to a backfill surcharge of 240 psf equivalent to 2 feet of soil, may be calculated as the product of the appropriate at-rest or active lateral earth pressure and the surcharge. An additional backfill surcharge and lateral earth pressure for adjacent foundations or other surcharge should be considered, as applicable, where the adjacent foundations bear above an imaginary plane that rises up and away from the bottom edge of the retaining wall footing at a 1½:1 (horizontal to vertical) gradient.

The parameters listed in Table 19 may be used to design footings for the proposed semi-gravity retaining walls. Lateral forces may be resisted by friction at the base of the retaining wall footing, and passive earth pressure acting on the embedded wall, wall footing, or wall key, if present. Recommended values of passive lateral earth pressure for design of semi-gravity retaining walls are provided in Table 18 for level and sloping ground conditions. For complex slopes, an equivalent ground slope may be evaluated as the slope between the ground surface above the toe of the wall footing to a point on the ground surface at a lateral distance from the toe of the wall footing equivalent to three times the embedment depth of the footing bottom at the toe. The allowable bearing capacity and passive lateral earth pressure may be interpolated from the values provided in the tables for an intermediate slope. Passive earth pressure should be neglected to a depth of 1 foot below the ground surface when evaluating lateral load resistance where the ground surface is not covered by pavement or flatwork. Semi-gravity retaining walls may be designed for a coefficient of friction of 0.35 to resist lateral loads. The coefficient of friction may be increased to 0.50 where the footing is constructed over 6 inches of compacted aggregate base.

Table 19 – Design Parameters for Semi-Gravity Wall Footings

Wall	Ground Slope	Bearing Depth ^[1]	Footing Width	Allowable Bearing Capacity ^[2]	Static Settlement ^[3]
West, north, & east of Gravity Thickeners (Facility 11) on Hambre Formation	Level 3H:1V 2H:1V	36 inches	4 to 20 feet	12,700 psf 8,600 psf 7,000 psf	½ inch total
South of Facilities 14 & 15; North of Facility 4; North of Facility 5 on fill	Level 3H:1V 2H:1V	36 inches	4 to 20 feet	8,600 psf 5,300 psf 4,000 psf	1½ inch total

Notes:

- 1 Vertical distance from bottom of footing to finish grade. Evaluated at toe of footing.
- 2 Gross allowable bearing capacity in pounds per square foot with Safety Factor of 3 or more. Allowable bearing capacity may be increased by one-third for wind or seismic load combinations.
- 3 Total static settlement due to sustained loads. Differential settlement is 50 percent of total over 20-foot span.

7.10 Excavation Stabilization

Anticipated conditions and appropriate measures to stabilize excavations for the proposed vaults and below grade structures associated with the project improvements are discussed in the following subsections.

7.10.1 Ballasted Flocculation Basins (Facility 1)

The proposed locations for the Ballasted Flocculation Basins are near existing structures, utilities, and a paved access road. For a finish pad elevation of approximately 24 feet below the existing ground surface, it is anticipated, based on the subsurface conditions exposed in Borings MN-8 and MN-2, that excavations for the Ballasted Flocculation Tanks will encounter a couple feet of clay soil over deeply to moderately weathered sandstone and siltstone of the Hambre Formation. To reduce impacts to adjacent improvements, an internally-braced soldier-pile-and-lagging wall or slide rail shoring system may be used stabilize the sides of the excavation.

7.10.2 Intermediate Ozone PP Vaults (Facility 2)

The proposed locations for the Intermediate Ozone PP Vaults are near existing structures, utilities, and a paved access road. For a finish pad elevation of approximately 14 feet below the existing ground surface, it is anticipated, based on the subsurface conditions exposed in Borings MN-9 and MN-2, that excavations for the Intermediate Ozone Pumping Plant Vaults will encounter a couple feet of clay soil over deeply to moderately weathered siltstone of the Hambre Formation in Boring MN-2 and about 5 feet of sandy clay fill over 9 feet of sandy silt over deeply weathered sandstone of the Hambre Formation. To reduce impacts to adjacent

improvements, an internally-braced soldier-pile-and-lagging wall or slide rail shoring system may be used stabilize the sides of the excavation.

7.10.3 Intermediate Ozone Contactors (Facility 3)

The proposed locations for the Intermediate Ozone Contactors are near existing structures, utilities, and a paved access road. For a finish pad elevation of approximately 21 to 26 feet below the existing ground surface, it is anticipated, based on historic grading plans (EBMUD, 1964) and the subsurface conditions exposed in Borings NMB-3 and NMB-1, that excavations for the Intermediate Ozone Contactors will encounter intensely to moderately weathered and weakly to strongly cemented siltstone of the Hambre Formation in Boring NMB-1 and approximately 28 feet of sandy and clayey fill over weathered sandstone and siltstone of the Hambre Formation in Boring NMB-3. To reduce impacts to adjacent improvements, an internally-braced soldier-pile-and-lagging wall or slide rail shoring system may be used stabilize the sides of the excavation.

7.10.4 Combined Reclaim Metering Vault (Facility 7)

The proposed location for the Combined Reclaim Metering Vault is near an existing pipeline on near level ground. For a finish pad elevation of approximately 18 feet below the existing ground surface, it is anticipated, based on geologic mapping of the WCWTP site (Figure 5), that excavations for the Combined Reclaim Metering Vault will encounter fill over shale of the Briones Formation. Due to the relative lack of adjacent constraints, excavation side slopes may be cut back at 1½:1 (horizontal to vertical) to stabilize the side slopes of the excavation, or the side slopes may be partially cut back at 1½:1 (horizontal to vertical) with the lower portion of the excavation retaining by a cantilever soldier-pile-and-lagging wall.

7.10.5 Gravity Thickener Tanks (Facility 11)

The proposed locations for the Gravity Thickener Tanks are on gently sloping ground, away from existing improvements or active utilities. For finish pad elevations between approximately 4 and 27 feet below the existing ground surface, it is anticipated, based on the subsurface conditions exposed in Borings NMB-5 and NMB-8, that excavations for the Gravity Thickener Tanks will encounter approximately 4 to 6 feet of sandy clay and clayey sand fill over weathered siltstone and sandstone of the Hambre Formation. To reduce impacts to adjacent improvements, an internally-braced soldier-pile-and-lagging wall or slide rail shoring system may be used stabilize the sides of the excavation. Due to the relative lack of adjacent constraints, excavation side slopes may be cut back at 1½:1 (horizontal to vertical) to stabilize the side slopes of the excavation.

7.10.6 Thickened Solids PP Vaults (Facility 12)

The proposed locations for the Thickened Solids PP Vaults are on gently sloping ground, away from existing improvements or active utilities. For finish pad elevations between approximately 22 and 29 feet below the existing ground surface, it is anticipated, based on the subsurface conditions exposed in Borings NMB-5 and NMB-8, that excavations for the Thickened Solids PP Vaults will encounter approximately 4 to 6 feet of sandy clay and clayey sand fill over weathered siltstone and sandstone of the Hambre Formation. To reduce impacts to adjacent improvements, an internally-braced soldier-pile-and-lagging wall or slide rail shoring system may be used stabilize the sides of the excavation. Due to the relative lack of adjacent constraints, excavation side slopes may be cut back at 1½:1 (horizontal to vertical) to stabilize the side slopes of the excavation.

7.10.7 Ozone Quenching Vault (Facility 16)

The proposed location for the southern Ozone Quenching Vault is near existing utilities and a paved access road and the location for the northern Ozone Quenching Vault is on the mid-slope bench of a 2:1 (horizontal to vertical) slope near existing utilities. For a finish pad elevation of approximately 10 to 36 feet below the existing ground surface, it is anticipated, based on historic grading plans (EBMUD, 1964) and geologic mapping of the WCWTP site (Figure 5), that excavations for the northern Ozone Quenching Vault will encounter fill and excavations for the southern Ozone Quenching Vault will encounter weathered sandstone and siltstone of the Hambre Formation. To reduce impacts to adjacent improvements, an internally-braced soldier-pile-and-lagging wall or slide rail shoring system may be used stabilize the sides of the excavations.

7.11 Excavation Shoring

Recommended values of active and passive lateral earth pressures for cantilever soldier-pile-and-lagging walls, and apparent lateral earth pressures for internally-braced soldier-pile-and-lagging walls, slide-rail-shoring, or similar systems are provided in Table 17 for consideration in the design and selection of shoring systems to stabilize excavations for constructions of the proposed facilities. The ratio of the center-to-center spacing of the soldier to the width of the pile (or width of the drilled hole for piles installed in drilled holes with lean concrete backfill) should not be less than 3. The estimated wall deflection needed to develop active earth pressure is approximately 1 percent of wall height for retaining walls retaining site soil and old fill, and approximately ¼ percent of wall height for walls retaining bedrock formational material.

Excavation shoring that retains level ground should be designed to resist construction or live load surcharges on the backfill. The uniform lateral earth pressure due to a backfill surcharge of 240 psf is presented in Table 20. An additional backfill surcharge and lateral earth pressure for adjacent foundations or other surcharge should be considered, as applicable, where the adjacent foundation bear above an imaginary plane that rises up and away from the bottom edge of the below grade wall at a 1½:1 (horizontal to vertical) gradient.

Material	Active Lateral Earth Pressure^[1] (psf/foot depth)	Surcharge Lateral Earth Pressure^[2] (psf)	Passive Lateral Earth Pressure^[3] (psf/foot depth)	Apparent Lateral Earth Pressure^[4] (psf)
Site soil or old fill	41 + 1.9/degree	82	160	48H
Formational Material	27 + 0.5/degree	54	243	24H

Notes:

- 1 Equivalent fluid active lateral earth pressure acting on lagging and soldier pile width below lagging or on drilled hole width below lagging where backfilled with lean concrete. Active earth pressure presented for level backfill conditions plus additional lateral earth pressure per degree of backfill slope inclination.
- 2 Lateral pressure due to surcharge on level backfill of 240 psf.
- 3 Equivalent fluid passive earth pressure acting on an area equivalent to 300 percent of the soldier beam width below the bottom of lagging or 300 percent of the drilled hole diameter for soldier piles installed in drilled holes with lean concrete backfill. The passive pressure should be neglected to a depth of one foot below the bottom of excavation. Passive pressure listed is 50 percent of nominal passive lateral earth pressure.
- 4 Peak apparent lateral earth pressure occurring between 25 and 75 percent of exposed wall height (H) in trapezoidal pressure distribution with zero apparent earth pressure at top and bottom of exposed wall height.

7.12 Subgrade Preparation

Subgrade preparation at the Pre-Ozone PPs (Facility 6), the Dewatering Building (Facility 9), and the Thickened Solids Blending Tanks (Facility 12), where footings or mat foundations are anticipated and the proposed facility locations are underlain by old fill not previously found to be suitable, should include removal of the old fill and replacement with engineered fill. Removals should extend outside the building footprint a lateral distance equivalent to depth of removal below the finish pad grade. Excavated soil that contains less than 3 percent organic matter by dry weight and conforms with EBMUD’s Standard Specifications may be reused as fill.

The expansion characteristic of existing subgrade within 2 feet of finish pad grade is not known at the western Ozone Gas Destruct Canopy (Facility 8), the Solids Transfer PP (Facility 13), and the western Hydrogen Peroxide Station (Facility 18). Existing subgrade at the Dewatering Building (Facility 9) and Thickened Solids Blending Tanks (Facility 10) may include clay and siltstone with a moderate to very high expansion characteristic. Subgrade preparation at these locations should include chemical treatment of the existing subgrade with quicklime to reduce the expansion

characteristic within 2 feet of finish pad grade or removal of the existing subgrade within 2 feet of finish pad grade and replacement with import or select site fill with a low expansion characteristic unless the existing subgrade is found to have a low expansion characteristic.

New fill will be needed to achieve finish pad grades at the Ozone Generator Building (Facility 4), the LOX Tanks & Vaporizers (Facility 5), the Pre-Ozone PPs (Facility 6), the western Ozone Gas Destruct Canopy (Facility 8), the Solids Transfer PP (Facility 13), the Maintenance Building (Facility 14), and the Hydrogen Peroxide Stations (Facility 18). Finish subgrade preparation at these locations should include placing import or select site soil or placing site soil and chemically treating the site soil with quicklime to create a zone with low expansion characteristics extending down to 2 feet below finish pad elevation. Import fill, select site soil, or chemically-treated site soil should have an expansion index of no more than 50 or a plasticity index of no more than 15 with 100 percent or more by dry weight passing the 4-inch sieve.

8 LIMITATIONS

The field evaluation, laboratory testing, and geotechnical analyses presented in this GIR have been conducted in general accordance with current practice and the standard of care exercised by geotechnical consultants performing similar tasks in the project area. No warranty, express or implied, is made regarding the geotechnical conditions described in this GIR. There is no evaluation detailed enough to reveal every subsurface condition. Variations may exist and conditions not observed or described in this report may be encountered during construction or future exploration. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration. The geotechnical conditions at a site could change with time as a result of natural processes or human activities at the WCWTP site or nearby sites.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document.

This GIR is intended for planning purposes only. It does not provide sufficient data to prepare an accurate bid by contractors. It is suggested that the bidders and their geotechnical consultant perform an independent evaluation of the subsurface conditions in the Project areas. The independent evaluations may include, but not be limited to, review of other geotechnical reports prepared for the adjacent areas, site reconnaissance, and additional exploration and laboratory testing.

The conclusions, recommendations, and opinions in this GIR based on an analysis of the observed site conditions. If geotechnical conditions different from those described in this GIR are encountered, Ninyo & Moore should be notified and additional recommendations, if warranted, will be provided upon request. It should be understood that the conditions of a site could change with time as a result of natural processes or human activities at the WCWTP or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This GIR has been prepared for the exclusive use of EBMUD and Woodard & Curran for the Project. Any use or reuse of the findings, conclusions, and/or recommendations in this GIR by parties other than EBMUD and Woodard & Curran is undertaken at said parties' sole risk.

9 REFERENCES

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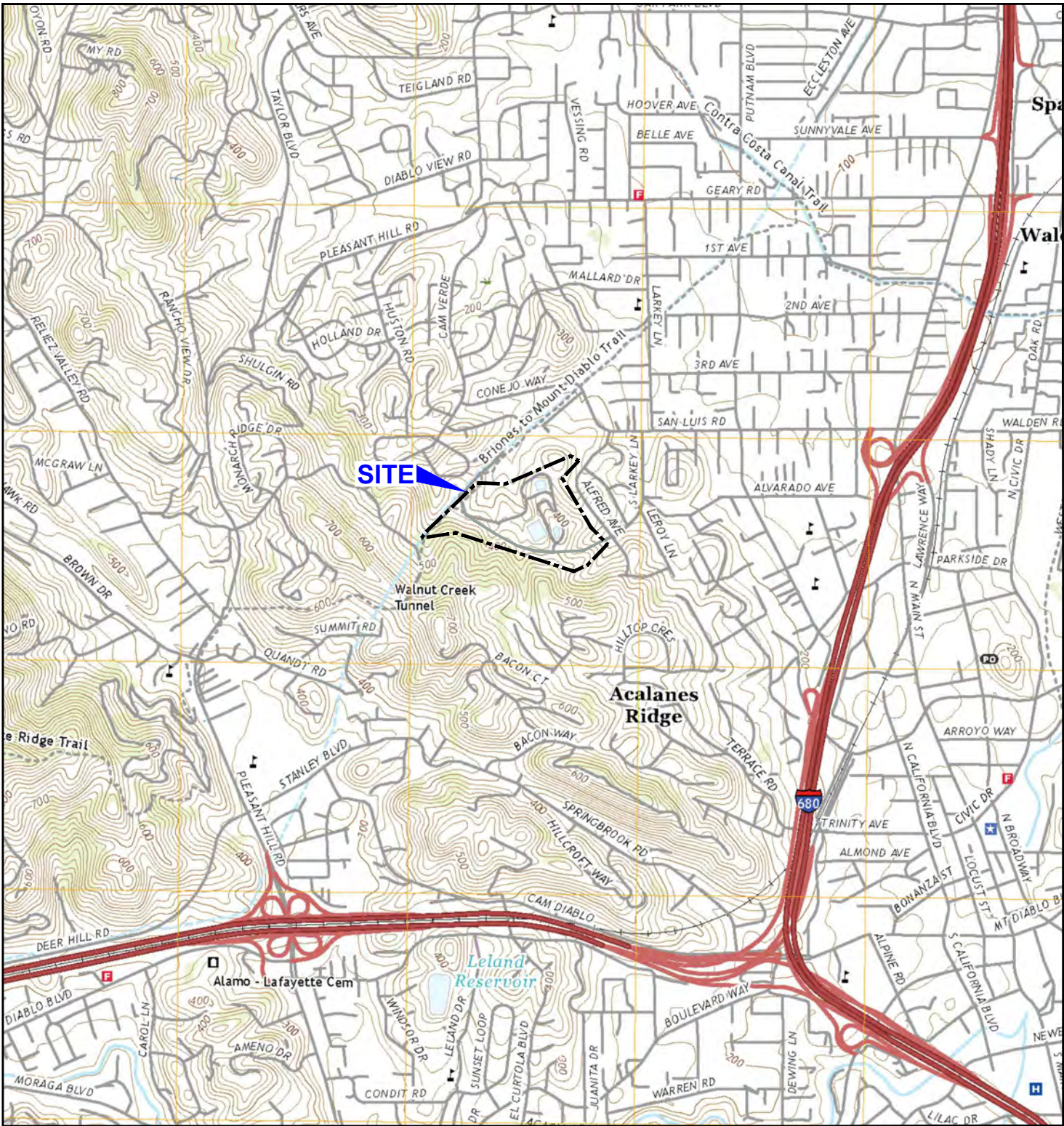
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List of Aerial Photographs Reviewed				
Date	ID	Line	Frame	Scale
7-2-1959	AV334	22	2,3	1:9600
5-28-1969	AV905	11	11,12	1:12000
6-6-1978	AV1515	9	11,12	1:12000
4-20-1986	AV2862	7	1,2	1:12000
7-17-1990	AV3845	16	16,17	1:12000
10-8-1996	AV5200	18	14,15	1:12000
4-21-1999	AV6100	118	11,13	1:12000
4-2-2004	AV8660	19	12,13	1:15000

Sources:
Pacific Aerial Surveys, Novato, California



FIGURES



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NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE | REFERENCE: USGS, 2018

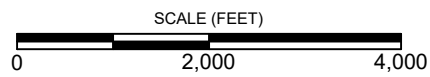
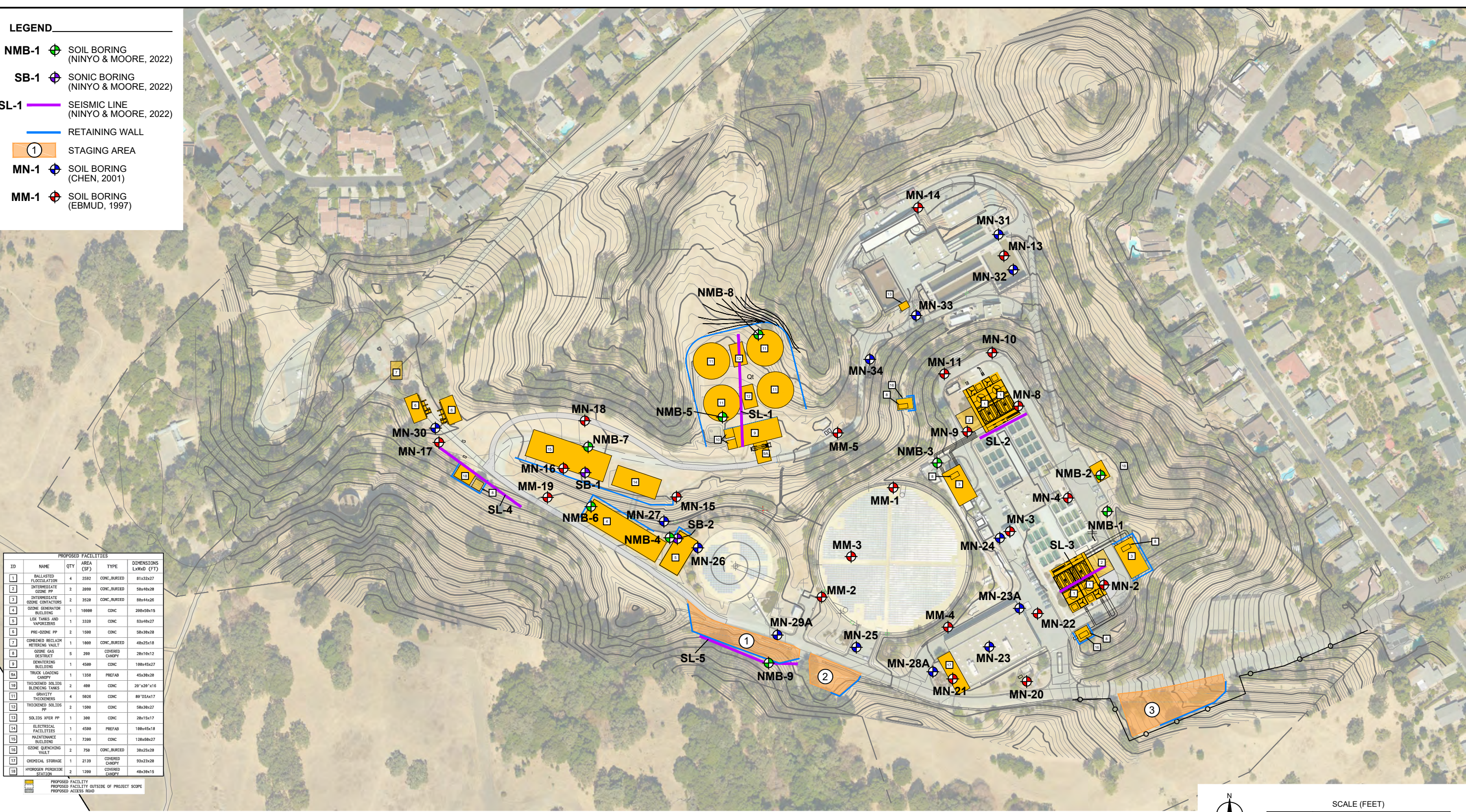


FIGURE 1

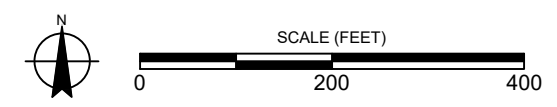
- LEGEND**
- NMB-1** SOIL BORING (NINYO & MOORE, 2022)
 - SB-1** SONIC BORING (NINYO & MOORE, 2022)
 - SL-1** SEISMIC LINE (NINYO & MOORE, 2022)
 - RETAINING WALL
 - STAGING AREA
 - MN-1** SOIL BORING (CHEN, 2001)
 - MM-1** SOIL BORING (EBMUD, 1997)



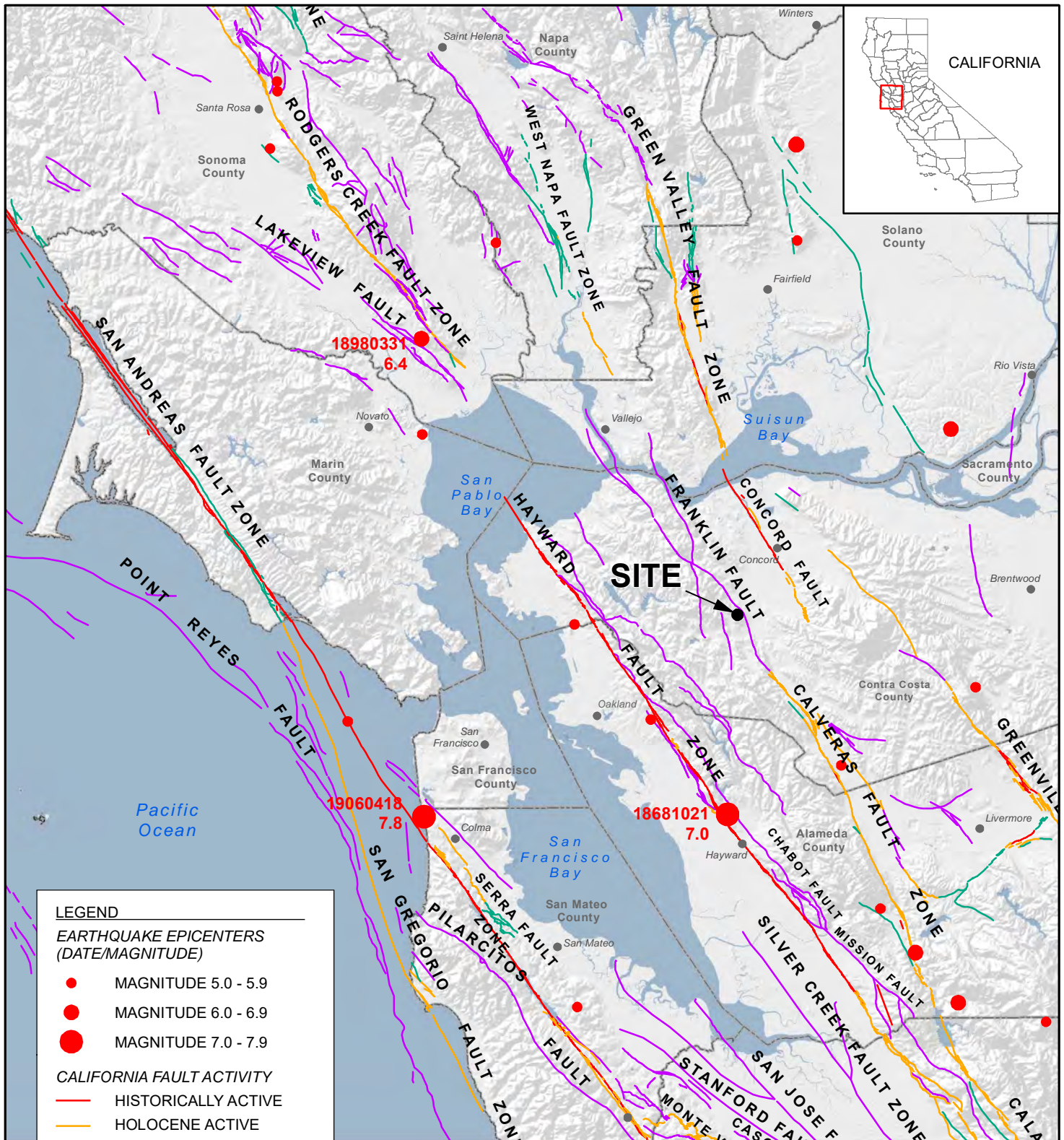
ID	NAME	QTY	AREA (SF)	TYPE	DIMENSIONS LxWd (FT)
1	BALLASTED FLOCCULATION	4	2592	CONC, BURIED	81x32x27
2	INTERMEDIATE COAG. PP	2	2080	CONC, BURIED	58x69x28
3	INTERMEDIATE OZONE CONTACTORS	2	3528	CONC, BURIED	88x44x26
4	OZONE GENERATOR BUILDING	1	10000	CONC	200x58x15
5	LOX TANKS AND VAPORIZERS	1	3328	CONC	83x69x27
6	PRE-OZONE PP	2	1500	CONC	58x38x28
7	COMBINED RECLAIM RETENTION VAULT	1	1000	CONC, BURIED	48x25x18
8	OZONE GAS RESTRICT	5	200	COVERED CANOPY	28x18x12
9	DEWATERING BUILDING	1	4500	CONC	108x45x27
10	TRUCK LOADING CANOPY	1	1350	PREFAB	45x30x28
11	THICKENED SOLIDS BLENDING TANKS	2	400	CONC	20'x20'x16
12	GRAVITY THICKENERS	4	9026	CONC	88'x15x17
13	THICKENED SOLIDS PP	2	1500	CONC	58x38x27
14	SOLIDS XFER PP	1	300	CONC	28x15x17
15	ELECTRICAL FACILITIES	1	4500	PREFAB	108x45x18
16	MAINTENANCE BUILDING	1	7200	CONC	128x58x27
17	OZONE QUENCHING VAULT	2	750	CONC, BURIED	38x25x28
18	CHEMICAL STORAGE	1	2139	COVERED CANOPY	93x23x28
19	HYDROGEN PEROXIDE STATION	2	1200	COVERED CANOPY	48x38x15

PROPOSED FACILITY
 PROPOSED FACILITY OUTSIDE OF PROJECT SCOPE
 PROPOSED ACCESS ROAD

NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE | REFERENCES: GEOMATRIX, 1998; EBMUD, 2020, 2022



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LEGEND

EARTHQUAKE EPICENTERS (DATE/MAGNITUDE)

- MAGNITUDE 5.0 - 5.9
- MAGNITUDE 6.0 - 6.9
- MAGNITUDE 7.0 - 7.9

CALIFORNIA FAULT ACTIVITY

- HISTORICALLY ACTIVE
- HOLOCENE ACTIVE
- LATE QUATERNARY
- QUATERNARY
- STATE/COUNTY BOUNDARY

NOTE: DIRECTIONS, DIMENSIONS, AND LOCATIONS ARE APPROXIMATE

SOURCES: CALIFORNIA GEOLOGICAL SURVEY, 2010, FAULT ACTIVITY MAP OF CALIFORNIA;
CALIFORNIA GEOLOGICAL SURVEY, 2000, MAP SHEET MS 49

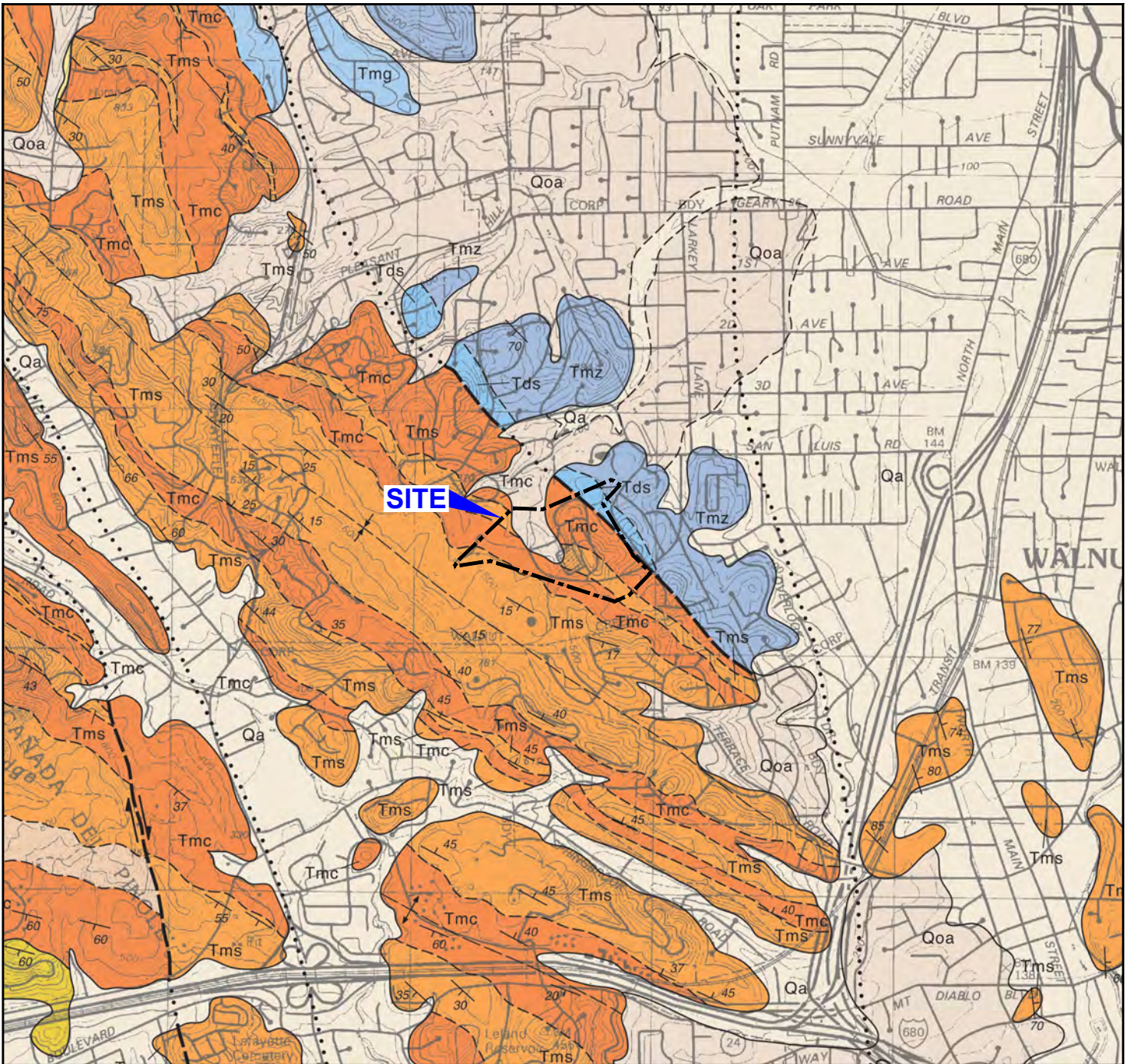


403982001-Fig3-FL.pdf 04/22/2022 AEK

FIGURE 3

FAULT LOCATIONS AND EARTHQUAKE EPICENTERS

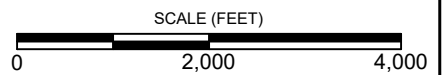
WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE
WALNUT CREEK, CALIFORNIA
403982001 | 06/22



LEGEND

Qa ALLUVIAL GRAVEL, SAND, & CLAY OF VALLEY AREAS (HOLOCENE)	Tbr BRIONES SANDSTONE (MIOCENE)	Tds DOMENGE SANDSTONE (EOCENE)	▼▼▼▼ THRUST FAULT
Qoa OLDER SURFICIAL SEDIMENTS (HOLOCENE)	Tms MONTEREY FORMATION SANDSTONE (MIOCENE)	Tmz MARTINEZ FORMATION CLAY SHALE/SILTSTONE (PALEOCENE)	----- FAULT (DASHED WHERE INFERRED, DOTTED WHERE CONCEALED)
Tor ORINDA FORMATION: PEBBLE CONGLOMERATE, SANDSTONE, & CLAYSTONE (PLIOCENE)	Tmc MONTEREY FORMATION CLAY SHALE/SILTSTONE (MIOCENE)		- - - - - GEOLOGIC CONTACT
			┆┆┆┆ STRIKE AND DIP OF BEDDING

NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE | REFERENCE: DIBBLEE, 2005



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FIGURE 4

REGIONAL GEOLOGY

WALNUT CREEK WATER TREATMENT PLANT
 2201 LARKEY LANE
 WALNUT CREEK, CALIFORNIA
 403982001 | 06/22

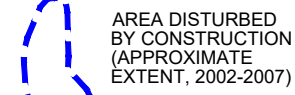
LEGEND

- NMB-1** SOIL BORING (NINYO & MOORE, 2022)
- SB-1** SONIC BORING (NINYO & MOORE, 2022)
- SL-1** SEISMIC LINE (NINYO & MOORE, 2022)
- RETAINING WALL
- STAGING AREA
- MN-1** SOIL BORING (CHEN, 2001)
- MM-1** SOIL BORING (EBMUD, 1997)



LANDSLIDE APPROXIMATE LIMITS (QUERIED WHERE INFERRED, ARROWS SHOW DIRECTION OF MOVEMENT)

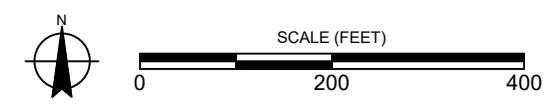
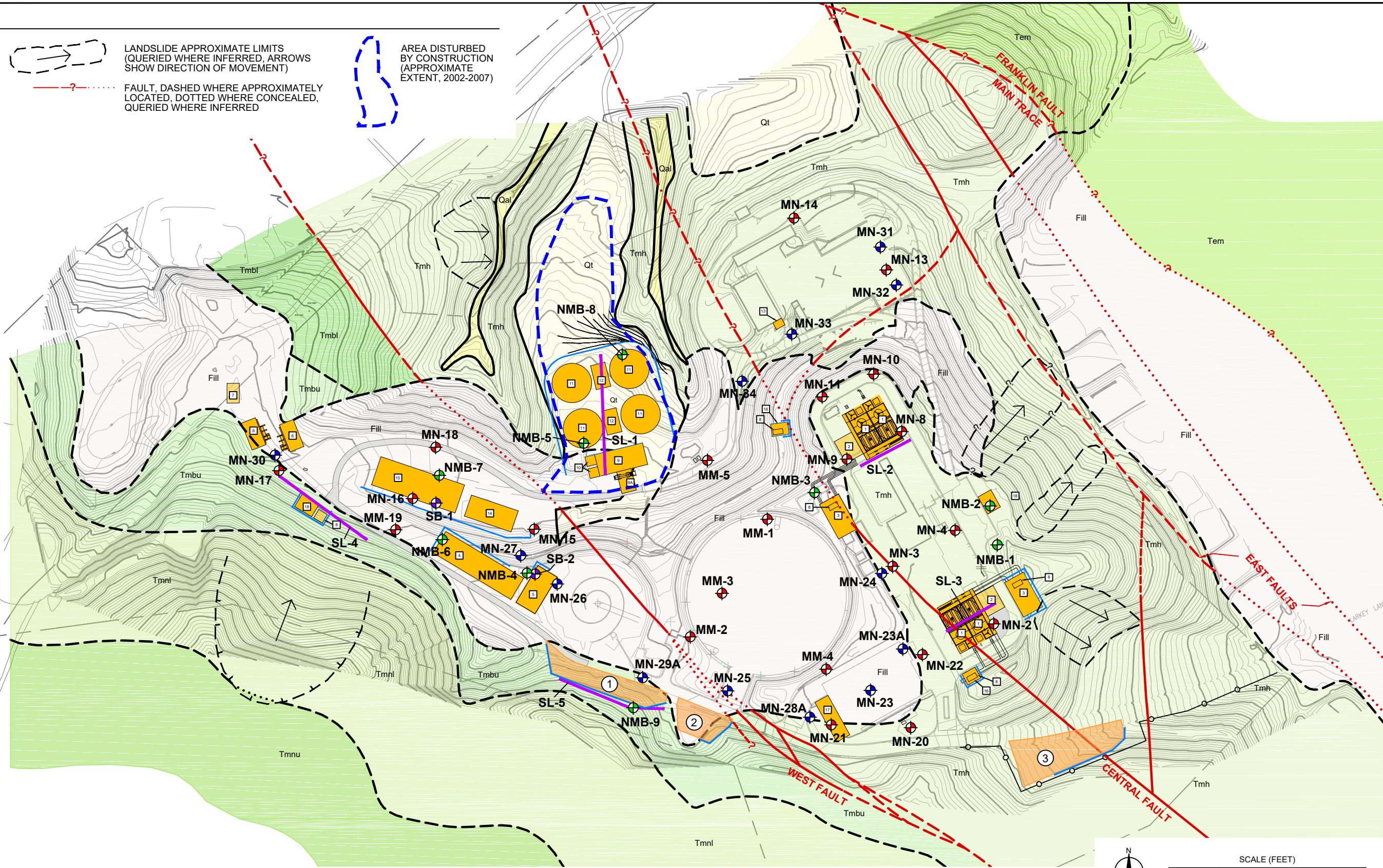
FAULT, DASHED WHERE APPROXIMATELY LOCATED, DOTTED WHERE CONCEALED, QUERIED WHERE INFERRED



- Fill** FILL; SANDY TO SILTY CLAY (HISTORICAL)
- Qal** ALLUVIUM; SANDY CLAY, SAND, SANDY GRAVEL (HOLOCENE)
- Qt** ALLUVIAL GEOMORPHIC SURFACE; SANDY CLAY, SAND, SANDY GRAVEL (LATE PLEISTOCENE)
- Tmnu** UPPER NEROLY FORMATION; SANDSTONE (MIOCENE)
- Tmnl** LOWER NEROLY FORMATION; SANDSTONE & SHALE (MIOCENE)
- Tmbu** UPPER BRIONES FORMATION; SHALE MEMBER (MIOCENE)
- Tmbl** LOWER BRIONES FORMATION; SANDSTONE MEMBER (MIOCENE)
- Tmh** HAMBRE SANDSTONE (MIOCENE)
- Tem** MEGANOS FORMATION; CLAYSTONE MEMBER (EOCENE)

ID	NAME	QTY	AREA (SF)	TYPE	DIMENSIONS LxWxD (FT)
1	BALLASTED FLOCCULATION	4	2592	CONC, BURIED	81x32x27
2	INTERMEDIATE OZONE PP	2	2080	CONC, BURIED	58x69x28
3	INTERMEDIATE OZONE CONTACTORS	2	3528	CONC, BURIED	88x44x26
4	OZONE GENERATOR BUILDING	1	10000	CONC	200x58x15
5	LOG TANKS AND VAPORIZERS	1	3328	CONC	83x69x27
6	PRE-OZONE PP	2	1500	CONC	58x38x28
7	COMBINED RECLAIM RETENTION WALL	1	1000	CONC, BURIED	48x25x18
8	OZONE GAS DISTRICT	5	200	COVERED CANOPY	28x18x12
9	DEWATERING BUILDING	1	4500	CONC	108x45x27
10	TRUCK LOADING CANOPY	1	1350	PREFAB	45x30x28
11	THICKENED SOLIDS BLENDING TANKS	2	400	CONC	20'x20'x16
12	GRAVITY THICKENERS	4	9026	CONC	80'x15x17
13	THICKENED SOLIDS PP	2	1500	CONC	58x38x27
14	SOLIDS XFER PP	1	300	CONC	28x15x17
15	ELECTRICAL FACILITIES	1	4500	PREFAB	108x45x18
16	MAINTENANCE BUILDING	1	7200	CONC	128x58x27
17	OZONE QUENCHING VAULT	2	750	CONC, BURIED	38x25x28
18	CHEMICAL STORAGE	1	2139	COVERED CANOPY	93x23x28
19	HYDROGEN PEROXIDE STORAGE	2	1200	COVERED CANOPY	48x38x15

NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE | REFERENCES: GEOMATRIX, 1998; EBMUD, 2020, 2022



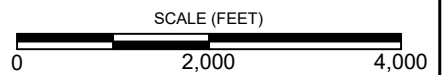
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LEGEND

- | | | |
|--|---|---|
|  ARTIFICIAL FILL |  LANDSLIDE |  BEDROCK |
|  ALLUVIAL DEPOSIT |  COLLUVIUM | |

NOTE: DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE | REFERENCE: USGS, 1975



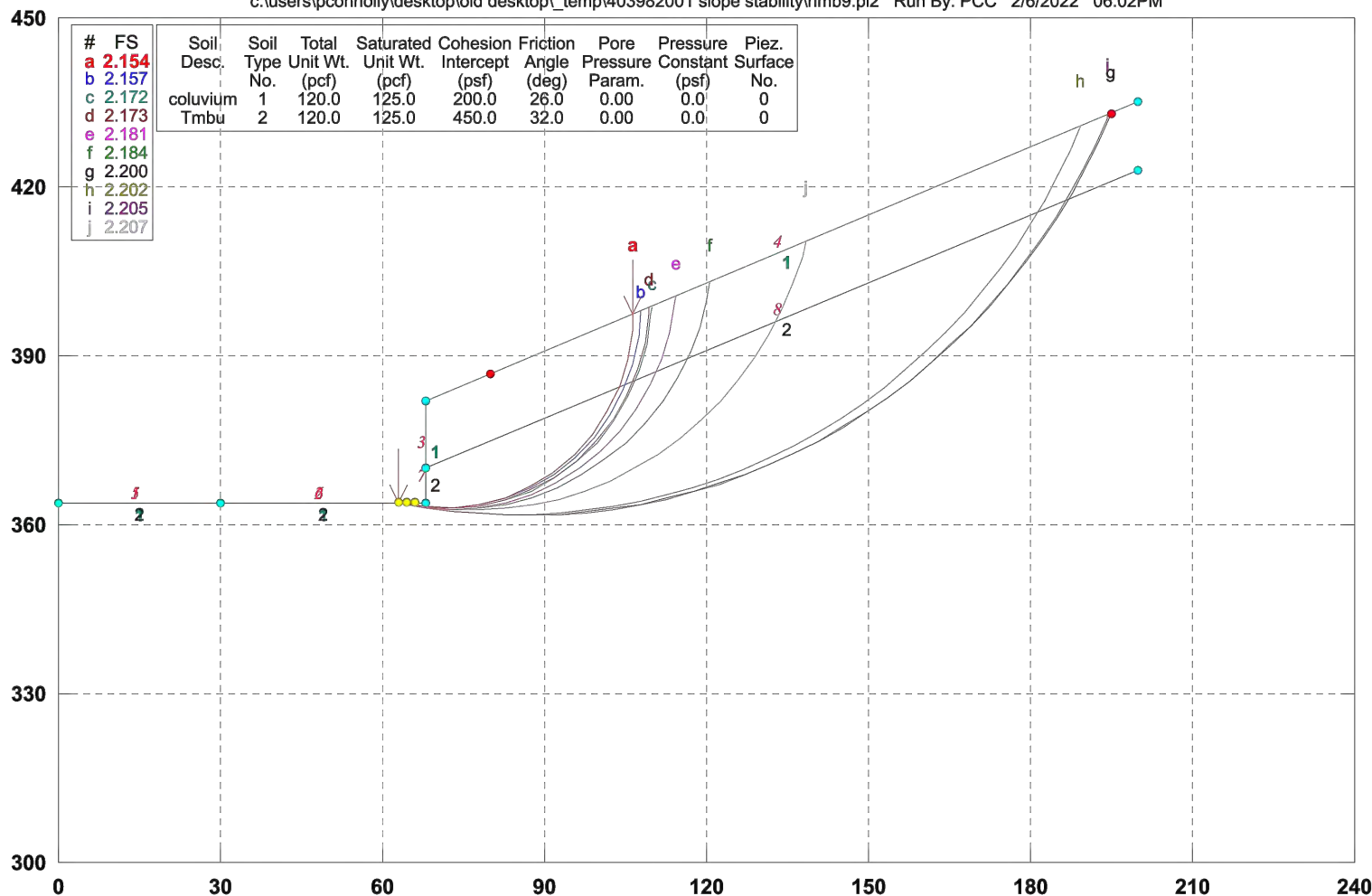
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FIGURE 6

REGIONAL LANDSLIDES

403982001 WCWTP NMB-9 Area1 S24W

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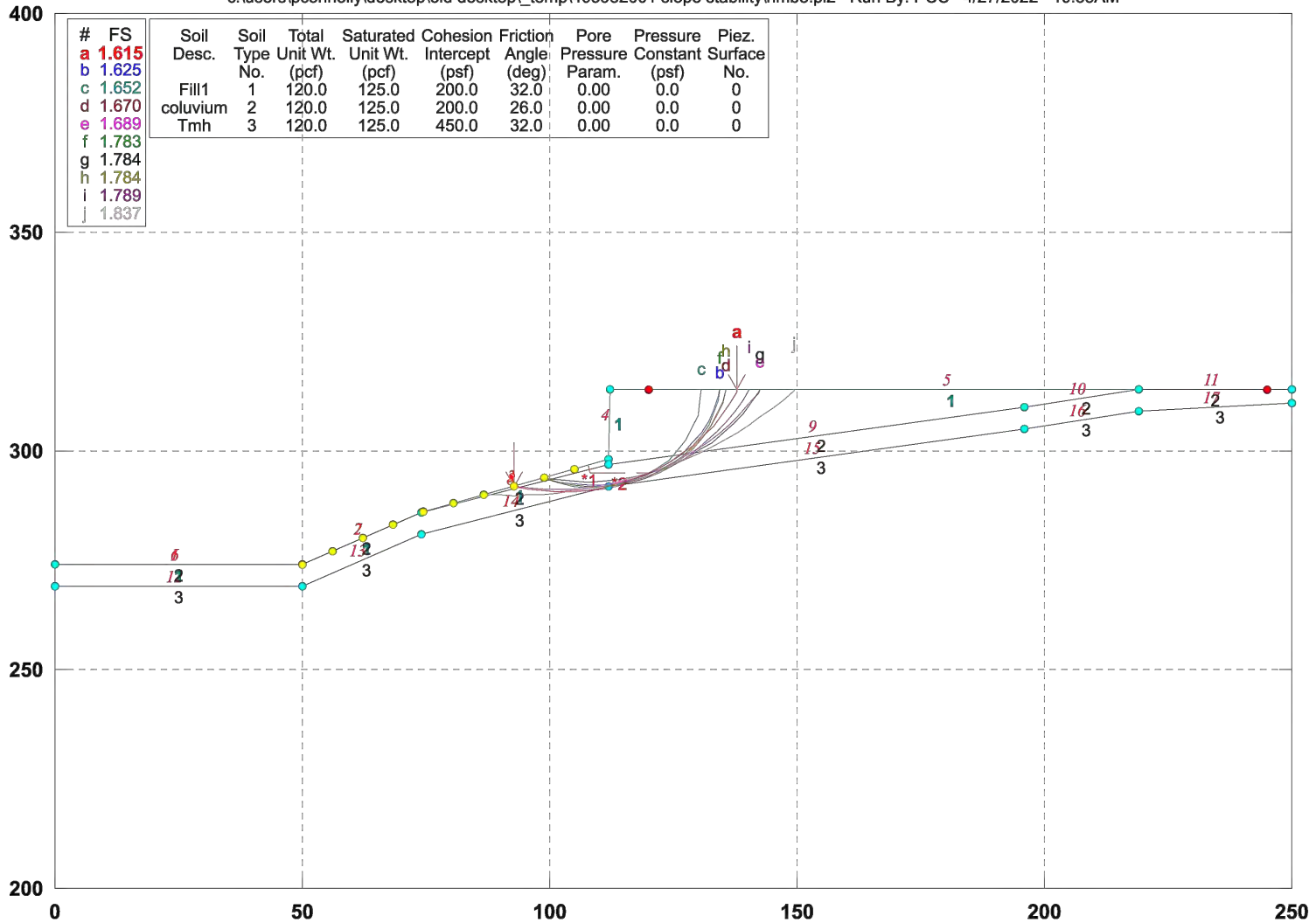


GSTABL7 v.2 FSmin=2.154
Safety Factors Are Calculated By The Modified Bishop Method

FIGURE 7A

403982001 WCWTP NMB-8 Item 11 S28W

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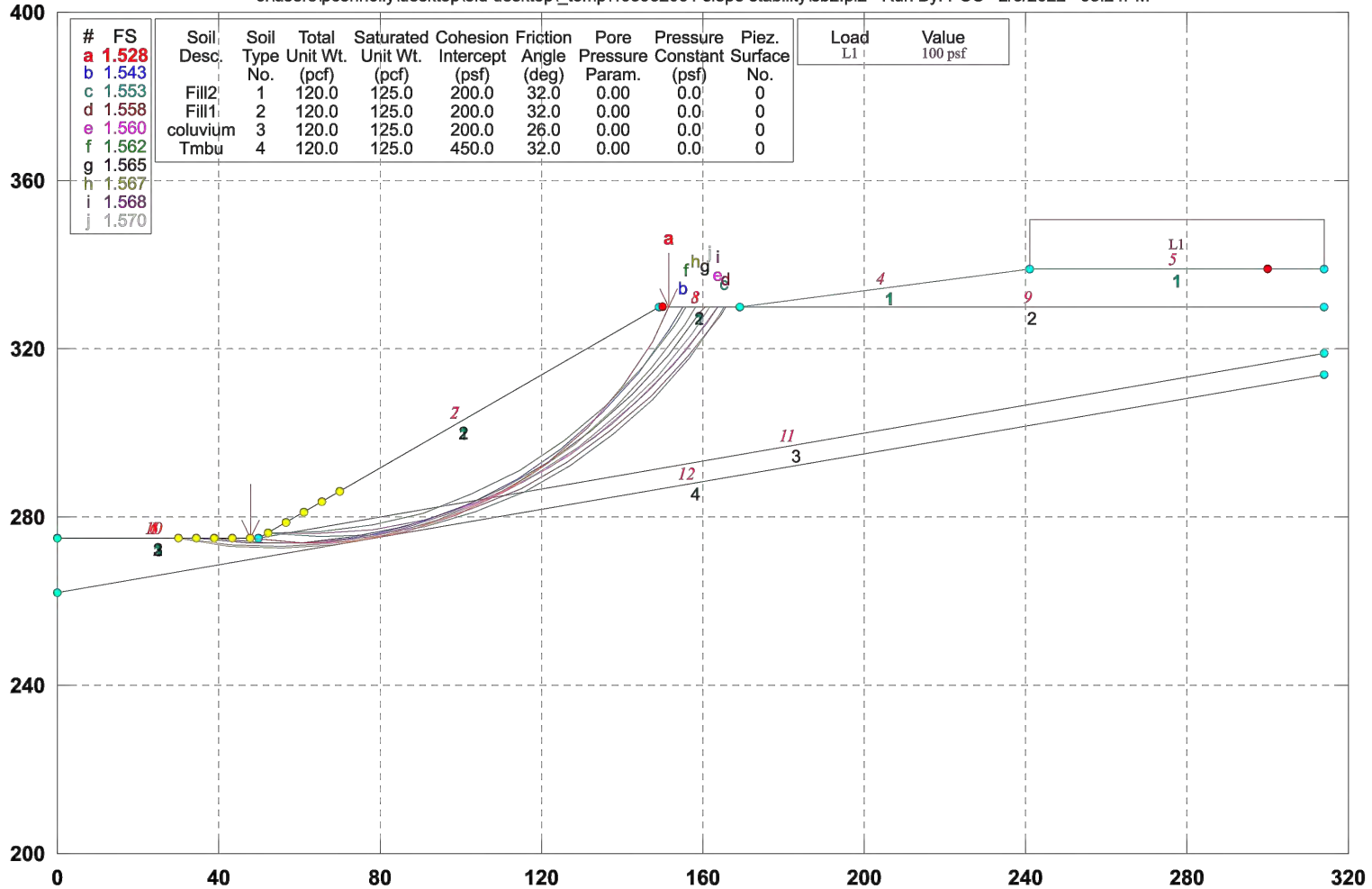


GSTABL7 v.2 FSmin=1.615
Safety Factors Are Calculated By The Modified Bishop Method

FIGURE 7B

403982001 WCWTP SB-2 Item15 S40W

c:\users\pconnolly\desktop\old desktop_temp\403982001 slope stability\sb2.pl2 Run By: PCC 2/3/2022 08:24PM



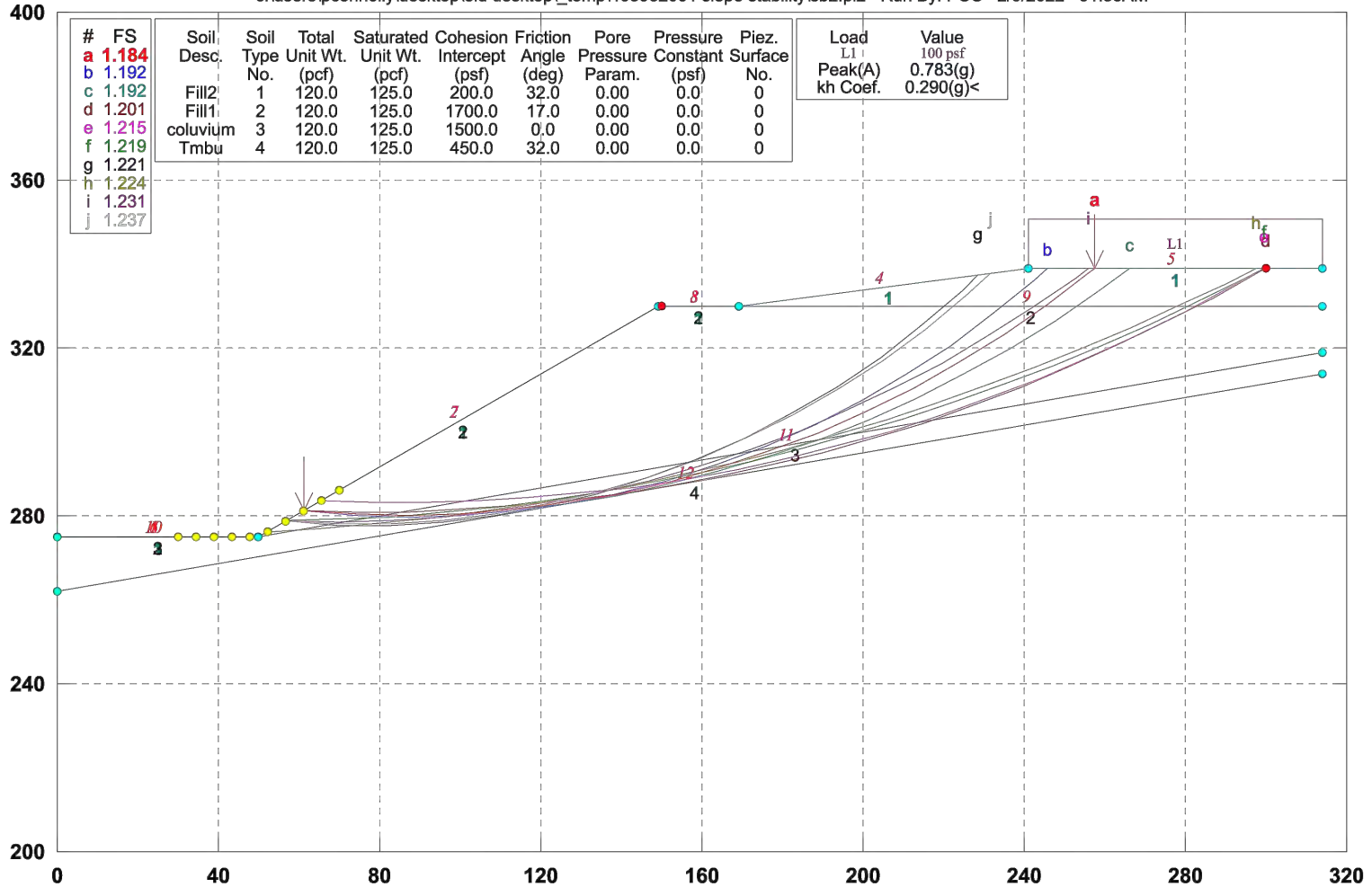
GSTABL7 v.2 FSmin=1.528

Safety Factors Are Calculated By The Modified Bishop Method

FIGURE 7C

403982001 WCWTP SB-2 Item15 S40W Seismic

c:\users\pconnolly\desktop\old desktop_temp\403982001 slope stability\sb2.pl2 Run By: PCC 2/9/2022 01:33AM



#	FS	Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Pore Pressure Param. (psf)	Pressure Constant (psf)	Piez. Surface No.
a	1.184									
b	1.192									
c	1.192	Fill2	1	120.0	125.0	200.0	32.0	0.00	0.0	0
d	1.201	Fill1	2	120.0	125.0	1700.0	17.0	0.00	0.0	0
e	1.215	coluvium	3	120.0	125.0	1500.0	0.0	0.00	0.0	0
f	1.219									
g	1.221	Tmbu	4	120.0	125.0	450.0	32.0	0.00	0.0	0
h	1.224									
i	1.231									
j	1.237									

Load	Value
L1	100 psf
Peak(A)	0.783(g)
kh Coef.	0.290(g)

GSTABL7 v.2 FSmin=1.184
Safety Factors Are Calculated By The Modified Bishop Method

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FIGURE 7D



APPENDIX A

Boring Logs

APPENDIX A

BORING LOGS

Field Procedure for the Collection of Disturbed Samples

Disturbed soil samples were obtained in the field using the following methods.

Bulk Samples

Bulk samples of representative earth materials were obtained from the exploratory borings. The samples were bagged and transported to the laboratory for testing.

The Standard Penetration Test (SPT) Sampler

Disturbed drive samples of earth materials were obtained by means of a Standard Penetration Test sampler. The sampler is composed of a split barrel with an external diameter of 2 inches and an unlined internal diameter of 1-3/8 inches. The sampler was driven into the ground 12 to 18 inches with a 140-pound hammer free-falling from a height of 30 inches in general accordance with ASTM D 1586. The blow counts were recorded for every 6 inches of penetration; the blow counts reported on the logs are those for the last 12 inches of penetration. Soil samples were observed and removed from the sampler, bagged, sealed and transported to the laboratory for testing.

Field Procedure for the Collection of Relatively Undisturbed Samples

Relatively undisturbed soil samples were obtained in the field using the following methods.

The Modified Split-Barrel Drive Sampler

The sampler, with an external diameter of 3.0 inches, was lined with 6-inch long, thin brass liners with inside diameters of approximately 2.4 inches. The sample barrel was driven into the ground with the weight of a hammer in general accordance with ASTM D 3550. The driving weight was permitted to fall freely. The approximate length of the fall, the weight of the hammer, and the number of blows per foot of driving are presented on the boring log as an index to the relative resistance of the materials sampled. The samples were removed from the sample barrel in the brass liners, sealed, and transported to the laboratory for testing.

Field Procedure for the Collection of Rock Core

Relatively undisturbed rock core was obtained in the field using a core barrel with a diamond bit on the outer barrel. The inner barrel was a HQ split tube core barrel. Rock core was retrieved from the exploratory borings, placed in rock core boxes and transported to the laboratory for further classification and evaluation.

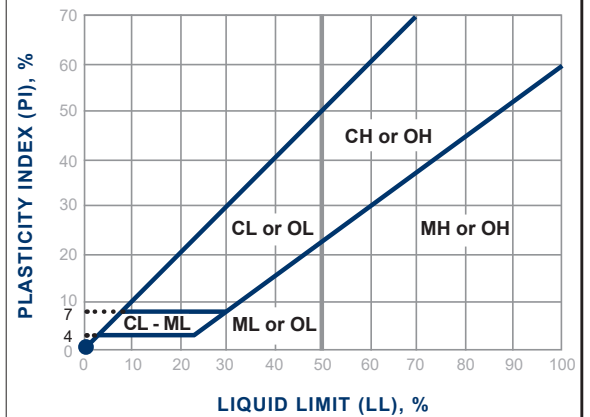
Soil Classification Chart Per ASTM D 2488

Primary Divisions		Secondary Divisions		
		Group Symbol	Group Name	
COARSE-GRAINED SOILS more than 50% retained on No. 200 sieve	GRAVEL more than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVEL less than 5% fines	GW	well-graded GRAVEL
			GP	poorly graded GRAVEL
		GRAVEL with DUAL CLASSIFICATIONS 5% to 12% fines	GW-GM	well-graded GRAVEL with silt
			GP-GM	poorly graded GRAVEL with silt
			GW-GC	well-graded GRAVEL with clay
			GP-GC	poorly graded GRAVEL with
			GM	silty GRAVEL
		GRAVEL with FINES more than 12% fines	GC	clayey GRAVEL
			GC-GM	silty, clayey GRAVEL
	SW		well-graded SAND	
	SP		poorly graded SAND	
	SAND 50% or more of coarse fraction passes No. 4 sieve	CLEAN SAND less than 5% fines	SW-SM	well-graded SAND with silt
			SP-SM	poorly graded SAND with silt
		SAND with DUAL CLASSIFICATIONS 5% to 12% fines	SW-SC	well-graded SAND with clay
			SP-SC	poorly graded SAND with clay
			SM	silty SAND
		SAND with FINES more than 12% fines	SC	clayey SAND
			SC-SM	silty, clayey SAND
CL			lean CLAY	
			ML	SILT
FINE-GRAINED SOILS 50% or more passes No. 200 sieve	SILT and CLAY liquid limit less than 50%	INORGANIC	CL-ML	silty CLAY
			ORGANIC	OL (PI > 4)
		OL (PI < 4)		organic SILT
	SILT and CLAY liquid limit 50% or more	INORGANIC	CH	fat CLAY
			MH	elastic SILT
		ORGANIC	OH (plots on or above "A"-line)	organic CLAY
OH (plots below "A"-line)	organic SILT			
Highly Organic Soils		PT	Peat	

Grain Size

Description	Sieve Size	Grain Size	Approximate Size
Boulders	> 12"	> 12"	Larger than basketball-sized
Cobbles	3 - 12"	3 - 12"	Fist-sized to basketball-sized
Gravel	Coarse	3/4 - 3"	Thumb-sized to fist-sized
	Fine	#4 - 3/4"	Pea-sized to thumb-sized
Sand	Coarse	#10 - #4	Rock-salt-sized to pea-sized
	Medium	#40 - #10	Sugar-sized to rock-salt-sized
	Fine	#200 - #40	Flour-sized to sugar-sized
Fines	Passing #200	< 0.0029"	Flour-sized and smaller

Plasticity Chart








Apparent Density - Coarse-Grained Soil

Apparent Density	Spooling Cable or Cathead		Automatic Trip Hammer	
	SPT (blows/foot)	Modified Split Barrel (blows/foot)	SPT (blows/foot)	Modified Split Barrel (blows/foot)
Very Loose	≤ 4	≤ 8	≤ 3	≤ 5
Loose	5 - 10	9 - 21	4 - 7	6 - 14
Medium Dense	11 - 30	22 - 63	8 - 20	15 - 42
Dense	31 - 50	64 - 105	21 - 33	43 - 70
Very Dense	> 50	> 105	> 33	> 70

Consistency - Fine-Grained Soil

Consistency	Spooling Cable or Cathead		Automatic Trip Hammer	
	SPT (blows/foot)	Modified Split Barrel (blows/foot)	SPT (blows/foot)	Modified Split Barrel (blows/foot)
Very Soft	< 2	< 3	< 1	< 2
Soft	2 - 4	3 - 5	1 - 3	2 - 3
Firm	5 - 8	6 - 10	4 - 5	4 - 6
Stiff	9 - 15	11 - 20	6 - 10	7 - 13
Very Stiff	16 - 30	21 - 39	11 - 20	14 - 26
Hard	> 30	> 39	> 20	> 26

BORING LOG EXPLANATION SHEET

DEPTH (feet)	SAMPLES		BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	
	Bulk	Driven						
0	█	█						Bulk sample. Modified split-barrel drive sampler. No recovery with modified split-barrel drive sampler. Sample retained by others. Standard Penetration Test (SPT). No recovery with a SPT. Shelby tube sample. Distance pushed in inches/length of sample recovered in inches. No recovery with Shelby tube sampler. Continuous Push Sample. Seepage. Groundwater encountered during drilling. Groundwater measured after drilling.
5			XX/XX					
10				  				
15						 	SM <u>MAJOR MATERIAL TYPE (SOIL):</u> Solid line denotes unit change. CL Dashed line denotes material change. Attitudes: Strike/Dip b: Bedding c: Contact j: Joint f: Fracture F: Fault cs: Clay Seam s: Shear bss: Basal Slide Surface sf: Shear Fracture sz: Shear Zone sbs: Shear Bedding Surface	
20								The total depth line is a solid line that is drawn at the bottom of the boring.

LEGEND FOR ROCK CORE BORINGS

The following tables present the terminology used, along with definitions and abbreviations of the terminology used on the rock core boring logs presented in this appendix. The tables have been derived from the Engineering Geology Field Manual published by the U.S. Department of the Interior Bureau of Reclamation.

**Tables A–1 through A–3:
Rock Descriptions**

**Tables A–4.1 through A–4.5:
Descriptions and Abbreviations for Fractures**

Table A–1: Description of Rock Fracturing

	Unfractured	No Observed Fractures
1	Very slightly fractured	Core length recovery greater than 3'
2	Slightly to very slightly fractured	*
3	Slightly fractured	Core length recovery from 1' to 3'
4	Moderately to slightly fractured	*
5	Moderately fractured	Core length recovery from 0.33' to 1'
6	Intensely to moderately fractured	*
7	Intensely fractured	Core length recovery from 0.1' to 0.33'
8	Very intensely to intensely fractured	*
9	Very intensely fractured	Core length recovery mostly chips and fragments
*Note: Combinations of fracture densities are used where equal distribution of both fracture density characteristics are present over a significant core interval or exposure.		

Table A–2: Description of Rock Weathering

1	Fresh	No discoloration, surfaces not oxidized.
2	Slightly weathered	Discoloration and oxidation limited to surfaces.
3	Moderately weathered	Discoloration and oxidation extends from fractures, partial chemical alteration of some minerals.
4	Intensely weathered	Discoloration and oxidation throughout; chemical alteration of most minerals; Rock is friable.
5	Decomposed	Rock decomposed; resembles a soil.

Table A–3: Description of Rock Hardness

1	Extremely hard	Can't be scratched with knife; can only be chipped with repeated heavy hammer blows.
2	Very hard	Can't be scratched with knife; core can only be broken with repeated heavy hammer blows.
3	Hard	Can be scratched with a knife with difficulty; core can be broken with heavy hammer blow.
4	Moderately hard	Can be scratched with a knife with light to moderate pressure; core breaks with moderate hammer blow.
5	Moderately soft	Can be grooved 1/16 in. deep by knife with moderate to heavy pressure; core can be broken with light hammer blow.
6	Soft	Can be grooved easily with a knife with light pressure; core breaks with light to moderate manual pressure.
7	Very soft	Can be easily carved with a knife; core breaks with light manual pressure.

Table A–4.1: Surface Roughness

St	Stepped	Near normal steps and ridges occur on the fracture surface.
R	Rough	Large, angular asperities can be seen.
Mr	Moderately rough	Asperities are clearly visible and fracture surface feels abrasive.
Sm	Smooth	No asperities; smooth to the touch.

Table A–4.2: Surface Shape

Pl	Planar	Flat and uniform.
Un	Undulatory	Wavy and symmetrical.
Irr	Irregular	Non-uniform and symmetrical.

Table A–4.3: Aperture

T	Tight	No visible separation
So	Slightly Open	<1/32 inch
Mo	Moderately Open	1/32 inch – 1/8 inch
O	Open	1/8 inch – 3/8 inch
Mw	Moderately Wide	3/8 inch – 1.2 inches
W	Wide	>1.2 inches

Table A–4.4: Type of Infilling

Cl	Clay
Ca	Calcite
Ch	Chlorite
Fe	Iron Oxide
G	Gypsum
Mn	Manganese Oxide
Q	Quartz

Table A–4.5: Thickness of Infilling

Sta	Surface Staining	---
Vth	Very thin	<1/32 inch
Mth	Moderately thin	1/32 inch – 1/8 inch
Th	Thin	1/8 inch – 3/8 inch
Mtk	Moderately thick	3/8 inch – 1.2 inches
Tk	Thick	>1.2 inches

DEPTH (feet)	SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>9/10/2021</u> BORING NO. <u>SB-1</u>
							GROUND ELEVATION <u>363' ± PD</u> SHEET <u>1</u> OF <u>1</u>
							METHOD OF DRILLING <u>6" Sonic Dual Tube, Geoprobe 8140LS (Geo-Ex)</u>
							DRIVE WEIGHT <u>N/A</u> DROP <u>N/A</u>
							SAMPLED BY <u>TBG</u> LOGGED BY <u>TBG</u> REVIEWED BY <u>PCC</u>
							DESCRIPTION/INTERPRETATION
0			30.8			SC	<u>FILL:</u> Brown, dry, clayey SAND; like gravel. Dark brown, moist.
10			25.1			CH	<u>COLLUVIUM:</u> Dark brown, moist, fat CLAY; little sand.
20			24.7 42.1			ROCK	<u>BRIONES FORMATION:</u> Olive brown, moist, weakly cemented, SILTSTONE; highly weathered. Moderately cemented.
30			25.7				Total depth = 28 feet. Backfilled with cement grout and on-site soils after completion of drilling. <u>Notes:</u> Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of topographic information (EBMUD, 2020). It is not sufficiently accurate for preparing construction bids and design documents.
40							

FIGURE A- 1

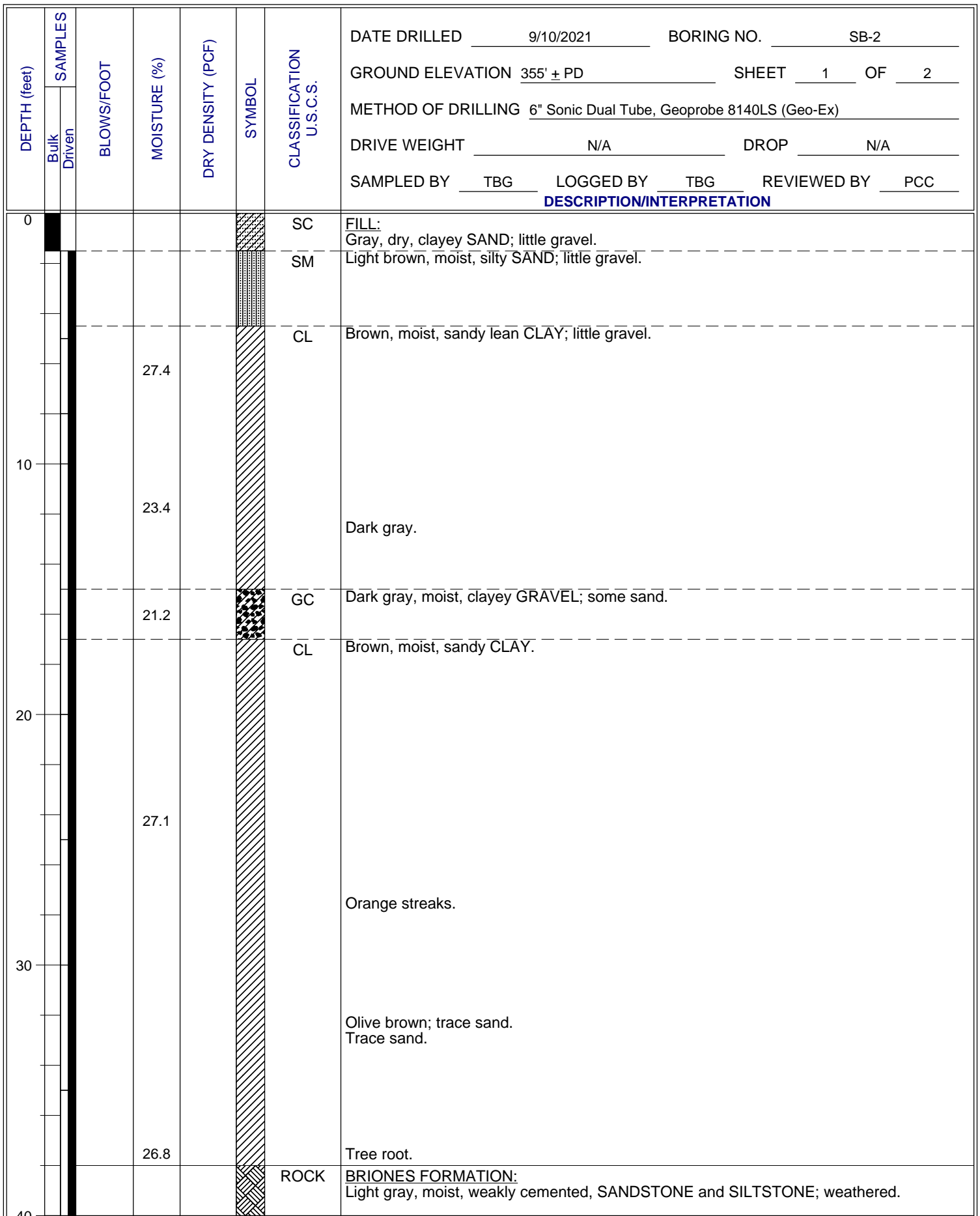


FIGURE A- 2


DEPTH (feet)	Bulk Driven	SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>9/10/2021</u> BORING NO. <u>SB-2</u>
								GROUND ELEVATION <u>355' ± PD</u> SHEET <u>2</u> OF <u>2</u>
								METHOD OF DRILLING <u>6" Sonic Dual Tube, Geoprobe 8140LS (Geo-Ex)</u>
								DRIVE WEIGHT <u>N/A</u> DROP <u>N/A</u>
								SAMPLED BY <u>TBG</u> LOGGED BY <u>TBG</u> REVIEWED BY <u>PCC</u>
								DESCRIPTION/INTERPRETATION
40								BRIONES FORMATION: (Continued) Dark gray, moist, weakly cemented, SILTSTONE.
50								Total depth = 45 feet. Backfilled with cement grout and on-site soils after completion of drilling. <u>Notes:</u> Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of topographic information (EBMUD, 2020). It is not sufficiently accurate for preparing construction bids and design documents.
60								
70								
80								

FIGURE A- 3

DEPTH (feet)	Samples		BLOWS/FOOT	INTERVAL CORED (feet)	RECOVERY (%)	RQD (%)	FRACTURE FREQ. (per ft)	FRACTURE DIP (degrees)	DRILLING RATE (min/ft.)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.		
	Bulk	Driven										9/27/2021	NMB-1		
												GROUND ELEVATION	SHEET	OF	
												387' + PD	1	1	
												METHOD OF DRILLING			
												2.5" HQ Wireline Core, CME 75 Track Mounted Rig (Geo Ex)			
												DRIVE WEIGHT	DROP		
												140 lbs (Auto Trip)	30 inches		
												SAMPLED BY	LOGGED BY	REVIEWED BY	
												TBG	DCS	PCC	
												DESCRIPTION/INTERPRETATION			
0												ROCK	HAMBRE FORMATION:		
													Light gray and brown, weakly to strongly cemented, SILTSTONE and sandy SILTSTONE; intensely to moderately fractured, intensely to moderately weathered, soft to moderately hard.		
													Moisture content = 25.8%; Dry Density = 77.2 pcf.		
10													Core Run 1 - 14.8' to 16.5' - Recovery 100% - RQD=50. Mr, Pl, So, G, Vth Mr, Pl, So, G, Mth		
													Core Run 2 - 16.9' to 21.5' - Recovery 93% - RQD=66. Mr, Pl, So, Ca, Mth Moderately hard, carbonate cement, iron oxide staining on bioturbation structures, appears massive.		
20													Sm, Pl, So, G, Mth Core Run 3 - 21.5' to 26.5' - Recovery 98% - RQD=43.		
													Mr, Pl, So, Ca, Mth		
30													Total Depth = 26.5 feet.		
													Boring was backfilled with cement grout, on 9/27/2021, after drilling.		
													Groundwater was not measurable due to drilling fluid.		
													<u>Notes:</u> Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.		
													The ground elevation shown above is an estimation only. It is based on our interpretations of topographic information (EBMUD, 2020) reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.		
40															

FIGURE A- 4


DEPTH (feet)	Bulk Driven SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>9/27/2021</u> BORING NO. <u>NMB-2</u>
							GROUND ELEVATION <u>383' ± PD</u> SHEET <u>1</u> OF <u>1</u>
METHOD OF DRILLING <u>4" Solid Stem Auger, CME-75 Track Mounted (Geo-Ex)</u>							
DRIVE WEIGHT <u>140 lbs (automatic)</u> DROP <u>30 inches</u>							
SAMPLED BY <u>TBG</u> LOGGED BY <u>SSA</u> REVIEWED BY <u>PCC</u>							
DESCRIPTION/INTERPRETATION							
0						ROCK	HAMBRE FORMATION: Light gray, dry, weathered, silty SANDSTONE; iron oxide staining on fractures.
50/3"							
50/5"							
10							Total depth = 9.4 feet. Backfilled with cement grout and on-site soils after completion of drilling. <u>Notes:</u> Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of topographic information (EBMUD, 2020). It is not sufficiently accurate for preparing construction bids and design documents.
20							
30							
40							

FIGURE A- 5

DEPTH (feet)	BULK SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
							9/27/2021	NMB-3	
							GROUND ELEVATION	SHEET	OF
							377' ± PD	1	1
							METHOD OF DRILLING 4" Solid Stem Auger, CME-75 Track Mounted (Geo-Ex)		
							DRIVE WEIGHT	DROP	
							140 lbs (automatic)	30 inches	
							SAMPLED BY	LOGGED BY	REVIEWED BY
							TBG	SSA	PCC
							DESCRIPTION/INTERPRETATION		
0						SC	ASPHALT CONCRETE: 4.5 INCHES. AGGREGATE BASE: 5.5 INCHES. FILL: Gray and brown, moist, medium dense, clayey SAND; trace gravel.		
		38				CH	Mottled gray, brown, reddish brown, moist, hard, fat CLAY; some sand.		
		51				SM	Gray and brown, moist, dense, silty SAND; pieces of sandstone in silty matrix.		
10						CL	Brown, moist, hard, sandy lean CLAY; trace gravel composed of pieces of bedrock.		
		44	24.0	94.0		SC	Gray and brown, moist, dense, clayey SAND; little gravel.		
		45	26.5	91.5		SM	Gray, moist, dense, silty SAND; little gravel.		
20		59							
		50/2"				ROCK	HAMBRE FORMATION: Gray, weathered, silty SANDSTONE and sandy SILTSTONE.		
30							Total depth = 28.7 feet. Backfilled with cement grout and on-site soils after completion of drilling. <u>Notes:</u> Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of topographic information (EBMUD, 2020). It is not sufficiently accurate for preparing construction bids and design documents.		
40									

FIGURE A- 6

DEPTH (feet)	Bulk Samples Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>9/28/2021</u> BORING NO. <u>NMB-4</u>		
							GROUND ELEVATION <u>363' ± PD</u> SHEET <u>1</u> OF <u>2</u>		
METHOD OF DRILLING <u>4" Solid Stem Auger, CME-75 Track Mounted (Geo-Ex)</u>							DRIVE WEIGHT <u>140 lbs (automatic)</u> DROP <u>30 inches</u>		
SAMPLED BY <u>TBG</u> LOGGED BY <u>SSA</u> REVIEWED BY <u>PCC</u>							DESCRIPTION/INTERPRETATION		
0						SC	FILL: Gray and brown, dry, dense, clayey SAND; little gravel. Asphalt chunk.		
		57	19.2	89.5					
		17	26.8	91.3		SM	Light to medium brown, moist, medium dense, silty SAND; little gravel.		
		75	18.8	101.1		CL	Gray and brown, moist, sandy lean CLAY; trace gravel.		
10		33	28.0	94.1		SC CL	Brown, moist, medium dense, clayey SAND; scattered rootlets; brick debris. Brown, moist, hard, lean CLAY.		
		16	13.6	113.1		GC	Dark gray and brown, moist, medium dense, clayey GRAVEL with sand; scattered asphalt debris; scattered rootlets.		
		64					Medium brown to gray; scattered rootlets. Olive brown; dense.		
		50				CL	Brown, moist, hard, sandy lean CLAY with gravel; asphalt chunks.		
		45	26.6	93.9			Trace gravel.		
40		56				ROCK	BRIONES FORMATION:		

FIGURE A-7

DEPTH (feet)	Bulk Driven	SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>9/28/2021</u> BORING NO. <u>NMB-4</u>
								GROUND ELEVATION <u>363' ± PD</u> SHEET <u>2</u> OF <u>2</u>
								METHOD OF DRILLING <u>4" Solid Stem Auger, CME-75 Track Mounted (Geo-Ex)</u>
								DRIVE WEIGHT <u>140 lbs (automatic)</u> DROP <u>30 inches</u>
								SAMPLED BY <u>TBG</u> LOGGED BY <u>SSA</u> REVIEWED BY <u>PCC</u>
								DESCRIPTION/INTERPRETATION
40								<p>Gray, moist, weakly cemented, SANDSTONE; weathered; iron oxide staining on fractures.</p> <p>Total depth = 40 feet.</p> <p>Backfilled with cement grout and on-site soils after completion of drilling.</p> <p><u>Notes:</u></p> <p>Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.</p> <p>The ground elevation shown above is an estimation only. It is based on our interpretations of topographic information (EBMUD, 2020). It is not sufficiently accurate for preparing construction bids and design documents.</p>
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60								
70								
80								

FIGURE A- 8

DEPTH (feet)	BULK SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
							9/28/2021	NMB-5	
							GROUND ELEVATION	SHEET	OF
							319' ± PD	1	2
							METHOD OF DRILLING 4" Solid Stem Auger, 4" mud rotary CME-75 Track Mounted (Geo-		
							DRIVE WEIGHT	DROP	
							140 lbs (automatic)	30 inches	
							SAMPLED BY	LOGGED BY	REVIEWED BY
							TBG	SSA	PCC
							DESCRIPTION/INTERPRETATION		
0						SC	FILL: Brown, dry, very dense, clayey SAND with gravel.		
		50/5"	17.7	99.1					
		50/6"	20.4	100.6		CL	Brown, moist, hard, lean CLAY.		
						ROCK	HAMBRE FORMATION: Light brown and brown, dry, moderately cemented, sandy SILTSTONE and silty SANDSTONE; weathered.		
10		50/5"							
		50/6"	18.2						
20		50/3"					Switched to rotary wash @20'.		
		50/6"	36.4						
30		50/5"					Gray.		
		50/2"							
		50/3"	29.8						
40									

FIGURE A- 9

DEPTH (feet)	BULK SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED <u>9/28/2021</u> BORING NO. <u>NMB-5</u>	
							GROUND ELEVATION <u>319' ± PD</u> SHEET <u>2</u> OF <u>2</u>	
							METHOD OF DRILLING <u>4" Solid Stem Auger, 4" mud rotary CME-75 Track Mounted (Geo-</u>	
							DRIVE WEIGHT <u>140 lbs (automatic)</u> DROP <u>30 inches</u>	
							SAMPLED BY <u>TBG</u> LOGGED BY <u>SSA</u> REVIEWED BY <u>PCC</u>	
							DESCRIPTION/INTERPRETATION	
40							Total depth = 38.8 feet.	
							Backfilled with cement grout and on-site soils after completion of drilling.	
							<u>Notes:</u>	
							Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.	
							The ground elevation shown above is an estimation only. It is based on our interpretations of topographic information (EBMUD, 2020). It is not sufficiently accurate for preparing construction bids and design documents.	
50								
60								
70								
80								

DEPTH (feet)	BULK SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
							10/08/2021	NMB-6	
							GROUND ELEVATION	SHEET	OF
							352' ± PD	1	1
							METHOD OF DRILLING 4" Solid Stem Auger, CME-75 Track Mounted (Geo-Ex)		
							DRIVE WEIGHT	DROP	
							140 lbs (automatic)	30 inches	
							SAMPLED BY	LOGGED BY	REVIEWED BY
							TBG	TBG	PCC
							DESCRIPTION/INTERPRETATION		
0						SC	FILL: Brown, moist, medium dense, clayey SAND with gravel; scattered asphalt.		
10		19	23.0	98.6			Brown and olive brown.		
		45	26.9	94.6			Orange and gray, dense. Grayish brown.		
20		76	31.5	91.3		ROCK	BRIONES FORMATION: Gray, moist, weakly cemented, SILTSTONE; weathered; iron oxide staining on fractures; gypsum veins.		
		69					Light brown.		
30							Total depth = 25 feet. Backfilled with cement grout and on-site soils after completion of drilling. <u>Notes:</u> Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of topographic information (EBMUD, 2020). It is not sufficiently accurate for preparing construction bids and design documents.		
40									

FIGURE A- 11

DEPTH (feet)	Bulk Samples Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
							10/08/2021	NMB-7	
							GROUND ELEVATION	SHEET	OF
							331' ± PD	1	1
							METHOD OF DRILLING 4" Solid Stem Auger, CME-75 Track Mounted (Geo-Ex)		
							DRIVE WEIGHT	DROP	
							140 lbs (automatic)	30 inches	
							SAMPLED BY	LOGGED BY	REVIEWED BY
							TBG	TBG	PCC
							DESCRIPTION/INTERPRETATION		
0						SC	FILL: Brown, moist, clayey SAND.		
		46	25.1	96.7			Brown, moist, dense, clayey SAND; little gravel.		
10		76	23.5	96.2			Very dense.		
		35	30.7	82.7		CL	Brown, moist, hard, sandy lean CLAY.		
20		36	22.1	91.3		CH	COLLUVIUM: Dark brown, moist, hard, fat CLAY; little sand.		
		76	29.8	88.6		ROCK	BRIONES FORMATION: Olive brown, moist, weakly cemented, SILTSTONE; weathered; iron oxide staining on fractures.		
30		73					Moderately cemented.		
		84	22.9	96.8			Total depth = 35 feet.		
40							Backfilled with cement grout and on-site soils after completion of drilling.		
							See Figure A-1 for groundwater and elevation notes.		

FIGURE A- 12

DEPTH (feet)	Bulk Samples Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
							10/08/2021	NMB-8	
							GROUND ELEVATION	SHEET	OF
							303' ± PD	1	1
							METHOD OF DRILLING		
							4" Solid Stem Auger, CME-75 Track Mounted (Geo-Ex)		
							DRIVE WEIGHT	DROP	
							140 lbs (automatic)	30 inches	
							SAMPLED BY	LOGGED BY	REVIEWED BY
							TBG	TBG	PCC
							DESCRIPTION/INTERPRETATION		
0						CL	FILL: Brown, dry, hard, sandy lean CLAY.		
	50/6"								
	50/6"					ROCK	HAMBRE FORMATION: Gray, dry, moderately cemented, silty SANDSTONE; weathered. Light brown and gray; strongly cemented.		
	50/3"								
10							Total depth = 10.8 feet. Backfilled with cement grout and on-site soils after completion of drilling. <u>Notes:</u> Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of topographic information (EBMUD, 2020). It is not sufficiently accurate for preparing construction bids and design documents.		
20									
30									
40									

FIGURE A- 13

DEPTH (feet)	Bulk Samples Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED	BORING NO.	
							10/08/2021	NMB-9	
							GROUND ELEVATION	SHEET	OF
							382' ± PD	1	1
							METHOD OF DRILLING 4" Solid Stem Auger, CME-75 Track Mounted (Geo-Ex)		
							DRIVE WEIGHT	DROP	
							140 lbs (automatic)	30 inches	
							SAMPLED BY	LOGGED BY	REVIEWED BY
							TBG	TBG	PCC
							DESCRIPTION/INTERPRETATION		
0						SC	COLLUVIUM: Brown, dry, medium dense, clayey SAND.		
						CL	Dark brown, moist, hard, sandy lean CLAY.		
	29								
10		38	21.2	95.7					
	69		27.6	90.7		ROCK	BRIONES FORMATION: Gray, dry, weakly cemented, sandy SILTSTONE; weathered; iron oxide staining on fractures.		
20		50/3"					Moderately cemented.		
	50/5"						Dark gray; strongly cemented.		
30							Total depth = 25.9 feet.		
							Backfilled with cement grout and on-site soils after completion of drilling.		
							<u>Notes:</u>		
							Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.		
							The ground elevation shown above is an estimation only. It is based on our interpretations of topographic information (EBMUD, 2020). It is not sufficiently accurate for preparing construction bids and design documents.		
40									

FIGURE A- 14



Photograph 1: Boring SB-1 from depth 0 to 5 feet below ground surface



Photograph 2: Boring SB-1 from depth 5 to 10 feet below ground surface



Photograph 3: Boring SB-1 from depth 10 to 15 feet below ground surface



Photograph 4: Boring SB-1 from depth 15 to 20 feet below ground surface



Photograph 5: Boring SB-1 from depth 20 to 25 feet below ground surface



Photograph 6: Boring SB-1 from 25 to 28 feet below ground surface (bottom run)



Photograph 7: Boring SB-2 from depth 1.5 to 5 feet below ground surface



Photograph 8: Boring SB-2 from depth 1.5 to 5 feet below ground surface



Photograph 9: Boring SB-2 from depth 8 to 10 feet below ground surface

FIGURE A-17



Photograph 10: Boring SB-2 from depth 10 to 15 feet below ground surface



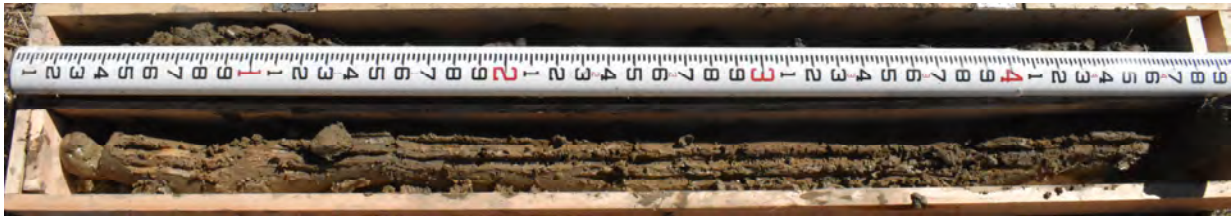
Photograph 11: Boring SB-2 from depth 15 to 17 feet below ground surface



Photograph 12: Boring SB-2 from depth 17 to 20 feet below ground surface



Photograph 13: Boring SB-2 from depth 20 to 25 feet below ground surface



Photograph 14: Boring SB-2 from depth 25 to 30 feet below ground surface



Photograph 15: Boring SB-2 from depth 30 to 35 feet below ground surface



Photograph 16: Boring SB-2 from depth 35 to 40 feet below ground surface



Photograph 17: Boring SB-2 from depth 40 to 45 feet below ground surface



Photograph 18: Boring NMB-1 Run 1 from depth 14.8 to 16.5, Run 2 from depth 16.9 to 21.5, and Run 3 from depth 21.5 to 26.5 feet



APPENDIX B

Boring Logs from Previous Investigations

**WALNUT CREEK WATER TREATMENT PLANT
IMPROVEMENTS PROJECT**

WALNUT CREEK, CALIFORNIA


GEOTECHNICAL INVESTIGATION REPORT

June 2001

by

East Bay Municipal Utility District
Engineering Services Division
Materials Engineering Section

Prepared by: _____



A. B. Yiadom
Associate Civil Engineer



Approved by: _____

F. M. Starr
Senior Civil Engineer



UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D-2487)					
MAJOR DIVISIONS			SYMBOLS		SECONDARY DIVISIONS
COARSE-GRAINED SOILS more than half is larger than No. 200 sieve	GRAVELS more than half coarse fraction is larger than No. 4 sieve size	CLEAN GRAVELS (less than 5% fines)	GW		well graded gravels, gravel-sand mixtures, little or no fines
			GP		poorly graded gravels, gravel-sand mixtures, little or no fines
		GRAVELS with fines	GM		silty gravels, gravel-sand-silt mixtures, non-plastic fines
			GC		clayey gravels, gravel-sand-clay mixtures, plastic fines
	SANDS more than half coarse fraction is smaller than No. 4 sieve size	CLEAN SANDS (less than 5% fines)	SW		well graded sands, gravelly sands, little or no fines
			SP		poorly graded sand or gravelly sands, little or no fines
		SANDS with fines	SM		silty sands, sand-silt mixtures, non-plastic fines
			SC		clayey sands, sand-clay mixtures, plastic fines
FINE-GRAINED SOILS (fines) more than half is smaller than No. 200 sieve	SILTS AND CLAYS liquid limit is less than 50	ML		inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity	
		CL		inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
		OL		organic silts and organic silty clays of low plasticity	
	SILTS AND CLAYS liquid limit is greater than 50	MH		inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	
		CH		inorganic clays of high plasticity, fat clays	
		OH		organic clays of medium to high plasticity, organic silts	
	HIGHLY ORGANIC SOILS		PT		peat and other highly organic soils

PENETRATION RESISTANCE (RECORDED AS BLOWS/FOOT)		
SANDS AND GRAVELS		
RELATIVE DENSITY	BLOWS/FOOT *	
VERY LOOSE	0 - 4	
LOOSE	4 - 10	
MEDIUM DENSE	10 - 30	
DENSE	30 - 50	
VERY DENSE	OVER 50	
CLAYS AND SILTS		
CONSISTENCY	BLOWS/FOOT *	STRENGTH **
VERY SOFT	0 - 2	0 - 1/4
SOFT	2 - 4	1/4 - 1/2
MEDIUM STIFF	4 - 8	1/2 - 1
STIFF	8 - 16	1 - 2
VERY STIFF	16 - 32	2 - 4
HARD	OVER 32	OVER 4

* Number of blows of 140 pound hammer falling 30 inches to drive a 2-inch O.D (1-3/8 inch I.D.) split-barrel sampler (ASTM-1586 standard penetration test).

** Unconfined compressive strength in tons per square foot

DEFINITION OF TERMS							
GRAIN SIZES							
U.S. STANDARD SERIES SIEVE							
	#200	#50	#16	#4	3/4"	3"	12"
SILTS & CLAYS DISTINGUISHED ON BASIS OF PLASTICITY	SAND			GRAVEL		COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	COARSE		
GRADATION							
Well-graded gravels and sands: Specimen with a <i>wide</i> range of grain sizes.							
Poorly-graded gravels and sands: Specimen with a <i>narrow</i> range of grain sizes.							
MOISTURE CONDITION							
DRY	SLIGHTLY DAMP	DAMP	MOIST	VERY MOIST	WET (SATURATED)		

	WALNUT CREEK WTP IMPROVEMENTS PROJECT	
	Date: 4/1/2001	Figure:

LEGEND



SAMPLE

MC Modified California Sampler
SPT Standard Penetration Test Sampler
1 First Sample Interval (2=second, etc.)
I First Sample Tube Recovered (II=second, etc.)

TEST RESULTS

LL Liquid Limit (%)
PL Plastic Limit (%)
PI Plasticity Index (%) } ATTERBERG LIMITS
SG Specific Gravity
FINES Percentage Passing #200 Sieve
TX (1000) Triaxial Shear Strength, psf (Confining Stress)
(Strength taken at peak stress ratio)
UU - Unconsolidated Undrained
CU - Consolidated Undrained

NOTES

∇ _{10/27} Indicates approximate ground water level on October 27.

Elevations are referenced to National Geodetic Vertical Datum (1929) XXXXXXXXXX

Blow counts shown are actual counts recorded for the 12 inches of penetration after the first 6 inches. 50/3" indicates 50 blows to drive the sampler 3" total. Each sampler was driven as follows:

Sampler Type	Hammer Wt. (pound)	Hammer Drop (inches)	Sampler penetration (inches)
MC	140	30	18
SPT	140	30	18

PHYSICAL PROPERTIES CRITERIA FOR ROCK DESCRIPTIONS

I. CONSOLIDATION OF SEDIMENTARY ROCKS: Usually determined from unweathered samples. Largely dependant on cementation.

U = Unconsolidated
 P = Poorly consolidated
 M = Moderately consolidated
 W = Well consolidated

II. BEDDING OF SEDIMENTARY ROCKS

SPLITTING PROPERTY	THICKNESS (IN FEET)	STRATIFICATION
Massive	Greater than 4.0	Very thick-bedded
Blocky	2.0 to 4.0	Thick-bedded
Slabby	0.2 to 2.0	Thin-bedded
Flaggy	0.05 to 0.2	Very thin-bedded
Shaly or Platy	0.01 to 0.05	Laminated
Papery	Less than 0.01	Thinly laminated

III. FRACTURING

INTENSITY	SIZE OF PIECES (IN FEET)
Very little fractured	Greater than 4.0
Occasionally fractured	1.0 to 4.0
Moderately fractured	0.5 to 1.0
Closely fractured	0.1 to 0.5
Intensely fractured	0.05 to 0.1
Crushed	Less than 0.05

IV. HARDNESS

1. **SOFT** - Reserved for plastic material alone.
2. **LOW HARDNESS** - Can be gouged deeply or carved easily with a knife.
3. **MODERATELY HARD** - Can be readily scratched by a knife; scratch leaves a heavy trace of dust and is readily visible after the powder is blown away.
4. **HARD** - Can be scratched with difficulty; scratch produces little powder and is often faintly visible.
5. **VERY HARD** - Cannot be scratched with knife blade; leaves a metallic streak.

V. STRENGTH

1. **PLASTIC** or very low strength
2. **FRIABLE** - Crumbles easily by rubbing with fingers.
3. **WEAK** - An unfractured specimen of such material will crumble under light hammer blows.
4. **MODERATELY STRONG** - Specimen will fracture with a few hammer blows.
5. **STRONG** - Specimen will withstand a few heavy ringing hammer blows and will yield with difficulty only dust and small flying fragments.

VI. WEATHERING The physical and chemical disintegration and decomposition of rocks and minerals by natural processes such as oxidation, reduction, hydration, solution, carbonation, and freezing and thawing.

- D. **DEEP** - Moderate to complete mineral decomposition; extensive disintegration; deep and thorough discoloration; many fractures, all extensively coated or filled with oxides, carbonates, and/or clay or silt.
- M. **MODERATE** - Slight change or partial decomposition of minerals; little disintegration; cementation little to unaffected. Moderate to occasional intense discoloration. Moderately coated fractures.
- L. **LITTLE** - No megascopic decomposition of minerals; little or no effect on normal cementation. Slight and intermittent or localized discoloration. Few stains on fracture surfaces.
- F. **FRESH** - Unaffected by weathering agents. No disintegration or discoloration. Fractures usually less numerous than joints.

**EAST BAY MUNICIPAL UTILITY DISTRICT
 OAKLAND, CALIFORNIA**

**WALNUT CREEK WTP
 IMPROVEMENTS PROJECT**

DRAWN BY: A. B. YIADOM


SCALE: NONE

DATE: April 2001

LOG OF BORING

PROJECT : Dam Seismic Evaluation
 LOCATION : Walnut Creek Clearwell
 LOGGED BY : Catherine Anderson
 CHECKED BY : Derek Kawaii

DATE : October 28, 1997
 CONTRACTOR : Pitcher Drilling
 EQUIPMENT : Failing 750
 JOB NUMBER : 56248

 TEST RESULTS	MOISTURE CONTENT %	DRY DENSITY (PCF)	BLOWS/FT*	DEPTH (FT)	SAMPLE NO.	DESCRIPTION
				0		BORING NO <u>MM -1</u> SURFACE ELEV. : 376.8
SG=2.75 LL=54, PI=33	27.4		19		MC-1	brown silty CLAY (CH), stiff (fill)
				5		
FINES=74.4% LL=52, PI=30	32.2		17		SPT-2	
				30		olive brown sandy SILT (ML), very stiff (fill)
LL=40, PI=8	27.4		30		SPT-3	
				10		brown silty SAND (SM), dense, with gravel and a few cobbles. Gravel is crushed sandstone, siltstone and claystone (fill)
TX-CU=2700 (1300) SG=2.69	27.4	94.5			P-4	
FINES=35.8%						
FINES=47.2%	30.4		34		SPT-5	
				15		
	27.6		38		SPT-6	
FINES=44.6%	29.6		26		SPT-7	
				20		
TX-CU=3100 (2600) FINES=34.9%	25.2	96.2			P-8	
FINES=42.6%	24.9		47		SPT-9	
				25		
	22.1		34		SPT-10	
FINES=44.3%	21.6		52		SPT-11	
				30		

LOG OF BORING

PROJECT : Dam Seismic Evaluation
 LOCATION : Walnut Creek Clearwell
 LOGGED BY : Catherine Anderson
 CHECKED BY : Derek Kawaii

DATE : October 28, 1997
 CONTRACTOR : Pitcher Drilling
 EQUIPMENT : Failing 750
 JOB NUMBER : 56248



BORING NO MM -1

SURFACE ELEV. : 376.8

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

FINES=38.8%

24.6

47

30

P-12

brown silty SAND (SM), dense, with gravel and a few cobbles. Gravel is crushed sandstone, siltstone, and claystone (fill)

SPT-13

22.3

34

35

SPT-14

FINES=42.9%

24.8

37

SPT-15

TX-CU=6600 (5100)

22.1

97.2

40

P-16

FINES=33.7%

LL=41, PI=14

25.7

30

SPT-17

45

FINES=27.9%

24.2

49

SPT-18

TX-CU=6400 (5900)

FINES=36.5%

24.1

92.7

50

P-19

TX-CU=4950 (6600)

P-20

FINES=44.8%

32.1

89.4

55

P-21

LL=39, PI=9

30.3

56

SPT-22

dark brown sandy SILT (ML), hard (fill)

TX-CU=3150 (2400)

6100 (4900)

8550 (7100)

30.2

89.8

P-23

60

LOG OF BORING

PROJECT : Dam Seismic Evaluation
 LOCATION : Walnut Creek Clearwell
 LOGGED BY : Catherine Anderson
 CHECKED BY : Derek Kawaii

DATE : October 28, 1997
 CONTRACTOR : Pitcher Drilling
 EQUIPMENT : Failing 750
 JOB NUMBER : 56248



MOISTURE CONTENT %	DRY DENSITY (PCF)	BLOWS/FT*	DEPTH (FT)	SAMPLE NO.
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BORING NO MM -1
 SURFACE ELEV. : 376.8

TEST RESULTS

DESCRIPTION

30.5		35	60	SPT-24
			65	SPT-25
		50	70	P-26
			75	SPT-27
		50/3"	80	
			85	
			90	

mottled dark brown sandy SILT (ML),
hard (fill)

grey SANDSTONE, SILTSTONE and
CLAYSTONE, friable to moderately strong,
moderately weathered

Bottom of Boring at 76.0'

LOG OF BORING

PROJECT : Dam Seismic Evaluation
 LOCATION : Walnut Creek Clearwell
 LOGGED BY : Catherine Anderson
 CHECKED BY : Derek Kawaii

DATE : November 5, 1997
 CONTRACTOR : Pitcher Drilling
 EQUIPMENT : Failing 750
 JOB NUMBER : 56248



BORING NO MM -2

SURFACE ELEV. : 359'

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

				0		dark brown sandy SILT (ML), stiff (fill)
FINES=52.7% LL=42, Pi=25	17.9		20	SPT-1		
LL=53, Pi=31	31.5		14	SPT-2	gravelly	
FINES=38.3% LL=54, Pi=22	34.5		25	SPT-3	brown silty SAND (SM), medium dense (fill)	
TX-CU=1400 (1100) SG=2.61 LL=40, Pi=7	27.7	91.3	10	P-4	reddish brown silty SAND (SM) with gravel. Gravel is crushed sandstone, siltstone, and claystone (fill)	
FINES=30.4%	28.6		29	SPT-5		
	31.6		15	SPT-6		
FINES=32.2%	35.3		23	SPT-7		
			20	P-8		
FINES=36.3%	26.2		28	SPT-9		
			50/5"	SPT-10	brown SANDSTONE, SILTSTONE, CLAYSTONE, friable to moderately strong, deep to moderately weathered	
			50/3"	SPT-11		
			30			

LOG OF BORING

PROJECT : Dam Seismic Evaluation

DATE : November 5, 1997

LOCATION : Walnut Creek Clearwell

CONTRACTOR : Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawai

JOB NUMBER : 56248



MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

BORING NO MM -2

SURFACE ELEV. :

TEST RESULTS

DESCRIPTION

30

P-12

orange-brown clayey SANDSTONE, weak,
deeply weathered

50/6"

SPT-13

Bottom of Boring at 33.0'

35

40

45

50

55

60

LOG OF BORING

PROJECT : Dam Seismic Evaluation
 LOCATION : Walnut Creek Clearwell
 LOGGED BY : Catherine Anderson
 CHECKED BY : Derek Kawaii

DATE : November 3, 1997
 CONTRACTOR : Pitcher Drilling
 EQUIPMENT : Failing 750
 JOB NUMBER : 56248



BORING NO MM -3

SURFACE ELEV. : 376'

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

FINES=29%

24.3

49

SPT-1

brown clayey SILTY SAND (SM), medium dense with gravel. Gravel is crushed sandstone, siltstone and claystone (fill)

LL=48;PI=16

31.4

16

SPT-2

sandy CLAY layer

LL=45;PI=16

36.1

24

SPT-3

TX-CU=1750 (2400)

24.5

98.5

10

P-4

sandy CLAY layer

LL=30;PI=4
FINES=23.4%

28

SPT-5

clayey SAND layer

32.8

29

SPT-6

25.1

30

SPT-7

TX-CU=5700 (4500)

36.4

81.8

20

P-8

LL=40;PI=13
FINES=29.7%

35.4

26

SPT-9

34.5

22

SPT-10

22.3

48

SPT-11

30

LOG OF BORING

PROJECT : Dam Seismic Evaluation

DATE : November 3, 1997

LOCATION : Walnut Creek Clearwell

CONTRACTOR : Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NUMBER : 56248



BORING NO MM -3

SURFACE ELEV. : 376'

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

LL=36, PI=5

25.9

28

30

P-12

brown silty SAND (SM), medium dense,
with gravel. Gravel is crushed sandstone,
siltstone and claystone (fill)

TX-CU=4400 (4500)

SG=2.65

25.8

95.2

35

P-14

FINES=29.4%
LL=42, PI=12

29.3

35

35

SPT-15

grey

FINES=27.3%

40

P-16

LL=39, PI=8

31.2

27

27

SPT-17

LL=37, PI=6

30.6

45

45

SPT-18

TX-CU=6200 (6400)

FINES=35.4%
LL=44, PI=13

30.8

40

40

SPT-19

Orange-brown

FINES=34.7

29.8

90.0

50

P-20

greyish-brown SANDSTONE and SILTSTONE,
friable to moderately strong, deep to
moderately weathered

FINES=40.7%
LL=39, PI=5

24.8

55

55

SPT-21

50

SPT-22

50/5"

SPT-23

60

LOG OF BORING

PROJECT : Dam Seismic Evaluation
 LOCATION : Walnut Creek Clearwell
 LOGGED BY : Catherine Anderson
 CHECKED BY : Derek Kawaii

DATE : November 3, 1997
 CONTRACTOR : Pitcher Drilling
 EQUIPMENT : Failing 750
 JOB NUMBER : 56248



BORING NO MM -3

SURFACE ELEV. : 376'

TEST RESULTS

MOISTURE CONTENT %
 DRY DENSITY (PCF)
 BLOWS/FT*
 DEPTH (FT)
 SAMPLE NO.

DESCRIPTION

TX-CU=7550 (7610)

27.0

95.9

50/3"

60

P-24

65

SPT-25

70

75

80

85

90

dark grey SILTSTONE, moderately strong, moderately weathered

Bottom of Boring at 65.5'

LOG OF BORING

PROJECT : Dam Seismic Evaluation
 LOCATION : Walnut Creek Clearwell
 LOGGED BY : Catherine Anderson
 CHECKED BY : Derek Kawaii

DATE : November 5, 1997
 CONTRACTOR : Pitcher Drilling
 EQUIPMENT : Failing 750
 JOB NUMBER : 56248



BORING NO MM-4

SURFACE ELEV. : 376'

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

TEST RESULTS	MOISTURE CONTENT %	DRY DENSITY (PCF)	BLOWS/FT*	DEPTH (FT)	SAMPLE NO.	DESCRIPTION
				0		brown sandy CLAY (CL), hard (fill)
LL=36, PI=16	12.6		36		SPT-1	
				5		tan silty SAND (SM), medium dense, with gravel (fill)
FINES=39.2%	23.8		22		SPT-2	
LL=45, PI=17	33.0		31		SPT-3	
				10		
TX-CU=1800 (1200)	32.9	84.0			P-4	
FINES=23.1%	32.9		27		SPT-5	reddish brown
				15		
LL=58, PI=29	35.3		27		SPT-6	reddish brown gravelly CLAY (CH) with sand, very stiff (fill)
LL=55, PI=28	31.9		25		SPT-7	silt layer
				20		
TX-CU=2650 (2600)	33.4	87.9			P-8	alternating layers of brown silty SAND (SM), medium dense; and grey sandy SILT (ML), stiff, both with gravel and some cobbles (fill)
SG=2.72						
FINES=18.4%	36.8		28		SPT-9	
LL=55, PI=22						
	24.3		41		SPT-10	
FINES=51.2%				25		
LL=38, PI=9	27.3		35		SPT-11	
				30		

LOG OF BORING

PROJECT : Dam Seismic Evaluation
 LOCATION : Walnut Creek Clearwell
 LOGGED BY : Catherine Anderson
 CHECKED BY : Derek Kawaii

DATE : November 5, 1997
 CONTRACTOR : Pitcher Drilling
 EQUIPMENT : Failing 750
 JOB NUMBER : 56248



MOISTURE CONTENT %	DRY DENSITY (PCF)	BLOWS/FT*	DEPTH (FT)	SAMPLE NO.
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BORING NO MM -4

SURFACE ELEV. : 376'

TEST RESULTS

DESCRIPTION

TX-CU=4300 (4100)
 7050 (5000)
 9750 (7000)

25.3

98.1

50/5"

30

35

40

45

50

55

60

P-12

SPT-13

brown sandy CLAY (CL), hard (fill)

tan SILTSTONE, weak to moderately strong, deeply weathered

Bottom of Boring at 34.0'

LOG OF BORING

PROJECT : Dam Seismic Evaluation
 LOCATION : Walnut Creek Clearwell
 LOGGED BY : Catherine Anderson
 CHECKED BY : Derek Kawai

DATE : November 6, 1997
 CONTRACTOR : Pitcher Drilling
 EQUIPMENT : Failing 1500
 JOB NUMBER : 56248



BORING NO MM -5

SURFACE ELEV. : 315'

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

LL=47, PI=18

27.5

25

SPT-1

orange-brown sandstone COBBLES and GRAVEL (GP), medium dense (fill)

LL=45, PI=16

32.7

21

SPT-2

brown gravelly SILT (ML), very stiff (fill)

11

SPT-3

brown SANDSTONE, moderately strong, moderately weathered

10

P-4

P-5

50/4"

SPT-6

Bottom of Boring at 14.0'

15

20

25

30

LOG OF BORING

PROJECT : WC WTP Improvements
 LOCATION : Walnut Creek Filter Plant
 LOGGED BY : Catherine Anderson
 CHECKED BY : Derek Kawai

DATE : November 4, 1997
 CONTRACTOR : Pitcher Drilling
 EQUIPMENT : Failing 750
 JOB NUMBER : 25692



MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

BORING NO MN-2

SURFACE ELEV. :

TEST RESULTS

DESCRIPTION

LL = 36, PI = 5

14

78

SPT-1

tan, sandy, silty CLAY (CL)

% fines = 74.2
 LL = 34, PI = 1

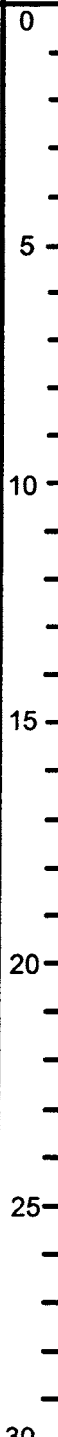
17

80

SPT-2

tan, deeply to moderately weathered, sandy SILTSTONE

Bottom of Boring at 6.5'



LOG OF BORING

PROJECT : WC WTP Improvements
 LOCATION : Walnut Creek Filter Plant
 LOGGED BY : Catherine Anderson
 CHECKED BY : Derek Kawaii

DATE : October 30, 1997
 CONTRACTOR : Pitcher Drilling
 EQUIPMENT : Failing 750
 JOB NUMBER : 25692



BORING NO MN-3

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

% fines = 35.9

% fines = 60.4

TX-UU = 1619 (1195)
SG = 2.62

TX-UU = 853 (2405)
SG = 2.62

21.6

95.9

42/6"

0

40

5

10

15

20

25

30

SPT-1

SPT-2

P-3

P-4

brown, sandy CLAY (CL)

gravelly, silty SAND (SC)

brown, moderately to deeply weathered
SILTSTONE

tan, moderately weathered and fractured
SANDSTONE, very fine grained

Bottom of Boring at 23.5'

LOG OF BORING

PROJECT : WC WTP Improvements
 LOCATION : Walnut Creek Filter Plant
 LOGGED BY : Catherine Anderson
 CHECKED BY : Derek Kawaii

DATE : October 27, 1997
 CONTRACTOR : Pitcher Drilling
 EQUIPMENT : Failing 750
 JOB NUMBER : 25692



BORING NO MN-4

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

LL = 52, PI = 14

27

37

SPT-1

ASPHALT CONCRETE
 BASE ROCK
 dark brown CLAY

SG = 2.55

30 3/4"

MC-2

brown, deeply weathered and fractured
 CLAYSTONE
 with sand

% fines = 45.7

40 1/4"

SPT-3

brown to orange, deeply weathered and
 fractured SANDSTONE, with calcite seams,
 fine grained,

TX-UU = 4449 (1800)
 SG = 2.57

22.1

100.8

15

P-4

very dark grey, slightly weathered
 SILTSTONE

20

P-5

25

harder drilling at 29.5'

30

LOG OF BORING

PROJECT : WC WTP Improvements
 LOCATION : Walnut Creek Filter Plant
 LOGGED BY : Catherine Anderson
 CHECKED BY : Derek Kawaii

DATE : October 27, 1997
 CONTRACTOR : Pitcher Drilling
 EQUIPMENT : Failing 750
 JOB NUMBER : 25692



MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

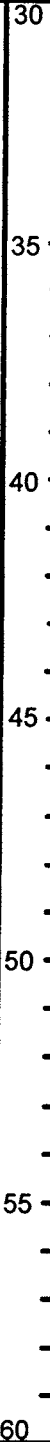
SAMPLE NO.

BORING NO MN-4

SURFACE ELEV. :

TEST RESULTS

DESCRIPTION



P-6



very dark grey, slightly weathered
SILTSTONE with organic and calcite seams

Bottom of Boring at 32.5'

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : November 4, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawai

JOB NO. : 25692



MOISTURE CONTENT %	DRY DENSITY (PCF)	BLOWS/FT*	DEPTH (FT)	SAMPLE NO.
--------------------	-------------------	-----------	------------	------------

BORING NO MN-8

SURFACE ELEV. :

TEST RESULTS

DESCRIPTION

TX-UU = 9945 (1195)
SG = 2.71

19.8

104.0

50/4"

SPT-1

ASPHALT CONCRETE
BASE ROCK

tan, friable, silty SANDSTONE, fine grained

50/4"

SPT-2

tan, friable, deeply weathered SANDSTONE with a lot of oxidized seams

10

P-3

50/6"

SPT-4

Bottom of Boring at 13.0'

15

20

25

30

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 31, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-9

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

LL = 38, PI = 18

20

25

SPT-1

4" ASPHALT CONCRETE
6" BASE ROCK
brown, sandy CLAY (fill) (CL)
bluish grey, gravelly

LL = 43, PI = 21

25

11

SPT-2

greyish brown, stiff, sandy SILT (ML), with clay

% fines = 65.6

15

SPT-3

with gravels

% fines = 44.2

22

63

SPT-4

mottled brown, deeply weathered,
SANDSTONE, with organics, fine grained,

TX-UU = 382 (2203)
SG = 2.57

25.6

96.4

P-5

brown, deeply weathered and fractured
SILTSTONE
cuttings with clay

50/4"

SPT-6

grey, moderately weathered, CLAYSTONE,
with calcite seams

Bottom of Boring at 24.0'

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 31, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-10

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

SG = 2.61

17.2

18.3

16.0

50/5"

0

SPT-1

SPT-2

SPT-3

P-4

SPT-5

3" ASPHALT CONCRETE
BASE ROCK

grey, very dense, silty SAND (SM) with
cemented gravels, (fill)

grey, friable, deeply weathered and friable,
clayey SANDSTONE, with bluish black clay
seams

harder drilling at 14.5'

brown

with oxidized seams

Bottom of Boring at 18.0'

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : November 6, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

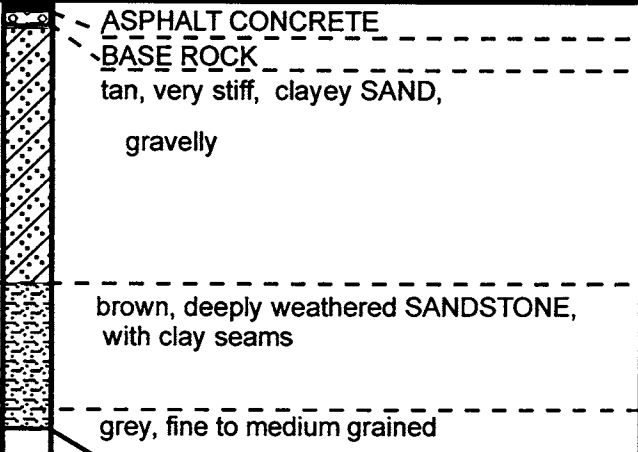
BORING NO MN-11

SURFACE ELEV. :

TEST RESULTS

DESCRIPTION

0
5
10
15
20
25
30



Bottom of Boring at 9.0'

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 27, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-13

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

TX-UU = 3581 (605)
SG = 2.63

17.8

109.3

50/5"

0

5

10

15

50/5"

20

25

30

SPT-1

P-2

P-3

SPT-4

P-4

tan-grey, moderately weathered and fractured SANDSTONE, fine grained,

Bottom of Boring at 22.5'

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 28, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-14

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

LL = 52, PI = 33

15.0

41

SPT-1

brown, sandy CLAY (CL) (fill)

dark brown, hard, sandy CLAY, (CH)

SG = 2.63

19.8

112.7

10

P-3

tan, deeply weathered SANDSTONE,
fine grained,

slightly to moderately weathered

SG = 2.55

18.9

103.4

15

P-4

soft zone between 17.5' and 18.0'

20

Bottom of Boring at 20.0'

25

30

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 23, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-15

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

				0		4" ASPHALT CONCRETE
						4" BASE ROCK
	17					brown, sandy CLAY (CL) (fill)
				15	SPT-1	dark brown, stiff, sandy CLAY (CH)
						grey gravel (GP)
				5		brown, clayey SAND (SC) (fill)
LL = 43, PI = 26	23.6	104.3		25	MC-2	gravelly
						dark brown, stiff CLAY (CH)
LL = 58, PI = 29	23			10	SPT-3	
						dark greyish brown, with calcite
SG = 2.5	28.7	93.7		15	MC-4	
						brown, very stiff
	19.3			20	SPT-5	
						orange brown, deeply weathered silty CLAYSTONE
LL = 68, PI = 43	28			25	MC-6	
				30		

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 23, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-15

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

TX-UU = 3316 (4205)
SG = 2.6

26.1

99.7

43

30

SPT-7

orange brown, deeply weathered and fractured, silty CLAYSTONE

harder drilling between 31' and 34'

dark green cuttings at 34'

dark grey SILTSTONE / SHALE,
vertical fractures

started to use rock bit at 35'

TX-CU = 4617 (5400)
SG = 2.63

25.1

116.8

66

35

MC-8

40

45

P-9

Bottom of Boring at 47.5'

50

55

60

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 23, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-16

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

LL = 62, PI = 34
SG = 2.71

28.8

92.1

29

MC-1

dark brown, sandy CLAY

LL = 65, PI = 36

23

35

SPT-2

orange brown, deeply weathered and fractured CLAYSTONE

harder drilling at 7'

LL = 66, PI = 36

29

29

SPT-3

greyish brown to orange brown

TX-CU = 7044 (1800)

19.9

103.4

16

MC-4

19.3

50/6"

SPT-5

mottled brown and orange brown, moderately weathered
changed to rock bit at 20'

TX-UU = 3409 (2995)

18.9

107.3

25

P-6

very dark grey SILTSTONE / SHALE

30

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 22, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-16

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

TX-CU = 4970 (2995)
= 5900 (4003)
= 7063 (4997)
SG = 2.64

11.9

116.5

30/3"

30

SPT-7

very dark grey SILTSTONE/SHALE

35

35

harder drilling at 38'

40

P-8

Bottom of Boring at 42.5'

45

50

55

60

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 23, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-17

SURFACE ELEV. :

TEST RESULTS

DESCRIPTION

TEST RESULTS	MOISTURE CONTENT %	DRY DENSITY (PCF)	BLOWS/FT*	DEPTH (FT)	SAMPLE NO.	DESCRIPTION
LL = 51, PI = 32	14		20	0		brown, stiff, gravelly sandy CLAY (CL)
TX-CU = 857 (504) = 992 (994)	22.9	84.2	33	5	STP-1 MC-2	orange brown, deeply weathered , silty CLAYSTONE
LL = 79, PI = 41	34		30	10	SPT-3	
TX-CU = 1853 (1800) SG = 2.53	32.7	87.2	42	15	MC-4	
	32.8		38	20	SPT-5	moderately weathered
TX-UU = 5564 (2995) SG = 2.5	30.4	88.8	70	25	MC-6	
				30		dark grey SILTSTONE/SHALE

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 23, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-17

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

27.2

45/6"

30

SPT-7

very dark grey SILTSTONE/SHALE

35

harder drilling at 35'

40

P-8

TX-CU = 13358 (4997)
SG = 2.43

12.7

112.7

Bottom of Boring at 42.5'

45

50

55

60

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 21, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-18

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

LL = 40, PI = 20

LL = 38, PI = 13

SG = 2.58

LL = 45, PI = 24

TX-CU 2007 (2405)
SG = 2.47

LL = 64, PI = 30

21

23.3

28

29.3

34

104.8

88.9

38

33

21

17

23

28

0

38

5

33

10

15

17

20

23

25

30

SPT-1

SPT-2

MC-3

SPT-4

MC-5

SPT-6

brown, sandy, silty CLAY (CL) with few
gravels (fill)

with sand

greenish grey

mottled grey

stiffer drilling at 19.0'

greyish brown, deeply weathered and
fractured CLAYSTONE

mottled dark tan and orange

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 21, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-18

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

TX-UU = 1528 (3600)

33.1

86.9

61/16

30

MC-7

dark grey and mottled orange, moderately weathered and fractured, silty CLAYSTONE

48.4

32

35

SPT-8

light grey

24.4

63

45

SPT-10

slightly clayey, fractured

TX-UU = 901 (6005)
SG = 2.62

20.4

109.6

50

P-11

harder drilling at 53'

18.9

50/5"

55

SPT-12

softer drilling and with brown rock fragments at 59'

60

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 21, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-18

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

TX-CU = 2508 (4997)
= 3070 (6005)
= 3270 (6998)
SG = 2.58

20.3

105.4

50/5"

60

P-13

harder drilling at 60.5'

70

MC-14

75

TX-UU = 1708 (8006)

18.1

110.1

80

P-15

dark grey to black silty CLAYSTONE
and SHALE

Bottom of Boring at 82.0'

90

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 22, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-19

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

LL = 85, PI = 54

24

9

0

SPT-1

dark brown, sandy CLAY (CH) (fill)

TX-CU = 4384 (605)
SG = 2.58

21.7

90.4

5

MC-2

orange brown, silty CLAY (CH) (fill)

mottled tan orange brown, deeply weathered
SILTSTONE with calcite on fracture surfaces

LL = 68, PI = 36

34

28

10

SPT-3

greenish tan, deeply weathered CLAYTONE,
with organic clay seams

TX-CU = 2215 (1800)
= 4217 (2405)
= 5347 (3600)

25.9

90.3

15

MC-4

greyish brown

28.2

53

20

SPT-5

light brown

TX-UU = 6837 (2995)
SG = 2.59

30.4

90.6

40/4"

25

MC-6

moderately weathered

30

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 22, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawai

JOB NO. : 25692



BORING NO MN-19

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

TX-CU = 5738 (4795) SG = question	32	93.0	48	30	SPT-7	brown silty CLAYSTONE, with fractures at 45 degrees, deeply weathered
			50/5"	40	MC-8	

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : November 5, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-20

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

LL = 68, PI = 38

24

38

SPT-1

brown, gravelly, sandy CLAY (CL) (fill)

LL = 47, PI = 17

17

43/6"

SPT-2

tan, deeply weathered SILTSTONE

Bottom of Boring at 7'

0
5
10
15
20
25
30

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 24, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-21

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

LL = 78, PI = 52

21

25

SPT-1

BASE ROCK

brown, stiff, sandy CLAY (CH)

LL = 48, PI = 27

19

13

SPT-2

orange brown, deeply weathered
SILTSTONE

LL = 71, PI = 37
TX-UU = 2545 (1195)
SG = 2.58

30.5

88.2

21

MC-3

orange brown, deeply weathered and
fractured CLAYSTONE

becomes harder drilling at 13.5'

LL = 64, PI = 29

34

24

SPT-4

rock fragments, calcite and carbonaceous
materials

TX-UU 4235 (2390)
SG = 2.66

22.3

100.1

58

MC-5

dark grey to tan orange, deeply weathered
SILTSTONE / SHALE with oxidized and
calcareous seams

20.7

59/16'

SPT-6

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 24, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-21

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

TX-UU = 4328 (3499)
SG = 2.71

26.5

98.1

33/6'

30

MC-7

brown, moderately weathered and fractured
CLAYSTONE

dark grey SILTSTONE chips in drilling fluid
very hard drilling at 35'

Bottom of Boring at 35'

40

45

50

55

60

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 30, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-22

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

TX-UU = 1085 (1195)
SG = 2.58

10.5

35/6"

SPT-1

5.8

50/6"

STP-2

17.5

113.2

10

P-3

clay seam

TX-UU 9735 (2405)
SG = 2.57

20

P-4

brown, moderately weathered and fractured
SANDSTONE, fine grained

25

30

LOG OF BORING

PROJECT : WC WTP Improvements

DATE : October 30, 1997

LOCATION : Walnut Creek Filter Plant

CONTRACTOR: Pitcher Drilling

LOGGED BY : Catherine Anderson

EQUIPMENT : Failing 750

CHECKED BY : Derek Kawaii

JOB NO. : 25692



BORING NO MN-22

SURFACE ELEV. :

TEST RESULTS

MOISTURE
CONTENT %

DRY
DENSITY (PCF)

BLOWS/FT*

DEPTH (FT)

SAMPLE NO.

DESCRIPTION

TX-UU = 2282* (3600)
SG = 2.63

14.8

114.5

30

P-5

slightly to moderately weathered
SANDSTONE, fine-grained

* sample stopped
deforming at 0.7%
strain

Bottom of Boring at 32.0'

35

40

45

50

55

60

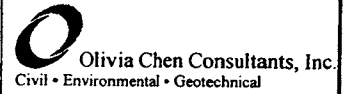
APPENDIX B

LOGS OF BORINGS (Olivia Chen Consultants)

**LOG OF BORING
MN23**

DRILLING DATE: 2-12-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Failing 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: CT
 CHECKED BY: CBK



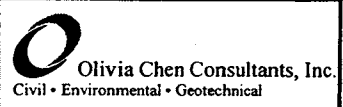
DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
0										
5	▲	1	87	[Hatched Pattern]	LEAN CLAY with Sand (CL), light brownish gray, hard, dry to moist, gravel-sized sandstone fragments (fill).	83.5	18.0	41	19	72.7
5	△	2	39	[Cross-hatched Pattern]	SANDY LEAN CLAY (CL-ML), sandy.		20.9	40	15	69.4
10	△	3	52	[Cross-hatched Pattern]	SANDY LEAN CLAY, dark gray with rust striations, hard, dry, sandy.		20.3	35	9	54.2
15	△	4	37	[Hatched Pattern]	LEAN CLAY with Sand (CL), dark greenish gray, hard, moist, medium to high toughness, plastic, organic odor (colluvium).		25.0	39	18	82.7
20	△	5	17	[Hatched Pattern]			22.2			
25	■	6		[Hatched Pattern]	Olive brown with rust striations, moist, strongly cemented.	106.3	21.4	37	17	83.9
30	△	7	50/2"	[Hatched Pattern]	Yellowish brown, hard, weakly cemented.					
35	□	8		[Cross-hatched Pattern]	SANDSTONE, dark gray, moist, silty, closely fractured, slightly to moderately weathered, weak to moderately strong.					
35	△	9	50/3"	[Hatched Pattern]	Brownish beige with rust striations, dry, weakly cemented.		17.1			76.4
35	□			[Cross-hatched Pattern]	SILTSTONE, dark gray, moist, closely to moderately fractured, strong.					

LOG OF BORING L:\EBMUD\1320WA-1\BORINGS\GINT\PROJECTS\FINAL\132001A.GPJ_OLV_CHEN.GDT 4/10/01

**LOG OF BORING
MN23**

DRILLING DATE: 2-12-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Falling 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: CT
 CHECKED BY: CBK



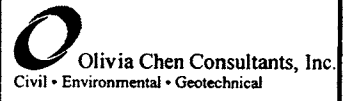
DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
43.25		10		XXXXXX XXXXXX XXXXXX	SILTSTONE, dark gray, moist, closely to moderately fractured, strong. (Continued)		18.9			
43.25		11	50/3"		Bottom of boring at 43.25' below ground surface.					
45										
50										
55										
60										
65										
70										
75										

LOG OF BORING L:\EBMUD\1320WA-1\BORINGS\GINT\PROJECTS\FINAL\132001A.GPJ OLV CHEN.GDT 4/10/01

**LOG OF BORING
MN 23A**

DRILLING DATE: 1-4-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Failing 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: SI
 CHECKED BY: CBK



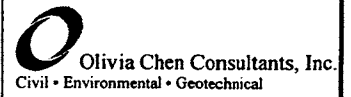
DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
5		1	50/5.5"		LEAN CLAY with Sand (CL), light brownish gray, very dense, dry, (fill).		12.6	45	22	84.3
5		2	49		Small rock fragments present.					
10		3	50/3"		LEAN CLAY with Sand (CL), dark brown, hard, moist, medium toughness, none to low dilatency (fill).					
15		4	50/3"							
20		5	50/3"		SANDSTONE, greenish gray, moist, silty, fine-grained, moderately weathered, friable to moderately strong, weakly cemented.		18.8			
25		6	50/3"							
30		7	50/2"				17.8			
35		8	50/3"							

LOG OF BORING L:\B\MUDY\320WA-1\BORINGS\GINT\PROJECTS\FINAL\132001A.GPJ_OLV.CHEN.GDT_4/10/01

**LOG OF BORING
MN 23A**

DRILLING DATE: 1-4-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Failing 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: SI
 CHECKED BY: CBK



DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
40.25		950/2.5			SANDSTONE, greenish gray with rust striations, moist, weakly cemented.		20.1			
45					Bottom of boring at 40.25' below ground surface. Piezometer installed on 1/4/01; refer to completion diagram. Groundwater not encountered during field visit on 1/22/01.					
50										
55										
60										
65										
70										
75										

LOG OF BORING L:\EBMUD\1320WA-1\BORINGS\GINT\PROJECTS\FINAL\132001A.GPJ OLV CHEN.GDT 4/10/01

**LOG OF BORING
MN 24**


DRILLING DATE: 1-4-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Failing 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

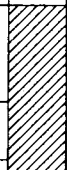
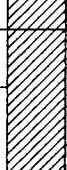
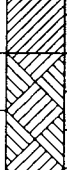
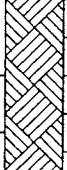
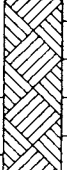
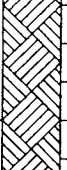
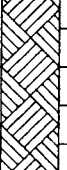

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: SI
 CHECKED BY: CBK



DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
0					4" ASPHALT.					
5		1	50/6"		SILTY SAND / CLAYEY SAND (SC-SM), light brownish beige some rust striations, dry, sandstone fragments.		13.4	33	9	47.9
		2	50/4"					17.2		
10		3	50/4"		SANDSTONE, beige, dry, silty, fine-grained, moderate cementation, slight to moderately weathered, moderately strong.		21.0			45.0
15		4	50/4.5"		SILTSTONE, brownish orange, dry to moist, closely fractured, rust striations (iron stains), slight to moderately weathered, moderately strong.					
20		5	50/6"				25.8			
25		6	50/4"							
30		7			Moderately fractured.	102.6	21.2			
35					Bottom of boring at 33' below ground surface. Piezometer installed on 1/4/01; refer to completion diagram. Groundwater not encountered during field visit on 1/22/01.					

LOG OF BORING L:\EBMUDY\1320WA-1\BORINGS\GINT\PROJECTS\FINAL\132001A.GPJ OLV, CHEN GDT 4/10/01

LOG OF BORING MN 25	DRILLING DATE: 1-3-01	SURFACE ELEV: N/A	 Olivia Chen Consultants, Inc. Civil • Environmental • Geotechnical
	DRILLING METHOD: Mud Rotary	DATUM: Ground Surface	
	DRILL RIG TYPE: Failing 1500	LOGGED BY: KG	
	HAMMER TYPE: 140 LBS. SAFETY HAMMER	CHECKED BY: CBK	

DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
5		1	46		LEAN CLAY with Sand (CL), grayish brown with white & orange mottles, hard, moist, (fill).		19.8	43	20	70.2
5		2	52		LEAN CLAY with Sand (CL), dark gray, hard, dry to moist, (fill).		20.2	40	18	74.1
10		3	25		CLAYSTONE, tannish beige, moist, deeply to moderately weathered, weak to moderately strong, moderate cementation.		28.6			
15		4	46		Tannish beige with orange striations.					
20		5	29				29.9			
25		6			Friable to plastic.		80.1	38.4		
30		7	68		CLAYSTONE, dark gray, moist, slightly to moderately weathered, moderately strong, moderate cementation.		20.9			
35		8	93		CLAYSTONE, silty, slightly weathered, moderately strong.					

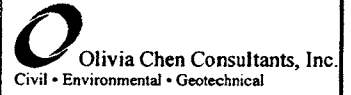
LOG OF BORING L:\EBMUD\1320WA-1\BORINGS\GINT\PROJECTS\FINAL\132001A.GPJ OLV. CHEN.GDT 4/10/01

JOB NO. 1320.01	PROJECT: Walnut Creek Water Treatment Plant	SHEET 1 of 2	FIGURE 3
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**LOG OF BORING
MN 25**

DRILLING DATE: 1-3-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Failing 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

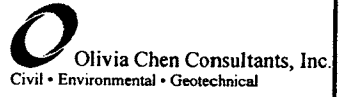
SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: KG
 CHECKED BY: CBK



DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
45		9	88		CLAYSTONE, tannish beige, moist, deeply to moderately weathered, weak to moderately strong, moderate cementation. <i>(Continued)</i> CLAYSTONE, silty, slightly weathered, moderately strong.	121.5	14.3			
50		10			Bottom of boring at 48' below ground surface. Piezometer installed on 1/3/01; refer to completion diagram. Groundwater encountered at 23 feet below ground surface during field visit on 1/22/01.					

LOG OF BORING L:\EBMUD\1320\WA-1\BORINGS\GINT\PROJECTS\FINAL\132001A.GPJ OLV CHEN.GDT 4/10/01

LOG OF BORING MN 26	DRILLING DATE:	1-2-01	SURFACE ELEV:	N/A
	DRILLING METHOD:	Mud Rotary	DATUM:	Ground Surface
	DRILL RIG TYPE:	Failing 1500	LOGGED BY:	KG
	HAMMER TYPE:	140 LBS. SAFETY HAMMER	CHECKED BY:	CBK



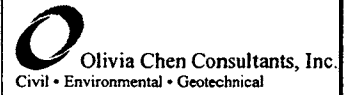
DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
					4" ASPHALT.					
					6" CONCRETE.					
5		1	27		CLAYSTONE, reddish brown with rust striations, dry to moist, silty, slightly to moderately fractured, weak to moderate cementation.		29.7			
		2	36		Slightly to moderately weathered, weak to moderately strong.		28.9			
10		3	52							
15		4				93.0	28.9			
20		5	80				28.6			
25		6	50/6"							
30		7	50/5.5"							
35					Bottom of boring at 30.5' below ground surface. Piezometer installed on 1/2/01; refer to completion diagram. Groundwater encountered at 6 feet below ground surface during field visit on 1/22/01.					

LOG OF BORING L:\EBMUD\1320WA-1\BORINGS\GINT\PROJECTS\FINAL\132001A.GPJ_OLV_CHEN_GDT_4/10/01

**LOG OF BORING
MN 27**

DRILLING DATE: 1-9-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Failing 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: KG
 CHECKED BY: CBK



DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
5		1	39		SANDY LEAN CLAY (CL), greenish brown with orange and gray mottles, dense, dry, (fill).		14.8	46	25	66.7
5		2	28		SANDY LEAN CLAY, medium dense, silty.		19.6	44	23	
10		3	9		FAT CLAY (CH), dark gray, stiff, moist, none to low dilatency, low to medium toughness, highly plastic (colluvium).		36.2	72	50	89.8
15		4	17		FAT CLAY.	88.5	32.5	76	52	89.8
15		5	15			85.9	34.5			
20		6	62		CLAYSTONE, dark gray, moist, slightly to moderately weathered, rust striations, friable to weak.	91.1	30.7			
25		7			Weak to moderately strong.	97.9	26.7			
30		8	50/4.5							
30.4	Bottom of boring at 30.4' below ground surface. Piezometer installed on 1/9/01; refer to completion diagram. Groundwater encountered at 21 feet below ground surface during field visit on 1/22/01.									

LOG OF BORING L:\EBMUD\1320WA-1\BORINGS\INT\PROJECTS\FINAL\132001A.GPJ_OLV.CHEN.GDT_4/10/01

**LOG OF BORING
MN 28A**

DRILLING DATE: 1-3-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Failing 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: KG
 CHECKED BY: CBK



DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
5		1	26		LEAN CLAY with Sand (CL), brownish yellow, very stiff, dry, (fill).		14.0	38	17	71.6
5		2	45		LEAN CLAY with Sand (CL), brownish yellow with orange and white mottles, hard, dry, (fill).		17.6	46	21	77.2
10		3	19		NO RECOVERY, very stiff.					
15		4	30		CLAYSTONE, grayish brown with orange, gray, and white mottles, dry to moist, moderate cementation, moderately weathered, calcite veins, weak to moderately strong.		29.8			
20		5				87.3	35.4			
25		6	44		CLAYSTONE/SILTSTONE, grayish brown with orange, gray, and white mottles, rust striations, dry to moist, moderate cementation, moderately weathered, calcite seams, closely to intensely fractured, moderately strong.		24.3			
30		7	90		CLAYSTONE, silty.		24.5			
35					Bottom of boring at 31.5' below ground surface. Piezometer installed on 1/3/01; refer to completion diagram. Groundwater not encountered during field visit on 1/22/01.					

LOG OF BORING L:\EBMUD\1320WA-1\BORINGS\GINTW\PROJECTS\FINAL\132001A.GPJ OLV, CHEN GDT 4/10/01

JOB NO. 1320.01

PROJECT: Walnut Creek Water Treatment Plant

SHEET 1 of 1

FIGURE 6

**LOG OF BORING
MN 29A**

DRILLING DATE: 1-9-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Failing 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: KG
 CHECKED BY: CBK



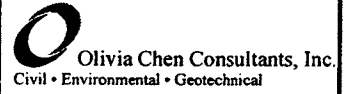
DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
0					2" ASPHALT.					
4.5		1	22		CLAYSTONE, brownish yellow with rust striations, moist, silty, moderately weathered, moderate cementation, weak.		30.3			
6.5		2	38		SILTSTONE, brownish yellow with rust striations, dry to moist, clayey, moderately weathered, moderate cementation, weak.		30.7			
11.5		3	31		Closely fractured.		29.3			
16.5		4	51				29.8			
21.5		5			CLAYSTONE, dark gray, moist, silty, closely fractured, moderately weathered, weak to moderately strong, weak cementation.	94.3	27.3			98.1
26.5		6	50/4"		Platy.		25.7			
31.5		7	50/3.5"		SILTSTONE, clayey, platy, slightly to moderately weathered, moderately strong.		25.1			
30.3	Bottom of boring at 30.3' below ground surface. Piezometer installed on 1/9/01; refer to completion diagram. Groundwater encountered at 11.5 feet below ground surface during field visit on 1/22/01.									

LOG OF BORING L:\EBMUD\1320WA-1\BORINGS\GINT\PROJECTS\FINAL\132001A.GPJ OLV CHEN.GDT 4/10/01

**LOG OF BORING
MN 30**

DRILLING DATE: 1-2-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Failing 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: KG
 CHECKED BY: CBK



DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
5		1	65		SANDY LEAN CLAY (CL), grayish brown with white mottles, dry to moist, sandstone fragments (fill).		12.8	47	26	67.5
		2	39		LEAN CLAY with Sand (CL).		8.5	32	13	76.4
10		3	24		CLAYSTONE, brownish beige with rust striations, moist, moderately weathered, friable to weak, moderate cementation.		31.4			
15		4	26				32.0			
20		5	38		Closely fractured, moderately strong.		30.8			
25		6	52		Calcareous clay seams.		31.7			
30		7	57		SILTSTONE, clayey, slightly to moderately weathered, closely fractured, moderately strong.		29.9			
35					Bottom of boring at 31.5' below ground surface. Piezometer installed on 1/2/01; refer to completion diagram. Groundwater not encountered during field visit on 1/22/01.					

LOG OF BORING L:\EBMUD\1320WA-1\BORINGS\GINT\PROJECTS\FINAL\132001A.GPJ OLV CHEN GDT 4/10/01

JOB NO. 1320.01

PROJECT: Walnut Creek Water Treatment Plant

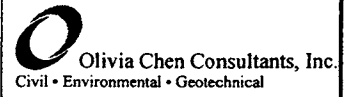
SHEET 1 of 1

FIGURE 8

**LOG OF BORING
MN 31**

DRILLING DATE: 1-8-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Falling 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: XS
 CHECKED BY: CBK



DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
0										
5		1	50/3"		SANDY LEAN CLAY (CL), grayish brown, hard, moist.		21.6			56.2
5		2	50/4"		SANDSTONE, grayish brown with rust striations, moderately weathered, weak to moderately strong.		19.6			
10		3	50/3"		More gray in color.					
15		4	50/2"		Slightly weathered.		14.9			
20		5	50/2"		Moderately strong to strong.					
25		6	50/3"		Closely fractured.	113.4	17.4			
30		7	50/4"							
35		8	50/3"		Rust color striations.		18.6			

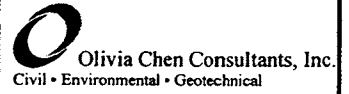
LOG OF BORING L:\EBMUD\1320WA-1\BORINGS\GINTW\PROJECTS\FINAL\132001A.GPJ_OLV_CHEM.GDT_4/10/01

Piezometer installed on 1/8/01; refer to completion diagram.
 Groundwater not encountered during field visit on 1/22/01.

**LOG OF BORING
MN 31**

DRILLING DATE: 1-8-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Failing 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: XS
 CHECKED BY: CBK



DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
45		9	50/4"							
50										
55										
60										
65										
70										
75										

LOG OF BORING L:\EBMUD\1320WA--1\BORINGS\GINT\PROJECTS\FINAL\132001A.GPJ OLV CHEN GDT 4/10/01

**LOG OF BORING
MN 32**

DRILLING DATE: 1-5-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Failing 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: KG
 CHECKED BY: CBK



DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
0 - 4.5		1	50/1"	[Hatched pattern]	NO RECOVERY.					
4.5 - 5.5		2	50/4.5"	[Hatched pattern]	CLAYEY SAND (SC), dark brown, very dense, moist.		36.4			34.0
5.5 - 9.5		3	50/3.5"	[Hatched pattern]	SILTSTONE, fine grained, grayish yellow with rust striations, dry, silty, moderate to strong cementation, slightly weathered, moderately strong.		19.8			
9.5 - 14.5		4	50/4"	[Hatched pattern]	Closely fractured.		17.0			56.6
14.5 - 22.5		5		[Hatched pattern]	Strong.	108.5	18.0			
22.5 - 23					Bottom of boring at 23' below ground surface.					
23 - 25					Piezometer installed on 1/5/01; refer to completion diagram.					
25 - 35					Groundwater not encountered during field visit on 1/22/01.					

LOG OF BORING L:\EBMUD\1320WA-1\BORINGS\GINTWP\PROJECTS\FINAL\132001A.GPJ OLV, CHEN GDT 4/10/01

JOB NO. 1320.01

PROJECT: Walnut Creek Water Treatment Plant

SHEET 1 of 1

FIGURE 10

**LOG OF BORING
MN 33**

DRILLING DATE: 1-5-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Failing 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: KG
 CHECKED BY: CBK



DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
4.5		1	50/6"		SILTSTONE, fine grained, brownish yellow beige, dry to moist, moderate cementation, closely fractured, slightly weathered, moderately strong.		13.0			65.6
5.5		2	50/6"		Dark gray with rust striations, dry to moist.					
10.5		3	50/4.5"				22.0			52.5
15.5		4	50/3.5"							
20.5		5			Strong.	110.5	17.6			
23	Bottom of boring at 23' below ground surface. Piezometer installed on 1/5/01; refer to completion diagram. Groundwater not encountered during field visit on 1/22/01.									

LOG OF BORING L:\EBMUD\1320WA-1\BORINGS\GINT\PROJECTS\FINAL\132001A.GPJ OLV CHEN.GDT 4/10/01

**LOG OF BORING
MN 34**

DRILLING DATE: 1-5-01
 DRILLING METHOD: Mud Rotary
 DRILL RIG TYPE: Failing 1500
 HAMMER TYPE: 140 LBS. SAFETY HAMMER

SURFACE ELEV: N/A
 DATUM: Ground Surface
 LOGGED BY: XS
 CHECKED BY: CBK



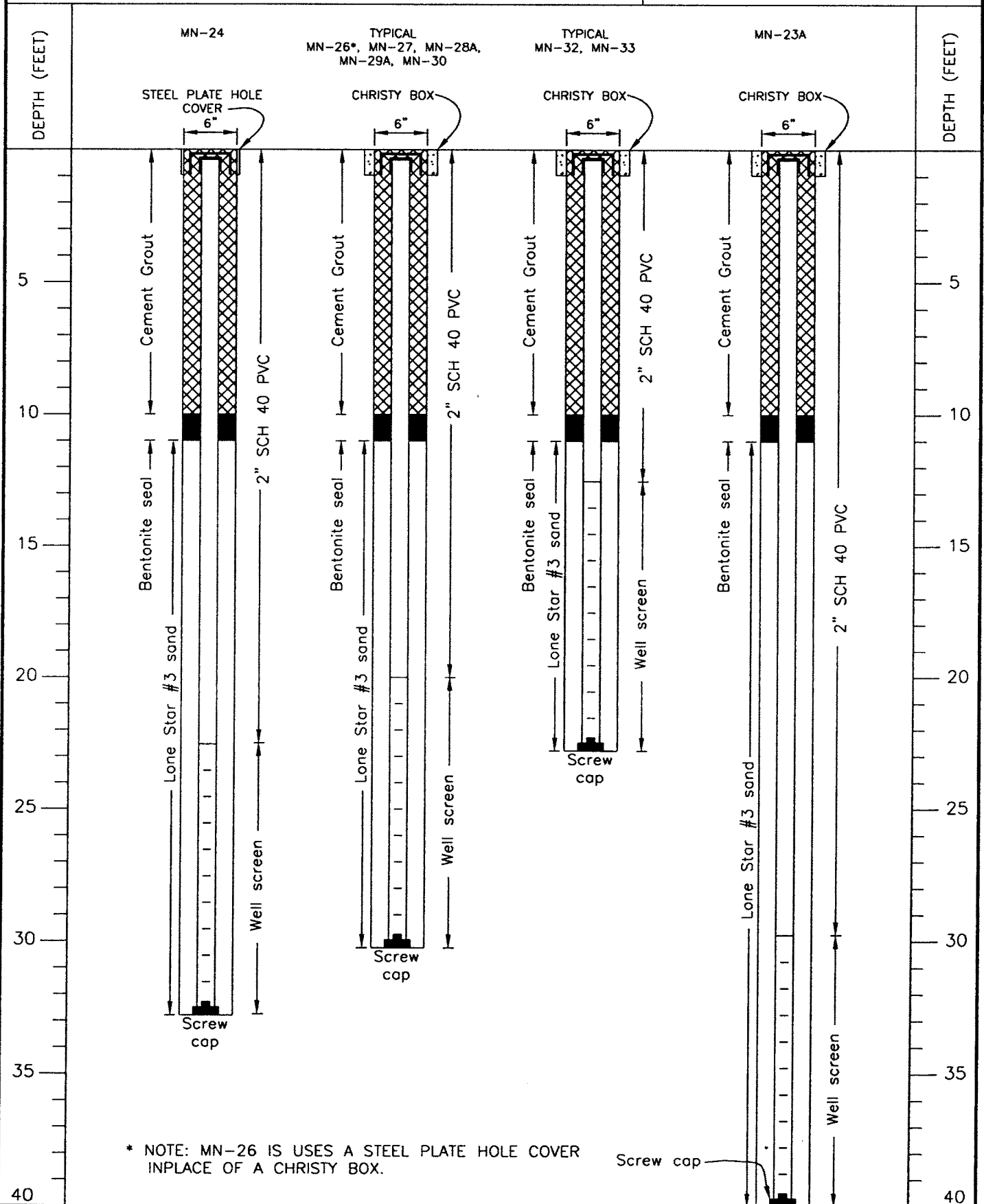
Olivia Chen Consultants, Inc.
 Civil • Environmental • Geotechnical

DEPTH (FEET)	SAMPLE TYPE	SAMPLE NO.	BLOW COUNT	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	% PASSING #200 SIEVE
0										
5		1	76		SILTSTONE, fine grained, brownish yellow with rust striations, dry to moist, weak to moderate cementation, slightly to moderately weathered, moderate strong to strong.		16.2			60.2
		2	50/2"			17.0				
10		3	50/5"			15.0				
15		4	50/3"			11.3				
14.25	Bottom of boring at 14.25' below ground surface. Piezometer installed on 2/12/01; refer to completion diagram. Groundwater not encountered during drilling.									
20										
25										
30										
35										

LOG OF BORING L:\EBMUD\1320WA--1\BORINGS\GINT\PROJECTS\FINAL\132001A.GPJ OLV_CHEM.GDT 4/10/01

PIEZOMETER COMPLETION DIAGRAM

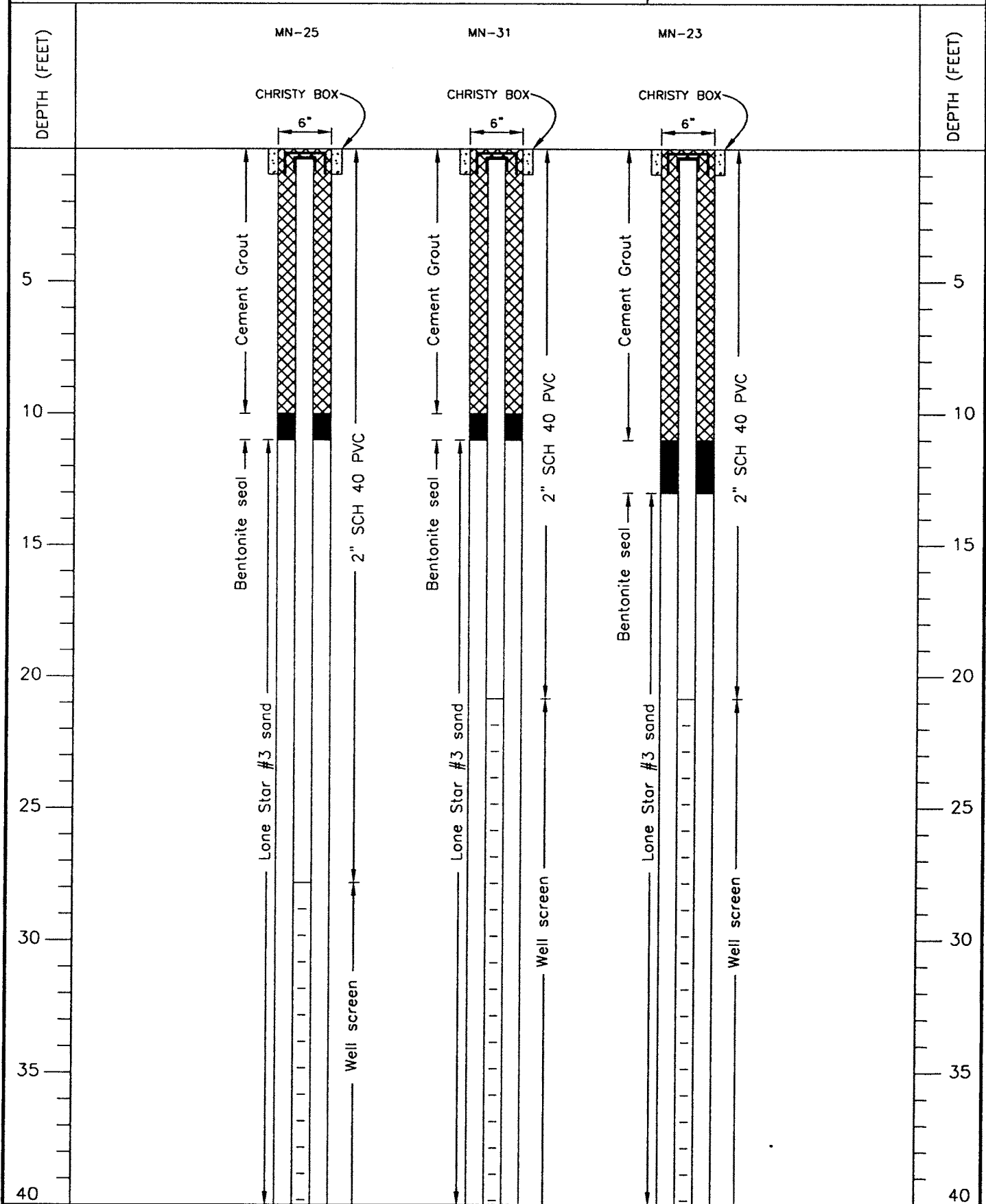
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* NOTE: MN-26 IS USES A STEEL PLATE HOLE COVER INPLACE OF A CHRISTY BOX.

PIEZOMETER COMPLETION DIAGRAM

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JOB NO. 1320

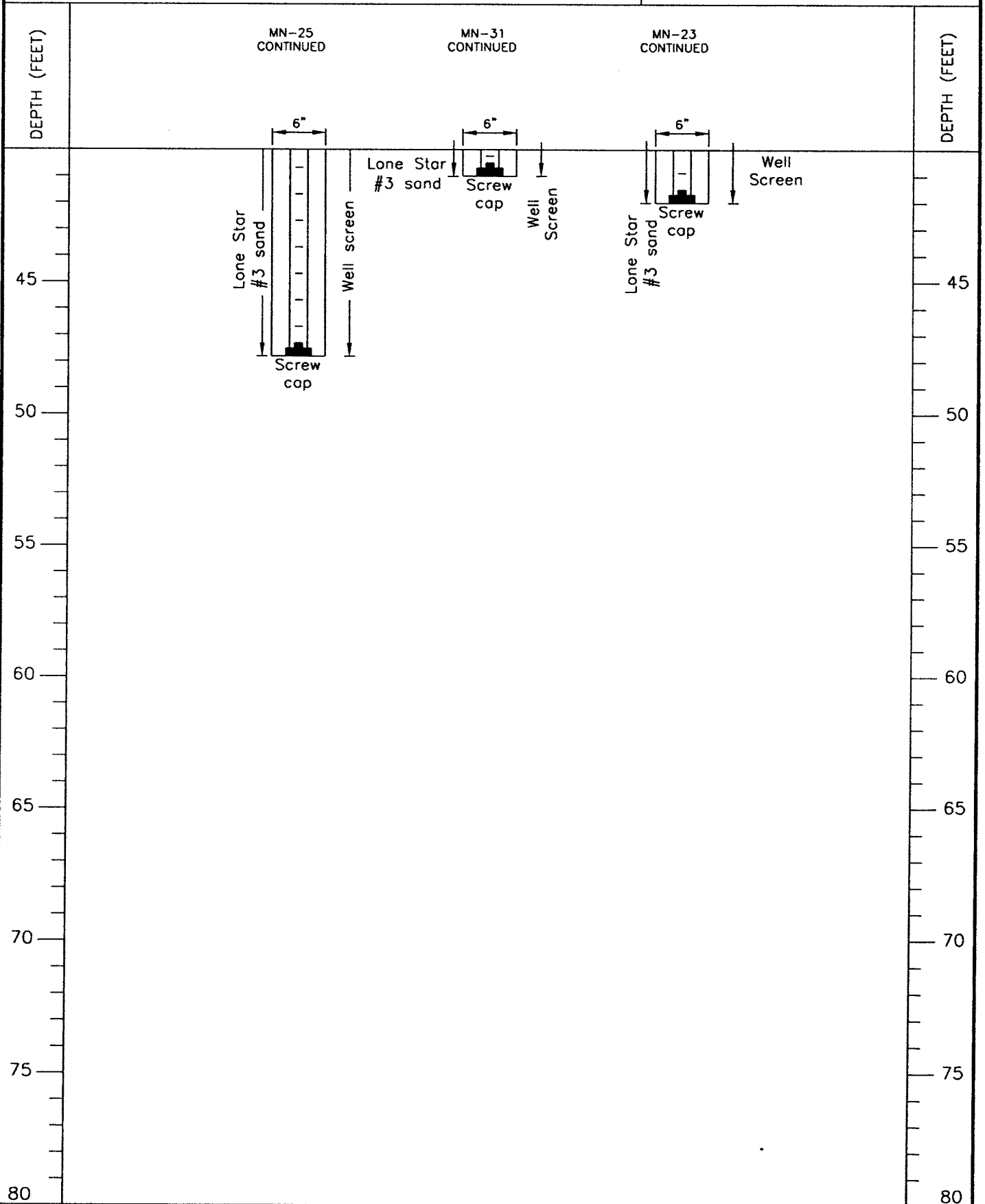
PROJECT: WALNUT CREEK WTP

SHEET 1 OF 2

FIGURE 14

PIEZOMETER COMPLETION DIAGRAM

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PROJECT: WALNUT CREEK WTP

SHEET 2 OF 2

FIGURE 14

UNIFIED SOIL CLASSIFICATION (ASTM D-2487-98)

MATERIAL TYPES	CRITERIA FOR ASSIGNING SOIL GROUP NAMES			GROUP SYMBOL	SOIL GROUP NAMES & LEGEND	
COARSE-GRAINED SOILS >50% RETAINED ON NO. 200 SIEVE	GRAVELS >50% OF COARSE FRACTION RETAINED ON NO. 4. SIEVE	CLEAN GRAVELS <5% FINES	Cu>4 AND 1<Cc<3	GW	WELL-GRADED GRAVEL	
		GRAVELS WITH FINES >12% FINES	FINES CLASSIFY AS ML OR CL	GP	POORLY-GRADED GRAVEL	
		FINES CLASSIFY AS CL OR CH	GM	SILTY GRAVEL		
		FINES CLASSIFY AS CL OR CH	GC	CLAYEY GRAVEL		
	SANDS >50% OF COARSE FRACTION PASSES ON NO. 4. SIEVE	CLEAN SANDS <5% FINES	Cu>6 AND 1<Cc<3	SW	WELL-GRADED SAND	
		SANDS AND FINES >12% FINES	FINES CLASSIFY AS ML OR CL	SP	POORLY-GRADED SAND	
		FINES CLASSIFY AS CL OR CH	SM	SILTY SAND		
		FINES CLASSIFY AS CL OR CH	SC	CLAYEY SAND		
FINE-GRAINED SOILS >50% PASSES NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT<50	INORGANIC	PI>7 AND PLOTS>"A" LINE	CL	LEAN CLAY	
		INORGANIC	PI>4 AND PLOTS<"A" LINE	ML	SILT	
	SILTS AND CLAYS LIQUID LIMIT>50	INORGANIC	LL (oven dried)/LL (not dried)<0.75	OL	ORGANIC CLAY OR SILT	
		INORGANIC	PI PLOTS >"A" LINE	CH	FAT CLAY	
		INORGANIC	PI PLOTS <"A" LINE	MH	ELASTIC SILT	
		ORGANIC	LL (oven dried)/LL (not dried)<0.75	OH	ORGANIC CLAY OR SILT	
HIGHLY ORGANIC SOILS		PRIMARILY ORGANIC MATTER, DARK IN COLOR, AND ORGANIC ODOR		PT	PEAT	

NOTE: $C_u = \frac{D_{60}}{D_{10}}$; $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$

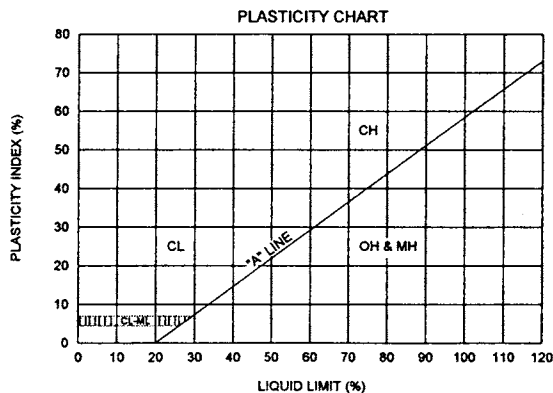
BLOW COUNT

THE NUMBER OF BLOWS OF THE SAMPLING HAMMER REQUIRED TO DRIVE THE SAMPLER THE LAST 12 IN. OF AN 18-IN. DRIVE. THE NOTATION 100/9 INDICATES 9 IN. OF PENETRATION ACHIEVED IN 100 BLOWS. THE NUMBER "50+" INDICATES THAT >50 BLOWS WERE REQUIRED TO DRIVE THE SAMPLER THE LAST 12 INCHES.

CEMENTATION

- WEAK - CRUMBLES OR BREAKS WITH HANDLING OR LITTLE FINGER PRESSURE
- MODERATE - CRUMBLES OR BREAKS WITH CONSIDERABLE FINGER PRESSURE
- STRONG - WILL NOT CRUMBLE OR BREAK WITH FINGER PRESSURE

SOURCE: U.S. DEPARTMENT OF INTERIOR, BUREAU OF RECLAMATION; PUB. YEAR, NOT AVAILABLE; ENGINEERING GEOLOGY FIELD MANUAL, P. 37.



SAMPLE TYPES

- STANDARD PENETRATION
- ROCK CORE
- PITCHER SAMPLE
- MODIFIED CALIFORNIA
- PUSHED SHELBY TUBE

ADDITIONAL TESTS

- CA - CHEMICAL ANALYSIS (CORROSIVITY) (200) - (WITH % PASSING NO. 200 SIEVE)
- CD - CONSOLIDATED DRAINED TRIAXIAL
- CN - CONSOLIDATION
- CU - CONSOLIDATED UNDRAINED TRIAXIAL
- DS - DIRECT SHEAR
- PP - POCKET PENETROMETER (TSF)
- (3.0) - (WITH SHEAR STRENGTH IN KSF)
- RV - R-VALUE
- SA - SIEVE ANALYSIS: % PASSING #200 SIEVE
- ∇ - WATER LEVEL (WITH DATE OF MEASUREMENT)
- SW - SWELL TEST
- TC - CYCLIC TRIAXIAL
- TV - TORVANE SHEAR
- UC - UNCONFINED COMPRESSION
- (1.5) - (WITH SHEAR STRENGTH IN KSF)
- UU - UNCONSOLIDATED UNDRAINED TRIAXIAL
- WA - WASH ANALYSIS (200%) - (WITH % PASSING NO. 200 SIEVE)

PENETRATION RESISTANCE (RECORDED AS BLOWS / 0.5 FT)				
SAND & GRAVEL		SILT & CLAY		
RELATIVE DENSITY	BLOWS/FOOT*	CONSISTENCY	BLOWS/FOOT*	COMPRESSIVE STRENGTH (TSF)
VERY LOOSE	0 - 4	VERY SOFT	0 - 2	0 - 0.25
LOOSE	4 - 10	SOFT	2 - 4	0.25 - 0.50
MEDIUM DENSE	10 - 30	FIRM	4 - 8	0.50 - 1.0
DENSE	30 - 50	STIFF	8 - 15	1.0 - 2.0
VERY DENSE	OVER 50	VERY STIFF	15 - 30	2.0 - 4.0
		HARD	OVER 30	OVER 4.0

* NUMBER OF BLOWS OF 140 LB HAMMER FALLING 30 INCHES TO DRIVE A 2 INCH O.D. (1-3/8 INCH I.D.) SPLIT-BARREL SAMPLER THE LAST 12 INCHES OF AN 18-INCH DRIVE (ASTM-1586 STANDARD PENETRATION TEST).

LEGEND L:\EBMUD\1320WA-1\BORINGS\INTWP\PROJECTS\FINAL\132001A.GPJ OLV, CHEN, GDT 4/10/01



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Job No. 1320.01

**LEGEND TO SOIL
DESCRIPTIONS**

**FIGURE
15**



APPENDIX C

Laboratory Testing

APPENDIX C

LABORATORY TESTING

Classification

Soils were visually and texturally classified in accordance with the Unified Soil Classification System (USCS) in general accordance with ASTM D 2488. Soil classifications are indicated on the logs of the exploratory borings in Appendix A.

Moisture Content

The moisture content of samples obtained from the exploratory borings was evaluated in accordance with ASTM D 2216 by drying the samples in an oven at 110±5 degrees Celsius. The test results are presented on the logs of the exploratory borings in Appendix A.

In-Place Density

The dry density of relatively undisturbed samples obtained from the exploratory borings was evaluated in general accordance with ASTM D 2937. The test results are presented on the logs of the exploratory borings in Appendix A.

Percent Organic Matter

The percentage of organic matter in selected soil samples obtained from the exploratory borings was evaluated in accordance with ASTM D 2974 by drying the samples in an oven at 440±40 degrees Celsius. The test results are presented on Figure C-3.

200 Wash Analysis

An evaluation of the percentage of particles finer than the No. 200 sieve in selected soil samples was performed in general accordance with ASTM D 1140. The test results are presented on Figure C-4.

Gradation Analysis

Gradation analysis tests were performed on selected representative soil samples in general accordance with ASTM D 422. The grain-size distribution curves are shown on Figures C-5 through C-12. The test results were utilized in evaluating the soil classification in accordance with the Unified Soil Classification System (USCS).

Atterberg Limits

Tests were performed on selected soil samples to evaluate the liquid limit, plastic limit, and plasticity index in general accordance with ASTM D 4318. These test results were utilized to evaluate the soil classification in accordance with the USCS. The test results and classifications are shown on Figure C-13.

Direct Shear Tests

Direct shear tests were performed on a relatively undisturbed sample in general accordance with ASTM D 3080 to evaluate the shear strength characteristics of selected materials. Test specimens were inundated during shearing to represent adverse field conditions. The results are shown on Figure C-14.

Consolidation Tests

Consolidation tests were performed on selected relatively undisturbed soil samples in general accordance with ASTM D 2435. The samples were inundated during testing to represent adverse field conditions. The percent of consolidation for each load cycle was recorded as a ratio of the amount of vertical compression to the original height of the sample. The results of the tests are summarized on Figures C-15 through C-23.

Expansion Index Tests

The expansion index of selected materials were evaluated in general accordance with ASTM D 4829. The specimens were molded under a specified compactive energy at approximately 50 percent saturation (plus or minus 1 percent). The prepared 1 inch thick by 4 inch diameter specimens were loaded with a surcharge of 144 pounds per square foot and inundated with tap water. Readings of volumetric swell were made for a period of 24 hours. The test results are presented on Figure C-24.

Unconfined Compression Tests

Unconfined compression tests were performed on relatively undisturbed samples in general accordance with ASTM D 2166. The test results are shown on Figure C-25.

Unconsolidated Undrained Triaxial Compression Tests

Triaxial compression tests were performed on selected relatively undisturbed samples in general accordance with ASTM D 2850. The test results are shown on Figures C-26 through C-28.

Rock Core Unconfined Compression

Unconfined compression tests were performed on intact rock core samples in general accordance with ASTM D 7012. The test results are shown on Figure C-29.

Consolidated Undrained Triaxial Compression Tests

Consolidated undrained triaxial compression tests were performed on selected relatively undisturbed samples in general accordance with ASTM D 4767. Cylindrical specimens with a length-to-diameter ratio of approximately 2:1 were saturated by back pressures until a minimum degree of saturation of 95 percent was achieved. Then the specimen was consolidated isotropically under a predetermined confining pressure. After completion of consolidation, the sample was sheared undrained under compression at a constant rate of axial deformation with pore pressure measurements. The test results are shown on Figures C-30 through C-33.

Boring ID	Sample Depth (feet)	N60,spt bpf	Formation (USCS)	Percent Moisture Content	Dry Density (pcf)	Liquid Limit	Plasticity Index	Percent Gravel	Percent Sand	Percent Fines	Strength & Consolidation Results	Other Test Results
SB-1	5		Fill(SC)	30.8								%OM=1.7
	15		Soil(CH)	25.1								%OM=1.9
	20		Siltstone	24.7								
	21		Siltstone	42.1								
	28		Siltstone	25.7								
SB-2	7		Fill(CL)	27.4								%OM=2.2
	12		Fill(CL)	23.4								%OM=2.1
	16		Fill(GC)	21.2								%OM=2.4
	25		Fill(CL)	27.1								%OM=1.2
	38		Fill(CL)	26.8								%OM=2.2
NMB-1	5		Siltstone									
	6	46	Siltstone									
	9	71	Siltstone	25.8	77.2						Unsaturated UU: Su = 2.4 ksf (1.7 ksf)	
	14	135	Siltstone									
	15	153	Siltstone									
NMB-2	5		Sandstone									
	6	119	Sandstone									
	9	71	Sandstone									
NMB-3	5		Fill(SC)									
			Fill(CH)			59	36	0	39	61	Peak DS: c' = 0.33 ksf, ϕ' = 46° Ultimate DS: c' = 0.20 ksf, ϕ' = 36°	
	6	30										
	10	30	Fill(SM)									
	15	30	Fill(SC)	24.0	94.0			29	46	25	UC: Su = 1.0 ksf	
			Fill(SM)	26.5	91.5	43	14	27	49	24	Unsaturated UU: Su = 2.2 ksf (1.4 ksf) Su = 2.6 ksf (2.9 ksf) Su = 2.8 ksf (5.8 ksf)	
	20	34										
25	44	Fill(SM)										
29	227	Siltstone										
NMB-4	3	34	Fill(SC)	19.2	89.5			19	39	42	UC: Su = 0.6 ksf	
			Fill(SM)	26.8	91.3	43	16	14	45	42	Consolidation: CR = 0.075, RR = 0.005 σ_{yield} = 10.2 ksf	%Clay=12
	6	10										
	10	60	Fill(CL)	18.8	101.1							
			Fill(CL)	28.0	94.1						Saturated CU: Su = 3.5 ksf (3.0 ksf) Su = 4.9 ksf (5.8 ksf) Su = 7.1 ksf (11.6 ksf) c' = 0.65 ksf, ϕ' = 29°	
	15	30										
	20	12	Fill(GC)	13.6	113.1	38	18	42	34	24	Consolidation: CR = 0.093, RR = 0.005 σ_{yield} = 6.2 ksf	
			Fill(GC)			38	19	36	36	29	Saturated CU: Su = 2.8 ksf (2.9 ksf) Su = 3.8 ksf (5.8 ksf) Su = 6.1 ksf (11.5 ksf) c' = 0.95 ksf, ϕ' = 23°	
	25	48										
30	50	Fill(CL)										
		Fill(CL)	26.6	93.9						Consolidation: CR = 0.120, RR = 0.003 σ_{yield} = 3.2 ksf		
35	48											
40	44	Sandstone										

FIGURE C-1

Boring ID	Sample Depth (feet)	N60,spt bpf	Formation (USCS)	Percent Moisture Content	Dry Density (pcf)	Liquid Limit	Plasticity Index	Percent Gravel	Percent Sand	Percent Fines	Strength & Consolidation Results	Other Test Results
NMB-5	3	71	Fill(SC)	17.7	99.1			19	41	40		
	5		Fill(SC)									
			Fill(CL)	20.4	100.6	46	25	5	25	71	Consolidation: CR = 0.109, RR = 0.002 $\sigma_{yield} = 9.7$ ksf	%OM=1.9 %Clay=27
	6	80										
	9	135	Rock									
	14	128	Rock	18.2								
	19	255	Rock									
	24	143	Rock	36.4								
	29	171	Rock									
35	450	Rock										
39	300	Rock										
NMB-6	5		Fill(SC)					18	50	32		
	10	11	Fill(SC)	23.0	98.6	39	17	17	48	35	Consolidation: CR = 0.066, RR = 0.003 $\sigma_{yield} = 10.4$ ksf	
	15	30	Fill(SC)	26.9	94.6						Consolidation: CR = 0.088, RR = 0.007 $\sigma_{yield} = 6.0$ ksf	
	20	57	Siltstone	31.5	91.3						Unsaturated UU: Su = 3.7 ksf (1.4 ksf) Su = 3.2 ksf (2.9 ksf) Su = 4.1 ksf (5.8 ksf)	%OM=1.6
	25	52	Siltstone									
NMB-7	5		Fill(SC)									
	6	27	Fill(SC)	25.1	96.7	45	27	22	41	38	Consolidation: CR = 0.091, RR = 0.001 $\sigma_{yield} = 10.0$ ksf	
	10	45	Fill(SC)	23.5	96.3						Saturated CU: Su = 1.3 ksf (0.7 ksf) Su = 2.5 ksf (2.9 ksf) Su = 4.1 ksf (5.8 ksf) c' = 0.35 ksf, $\phi' = 30^\circ$	
	15	32	Fill(CL)	30.7	82.7						Consolidation: CR = 0.117, RR = 0.012 $\sigma_{yield} = 3.6$ ksf	
	20	36	Soil(CH)	22.1	91.3	54	41	0	22	78	Consolidation: CR = 0.101, RR = 0.004 $\sigma_{yield} = 7.4$ ksf	%OM=1.6 %Clay=42
	25	57	Siltstone	29.8	88.6							
	30	55	Siltstone									
	35	67	Siltstone	22.9	96.8						Unsaturated UU: Su = 4.1 ksf (4.2 ksf)	
NMB-8	3	80	Fill(CL)									
	5	113	Sandstone									
	10	225	Sandstone									
NMB-9	6	23	Soil(CL)	21.2	95.7			0	45	55	UC: Su = 4.9 ksf	
	11	30	Soil(CL)					2	38	60		
	16	46	Siltstone	27.6	90.7	76	58	0	2	98	Saturated CU: Su = 1.3 ksf (0.6 ksf) Su = 2.8 ksf (2.7 ksf) Su = 4.5 ksf (5.6 ksf) c' = 0.45 ksf, $\phi' = 32^\circ$	%OM=1.3 %Clay=50
	20	151	Siltstone									
	25	171	Siltstone									

FIGURE C-2

SAMPLE LOCATION	SAMPLE DEPTH (ft)	USCS SOIL TYPE	ORGANIC MATTER (percent by dry weight)	MOISTURE CONTENT w, (%)
SB-1	4.0-5.0	CL	1.7	30.8
SB-1	14.0-15.0	CH	1.9	25.1
SB-2	6.0-7.0	CL	2.2	27.4
SB-2	11.0-12.0	CL	2.1	23.4
SB-2	15.0-16.0	GC	2.4	21.2
SB-2	24.0-25.0	CL	1.2	27.1
SB-2	37.0-38.0	CL	2.2	26.8
B-4	19.5-20.0	CH	1.6	22.1
B-6	5.5-6.0	CL	1.9	20.4

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2974

FIGURE C-3

ORGANIC MATTER TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA

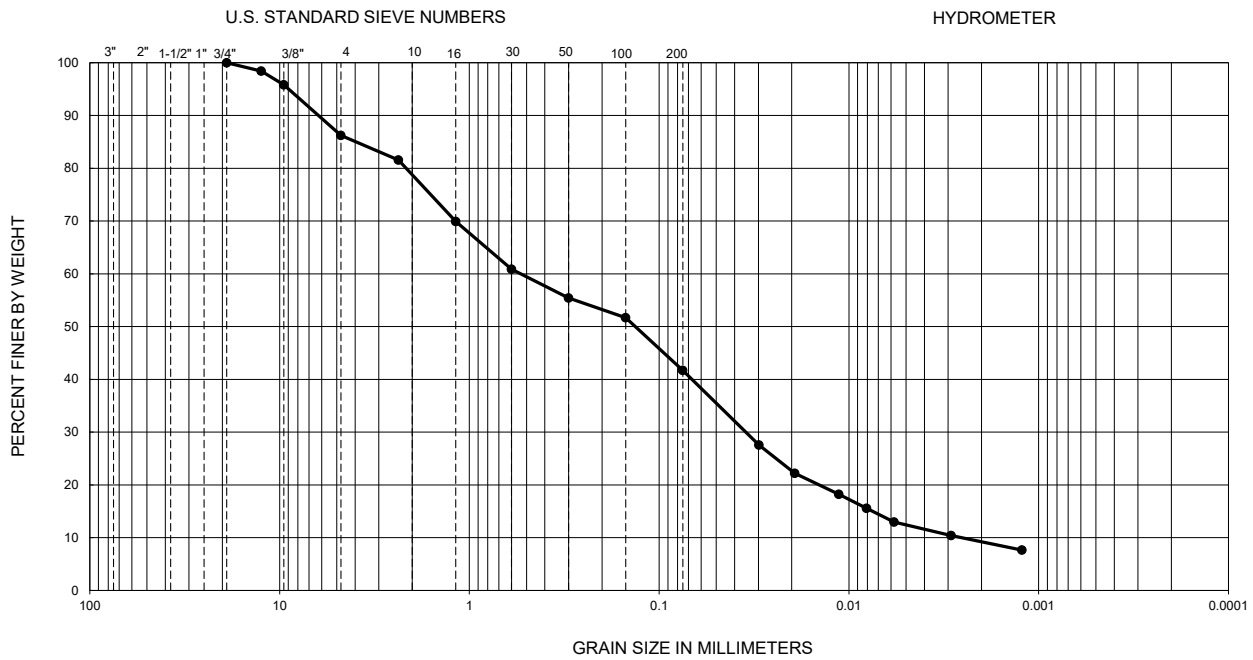
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SAMPLE LOCATION	SAMPLE DEPTH (ft)	DESCRIPTION	PERCENT PASSING NO. 4	PERCENT PASSING NO. 200	USCS (TOTAL SAMPLE)
NMB-3	14.5-15.0	Clayey SAND; little gravel	70.7	24.6	SC
NMB-3	19.5-20.0	Silty SAND; little gravel	73.5	24.2	SM
NMB-4	19.5-20.0	Clayey GRAVEL with sand	57.8	23.9	GC
NMB-4	24.5-25.0	Clayey GRAVEL with sand	64.0	28.5	GC
NMB-5	3.0-3.5	Clayey SAND with gravel	81.1	40.3	SC
NMB-6	9.5-10.0	Clayey SAND with gravel	83.5	35.4	SC
NMB-7	6.0-6.5	Clayey SAND; little gravel	78.3	37.8	SC
NMB-9	6.0-6.5	Sandy CLAY	99.7	54.9	CL

PERFORMED IN ACCORDANCE WITH 1140

FIGURE C-4

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



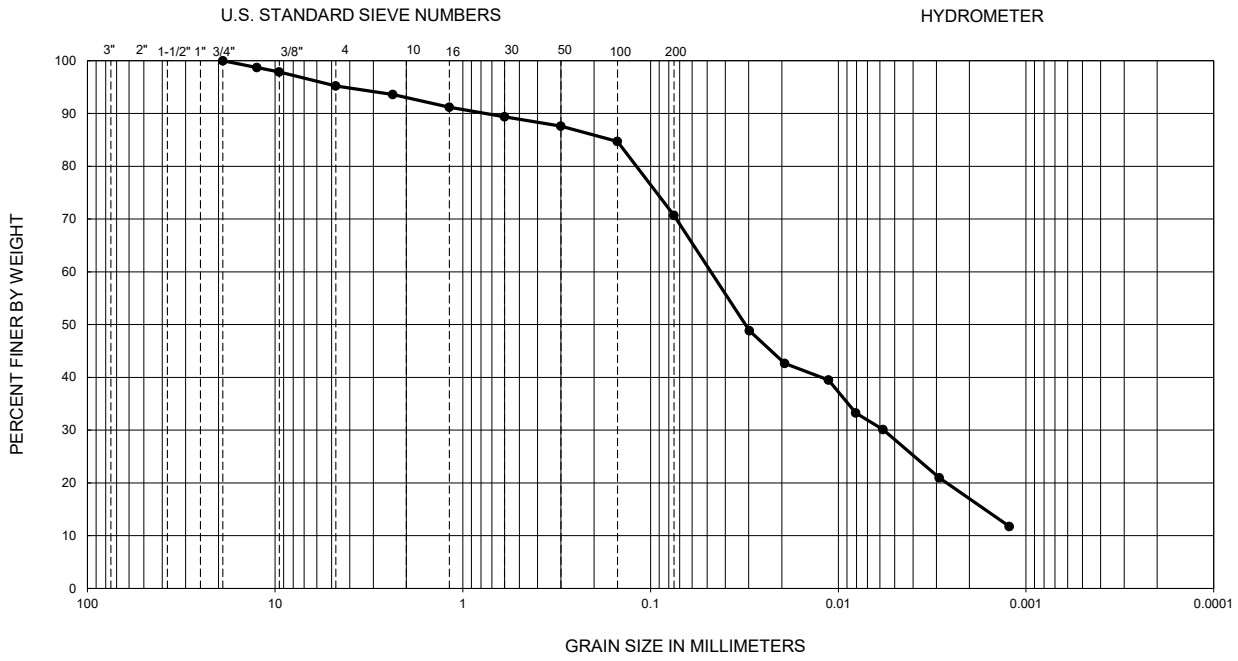
Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	C _u	C _c	Passing No. 200 (percent)	USCS
●	NMB-4	6.0-6.5	43	27	16	0.003	0.040	0.552	191.8	1.0	42	SM

PERFORMED IN ACCORDANCE WITH ASTM D 422

FIGURE C-7

GRADATION TEST RESULTS

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



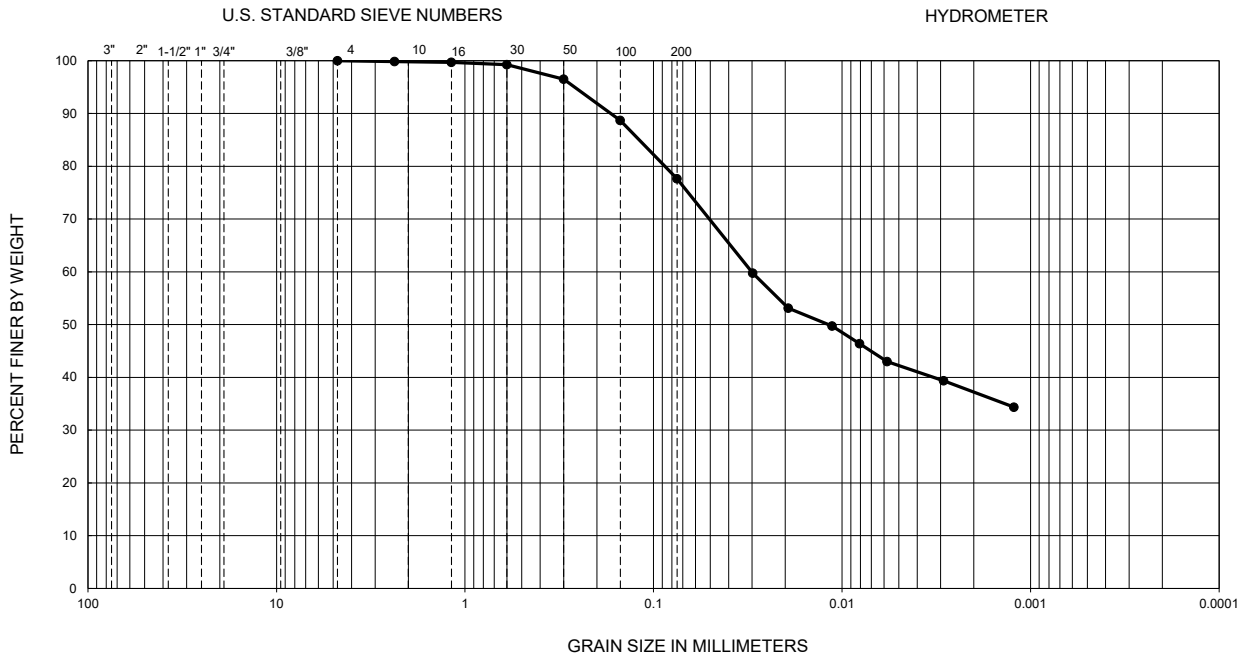
Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	C _u	C _c	Passing No. 200 (percent)	USCS
●	NMB-5	5.5-6.0	46	21	25	0.00	0.01	0.054	--	--	71	CL

PERFORMED IN ACCORDANCE WITH ASTM D 422

FIGURE C-8

GRADATION TEST RESULTS

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



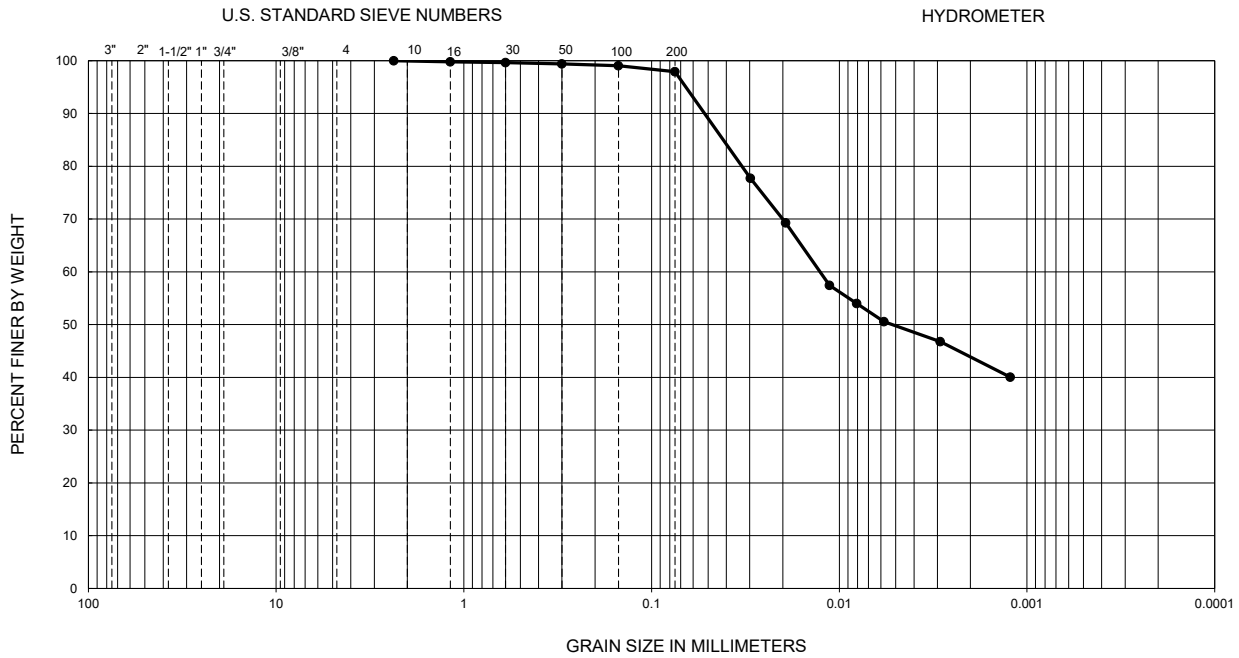
Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	C _u	C _c	Passing No. 200 (percent)	USCS
●	NMB-7	19.5-20.0	54	13	41	--	--	0.03	--	--	78	CH

PERFORMED IN ACCORDANCE WITH ASTM D 422

FIGURE C-10

GRADATION TEST RESULTS

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



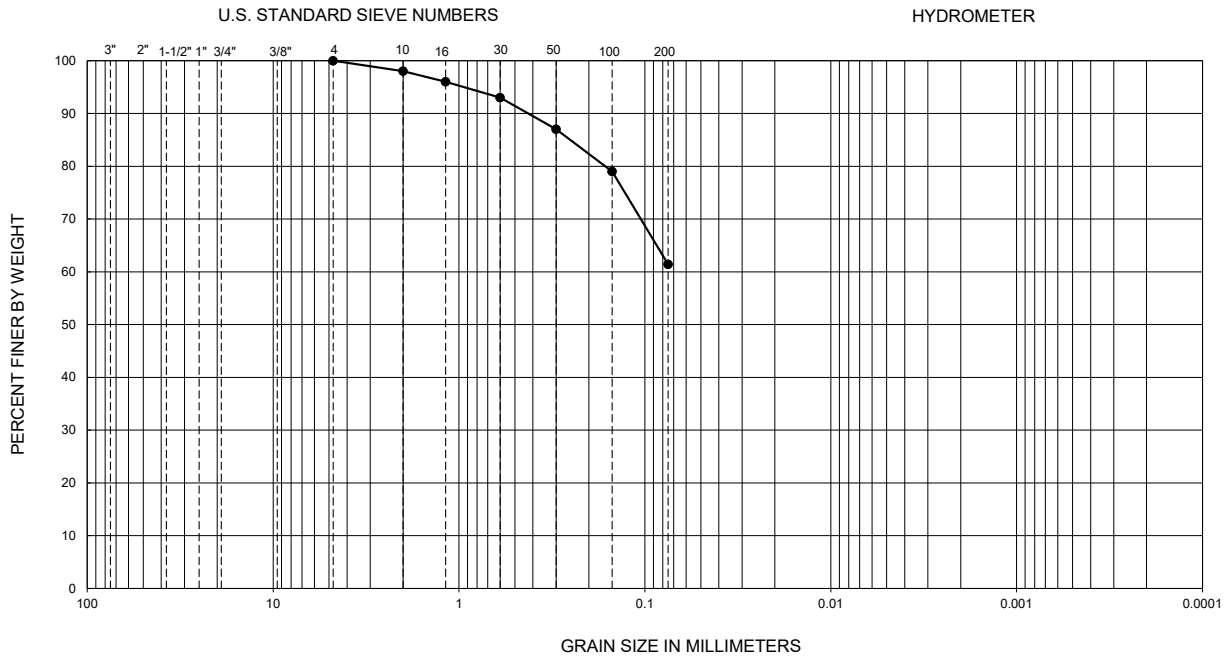
Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	C _u	C _c	Passing No. 200 (percent)	USCS
●	NMB-9	15.0-15.5	76	18	58	--	--	0.013	--	--	98	CH

PERFORMED IN ACCORDANCE WITH ASTM D 422

FIGURE C-12

GRADATION TEST RESULTS

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	C _u	C _c	Passing No. 200 (percent)	USCS
●	NMB-3	6.0-6.5	59	23	36	--	--	0.07	--	--	61	CH

PERFORMED IN ACCORDANCE WITH ASTM D 422 / D6913

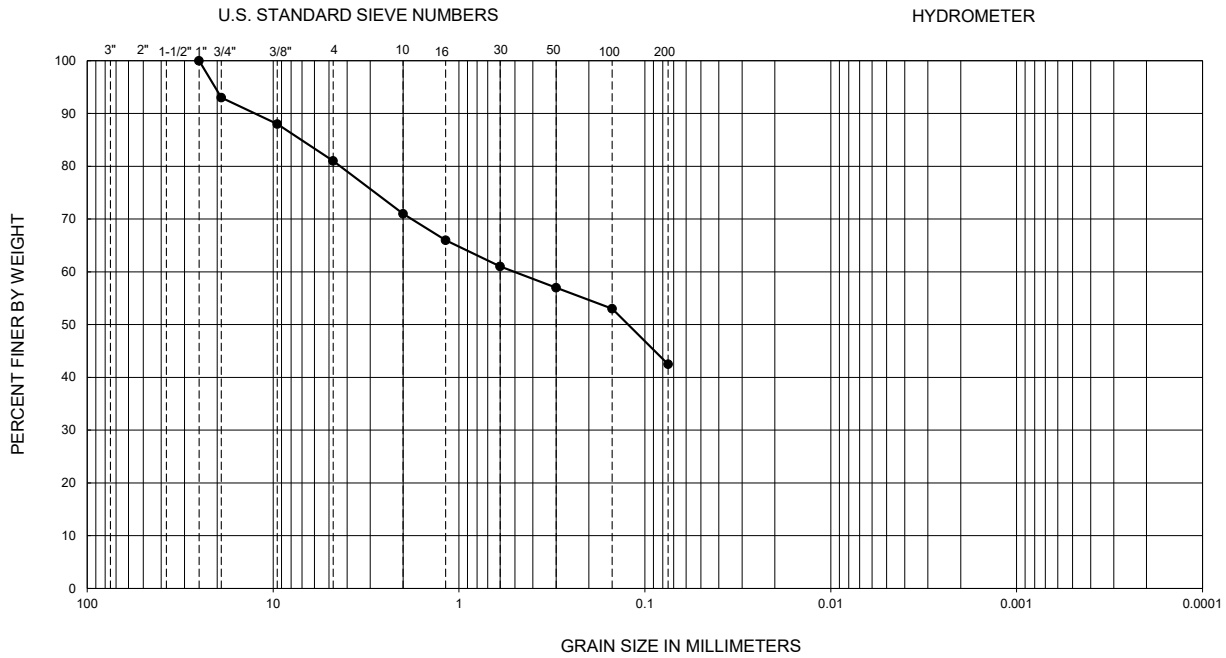
FIGURE C-5

GRADATION TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA

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GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



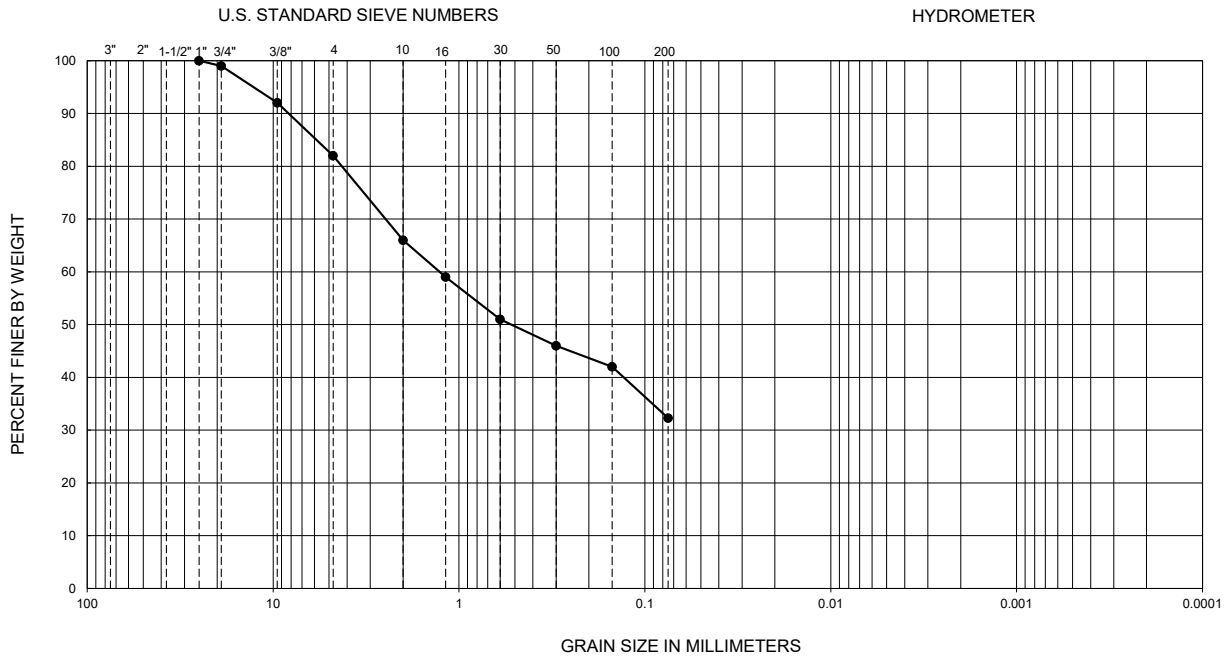
Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	C _u	C _c	Passing No. 200 (percent)	USCS
●	NMB-4	3.0-3.5	--	--	--	--	--	0.53	--	--	42	SC

PERFORMED IN ACCORDANCE WITH ASTM D 422 / D6913

FIGURE C-6

GRADATION TEST RESULTS

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



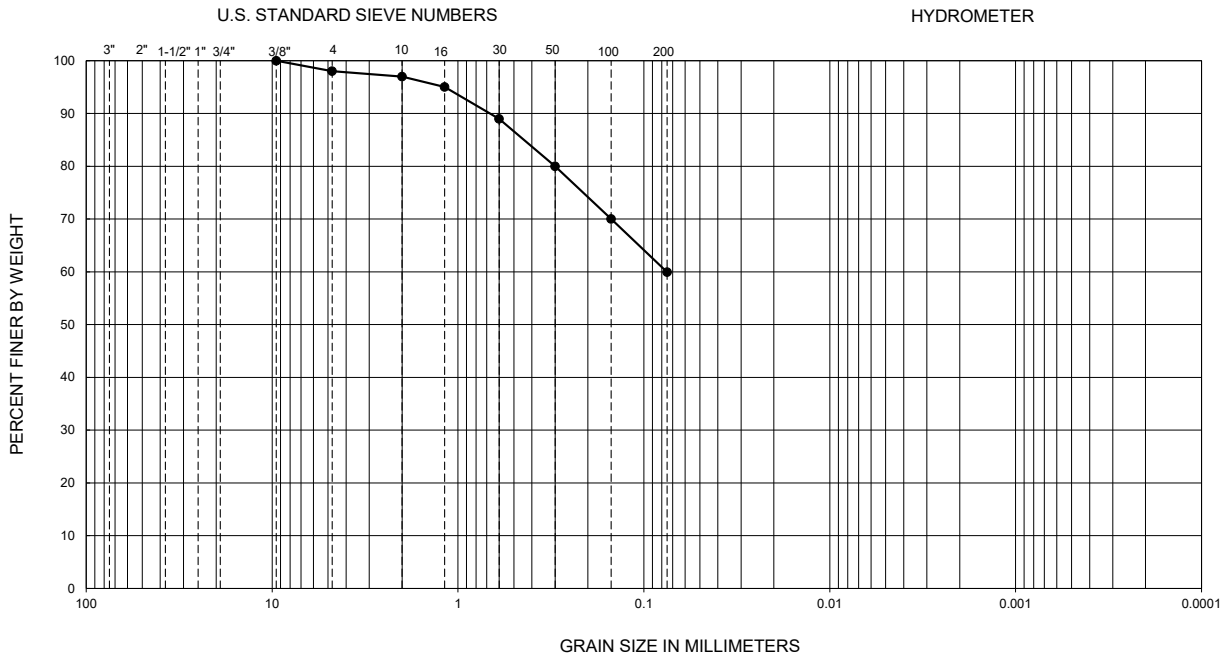
Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	C _u	C _c	Passing No. 200 (percent)	USCS
●	NMB-6	0.0-5.5	--	--	--	--	--	1.30	--	--	32	SC

PERFORMED IN ACCORDANCE WITH ASTM D 422 / D6913

FIGURE C-9

GRADATION TEST RESULTS

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



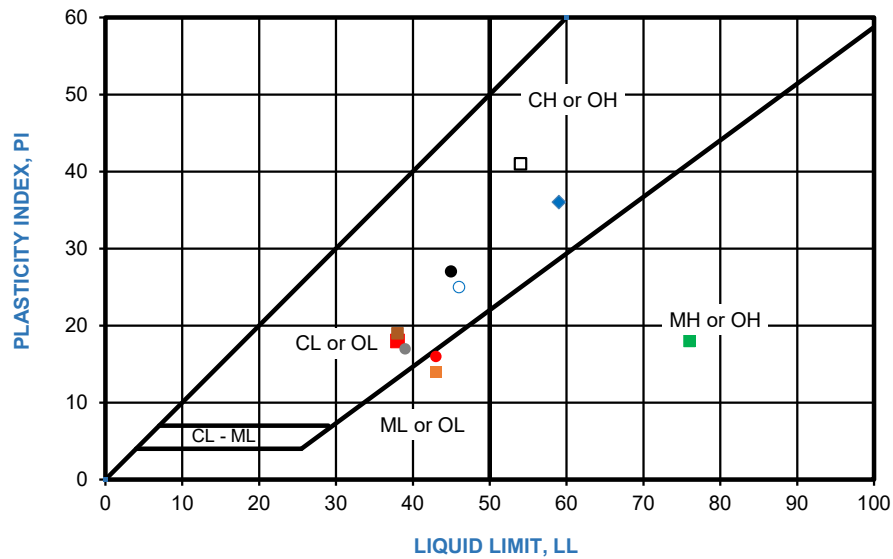
Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D ₁₀	D ₃₀	D ₆₀	C _u	C _c	Passing No. 200 (percent)	USCS
●	NMB-9	11.0-11.5	--	--	--	--	--	0.08	--	--	60	CL

PERFORMED IN ACCORDANCE WITH ASTM D 422 / D6913

FIGURE C-11

GRADATION TEST RESULTS

SYMBOL	LOCATION	DEPTH (ft)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	USCS CLASSIFICATION (Fraction Finer Than No. 40 Sieve)	USCS
◆	NMB-3	6.0-6.5	59	23	36	CH	CH
■	NMB-3	19.5-20.0	43	29	14	ML	SM
●	NMB-4	6.0-6.5	43	27	16	ML	SM
■	NMB-4	19.5-20.0	38	20	18	CL	GC
■	NMB-4	24.5-25.0	38	19	19	CL	GC
○	NMB-5	5.5-6.0	46	21	25	CL	CL
●	NMB-6	9.5-10.0	39	22	17	CL	SC
●	NMB-7	6.0-6.5	45	18	27	CL	SC
□	NMB-7	19.5-20.0	54	13	41	CH	CH
■	NMB-9	15.0-15.5	76	18	58	CH	CH



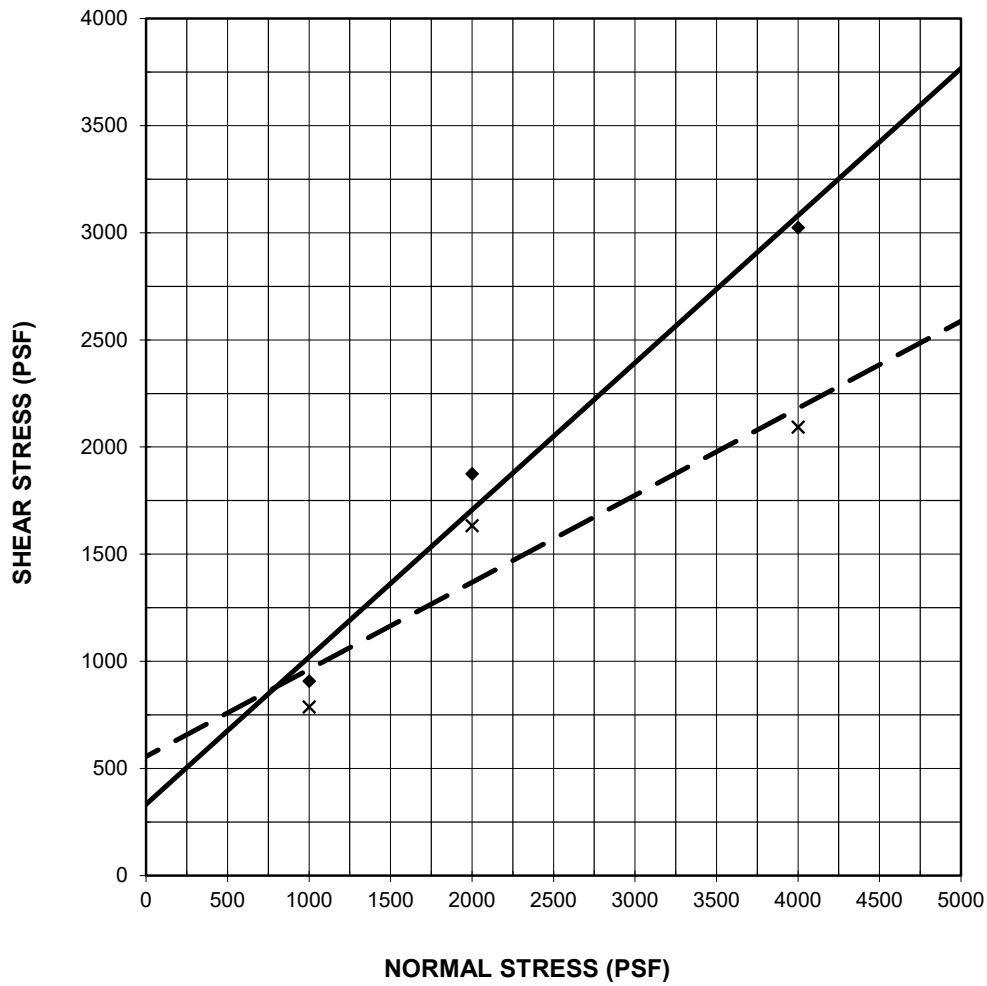
PERFORMED IN ACCORDANCE WITH ASTM D 4318

FIGURE C-13

ATTERBERG LIMITS TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA

403982001 | 6/22

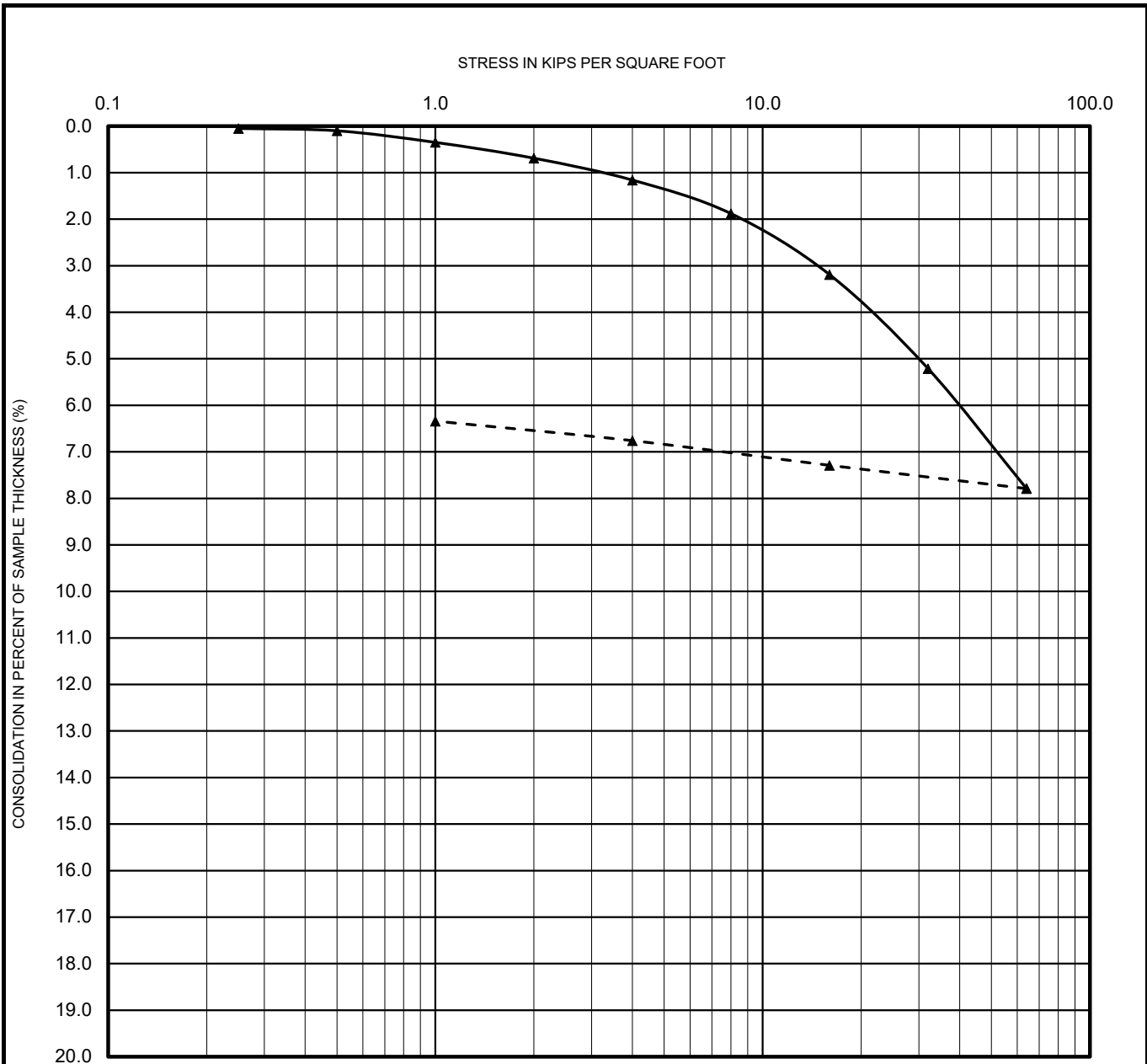


Description	Symbol	Sample Location	Depth (ft)	Shear Strength	Cohesion (psf)	Friction Angle (degrees)	Soil Type
Fat clay	—●—	NMB-3	6.0-6.5	Peak	325	46	CH
Fat clay	- -x- -	NMB-3	6.0-6.5	Ultimate	200	36	CH

PERFORMED IN ACCORDANCE WITH ASTM D 3080

FIGURE C-14

DIRECT SHEAR TEST RESULTS

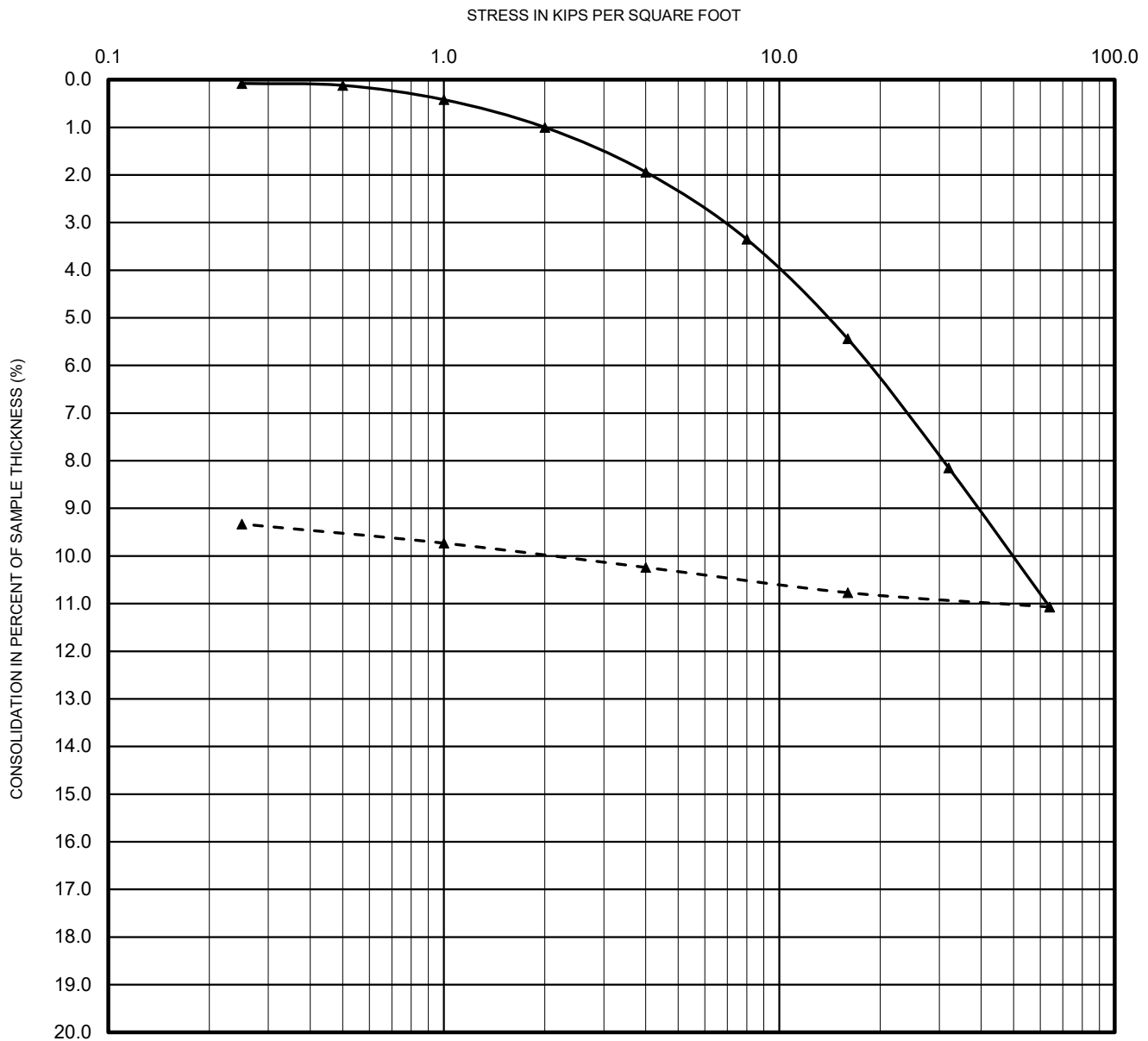


—▲— Loading After Inundation	Sample Location	NMB-4
-▲-- Rebound Cycle	Depth (ft)	6.0-6.5
	Soil Type	SM

PERFORMED IN ACCORDANCE WITH ASTM D 2435

FIGURE C-15

CONSOLIDATION TEST RESULTS



—▲— Loading After Inundation
 -▲-- Rebound Cycle

Sample Location
 Depth (ft)
 Soil Type

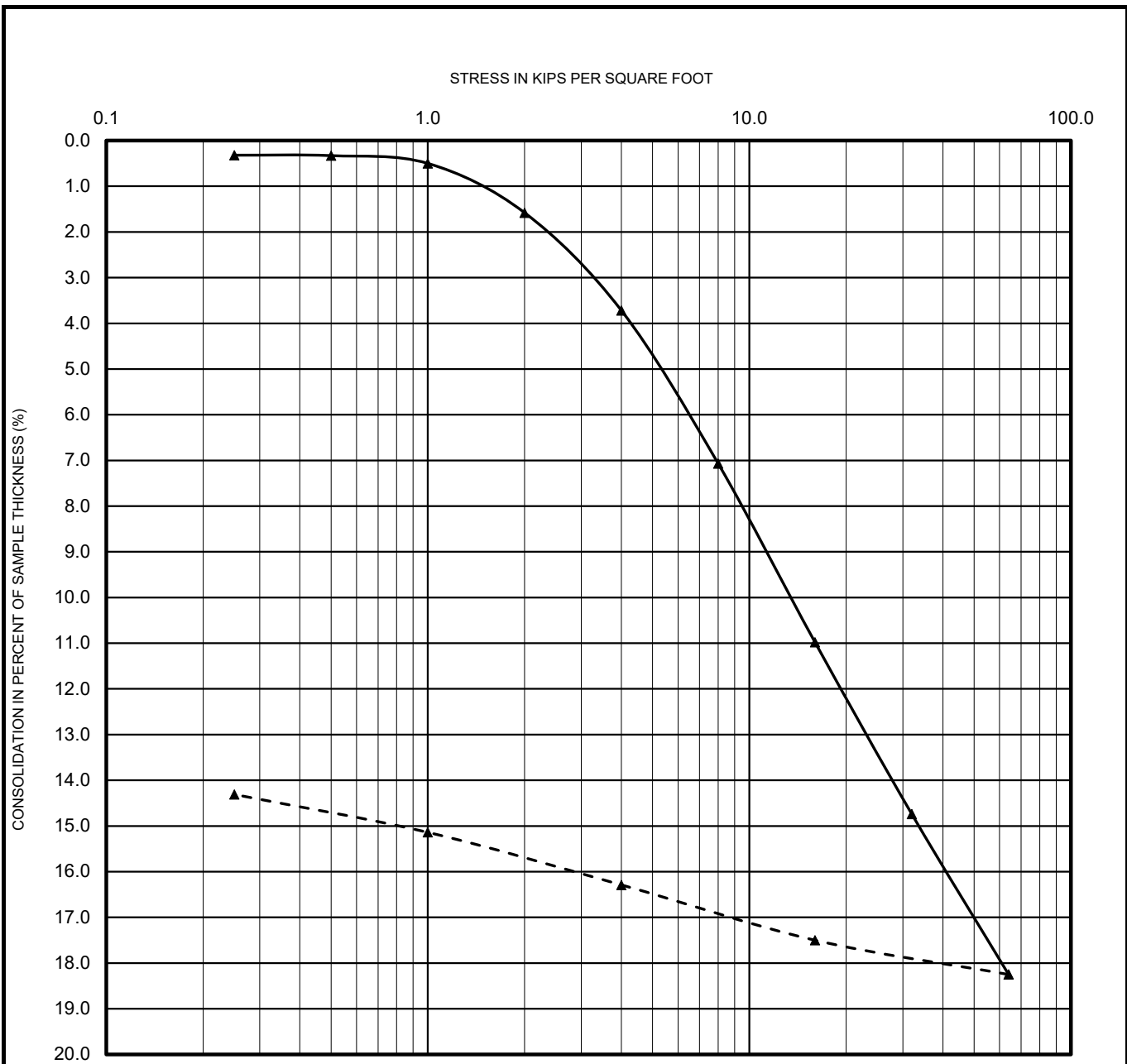
NMB-4
 19.5-20.0
 GC

PERFORMED IN ACCORDANCE WITH ASTM D 2435

FIGURE C-16

CONSOLIDATION TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
 2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA



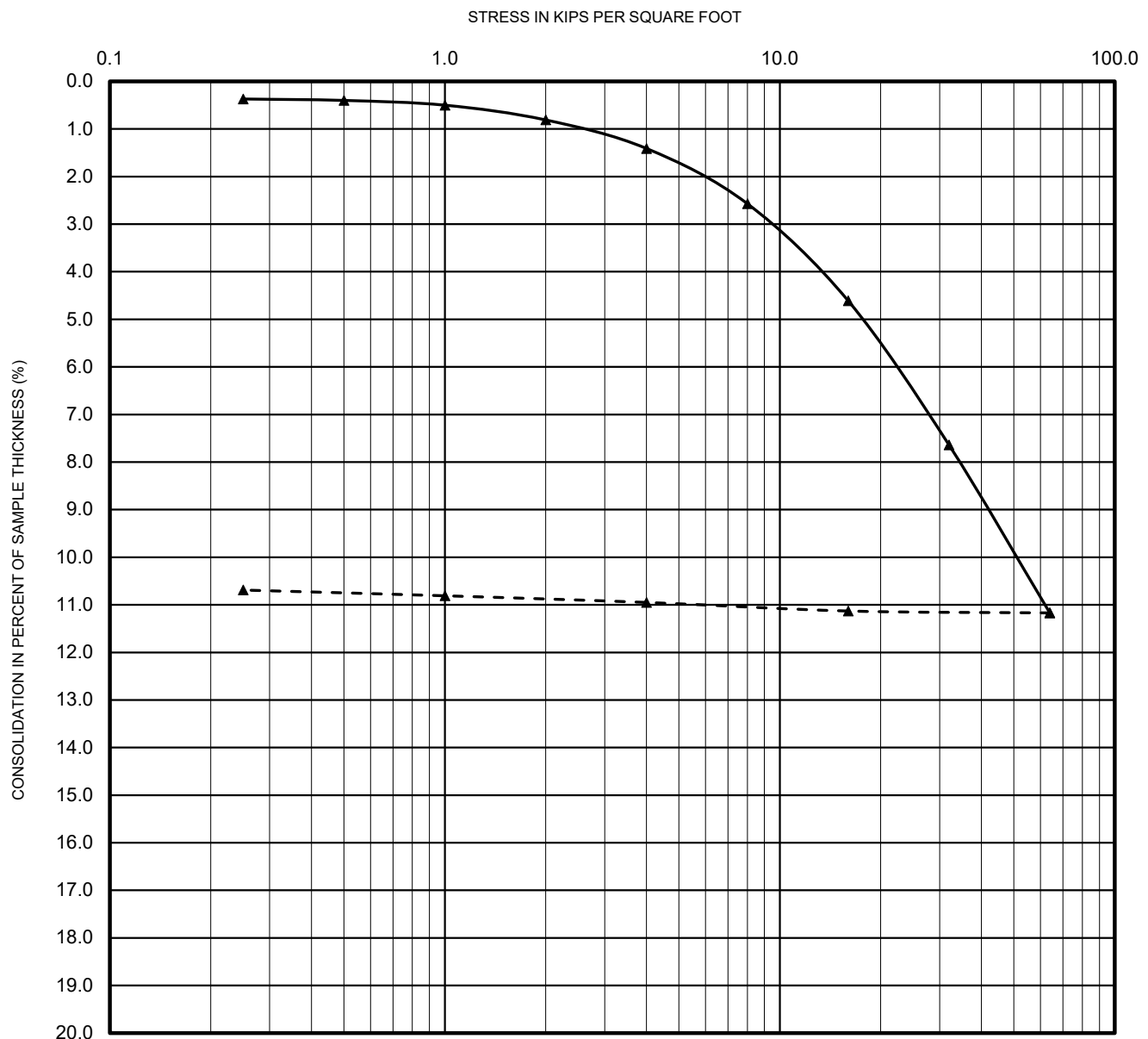
—▲— Loading After Inundation	Sample Location	NMB-4
-▲-- Rebound Cycle	Depth (ft)	34.5-35.0
	Soil Type	CL

PERFORMED IN ACCORDANCE WITH ASTM D 2435

FIGURE C-17

CONSOLIDATION TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA



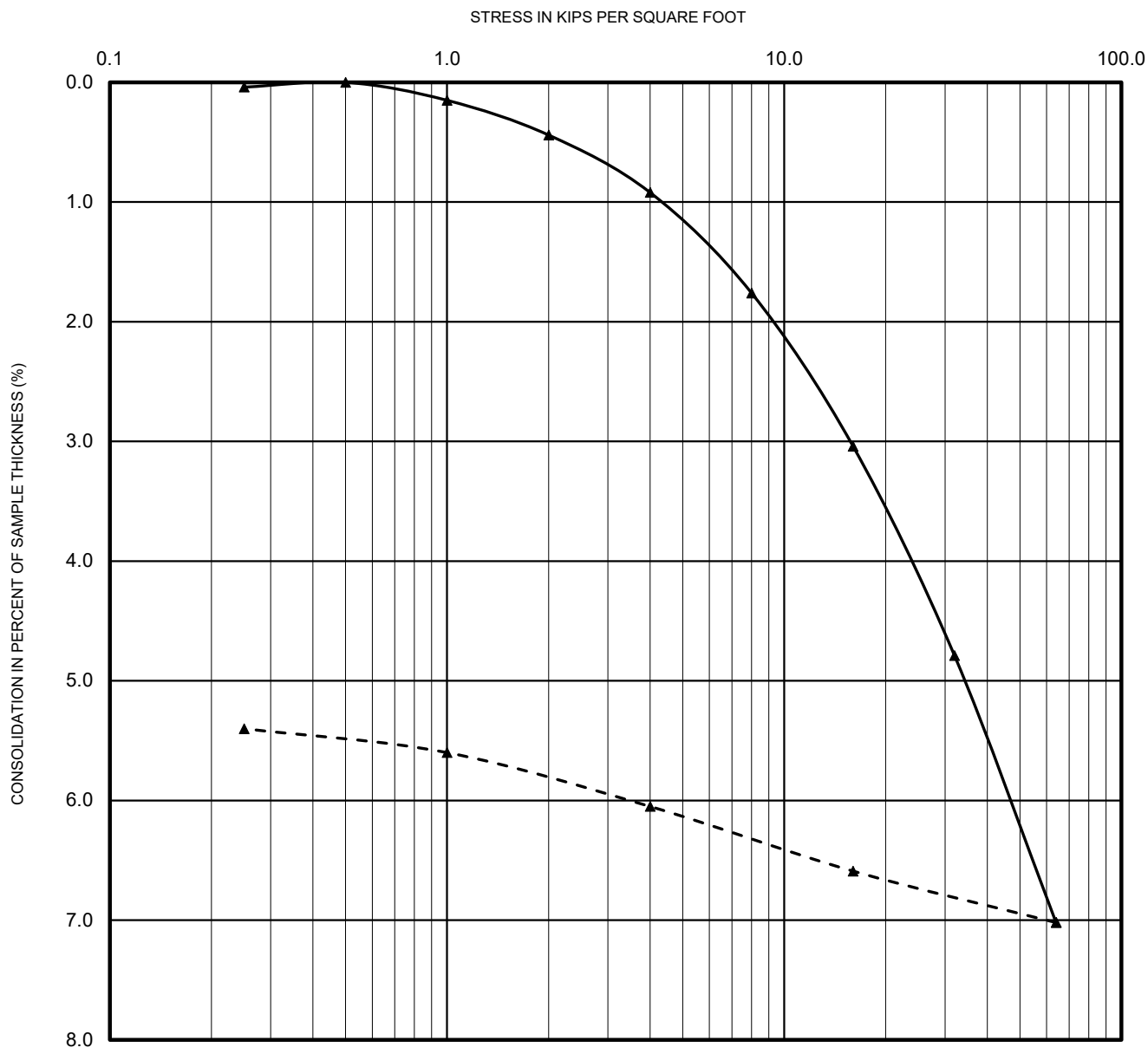
—▲— Loading After Inundation	Sample Location	NMB-5
-▲-- Rebound Cycle	Depth (ft)	5.5-6.0
	Soil Type	CL

PERFORMED IN ACCORDANCE WITH ASTM D 2435

FIGURE C-18

CONSOLIDATION TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA



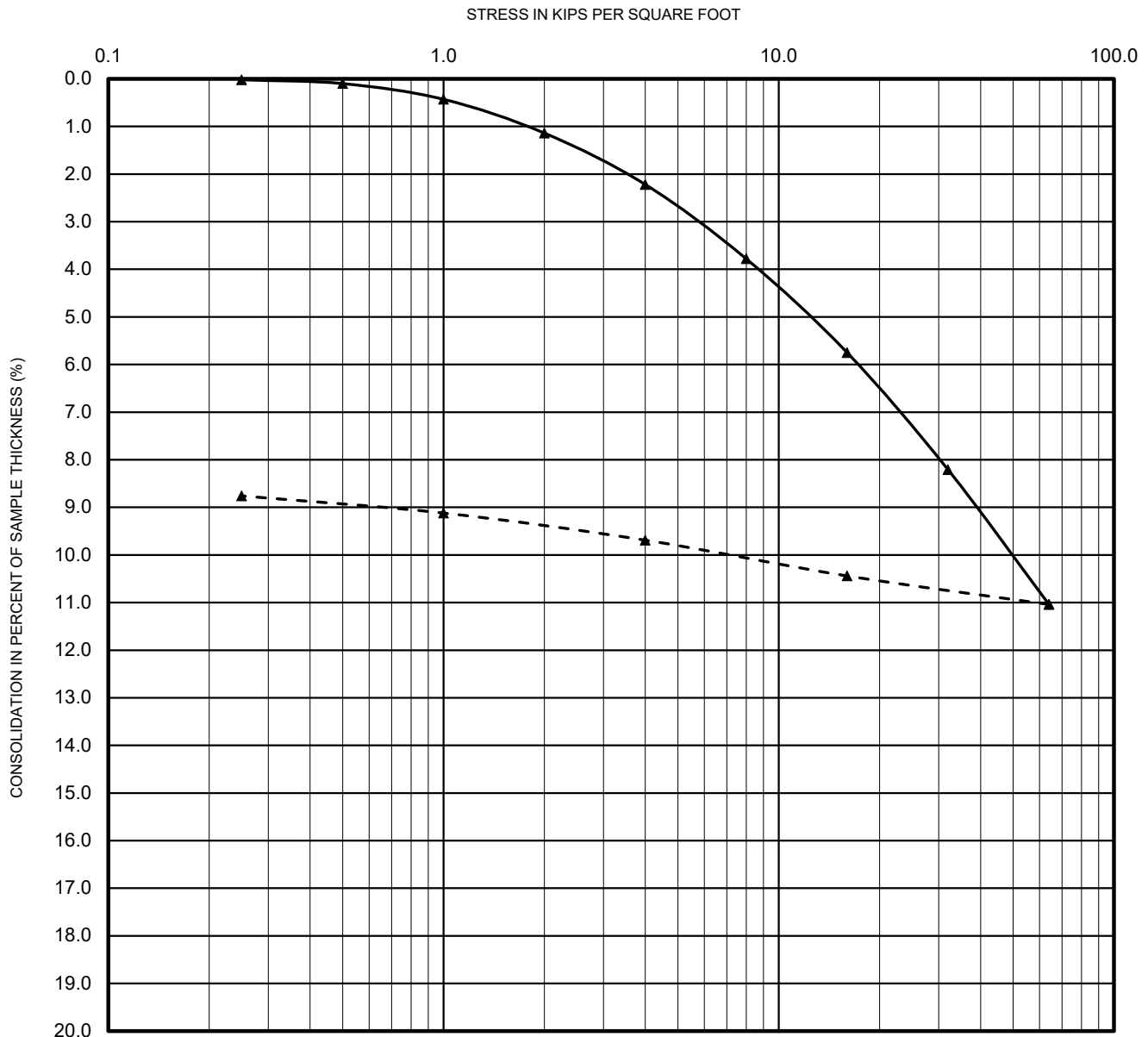
—▲— Loading After Inundation	Sample Location	NMB-6
-▲-- Rebound Cycle	Depth (ft)	9.5-10.0
	Soil Type	SC

PERFORMED IN ACCORDANCE WITH ASTM D 2435

FIGURE C-19

CONSOLIDATION TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA



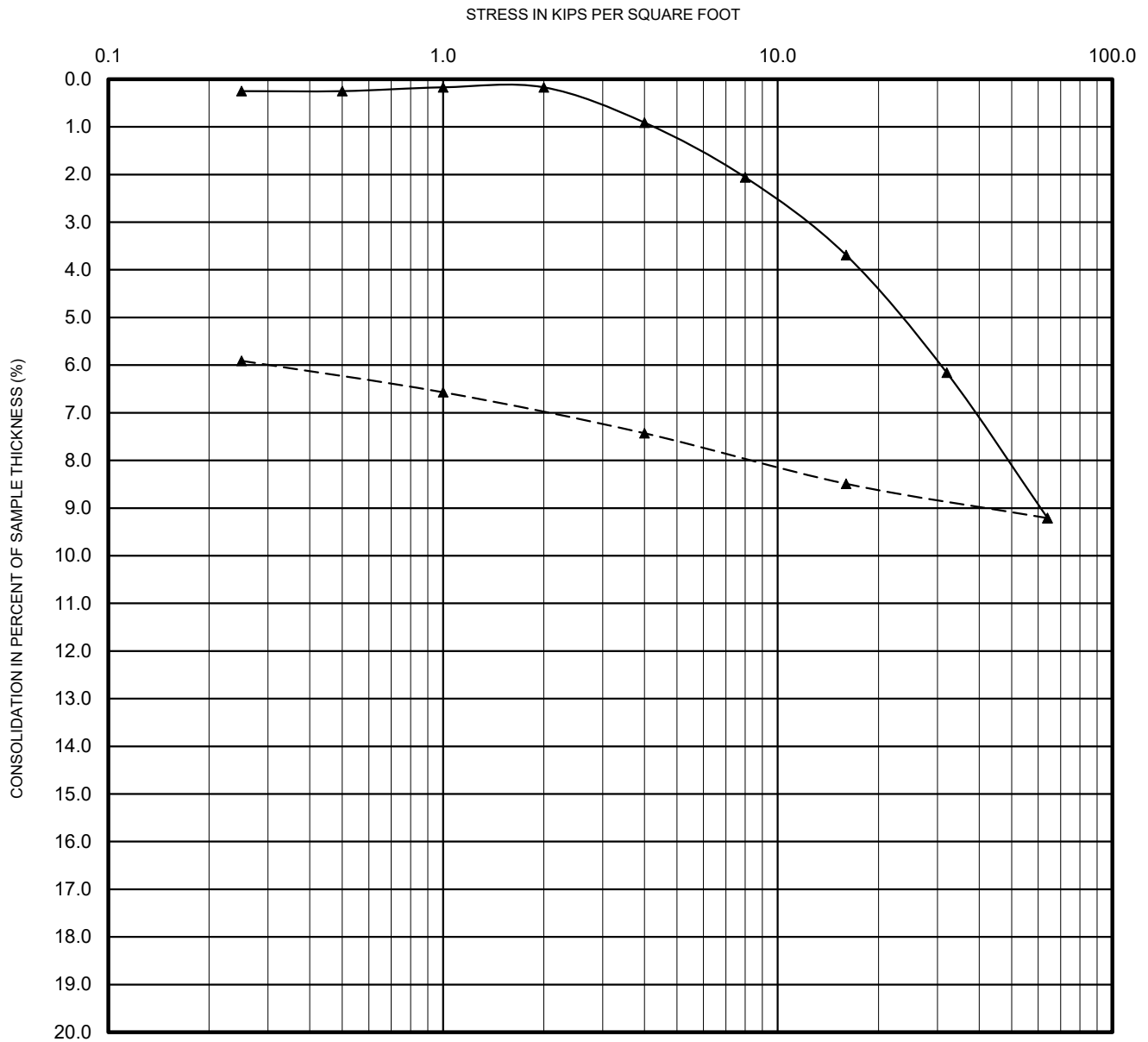
—▲— Loading After Inundation	Sample Location	NMB-6
-▲-- Rebound Cycle	Depth (ft)	14.5-15.0
	Soil Type	SC

PERFORMED IN ACCORDANCE WITH ASTM D 2435

FIGURE C-20

CONSOLIDATION TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA



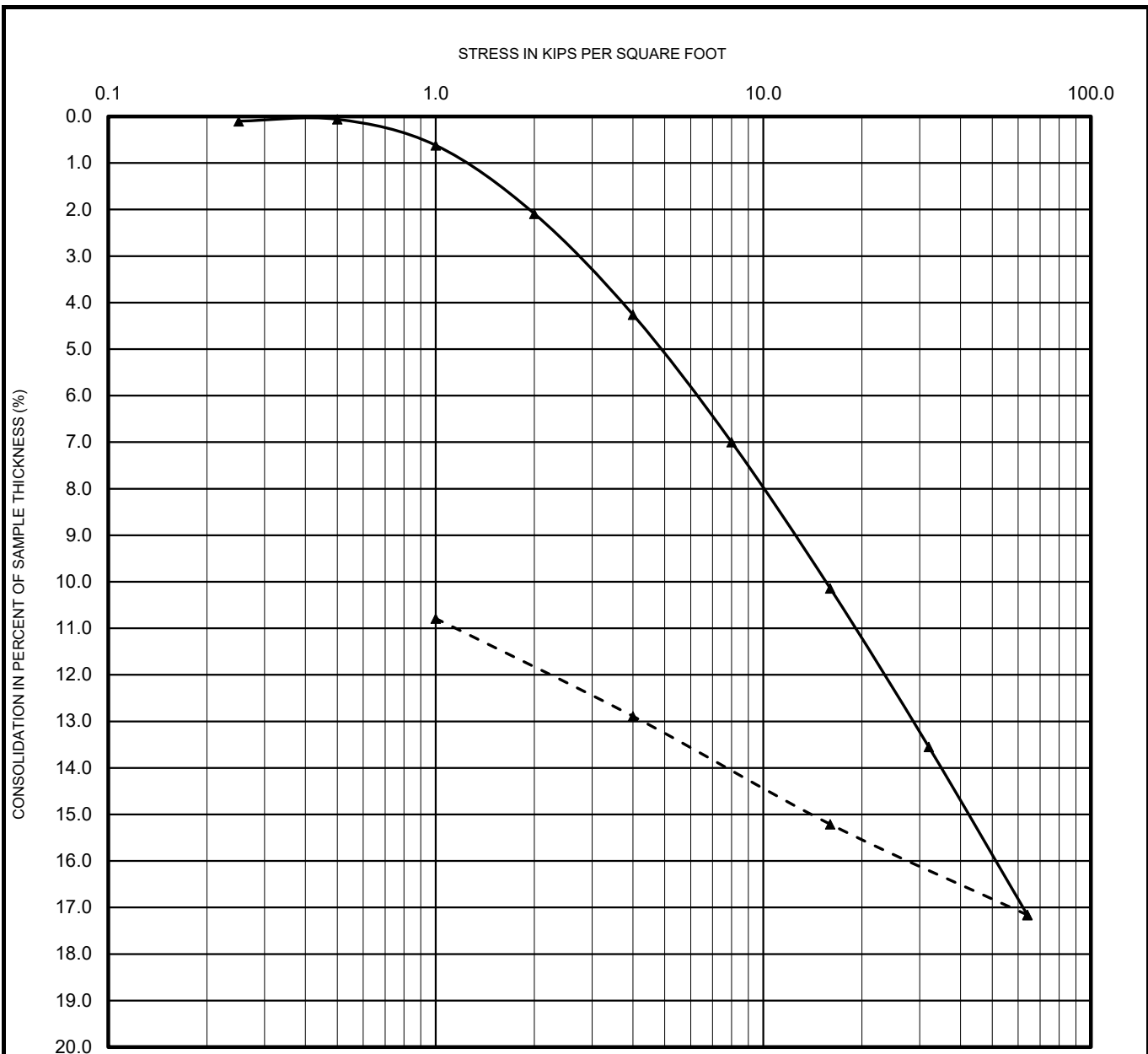
—▲— Loading After Inundation	Sample Location	NMB-7
-▲-- Rebound Cycle	Depth (ft)	6.0-6.5
	Soil Type	SC

PERFORMED IN ACCORDANCE WITH ASTM D 2435

FIGURE C-21

CONSOLIDATION TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA



—▲— Loading After Inundation
 -▲- Rebound Cycle

Sample Location
 Depth (ft)
 Soil Type

NMB-7
 14.5-15.0
 CL

PERFORMED IN ACCORDANCE WITH ASTM D 2435

FIGURE C-22

CONSOLIDATION TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
 2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA



—▲— Loading After Inundation
 -▲-- Rebound Cycle

Sample Location
 Depth (ft)
 Soil Type

NMB-7
 19.5-20.0
 CH

PERFORMED IN ACCORDANCE WITH ASTM D 2435

FIGURE C-23

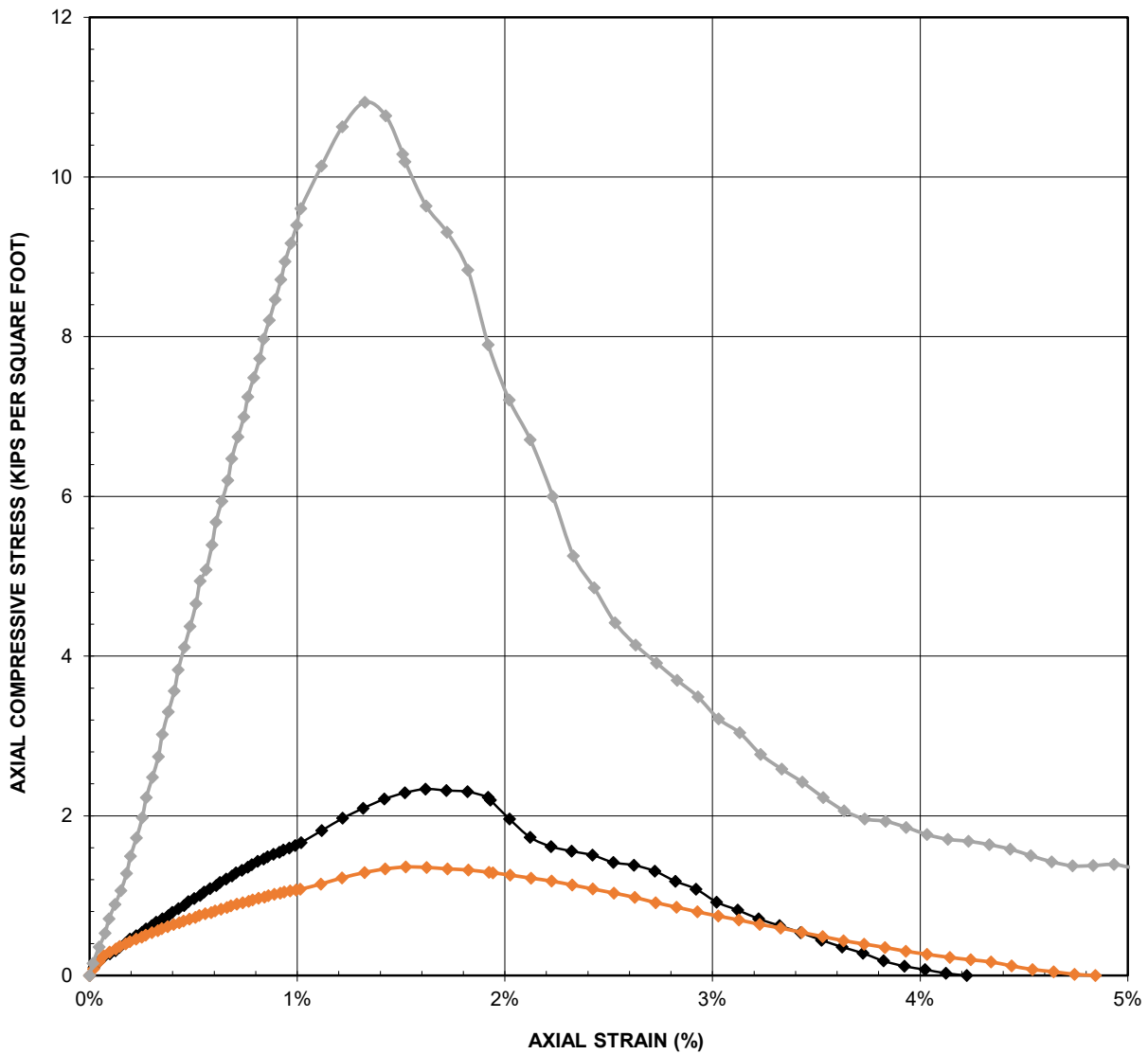
CONSOLIDATION TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
 2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA

SAMPLE LOCATION	SAMPLE DEPTH (ft)	INITIAL MOISTURE (percent)	COMPACTED DRY DENSITY (pcf)	FINAL MOISTURE (percent)	VOLUMETRIC SWELL (in)	EXPANSION INDEX	POTENTIAL EXPANSION
NMB-2	0.0-5.0	15.0	92.8	30.0	0.039	39	Low
NMB-6	0.0-5.5	18.0	85.8	33.6	0.024	24	Low

PERFORMED IN ACCORDANCE WITH ASTM D 4829

FIGURE C-24

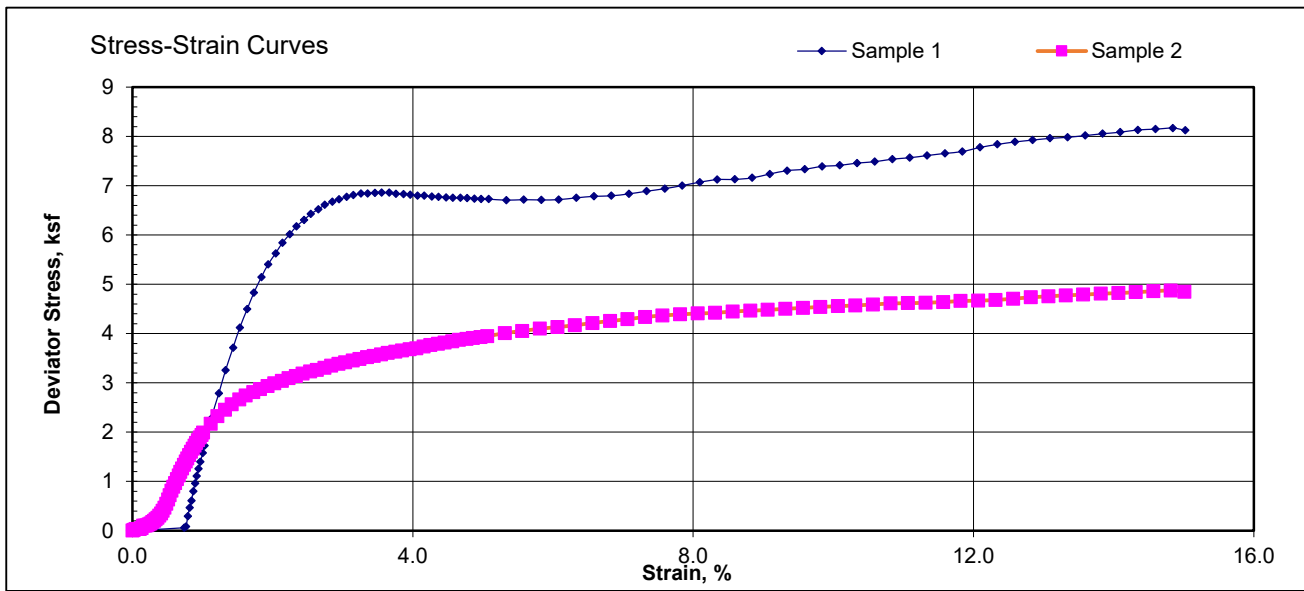
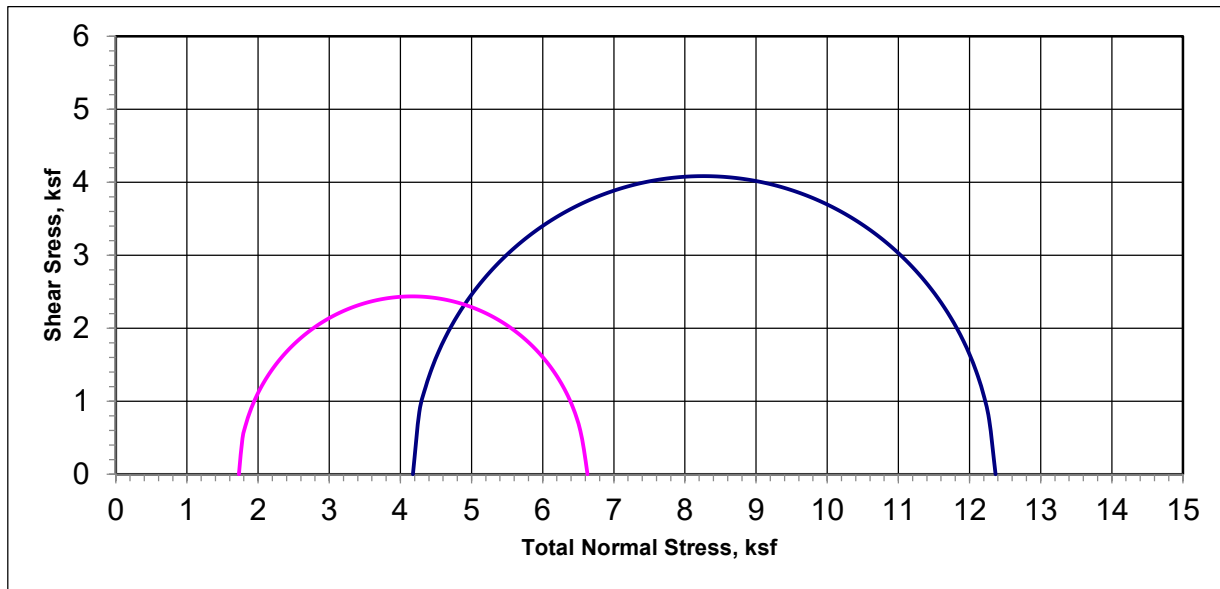


SYMBOL	DESCRIPTION	SOIL TYPE	SAMPLE LOCATION	SAMPLE DEPTH (ft.)	MOISTURE CONTENT w, (%)	DRY DENSITY γ_d , (pcf)	STRAIN RATE (%/min.)	UNDRAINED SHEAR STR s_u , (ksf)
◆	Clayey SAND	SC	NMB-3	14.5-15.0	24.0	94.0	1.00	1.04
◆	Clayey SAND	SC	NMB-4	3.0-3.5	19.2	89.5	1.00	0.61
◆	Sandy CLAY	CL	NMB-9	11.0-11.5	21.2	95.7	1.00	4.89

PERFORMED IN ACCORDANCE WITH ASTM D 2166

FIGURE C-25

UNCONFINED COMPRESSION RESULTS

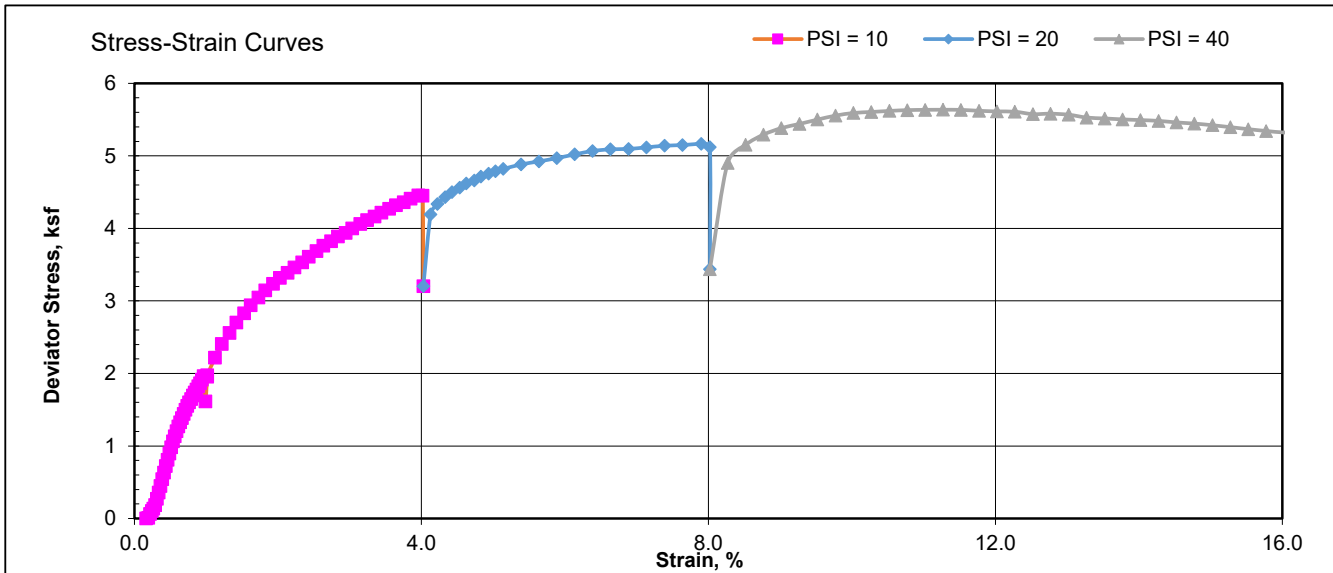
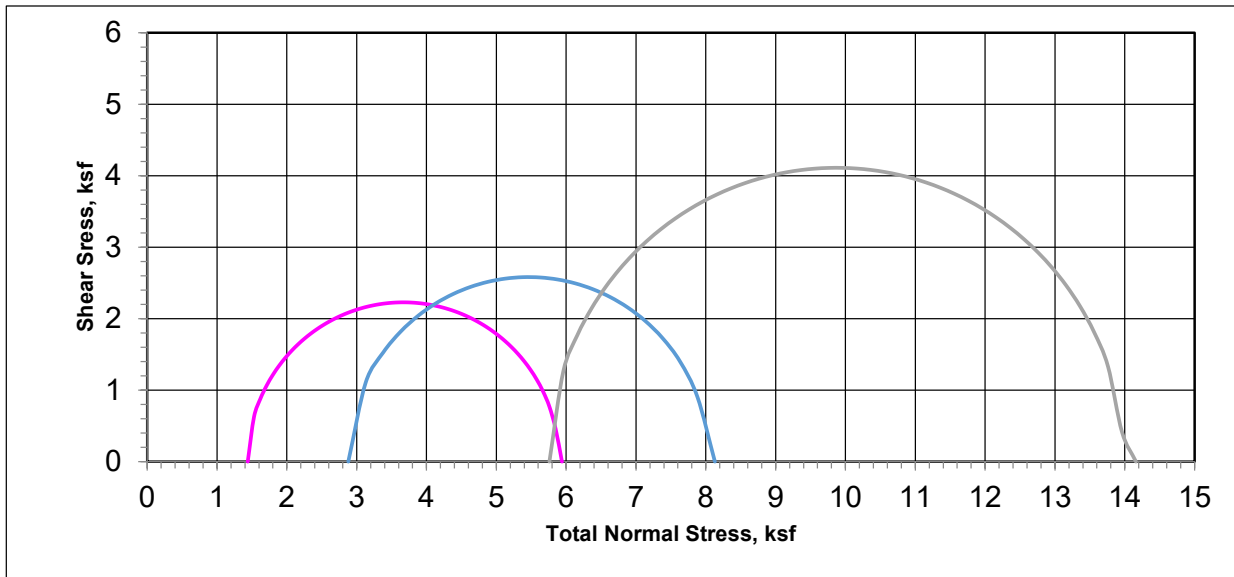


SYMBOL	DESCRIPTION	SOIL TYPE	SAMPLE LOCATION	SAMPLE DEPTH (ft.)	MOISTURE CONTENT w , (%)	DRY DENSITY γ_d , (pcf)	CELL PRESSURE (ksf)	UNDRAINED SHEAR STRENGTH s_u , (ksf)
■	Hambre Siltstone	--	NMB-1	9.0-9.5	25.8	77.2	1.73	2.44
◆	Briones Siltstone	--	NMB-7	34.5-35.0	22.9	96.8	4.18	4.08

PERFORMED IN ACCORDANCE WITH ASTM D 2850
 STRAIN RATE: 1.0%/MIN

FIGURE C-26

UNCONSOLIDATED-UNDRAINED TRIAXIAL TEST

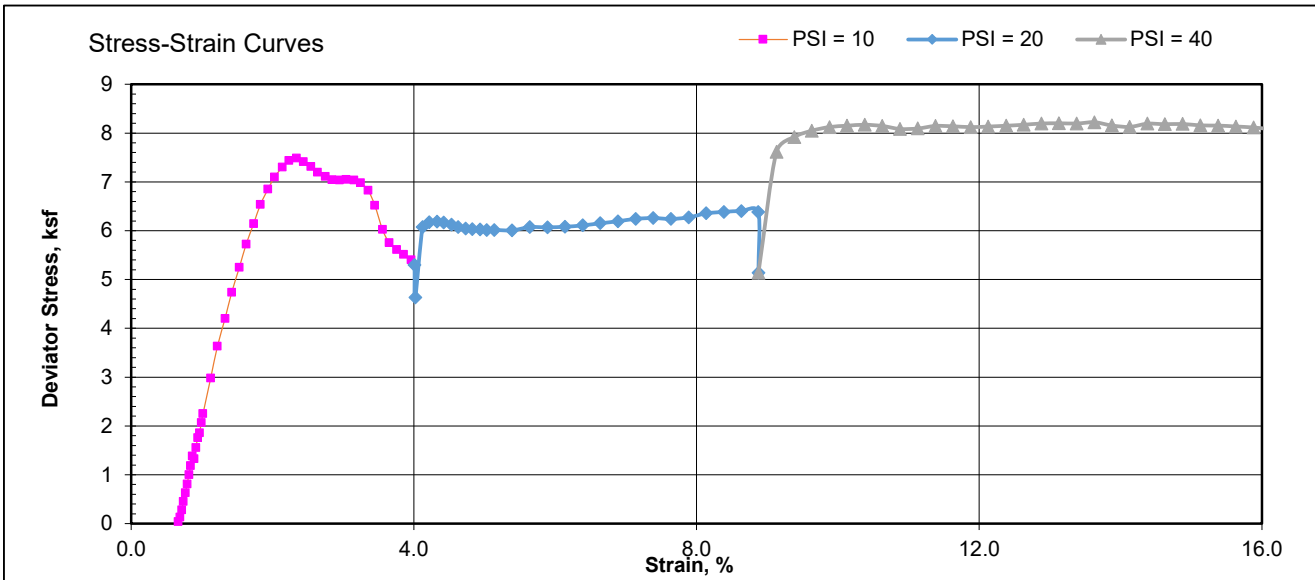
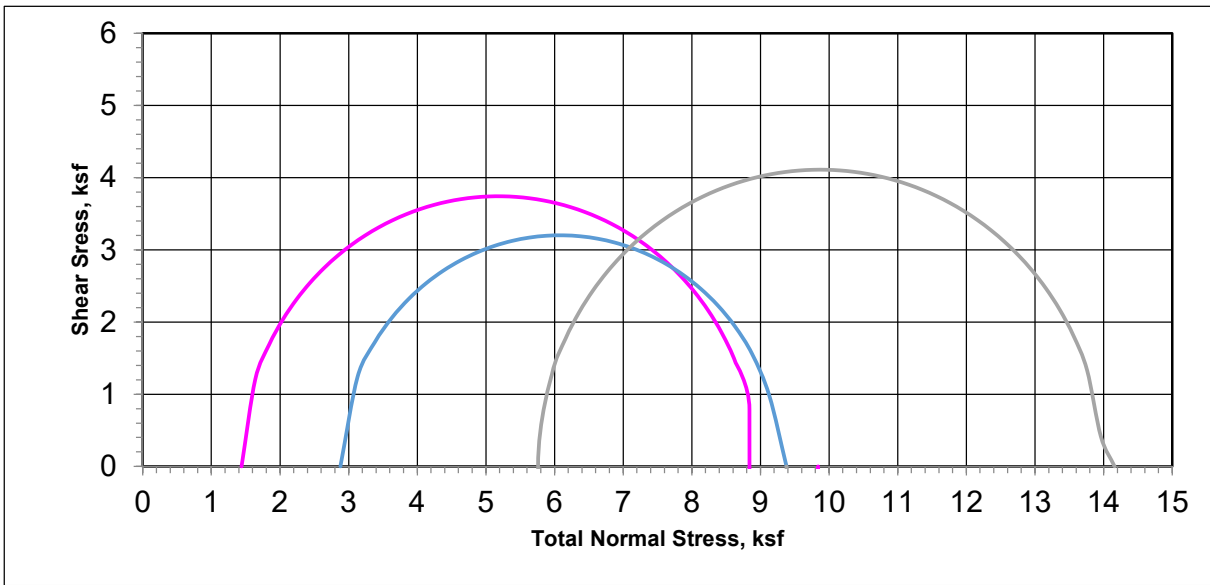


SYMBOL	DESCRIPTION	SOIL TYPE	SAMPLE LOCATION	SAMPLE DEPTH (ft.)	MOISTURE CONTENT w , (%)	DRY DENSITY γ_d , (pcf)	CELL PRESSURE (ksf)	UNDRAINED SHEAR STRENGTH s_u , (ksf)
■	Silty SAND	SM	NMB-3	19.5-20	26.5	91.3	1.44	2.23
■	Silty SAND	SM	NMB-3	19.5-20	26.5	91.3	2.88	2.56
■	Silty SAND	SM	NMB-3	19.5-20	26.5	91.3	5.76	2.82

PERFORMED IN ACCORDANCE WITH ASTM D 2850
 STRAIN RATE: 1.0%/MIN

FIGURE C-27

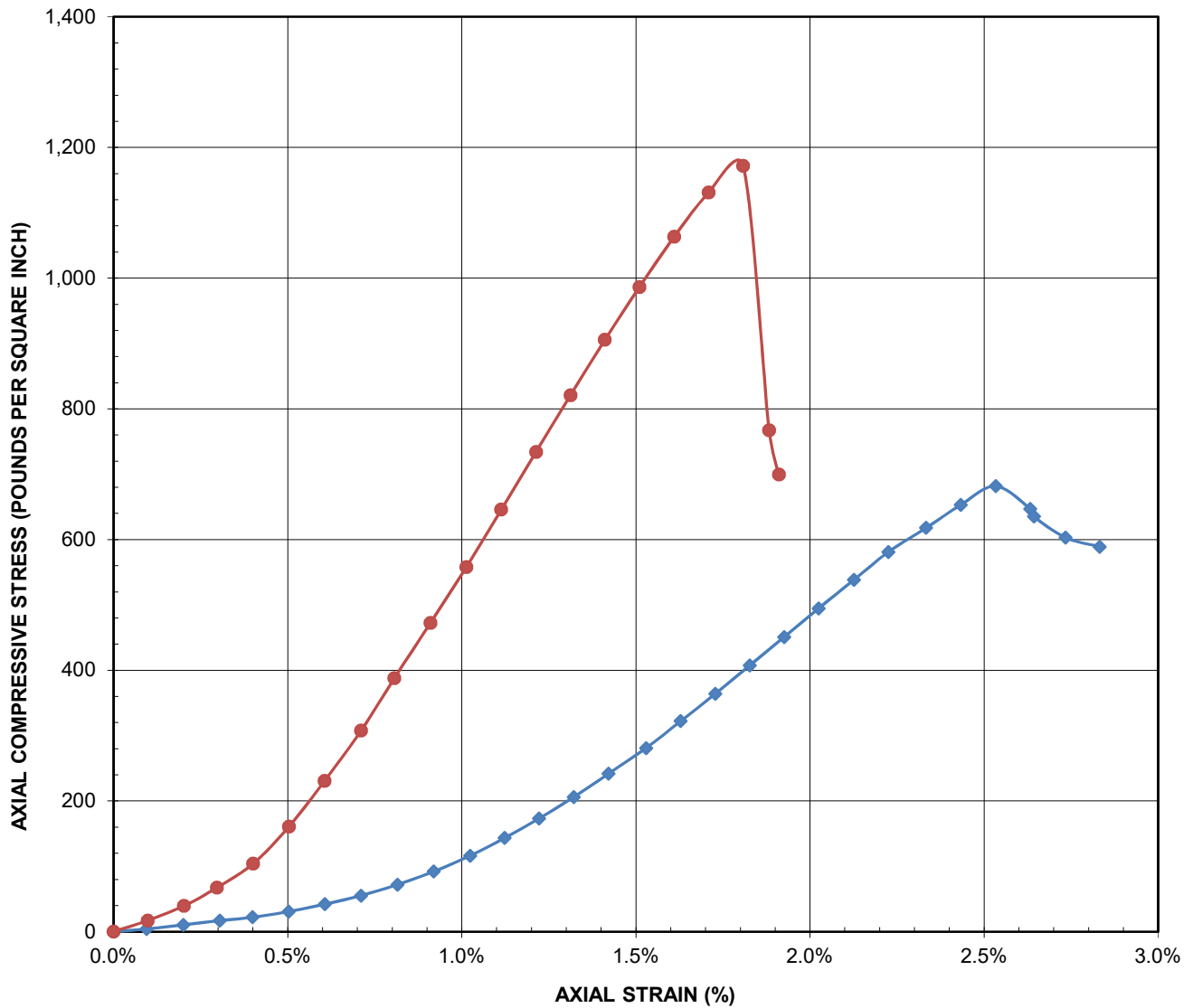
UNCONSOLIDATED-UNDRAINED TRIAXIAL TEST



SYMBOL	DESCRIPTION	SOIL TYPE	SAMPLE LOCATION	SAMPLE DEPTH (ft.)	MOISTURE CONTENT w, (%)	DRY DENSITY γ_d , (pcf)	CELL PRESSURE (ksf)	UNDRAINED SHEAR STRENGTH s_u , (ksf)
■	Briones Siltstone	--	NMB-6	19.5-20	28.9	91.3	1.44	3.74
■	Briones Siltstone	--	NMB-6	19.5-20	28.9	91.3	2.88	3.20
■	Briones Siltstone	--	NMB-6	19.5-20	28.9	91.3	5.76	4.11

PERFORMED IN ACCORDANCE WITH ASTM D 2850
 STRAIN RATE: 1.0%/MIN

FIGURE C-28

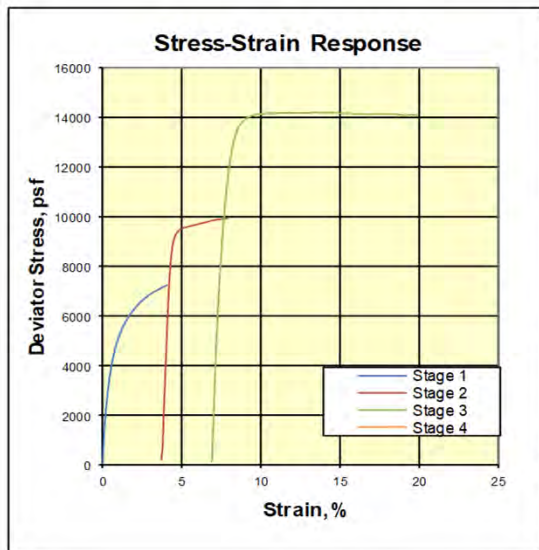
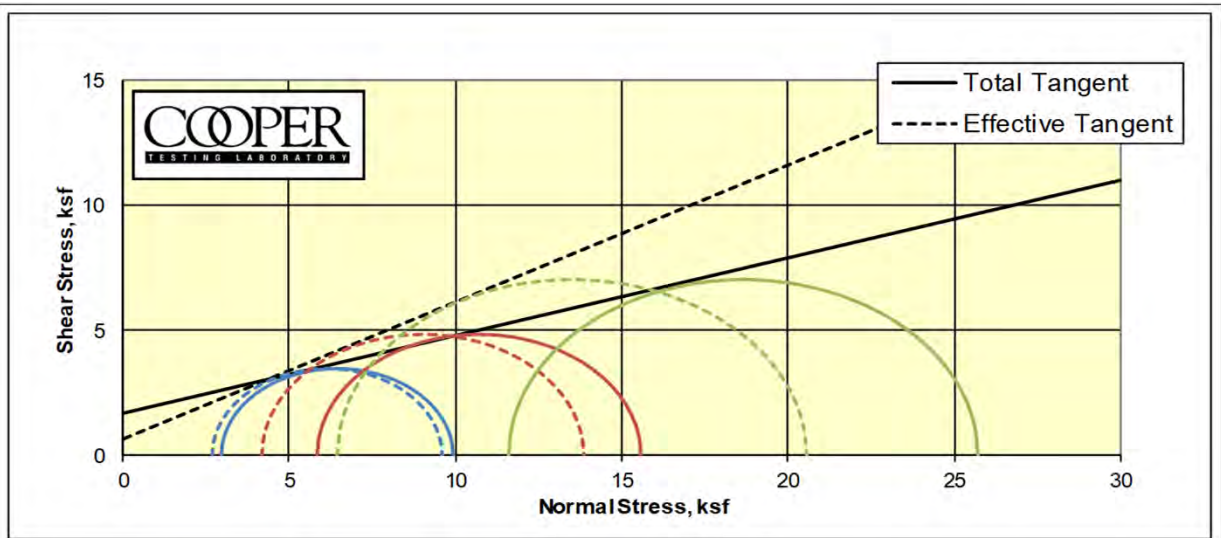


SYMBOL	DESCRIPTION	SAMPLE LOCATION	SAMPLE DEPTH (feet)	SPECIMEN LENGTH (inches)	SPECIMEN DIAMETER (inches)	PEAK LOAD (lbs)	COMPRESS STRENGTH (psi)	YOUNGS MODULUS (ksi)
◆	Hambre Formation: Siltstone	NMB-1	20.6-21.0	4.04	2.27	2,754	680	38
●	Hambre Formation: Siltstone	NMB-1	21.0-21.5	4.47	2.31	4,909	1,170	80

PERFORMED IN ACCORDANCE WITH ASTM D 7012

FIGURE C-29

ROCK CORE UNCONFINED COMPRESSION RESULTS



Stage	1	2	3	4
Boring	NM B-4			
Sample				
Depth	14.5-15.0			
Visual Description	Olive Brown Sandy CLAY			
MC (%)	28.0			
Dry Density (pcf)	94.1			
Saturation (%)	93.5			
Void Ratio	0.824			
Diameter (in)	2.42			
Height (in)	5.03			
	Final			
MC (%)	26.7	26.2	25.2	
Dry Density (pcf)	99.0	99.8	101.4	
Saturation (%)	100.0	100.0	100.0	
Void Ratio	0.735	0.720	0.693	
Diameter (in)	2.39	2.42	2.44	
Height (in)	4.92	4.74	4.58	
Cell Pressure (psi)	90.0	109.9	150.1	
Back Pressure (psi)	69.5	69.4	69.5	
	Effective Stresses At:			
Strain (%)	3.2	2.5	2.9	
Deviator (ksf)	6.953	9.728	14.115	
Excess PP (psi)	2.1	11.7	35.8	
Sigma 1 (ksf)	9.604	13.880	20.560	
Sigma 3 (ksf)	2.651	4.151	6.445	
P (ksf)	6.128	9.016	13.503	
Q (ksf)	3.476	4.864	7.057	
Stress Ratio	3.622	3.343	3.190	
Rate (in/min)	0.0005	0.0005	0.0005	

CTL Number:	357-131		
Client Name:	Ninyo & Moore		
Project Name:	2201 Larkey Lane		
Project Number:	403982001		
Date:	11/5/2021	By:	MD/DC
Total C	1.700	ksf	
Total phi	17.2	degrees	
Eff. C	0.650	ksf	
Eff. Phi	28.7	degrees	©

Remarks: Per the clients request the sample was consolidated to 80psi before rebounding to 20psi. Stage 1 was run at 20psi, and was strained to 4% strain. Stage 2 was run at 40 psi and was strained an additional 4% strain. Stage 3 was run at 80psi, and was strained an additional 14% strain. Strengths picked at the peak effective stress ratios.

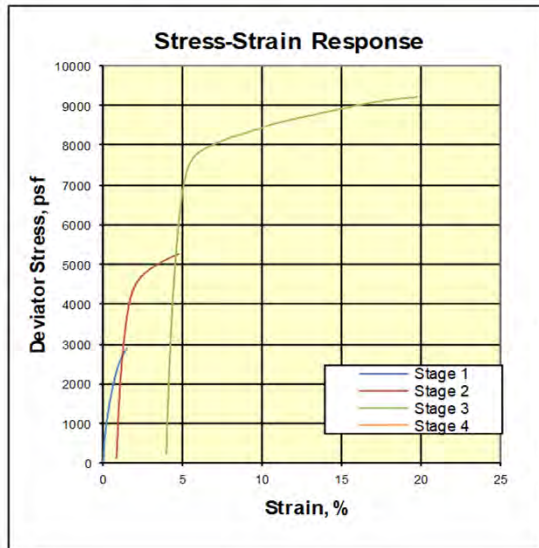
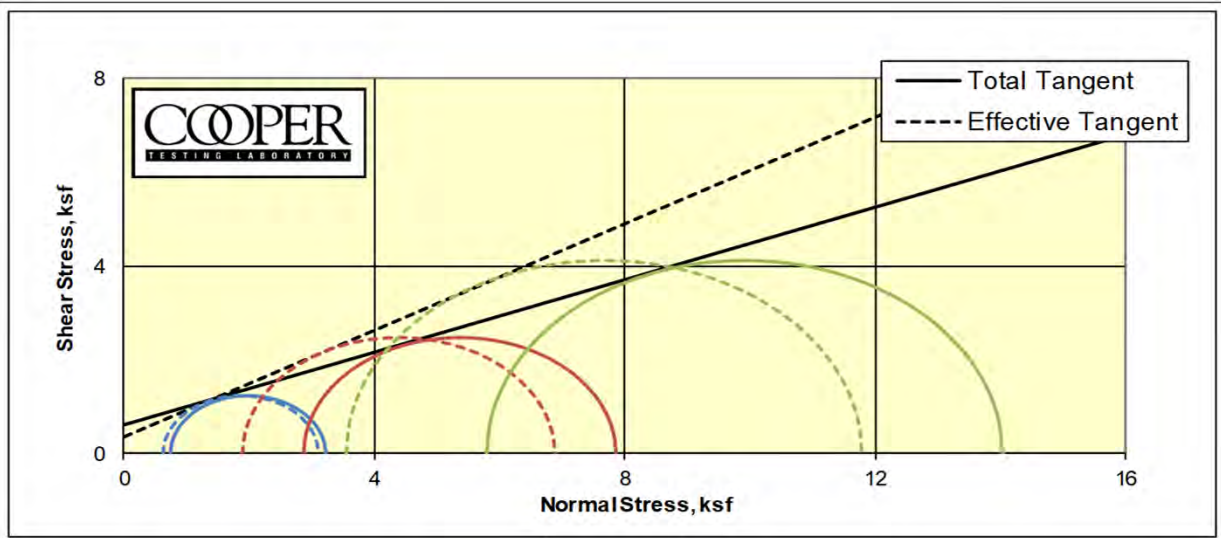
PERFORMED IN ACCORDANCE WITH ASTM D 4767

FIGURE C-30



CONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA



Stage	1	2	3	4
Boring	NMB-7			
Sample				
Depth	9.5-10.0			
Visual Description	Grayish Brown Clayey SAND			
MC (%)	23.5			
Dry Density (pcf)	96.3			
Saturation (%)	84.4			
Void Ratio	0.751			
Diameter (in)	2.41			
Height (in)	5.01			
	Final			
MC (%)	26.1	25.3	24.5	
Dry Density (pcf)	99.0	100.1	101.5	
Saturation (%)	100.0	100.0	100.0	
Void Ratio	0.703	0.684	0.661	
Diameter (in)	2.39	2.38	2.41	
Height (in)	4.97	4.93	4.77	
Cell Pressure (psi)	85.1	99.8	119.8	
Back Pressure (psi)	80.0	79.8	79.6	
	Effective Stresses At:			
Strain (%)	1.0	2.5	4.9	
Deviator (ksf)	2.499	4.976	8.257	
Excess PP (psi)	0.7	6.8	15.6	
Sigma 1 (ksf)	3.125	6.886	11.803	
Sigma 3 (ksf)	0.626	1.910	3.546	
P (ksf)	1.875	4.398	7.674	
Q (ksf)	1.250	2.488	4.128	
Stress Ratio	4.993	3.605	3.329	
Rate (in/min)	0.0005	0.0005	0.0005	

CTL Number:	357-131		
Client Name:	Ninyo & Moore		
Project Name:	2201 Larkey Lane		
Project Number:	403982001		
Date:	11/5/2021	By:	MD/DC
Total C	0.600	ksf	
Total phi	21.1	degrees	
Eff. C	0.350	ksf	
Eff. Phi	29.6	degrees	©

Remarks: Per the clients request the sample was consolidated to 40psi before rebounding to 5psi. Stage 1 was run at 5psi, and was strained to 1.5% strain. Stage 2 was run at 20 psi and was strained an additional 4% strain. Stage 3 was run at 40psi, and was strained an additional 16.5% strain. Strengths picked at the peak effective stress ratios.

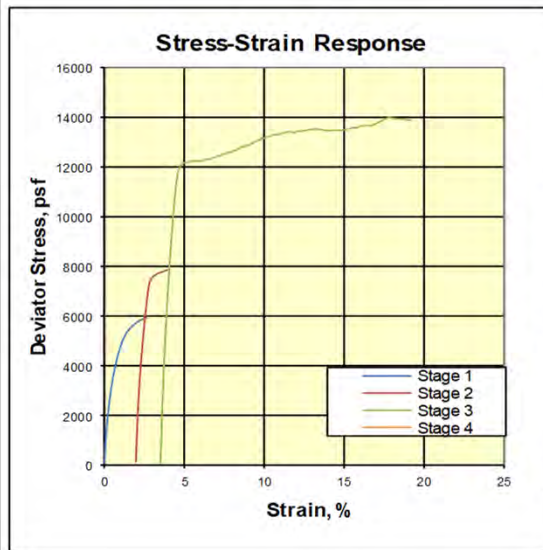
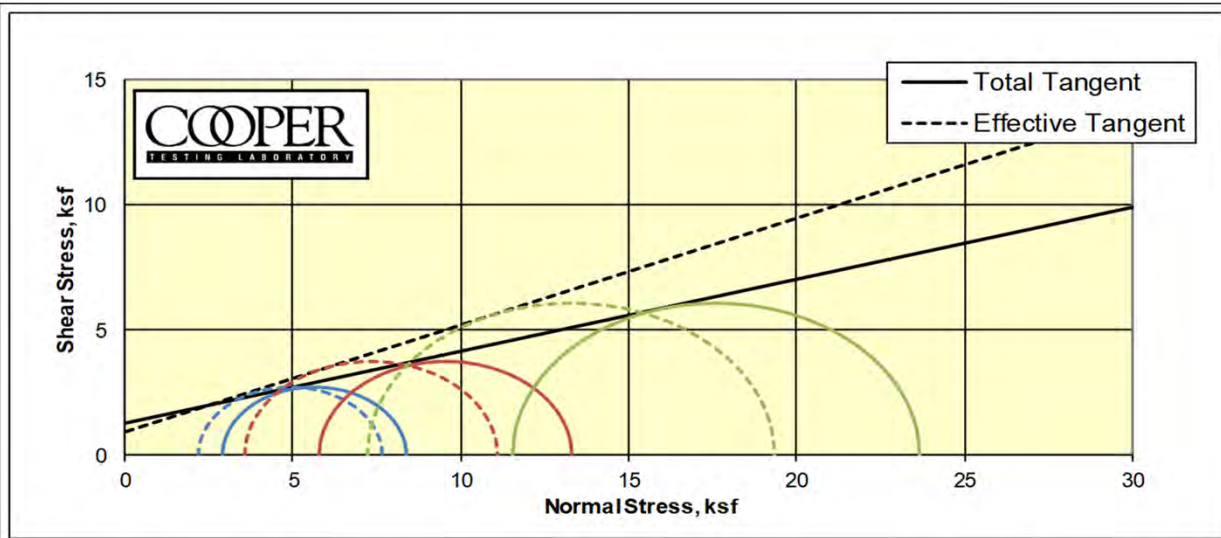
PERFORMED IN ACCORDANCE WITH ASTM D 4767

FIGURE C-31



CONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA



Stage	1	2	3	4
Boring	NMB-7			
Sample				
Depth	24.5-25.0			
Visual Description	Olive Brown Siltstone			
MC (%)	29.8			
Dry Density (pcf)	88.6			
Saturation (%)	85.5			
Void Ratio	0.974			
Diameter (in)	2.42			
Height (in)	5.03			
	Final			
MC (%)	33.4	32.7	31.6	
Dry Density (pcf)	90.3	91.2	92.7	
Saturation (%)	100.0	100.0	100.0	
Void Ratio	0.936	0.916	0.885	
Diameter (in)	2.41	2.42	2.42	
Height (in)	4.99	4.89	4.82	
Cell Pressure (psi)	79.8	100.0	139.9	
Back Pressure (psi)	59.8	59.9	59.9	
	Effective Stresses At:			
Strain (%)	1.5	1.0	1.5	
Deviator (ksf)	5.500	7.551	12.125	
Excess PP (psi)	4.9	15.4	30.0	
Sigma 1 (ksf)	7.667	11.108	19.330	
Sigma 3 (ksf)	2.167	3.557	7.205	
P (ksf)	4.917	7.333	13.267	
Q (ksf)	2.750	3.776	6.063	
Stress Ratio	3.538	3.123	2.683	
Rate (in/m in)	0.0005	0.0005	0.0005	

CTL Number:	357-131		
Client Name:	Ninyo & Moore		
Project Name:	2201 Larkey Lane		
Project Number:	403982001		
Date:	11/5/2021	By:	MD/DC
Total C	1.300	ksf	
Total phi	16.0	degrees	
Eff. C	0.950	ksf	
Eff. Phi	23.1	degrees	©

Remarks: Per the clients request the sample was consolidated to 80psi before rebounding to 20psi. Stage 1 was run at 20psi, and was strained to 2.6% strain. Stage 2 was run at 40 psi and was strained an additional 2.1% strain. Stage 3 was run at 80psi, and was strained an additional 16.3% strain. Strengths picked at the peak effective stress ratios.

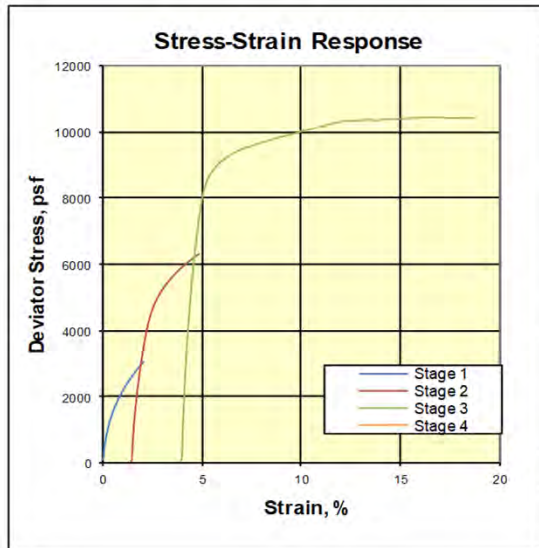
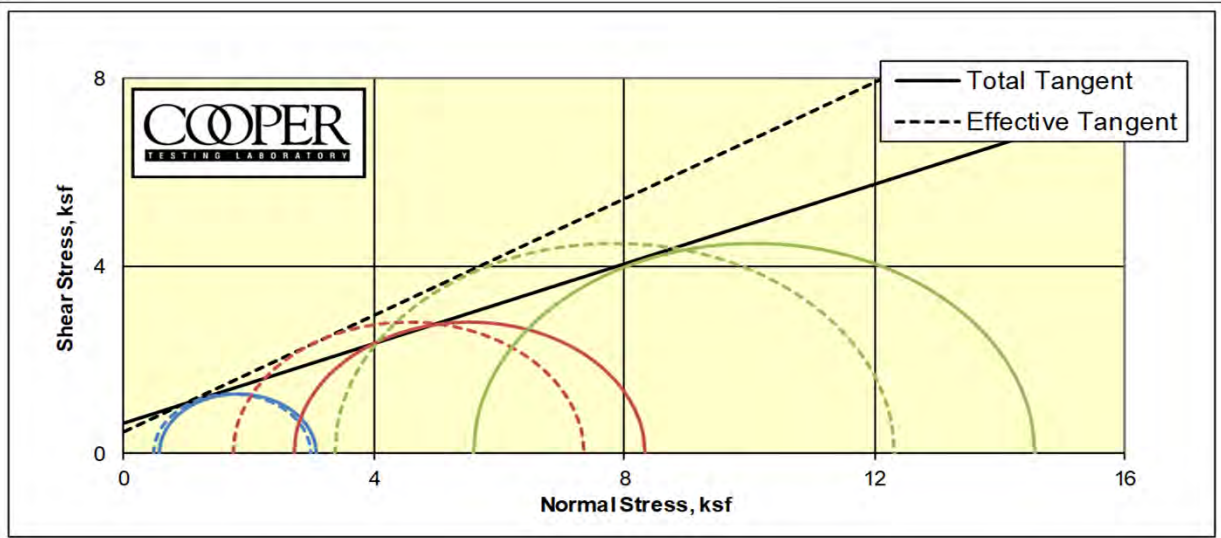
PERFORMED IN ACCORDANCE WITH ASTM D 4767

FIGURE C-32



CONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA



Stage	1	2	3	4
Boring	NMB-9			
Sample				
Depth	16.0 - 16.5			
Visual Description	Grayish Brown Siltstone			
MC (%)	20.5			
Dry Density (pcf)	90.7			
Saturation (%)	61.9			
Void Ratio	0.926			
Diameter (in)	2.42			
Height (in)	5.01			
	Final			
MC (%)	34.0	33.2	32.5	
Dry Density (pcf)	89.6	90.5	91.5	
Saturation (%)	100.0	100.0	100.0	
Void Ratio	0.952	0.930	0.910	
Diameter (in)	2.44	2.44	2.46	
Height (in)	5.01	4.94	4.81	
Cell Pressure (psi)	104.9	119.8	139.7	
Back Pressure (psi)	100.9	100.9	100.8	
	Effective Stresses At:			
Strain (%)	1.3	2.1	1.9	
Deviator (ksf)	2.513	5.620	8.957	
Excess PP (psi)	0.6	6.8	15.5	
Sigma 1 (ksf)	3.005	7.363	12.327	
Sigma 3 (ksf)	0.492	1.744	3.369	
P (ksf)	1.749	4.554	7.848	
Q (ksf)	1.257	2.810	4.479	
Stress Ratio	6.111	4.223	3.658	
Rate (in/min)	0.0005	0.0005	0.0005	

CTL Number:	357-131		
Client Name:	Ninyo & Moore		
Project Name:	2201 Larkey Lane		
Project Number:	403982001		
Date:	11/11/2021	By:	MD/DC
Total C	0.650	ksf	
Total phi	22.9	degrees	
Eff. C	0.450	ksf	
Eff. Phi	31.8	degrees	©

Remarks: Per the clients request the sample was consolidated to 40psi before rebounding to 5psi. Stage 1 was run at 5psi, and was strained to 2% strain. Stage 2 was run at 20 psi and was strained an additional 3.5% strain. Stage 3 was run at 40psi, and was strained an additional 15.5% strain. Strengths picked at the peak effective stress ratios.

PERFORMED IN ACCORDANCE WITH ASTM D 4767

FIGURE C-33



CONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA

21 January, 2022

Job No. 2201023
Cust. No.13270

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Mr. Peter Connolly
Ninyo & Moore
2149 O'Toole Avenue, Suite 30
San Jose, CA 95131

Subject: Project No.: 403982001
Project Name: Walnut Creek Water Treatment Plant, 2201 Larkey Lane, Walnut Creek
Corrosivity Analysis – ASTM Test Methods

Dear Mr. Connolly:

Pursuant to your request, CERCO Analytical has analyzed the soil samples submitted on January 20, 2022. Based on the analytical results, this brief corrosivity evaluation is enclosed for your consideration.

Based upon the 100% saturated resistivity measurements, all three of the samples are classified as "corrosive". All buried iron, steel, cast iron, ductile iron, galvanized steel and dielectric coated steel or iron should be properly protected against corrosion depending upon the critical nature of the structure. All buried metallic pressure piping such as ductile iron firewater pipelines should be protected against corrosion.

The chloride ion concentrations ranged from none detected to 90 mg/kg. Because the chloride ion concentrations are less than 300 mg/kg, they are determined to be insufficient to attack steel embedded in a concrete mortar coating.

The sulfate ion concentrations ranged from 40 to 1,300 mg/kg and are determined to be sufficient to damage reinforced concrete structures and cement mortar-coated steel at these locations. Therefore, concrete that comes into contact with this soil should use sulfate resistant cement such as Type II, in accordance with the California Building Code requirements with a maximum water-to-cement ratio of 0.50.

The sulfide ion concentrations reflect none detected with a detection limit of 50 mg/kg.


The pH of the soils ranged from 6.20 to 8.35 which does not present corrosion problems for buried iron, steel, mortar-coated steel and reinforced concrete structures.

The redox potentials range from 320 to 430-mV. Samples No.002 and No.003 are indicative of potentially "slightly corrosive" soils resulting from anaerobic soil conditions, and Sample No.001 is indicative of aerobic soil conditions.

This corrosivity evaluation is based on general corrosion engineering standards and is non-specific in nature. For specific long-term corrosion control design recommendations or consultation, please call *JDH Corrosion Consultants, Inc.* at (925) 927-6630.

We appreciate the opportunity of working with you on this project. If you have any questions, or if you require further information, please do not hesitate to contact us.

Very truly yours,
CERCO ANALYTICAL, INC.



J. Darby Howard, Jr., P.E.
President
JDH/jdl

Enclosure

Client: Ninyo & Moore
 Client's Project No.: 403982001
 Client's Project Name: Walnut Creek Water Treatment Plant
 Date Sampled: 8-Oct-21
 Date Received: 20-Jan-22
 Matrix: Soil
 Authorization: Signed Chain of Custody

Date of Report: 21-Jan-2022

Job/Sample No.	Sample I.D.	Redox (mV)	pH	Resistivity (As Received) (ohms-cm)	Resistivity (100% Saturation) (ohms-cm)	Sulfide (mg/kg)*	Chloride (mg/kg)*	Sulfate (mg/kg)*
2201023-001	NMB-2 0.0-50'	430	6.20	16,000	1,600	N.D.	N.D.	58
2201023-002	NMB-5 0.0-5.0'	300	7.80	770	560	N.D.	90	1,300
2201023-003	NMB-9 10.0-11.0'	320	8.35	2,700	990	N.D.	N.D.	40

Method:	ASTM D1498	ASTM D4972	ASTM G57	ASTM G57	ASTM D4658M	ASTM D4327	ASTM D4327
Reporting Limit:	-	-	-	-	50	15	15
Date Analyzed:	21-Jan-2022	21-Jan-2022	20-Jan-2022	20-Jan-2022	21-Jan-2022	21-Jan-2022	21-Jan-2022



Sherri Moore
Chemist

* Results Reported on "As Received" Basis
N.D. - None Detected



APPENDIX D

Laboratory Testing from Previous Investigations

Boring ID	Sample Depth (feet)	N60,spt bpf	Formation (USCS)	Percent Moisture Content	Dry Density (pcf)	Liquid Limit	Plasticity Index	Percent Gravel	Percent Sand	Percent Fines	Strength & Consolidation Results	Other Test Results	
MM-1	3	14	Fill(CH)	27.4		54	33					SG = 2.75	
	6	13	Fill(CH)	32.2		52	30			74			
	9	23	Fill(ML)	27.4		40	8						
	12		Fill(SM)	27.4	94.5					36	CU: Su=2.7 ksf (1.3 ksf)	SG=2.69	
	14	29	Fill(SM)	30.4						47			
	16	32	Fill(SM)	27.6									
	19	22	Fill(SM)	29.6						45			
	22		Fill(SM)	25.2	96.2					35	CU: Su=3.1 ksf (2.6 ksf)		
	24	45	Fill(SM)	24.9						43			
	26	32	Fill(SM)	22.1									
	29	49	Fill(SM)	21.6						44			
	34	47	Fill(SM)	24.6						39			
	36	34	Fill(SM)	22.3									
	39	37	Fill(SM)	24.8					27	30	43		
	41		Fill(SM)	22.1	97.2						34	CU: Su=6.6 ksf (5.1 ksf)	
	42		Fill(GM)	9.2	112.0				29	26	45		pH=6.3
	44	30	Fill(SM)	25.7			41	14					
	47	49	Fill(GM)	24.2					45	27	28		
	50		Fill(SM)	24.1	92.7						37	CU: Su=6.4 ksf (5.9 ksf)	
	52		Fill(SM)		90.2							CU: Su=5.0 ksf (6.6 ksf)	
54		Fill(SM)	29.5	93.3				18	56	26		pH = 5.7	
55		Fill(SM)	32.1	89.4						45			
56	56	Fill(SM)	30.3		39	9							
59		Fill(ML/GM)	30.2	89.8							CU: Su=3.2 ksf (2.4 ksf) CU: Su=6.1 ksf (4.9 ksf) CU: Su=8.6 ksf (7.1 ksf)		
60		Fill(GM)	33.6	100.4	60	24	30	26	43				
61	35	Fill(ML)	30.5										
66	50	Fill(SM)			39	5	19	39	42				
76	200	Sandstone											
MM-2	3	15	Fill(ML)	17.9		42	25			53			
	6	11	Fill(ML)	31.5		53	31						
	9	19	Fill(SM)	34.5		54	22			38			
	12		Fill(SM)	27.7	91.3	40	7				CU: Su=1.4 ksf (1.1 ksf)	SG=2.61	
	14	25	Fill(SM)	28.6						30			
	16	28	Fill(SM)	31.6									
	19	20	Fill(SM)	35.3				25	42	32			
	24	27	Fill(SM)	26.2				27	36	36			
	26	114	Sandstone										
MM-3	4	37	Fill(SM)	24.3						29			
	6	12	Fill(CL)	31.4		48	16						
	9	18	Fill(SM)	36.1		45	16	17	40	43			
	12		Fill(SM)	24.5	98.5	30	4			23	CU: Su=1.8 ksf (2.4 ksf)		
	14	24	Fill(CL)										
	16	25	Fill(SM)	32.8									
	19	26	Fill(SM)	25.1									
	22		Fill(SM)	36.4	81.8	40	13			30	CU: Su=5.7 ksf (4.5 ksf)		
	24	25	Fill(SM)	35.4									
	26	21	Fill(SM)	34.5				33	40	27			
	29	46	Fill(SM)	22.3									
	34	28	Fill(SM)	25.9		36	5						
	37		Fill(SM)	25.8	95.2						CU: Su=4.4 ksf (4.5 ksf)	SG=2.65	
36		Fill(SM)	25.8	95.2									
39	35	Fill(SM)	29.3		42	12			29				
41		Fill(SM)					37	55	8		pH=5.6		
42		Fill(SM)							27				

FIGURE D-1



SUMMARY OF TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA

Boring ID	Sample Depth (feet)	N60,spt bpf	Formation (USCS)	Percent Moisture Content	Dry Density (pcf)	Liquid Limit	Plasticity Index	Percent Gravel	Percent Sand	Percent Fines	Strength & Consolidation Results	Other Test Results
MM-3 (Cont)	44	27	Fill(SM)	31.2		39	8					
	46	45	Fill(SM)	30.6		37	6					
	49	40	Fill(SM)	30.8		44	13	21	44	35		
	51		Fill(SM)	29.8	90.0					35	CU: Su=6.2 ksf (6.4 ksf)	
	54	55	Sandstone	24.8		39	5	21	38	41		
	56	50	Sandstone									
	58	120	Sandstone									
	62		Siltstone	27.0	95.9							CU: Su=7.6 ksf (7.6 ksf)
65	200	Siltstone										
MM-4	4	27	Fill(CL)	12.6		36	16					
	6	17	Fill(SM)	23.8						39		
	9	23	Fill(SM)	33.0		45	17					
	12		Fill(SM)	32.9	84.0					23	CU: Su=1.8 ksf (1.2 ksf)	
	14	23	Fill(SM)	32.9								
	16	23	Fill(CH)	35.3		58	29					
	19	21	Fill(CH)	31.9		55	28					
	22		Fill(SM/ML)	33.4	87.9	55	22			18	CU: Su=2.7 ksf (2.6 ksf)	SG=2.72
	24	27	Fill(SM/ML)	36.8								
	26	39	Fill(SM/ML)	24.3						51		
	29	33	Fill(SM/ML)	27.3		38	9					
	32		Siltstone	27.3		38	9					CU: Su=2.7 ksf (2.6 ksf) CU: Su=7.1 ksf (5.0 ksf) CU: Su=9.8 ksf (7.0 ksf)
34	120	Siltstone										
MM-5	3	19	Fill(GP)									
	6	16	Fill(ML)	27.5		47	18					
	8	8	Fill(ML)	32.7		45	16					
	14	128	Sandstone									
MN-2	3	59	Siltstone	14.0		36	5					
	6	60	Siltstone	17.0		34	1			74		
MN-3	2	30	Soil(CL)							36		
	6	63	Siltstone							60		
	11		Sandstone	21.6	95.9						UU: Su=1.6 ksf (1.2 ksf)	SG=2.62
	21		Sandstone	23.1	100.3						UU: Su=0.9 ksf (2.4 ksf)	SG=2.62
MN-4	2	28	Claystone	27.0		52	14					
	6	36	Sandstone									SG=2.55
	11	90	Sandstone							46		
	16		Siltstone	22.1	100.8						UU: Su=4.4 ksf (1.8 ksf)	SG=2.57
MN-8	3	113	Sandstone									
	6	113	Sandstone									
	11		Sandstone	19.8	104.0						UU: Su=9.9 ksf (1.2 ksf)	SG=2.71
	13	75	Sandstone									
MN-9	3	19	Fill(CL)	20.0		38	18					
	6	8	Soil(ML)	25.0		43	21					
	9	11	Soil(ML)							66		
	14	54	Sandstone	22.0						44		
	20		Siltstone	25.6	96.4						UU: Su=0.4 ksf (2.2 ksf)	SG=2.57
	24	143	Claystone									
MN-10	3	38	Fill(SM)									
	6	24	Sandstone	17.2								
	11	41	Sandstone	18.3								
	16		Sandstone	16.0								SG=2.61
	18	102	Sandstone									
MN-13	2	90	Sandstone									
	7		Sandstone	17.8	109.3						UU: Su=3.6 ksf (0.6 ksf)	SG=2.63
	18	102	Sandstone									

FIGURE D-2

SUMMARY OF TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA

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Boring ID	Sample Depth (feet)	N60,spt bpf	Formation (USCS)	Percent Moisture Content	Dry Density (pcf)	Liquid Limit	Plasticity Index	Percent Gravel	Percent Sand	Percent Fines	Strength & Consolidation Results	Other Test Results
MN-14	3	31	Soil(CH)	15.0		52	33					
	5	113	Sandstone									
	12		Sandstone	19.8	112.7							SG=2.63
	20		Sandstone	18.9	103.4							SG=2.55
MN-15	3	11	Fill(CL/CH)	17.0								
	7	10	Fill(SC)	23.6	104.3	43	26					
	11	12	Soil(CH)	23.0		58	29					
	16	10	Soil(CH)	28.7	94.7							SG=2.50
	21	8	Soil(CH)	19.3								
	26	15	Claystone	28.0		68	43					
	31	41	Claystone	26.1								
	36	35	Siltstone	25.1	99.7						UU: Su=3.3 ksf (4.2 ksf)	SG=2.60
MN-16	47		Siltstone	13.5	116.8						CU: Su=4.6 ksf (5.4 ksf)	SG=2.63
	3	11	Claystone	28.8	92.1	62	34					SG=2.71
	6	26	Claystone	23.0		65	36					
	11	22	Claystone	29.0		66	36					
	16	7	Claystone	19.9	103.4						CU: Su=7.0 ksf (1.8 ksf)	
	20	95	Claystone	19.3								
	27		Claystone	18.9	107.3						UU: Su=3.4 ksf (3.0 ksf)	
	30	114	Siltstone									
MN-17	42		Siltstone	11.9	113.5						CU: Su=5.0 ksf (3.0 ksf) CU: Su=5.9 ksf (4.0 ksf) CU: Su=7.1 ksf (5.0 ksf)	SG=2.64
	3	15	Soil(CH)	14.0		51	32					
	6	13	Claystone	22.9	84.2						CU: Su=0.9 ksf (0.5 ksf) CU: Su=1.0 ksf (1.0 ksf)	
	11	23	Claystone	34.0		79	41					
	16	19	Claystone	32.7	87.2						CU: Su=1.9 ksf (1.8 ksf)	SG=2.53
	21	36	Claystone	32.8								
	26	35	Claystone	30.4	88.8						UU: Su=5.6 ksf (3.0 ksf)	SG=2.5
	31	86	Siltstone	27.2								
MN-18	42		Siltstone	12.7	112.7						CU: Su=13.4ksf (5.0 ksf)	SG=2.43
	3	29	Fill(CL)			40	20					
	6	25	Fill(CL)	21.0		38	13					
	11	11	Fill(CL)	23.3	104.8							SG=2.58
	16	14	Fill(CL)	28.0		45	24					
	21	11	Claystone	29.3	88.9						CU: Su=2.0 ksf (2.4 ksf)	SG=2.47
	26	27	Claystone	34.0		64	30					
	31	23	Claystone	33.1	86.9						UU: Su=1.5 ksf (3.6 ksf)	
	36	32	Claystone	48.4								
	40	80	Shale									
	46	63	Shale	24.6								
	51		Shale	20.4	109.6						UU: Su=0.9 ksf (6.0 ksf)	SG=2.62
	55	120	Shale	18.9								
70	64	Shale	20.3	105.4						CU: Su=2.5 ksf (5.0 ksf) CU: Su=3.0 ksf (6.0 ksf) CU: Su=3.3 ksf (7.0 ksf) UU: Su=1.7 ksf (8.0 ksf)	SG=2.58	
MN-19	82		Claystone	18.1	110.1						UU: Su=1.7 ksf (8.0 ksf)	
	3	7	Fill(CH)	24.0		85	54					
	6	13	Siltstone	21.7	90.4						CU: Su=4.4 ksf (0.6 ksf)	SG=2.58
	11	21	Claystone	34.0		68	36					
	16	32	Claystone	25.9	90.3						CU: Su=2.2 ksf (1.8 ksf) CU: Su=4.2 ksf (2.4 ksf) CU: Su=5.3 ksf (3.6 ksf)	
	21	50	Claystone	28.2								
	25	60	Claystone	30.4	90.6						UU: Su=6.8 ksf (3.0 ksf)	SG=2.59
	31	46	Claystone	32.0								
40	64	Shale	28.7	93.0						CU: Su=5.7 ksf (4.8 ksf)		

FIGURE D-3

SUMMARY OF TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA

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Boring ID	Sample Depth (feet)	N60,spt bpf	Formation (USCS)	Percent Moisture Content	Dry Density (pcf)	Liquid Limit	Plasticity Index	Percent Gravel	Percent Sand	Percent Fines	Strength & Consolidation Results	Other Test Results
MN-20	3	29	Fill(CL)	24.0		68	38					
	6	65	Siltstone	17.0		47	17					
MN-21	3	19	Soil(CH)	21.0		78	52					
	6	10	Siltstone	19.0		48	27					
	11	8	Claystone	30.5	88.2	71	37				UU: Su=2.5 ksf (1.2 ksf)	SG=2.58
	16	20	Claystone	34.0		64	29					
	21	29	Siltstone	22.3	100.1						UU: Su=4.2 ksf (2.4 ksf)	SG=2.66
	26	42	Siltstone	20.7								
MN-22	31	33	Siltstone	26.5	98.1						UU: Su=4.3 ksf (3.5 ksf)	SG=2.71
	2	53	Fill(SM)	10.5								
	5	75	Fill(SM)	5.8								
	11		Fill(SM)	17.5	113.2						UU: Su=1.1 ksf (1.2 ksf)	SG=2.58
MN-23	22		Sandstone								UU: Su=9.7 ksf (2.4 ksf)	SG=2.57
	32		Sandstone	14.8	114.5						UU: Su=2.3 ksf (3.6 ksf)	SG=2.63
	4	46	Fill(CL)	18.0	83.5	41	19			73		
	6	29	Fill(CL-ML)	20.9		40	15			69		
	11	39	Fill(CL)	20.3		35	9			54		
	16	31	Soil(CL)	25.0		39	18			83		
	21	16	Soil(CL)	22.2								
	27		Soil(CL)	21.4	106.3	37	17			84		
MN-23A	30	285	Soil(CL)									
	33	200	Siltstone	17.1						76		
	43	200	Siltstone	18.9								
	4	82	Fill(CL)	12.6		45	22			84		
	6	37	Fill(CL)									
	11	150	Fill(CL)									
	16	170	Fill(CL)									
	21	190	Sandstone	18.8								
MN-24	26	190	Sandstone									
	31	285	Sandstone	17.8								
	36	200	Sandstone									
	40	240	Sandstone	20.1								
	4	75	Soil(SM/SC)	13.4		33	9			48		
	6	113	Soil(SM/SC)	17.2								
	11	113	Sandstone	21.0						45		
MN-25	16	113	Sandstone									
	21	95	Sandstone	25.8								
	26	143	Sandstone									
	33		Sandstone	21.2	102.6							
	4	34	Fill(CL)	19.8		43	20			70		
	6	39	Fill(CL)	20.2		40	18			74		
	11	19	Claystone	28.6								
MN-26	16	39	Claystone									
	21	28	Claystone	29.9								
	28		Claystone	38.4	80.1							
	31	65	Claystone	20.9								
	36	93	Claystone									
	41	88	Claystone									
	48		Claystone	14.3	121.5							
	4	20	Claystone	29.7								
MN-26	6	27	Claystone	28.9								
	11	39	Claystone									
	18		Claystone	28.9	93.0							
	21	76	Claystone	26.6								
	26	95	Claystone									
	30	104	Claystone									

FIGURE D-4

SUMMARY OF TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA

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Boring ID	Sample Depth (feet)	N60,spt bpf	Formation (USCS)	Percent Moisture Content	Dry Density (pcf)	Liquid Limit	Plasticity Index	Percent Gravel	Percent Sand	Percent Fines	Strength & Consolidation Results	Other Test Results
MN-27	4	29	Fill(CL)	14.8		46	25			67		
	6	21	Fill(CL)	19.6		44	23					
	11	7	Soil(CH)	36.2		72	50			90		
	13	9	Soil(CH)	32.5	88.5	76	52			90		
	15	9	Soil(CH)	34.5	85.9							
	20	31	Claystone	30.7	91.1							
	28		Claystone	26.7	97.9							
MN-28A	4	20	Fill(CL)	14.0		38	17			72		
	6	34	Fill(CL)	17.6		46	21			77		
	11	14	Fill(CL)									
	16	26	Claystone	29.8								
	23		Claystone	35.4	87.3							
	26	42	Claystone	24.3								
	31	86	Claystone	24.5								
MN-29A	4	17	Claystone	30.3								
	6	29	Siltstone	30.7								
	11	23	Siltstone	29.3								
	16	43	Siltstone	29.8								
	23		Claystone	27.3	94.3					98		
	26	143	Claystone	25.7								
	30	162	Siltstone	25.1								
MN-30	4	49	Fill(CL)	12.8		47	26			68		
	6	29	Fill(CL)	8.5		32	13			76		
	11	18	Claystone	31.4								
	16	22	Claystone	32.0								
	21	36	Claystone	30.8								
	26	49	Claystone	31.7								
	31	54	Siltstone	29.9								
MN-31	4	150	Soil(CL)	21.6						56		
	6	113	Sandstone	19.6								
	11	150	Sandstone									
	16	255	Sandstone	14.9								
	21	285	Sandstone									
	28		Sandstone	17.4								
	31	143	Sandstone		113.4							
	36	200	Sandstone	18.6								
MN-32	2	450	Soil(SC)									
	5	100	Soil(SC)	36.4						34		
	10	128	Siltstone	19.8								
	15	128	Siltstone	17.0						57		
	23		Siltstone	18.0	108.5							
MN-33	3	75	Siltstone	13.0						66		
	5	75	Siltstone									
	10	100	Siltstone	22.0						53		
	15	145	Siltstone									
	23		Siltstone	17.6	110.5							
MN-34	4	57	Siltstone	16.2						60		
	5	225	Siltstone	17.0								
	10	90	Siltstone	15.0								
	14	170	Siltstone	11.3								

FIGURE D-5

SUMMARY OF TEST RESULTS

WALNUT CREEK WATER TREATMENT PLANT
2201 LARKEY LANE, WALNUT CREEK, CALIFORNIA

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Geotechnical Study for the Walnut Creek Water Treatment Plant Improvements Project

Walnut Creek, California

Prepared for:

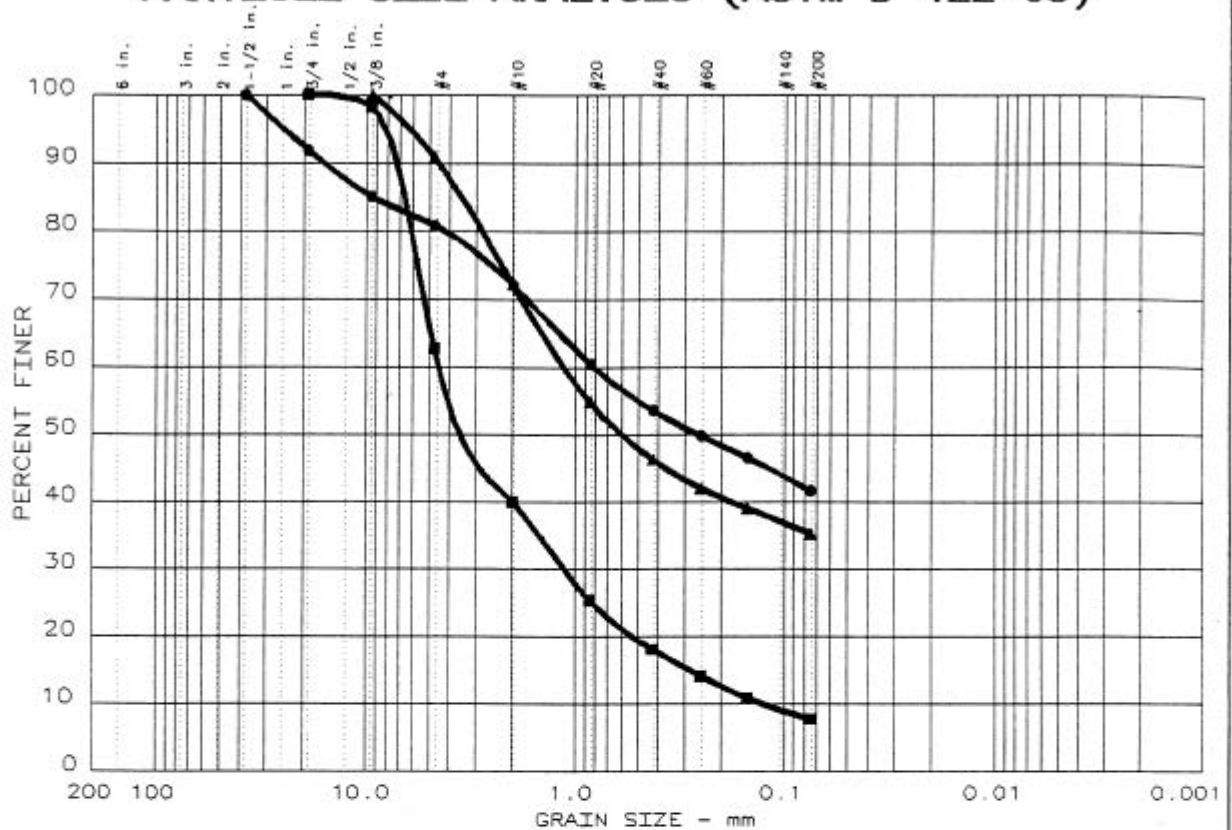
Carollo Engineers

2700 Ygnacio Valley Road, Suite 300
Walnut Creek, California 94598

August 2001

Project No. 6967.001.0

PARTICLE SIZE ANALYSIS (ASTM D 422-63)



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	19.2	39.2	41.6		SM		
▲	0.0	9.2	55.6	35.2		SM		
■	0.0	37.3	54.9	7.8		SW-SM		

SIEVE inches size	PERCENT FINER		
	●	▲	■
1.5	100.0		100.0
0.75	91.9		100.0
0.375	85.1	100.0	98.2
GRAIN SIZE			
D ₆₀	0.81	1.12	4.53
D ₃₀			1.11
D ₁₀			0.12
COEFFICIENTS			
C _c			2.14
C _u			35.5

SIEVE number size	PERCENT FINER		
	●	▲	■
4	80.8	90.8	62.7
10	72.1	72.2	40.0
20	60.5	54.9	25.3
40	53.6	46.3	18.1
60	49.7	42.0	14.1
100	46.5	39.0	10.8
200	41.6	35.3	7.8

Sample information:

- MM1 SPT-23&25 combined
Dark grey silty SAND
w/gravel*
- ▲ MM2 SPT-7
Light grey silty SAND.
- MM3 P-16 40-42.5'
V. dark grey f-c SAND
w/gravel*

Remarks:

*Coarse aggregates are friable & could break down to finer sizes during earth work.

**Soil
Mechanics
Lab**

Project No.: 6967.001
 Project: Walnut Creek Clearwell
 Date: 5-23-01
 Data Sheet No. FIGURE-1

PARTICLE SIZE ANALYSIS (ASTM D 422-63)



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	29.3	25.6		45.1	GM		
▲	0.0	18.3	55.6		26.1	SM		
■	0.0	30.2	26.4		43.4	GM		

SIEVE inches size	PERCENT FINER		
	●	▲	■
1.5	100.0		100.0
0.75	91.2	100.0	92.5
0.375	79.1	94.4	78.4
GRAIN SIZE			
D ₆₀	1.91	1.53	1.93
D ₃₀		0.10	
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
	●	▲	■
4	70.7	81.7	69.8
10	60.4	64.5	60.4
20	54.4	50.9	52.8
40	51.7	43.3	49.7
60	50.4	38.8	47.4
100	49.2	35.1	46.0
200	45.1	26.1	43.4

Sample information:

- MM1 P-16 40-42.5'
Lt. greyish brn. silty
GRAVEL* w/sand
- ▲ MM1 P-21 52.5-55'
Very dark grey silty
SAND w/gravel*
- MM1 P-23 57.5-60'
V. dk. grey silty GRAVEL*
w/sand.

Remarks:

*Coarse aggregates are friable & could break down to finer sizes during earth work.

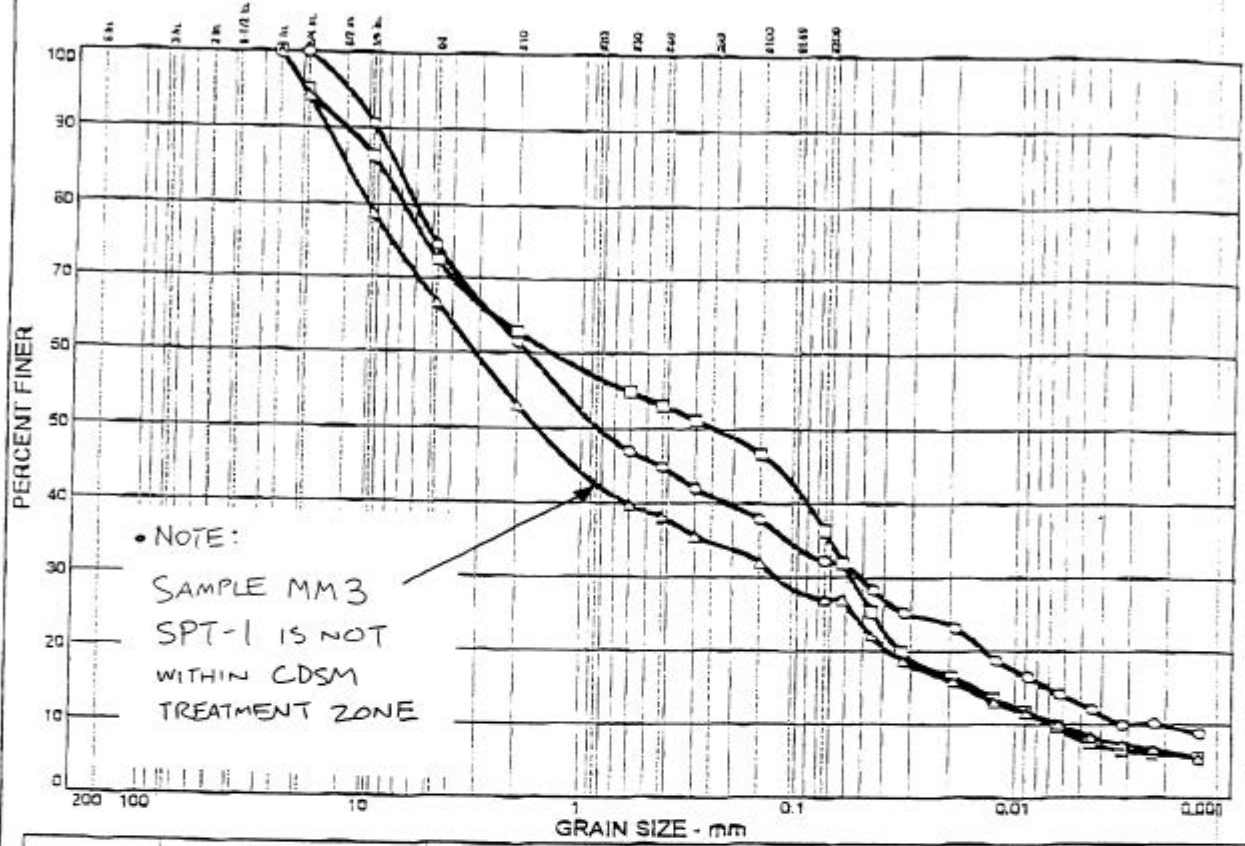
**Soil
Mechanics
Lab**

Project No.: 6967.001
Project: Walnut Creek Clearwell

Date: 5-23-01

Data Sheet No. FIGURE 2

PARTICLE SIZE DISTRIBUTION CURVES



% + 3"	% GRAVEL		% SAND				% FINES			
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY			
○	0.0	25.4	13.1	16.8	12.5	19.4	12.8			
□	0.0	22.3	9.8	9.7	16.8	28.3	8.0			
△	0.0	27.6	13.6	15.0	11.1	18.2	8.8			
×	LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
○			7.39	1.79	0.836	0.0514	0.0072	0.0022	0.67	814.27
□			8.82	1.38	0.246	0.0369	0.0155	0.0070	0.34	197.81
△			12.5	3.13	1.61	0.126	0.0169	0.0064	0.79	491.19

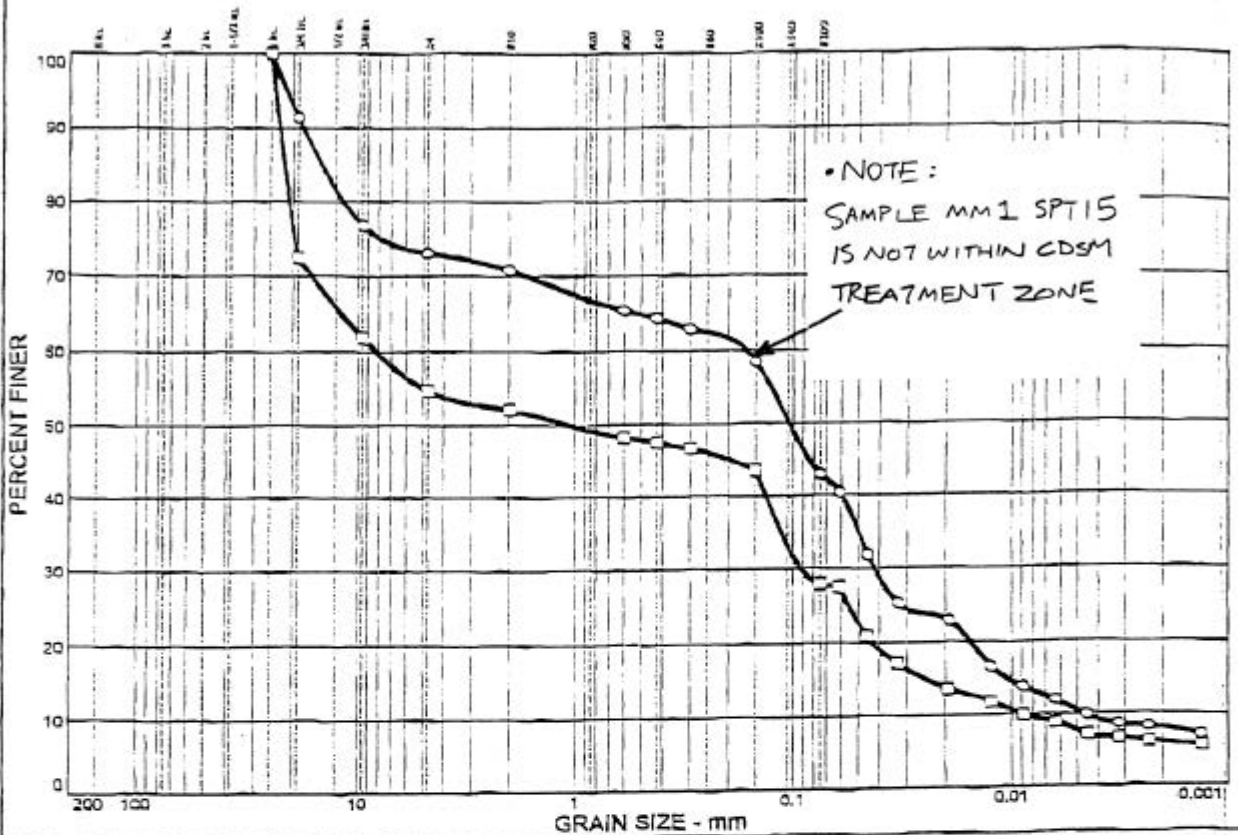
MATERIAL DESCRIPTION	USCS	AASHTO
○ olive brown silty SAND w/gravel (weathered SILTSTONE)	SM	
□ olive brown silty SAND w/gravel (weathered SILTSTONE)	SM	
△ yellow brown mottled orange silty SAND w/gravel (weathered SILTSTONE)	SM	

Project No. 326-001 Client: EBMUD
 Project: WCCW

○ Source: MM-2 Sample No.: SPT-7 Elev./Depth: 17.5'
 □ Source: MM-2 Sample No.: SPT-9 Elev./Depth: 22.5'
 △ Source: MM-3 Sample No.: SPT-1 Elev./Depth: 25' :

Remarks:
 ○
 □
 △

PARTICLE SIZE DISTRIBUTION CURVES



% + 3"	% GRAVEL		% SAND			% FINES		
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY	
○	0.0	8.6	18.3	2.3	6.4	21.5	32.5	10.4
□	0.0	27.5	17.8	2.6	4.6	19.6	20.3	7.6

LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
□		22.0	3.23	1.06	0.0918	0.0250	0.0091	0.11	903.40

MATERIAL DESCRIPTION	USCS	AASHTO
○ olive brown mixed w/dark brown silty SAND w/silstone	SM	
□ dark brown silty GRAVEL w/sand (sandstone gravel)	GM	

Project No. 326-001 Client: EBMUD
 Project: WCCW

○ Source: MM-1 Sample No.: SPT-15 Elev./Depth: 37.5
 □ Source: MM-1 Sample No.: SPT-18 (to Elev./Depth: 42.5 or 46

Remarks:

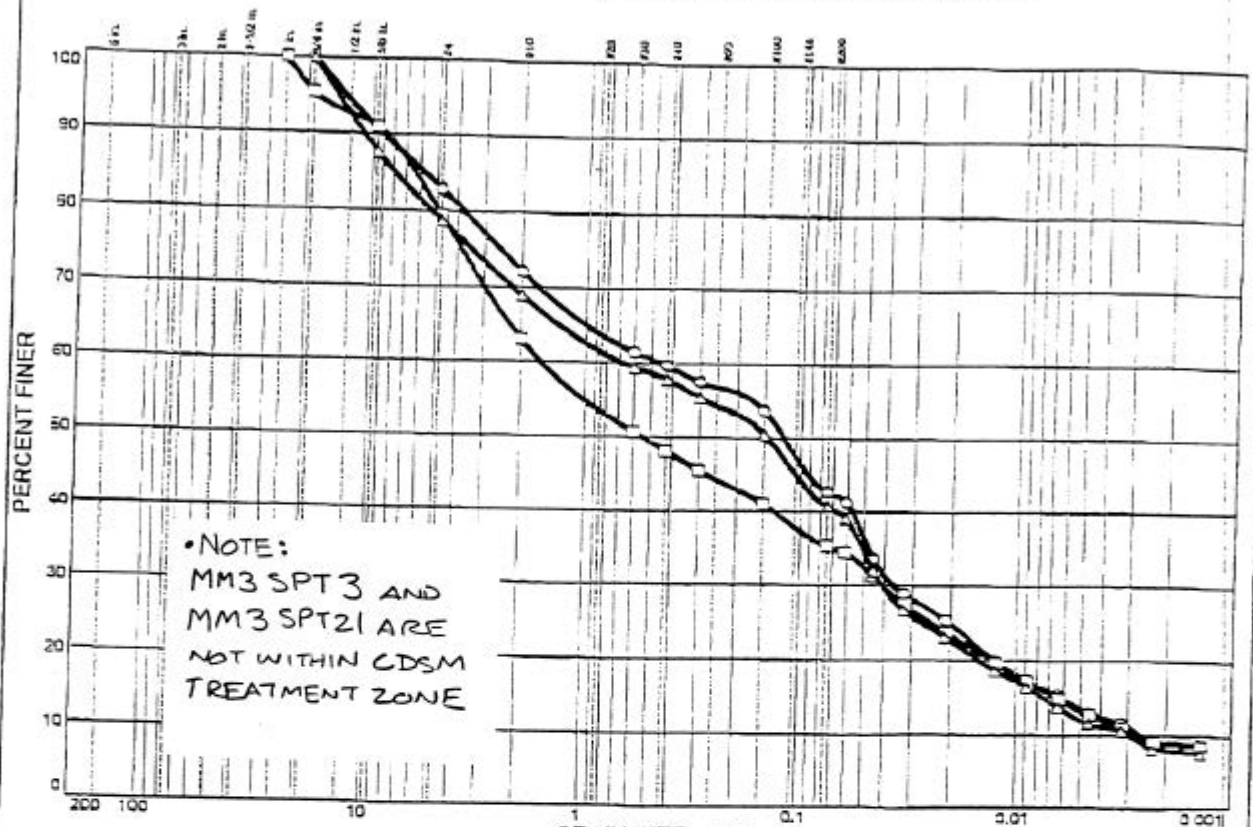
○

□

PARTICLE SIZE DISTRIBUTION CURVES
COOPER TESTING LABORATORY

FIGURE 13-4
 Plate

PARTICLE SIZE DISTRIBUTION CURVES



% + 3"	% GRAVEL		% SAND				% FINES			
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY			
○	0.0	17.1	10.8	12.5	16.9	29.3	13.4			
□	0.0	16.0	16.4	14.8	12.8	22.2	13.2			
△	0.0	21.2	9.9	11.1	17.1	28.7	12.0			
×	LL	PL	D ₈₅	D ₆₀	D ₅₀	D ₃₀	D ₁₅	D ₁₀	C _c	C _u
○	45	29	3.74	0.456	0.121	0.0362	0.0061	0.0026	1.09	172.47
□			6.31	1.62	0.544	0.0406	0.0064	0.0027	0.38	603.95
△			7.89	0.678	0.144	0.0410	0.0073	0.0029	0.84	230.31

MATERIAL DESCRIPTION	USCS	AASHTO
○ olive brown silty SAND w/gravel (weathered SILTSTONE)	SM	
□ brown silty SAND w/gravel (weathered SILTSTONE)	SM	
△ olive brown silty SAND w/gravel	SM	

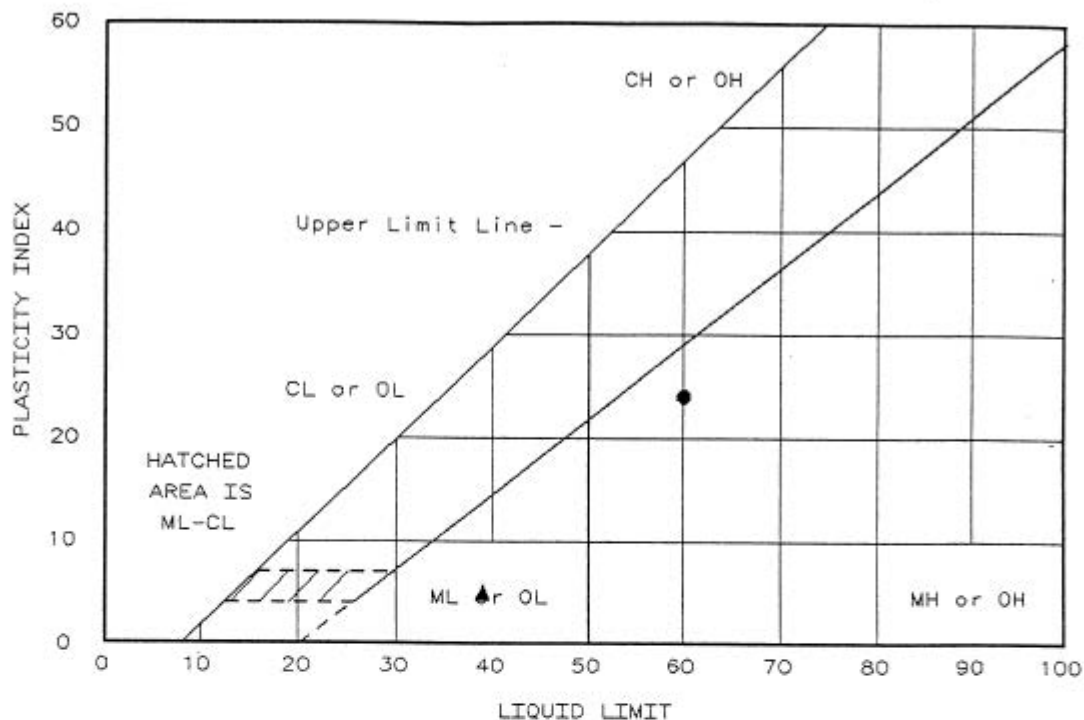
Project No. 326-001	Client: EBMUD	Remarks: ○ □ △
Project: WCCW		
○ Source: MM-3	Sample No.: SPT-3	Elev./Depth: 7.5'
□ Source: MM-3	Sample No.: SPT-19	Elev./Depth: 47.5'
△ Source: MM-3	Sample No.: SPT-21	Elev./Depth: 52.5'

PARTICLE SIZE DISTRIBUTION CURVES

COOPER TESTING LABORATORY

FIGURE B-5
Plate

LIQUID AND PLASTIC LIMITS TEST REPORT



Location + Description	LL	PL	PI	-200	ASTM D 2487-90
● MM1/P-23 @ 57.5-60': Very dk. grey silty Gravel w/sand.	60	36	24	43.4	GM, Silty gravel with sand
▲ MM1 -23&25: Dark grey silty SAND w/gravel.	39	34	5	41.6	SM, Silty sand with gravel

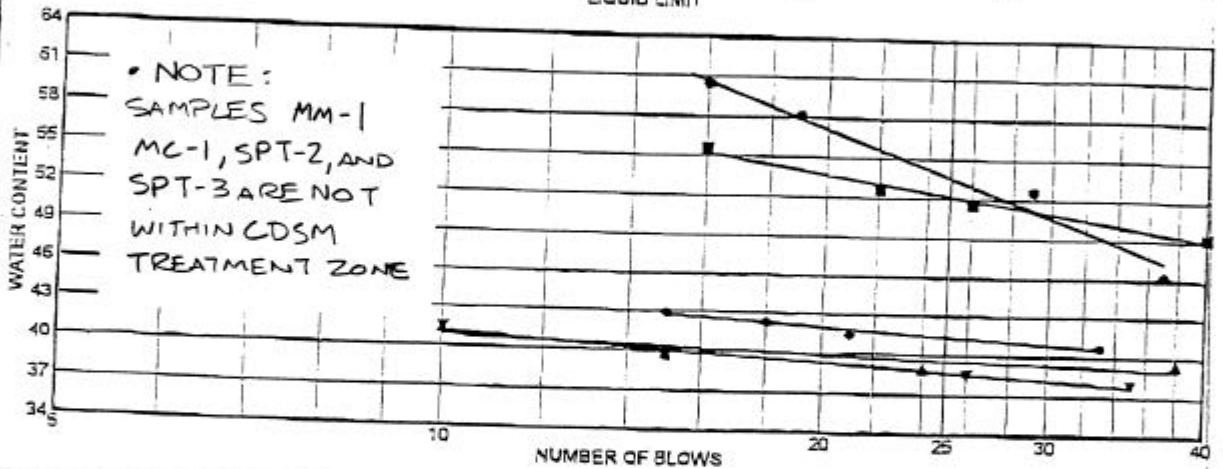
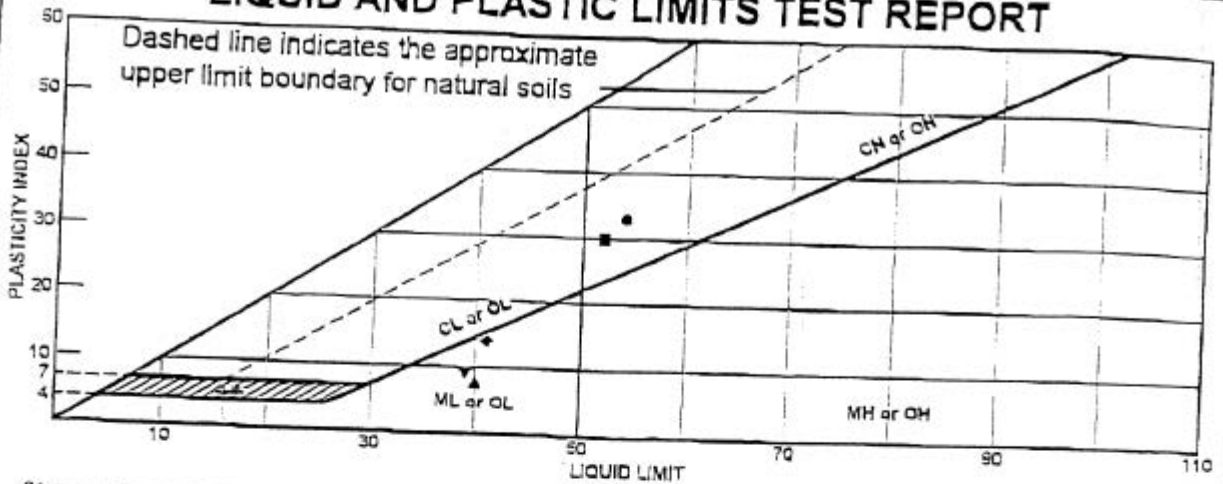
Project No.: 6967.001
 Project: Walnut Creek Clearwell
 Client: Geometrics Consultants, Inc.
 Location:
 Date: 5-23-01

Remarks:
 ASTM D 4318

LIQUID AND PLASTIC LIMITS TEST REPORT
Soil Mechanics Lab

Fig. No. B-6

LIQUID AND PLASTIC LIMITS TEST REPORT



MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
olive brown mottled orange CLAY	54	21	33			
olive brown CLAY w/sand	52	23	30	84.9	74.4	CH
olive brown SILT w/siltstone	40	32	8			
brown sandy SILT w/siltstone	41	27	14			
brown SILT w/siltstone	39	30	9			

Project No. 326-001 Client: EBMUD
 Project: WCCW

● Source: MM-1 Sample No.: MC-1 Elev./Depth: 2'
 ■ Source: MM-1 Sample No.: SPT-2 Elev./Depth: 5'
 ▲ Source: MM-1 Sample No.: SPT-3 Elev./Depth: 7.5'
 ● Source: MM-1 Sample No.: SPT-17 (SPT-18 on sample)
 ▼ Source: MM-1 Sample No.: SPT-22 Elev./Depth: 55'

Remarks:

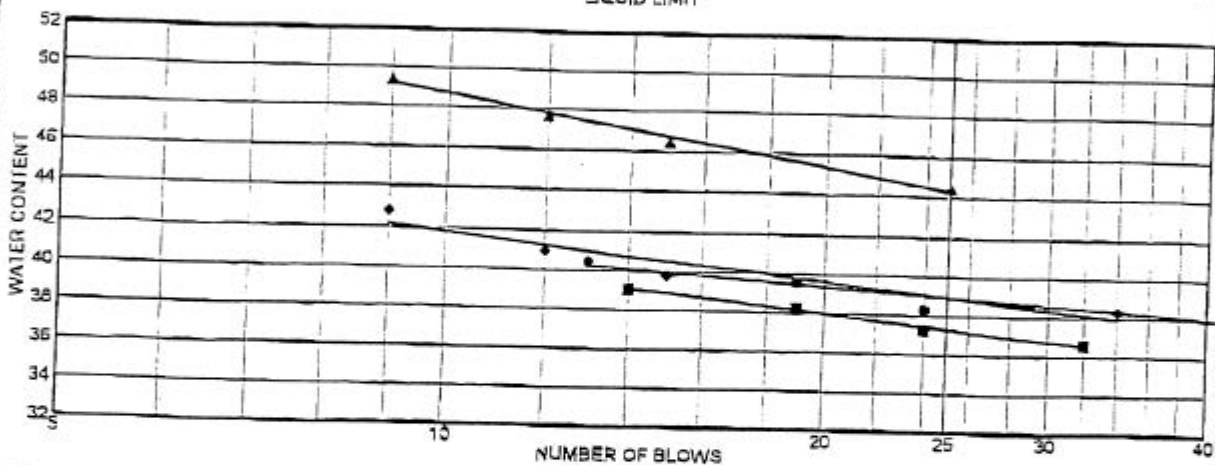
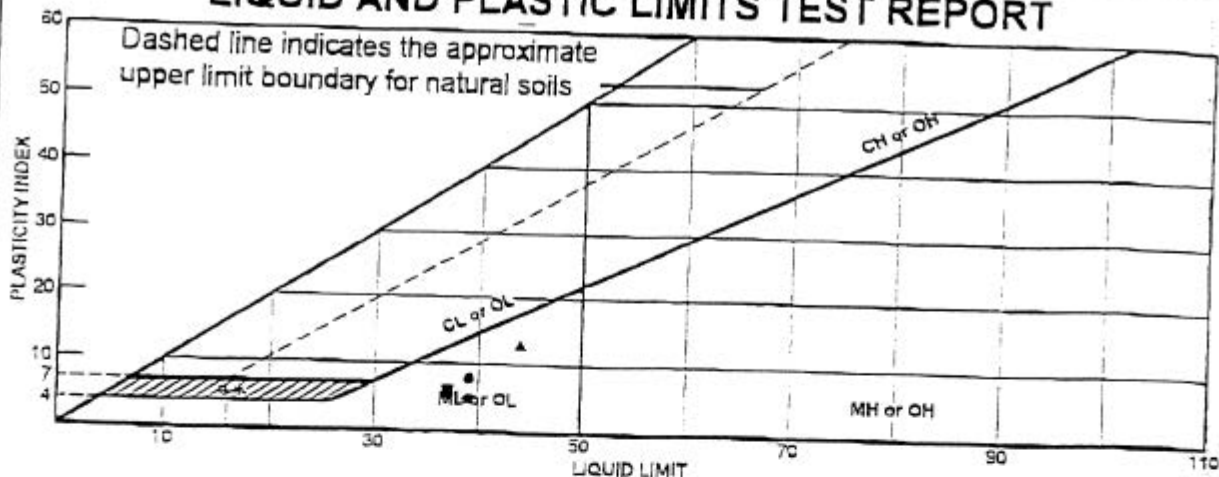
-
-
- ▲
-
- ▼

LIQUID AND PLASTIC LIMITS TEST REPORT
COOPER TESTING LABORATORY

FIGURE B-7

Plate

LIQUID AND PLASTIC LIMITS TEST REPORT



MATERIAL DESCRIPTION	LL	PL	PI	%<#240	%<#200	USCS
● brown sandy CLAY w/claystone	39	31	8			
■ olive brown sandy SILT w/siltstone	37	31	6			
▲ brown silty SAND w/gravel (weathered SILTSTONE)	44	31	13	48.2	35.4	SM
● olive brown silty SAND w/gravel	39	34	5	57.8	40.7	SM

Project No. 326-001 Client: EBMUD
 Project: WCCW

● Source: MM-3	Sample No.: SPT-17	Elev./Depth: 42.5'
■ Source: MM-3	Sample No.: SPT-18	Elev./Depth: 45'
▲ Source: MM-3	Sample No.: SPT-19	Elev./Depth: 47.5'
● Source: MM-3	Sample No.: SPT-21	Elev./Depth: 52.5'

Remarks:

●
 ■
 ▲
 ●

• NOTE:
 MM3 SPT-3 is
 NOT WITHIN CDSM
 TREATMENT ZONE

LIQUID AND PLASTIC LIMITS TEST REPORT
COOPER TESTING LABORATORY

FIGURE 8



APPENDIX E

Geophysical Survey

APPENDIX E

GEOPHYSICAL SURVEY

Scope

Ninyo & Moore performed a geophysical survey at the site using seismic refraction and refraction microtremor (ReMi) techniques. The surveys were performed on September 8, 2021 and September 15, 2021 along five lines. The survey line locations are noted on Figure 2 of the report.

Refraction Microtremor Survey

The ReMi method was used to develop a one-dimensional profile of shear wave velocity and evaluate the characteristic shear wave velocity to a depth of 100 feet below the ground surface (V_s100) for seismic site classification. The survey consisted of collecting microtremor array measurements (MAM) from surface waves using ambient noise as a passive source and an array of geophones along one seismic line (SL-5). The following sections provide a summary of the methods and analyses used in the ReMi survey. The seismic model results are provided on Figure E-1.

Field Methods

A Geode 24-Channel Seismograph (Geometrics Inc., San Jose, California) was used for the MAM survey. 4.5 Hertz (Hz) vertical component geophone were placed every 10 feet for a total profile length of 230 feet. Approximately twenty-five to thirty records were collected, with a record length of 30 seconds (s) and a 2 millisecond (ms) sampling interval. The field data were digitally recorded in SEG2 format, reviewed in the field for data quality, saved to a hard disk, and documented.

Data Processing and Modeling

The MAM seismic data was processed using SeisImager (Geometrics Inc., San Jose, California) seismic processing software. The dispersive characteristics of surface waves are used to evaluate the subsurface velocity at depth. Longer wavelength (longer-period and lower-frequency) surface waves travel deeper and thus contain more information about deeper velocity structure. Shorter wavelength (shorter-period and higher-frequency) surface waves travel relatively shallow within the earth and thus contain more information about velocity closer to the surface. The dispersion is dependent on the material properties, such as surface wave velocity, relative material densities, and Poisson's ratio. An inversion is performed on the collected passive seismic shear wave records within SeisImager to produce a model of the variation in shear wave velocities with depth. The resulting data processing flow was used to calculate the average shear-wave velocity (AVS) to a depth of approximately 100 feet (V_s100) as the depth-interval-weighted, harmonic mean shear wave velocity.

- Collated records into list file and edited any bad channels or records,
- Applied 2D Spatial Auto Correlation (SPAC); using a linear array and 24 geophones at 10 feet spacing,
- Phase velocity frequency transformation from 2 to 25 Hz
- Automated velocity picks of raw phase velocity were calculated and updated manually,
- Created an initial model and carried out a non-linear Least Squares Method (LSM) inversion to produce a final shear wave velocity model; convergence of the inversion was judged whether the model achieved an RMS <5% within 5-7 iterations,
- Calculated V_s100 using final shear wave velocity model.

Results

Shear wave data resolution generally decreases with depth, due to the loss of sensitivity of the dispersion curve to changes in shear wave velocity as depth increases. The MAM seismic modeling results are provided on Figure E-1. The scaled figures indicate our interpretation of the approximate changes in shear wave velocity with depth at the surveyed location.

The characteristic shear wave velocity (V_{s100}) calculated from the model is approximately 1,136 feet per second which is consistent with a Class D seismic site classification for stiff soil (ASCE, 2016).

Seismic Refraction

Seismic refraction was used to develop two-dimensional profiles of seismic compressional (P-wave) velocity and evaluate the excavation characteristics or rippability of the earth materials along the profiles. The survey consisted of measuring the travel time of seismic energy from an active source with an array of geophones placed on the ground surface along five seismic lines (SL-1 through SL-5). The following sections provide a summary of the methods and analyses used in the survey and rippability assessment.

Field Methods

Ninyo and Moore personnel collected refraction data along five seismic lines denoted as SL-1, SL-2, SL3, SL-4, and SL-5. Lines SL-1, SL-4 and SL-5 were approximately 230 feet long with geophones spaced at 10-foot intervals. Lines SL-2 and SL-3 were approximately 115 feet long with geophones spaced at 5-foot intervals. The seismic data were collected using a 24-Channel Geometrics Geode, exploration seismograph coupled with 24 vertical components, and 10 Hertz geophones. A 10-pound hammer and aluminum plate were used as the seismic wave source for the refraction surveys. Field data acquisition included stacking multiple shots at each shot location in order to increase the quality of the data and reduce noise. The seismic refraction method uses recognition of first-arrival times of refracted seismic waves in units of milliseconds to evaluate the thickness and seismic velocities of subsurface layers. Seismic waves generated by the hammer impacting the ground surface at a given “shot” point are refracted at boundaries separating materials of contrasting material velocities. These refracted seismic waves are then detected by a series of surface geophones and recorded with a seismograph. Each hammer shot is recorded as time zero. The elapsed time, in milliseconds, that the seismic compressional wave (P-wave) signals take to travel to each geophone is recorded through the record length. This information is used in conjunction with the known shot-to-geophone horizontal distances to obtain the approximate thickness and velocity information about the subsurface materials.

Seismic Velocities and Rippability Correlations

In general, seismic wave velocities can be correlated to material density and/or rock hardness. The relationship between rippability and seismic velocity is empirical and assumes a homogenous mass for each detected layer. Possible areas of differing composition, texture, or structure may affect both the measured data and the actual rippability of the mass. The rippability of a mass is also dependent on the excavation equipment used and the skill and experience of the equipment operator. Table E-1 outlines the relationship between P-wave velocity and rippability.

The anticipated degree of rippability corresponding to the characteristic P-wave velocity of the material to be excavated by a Caterpillar D-9 dozer ripping with a single shank is listed in Table E-1. The limits of the velocity ranges corresponding to the various rippability categories in the table are approximate limits. Characteristics other than the material density and hardness corresponding to the seismic P-wave velocity, such as the spacing and orientation of fractures, joints, bedding planes or other discontinuities can influence rippability and rates of excavation. The seismic refraction method provides a measure of the average seismic wave velocity over a distance that is limited by the spacing of the

geophones. Wide variations in the degree of weathering or cementation over distances shorter than the geophone spacing or the inclusion of boulders or other obstructions, which may impact the rate of excavation, will not be detected by the seismic refraction survey. Hydraulic hammers may be used, as an alternative to blasting, for primary and secondary breaking of bedrock where rippability is difficult or not feasible.

Table E-1 – P-Wave Velocity and Rippability Correlation

P-Wave Velocity Range	Rippability
0 to 2000 feet/second	Easy Ripping
2000 to 4000 feet/second	Moderate Ripping
4000 to 5500 feet/second	Difficult Ripping, Possible Blasting
5500 to 7000 feet/second	Very Difficult Ripping, Probable Blasting
Greater than 7000 feet/second	Blasting Generally Needed

The rippability correlations presented in Table E-1, which are based on observations by Ninyo & Moore during excavation of similar materials, are slightly more conservative than those published in the Caterpillar Performance Handbook. Accordingly, the above classification scheme should be used with discretion, and contractors should not be relieved of making their own independent evaluation of the rippability of the on-site materials prior to submitting their bids. It should also be noted that, as a general rule of thumb, the effective depth of evaluation for a seismic refraction traverse is approximately one-third to one-fifth the length of the refraction line. The approximate effective depths of the seismic lines ranged from 20 to 40 feet below ground surface.

Data Analysis

The obtained refraction data were processed using SeisImager/2D™, Version 3.3, which includes a suite of programs by Geometrics, Inc. Initially, data were grouped as all shot points in each line and first arrival picks were made manually in Pickwin v. 5.1.1.2. Once data were grouped as first arrival picks, a travel time curve was constructed and calculations were performed to derive approximate minimum and maximum velocities. Relative topography data collected in the field were incorporated with travel time data to account for topography effects. An initial velocity model of the surface was developed for each profile using a delay-time technique and velocity inversion in Plotrefa™ v. 3.0.0.6. These models were used for each profile to develop a more detailed tomographic profile depicting approximate lateral and vertical changes in P-wave velocity across each seismic line.

Results

The tomographic models developed for this study indicate that earth materials within the effective depth of the profile generally consist of stiff soil, very dense soil, and soft rock. P-wave velocity profiles for the seismic lines SL-1, SL-3, SL-4, and SL-5 are presented on Figures E-2 through E-5. The quality of seismic refraction data is influenced by background noise, irregular terrain, and lateral inhomogeneity which can obscure the signal, introduce scatter, and limit the accuracy of interpretations. The signal data collected from seismic line SL-2 was not resolvable from background noise.

The refraction method generally necessitates that subsurface velocities (and therefore material densities and modulus of rigidity) increase with depth. A layer having a velocity lower than that of the layer above it will not be detectable by the seismic refraction method and, therefore, could lead to errors in the depth calculations of subsequently deeper layers. This is known as a “velocity inversion” problem. In addition, relatively significant lateral variations in velocity, such as those which occur at open, or tightly spaced jointed or fractured rock, discontinuous caliche deposits, and nested subsurface cobbles and

boulders, can also result in misinterpretation of the subsurface conditions when using this method.

Refraction P-wave velocity data were used to assess rippability to depths of up to 40 feet below the ground surface. The anticipated rippability corresponding to the interpreted P-Wave velocity for selected depth intervals is summarized in Table E-2. Hydraulic hammers may be used, as an alternative to blasting, for primary and secondary breaking of bedrock where rippability is difficult or not feasible.

Table E-2 – Summary of Refraction (P) Wave Velocity Survey Results

Location	Depth (feet)	Approximate P-wave Velocity Range (feet/sec)	Comments
SL-1	0 - 5	950-1,500	Easy Ripping
	5 -10	1,500-2,700	Easy to Moderate Ripping
	10 – 20	2,700-4,000	Moderate to Difficult Ripping, Possible Blasting
SL-3	0 - 5	1,000-1,700	Easy Ripping
	5 -10	1,700-3,000	Easy to Moderate Ripping
	10 – 20	3,000-3,500	Moderate Ripping
SL-4	0 - 5	950-1,350	Easy Ripping
	5 -10	1,350-2,200	Easy to Moderate Ripping
	10 – 20	2,200-3,000	Moderate Ripping
	20-40	3,000-4,200	Moderate to Difficult Ripping, Possible Blasting
SL-5	0 - 5	950-1,350	Easy Ripping
	5 -10	1,350-2,200	Easy to Moderate Ripping
	10 – 20	2,200-3,000	Moderate Ripping
	20-40	3,000-4,200	Moderate to Difficult Ripping, Possible Blasting

SHEAR WAVE VELOCITY (FEET/SEC)

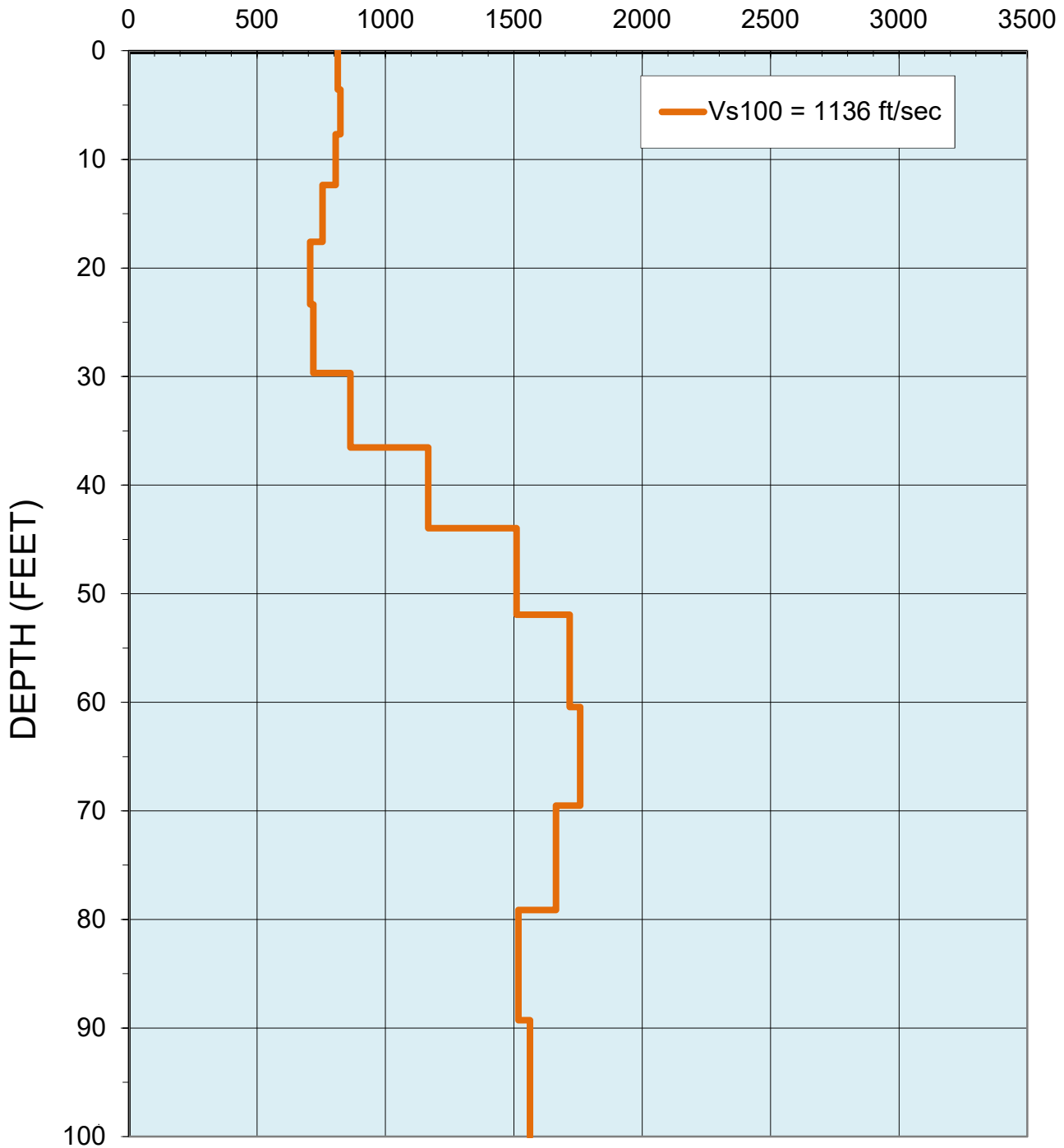
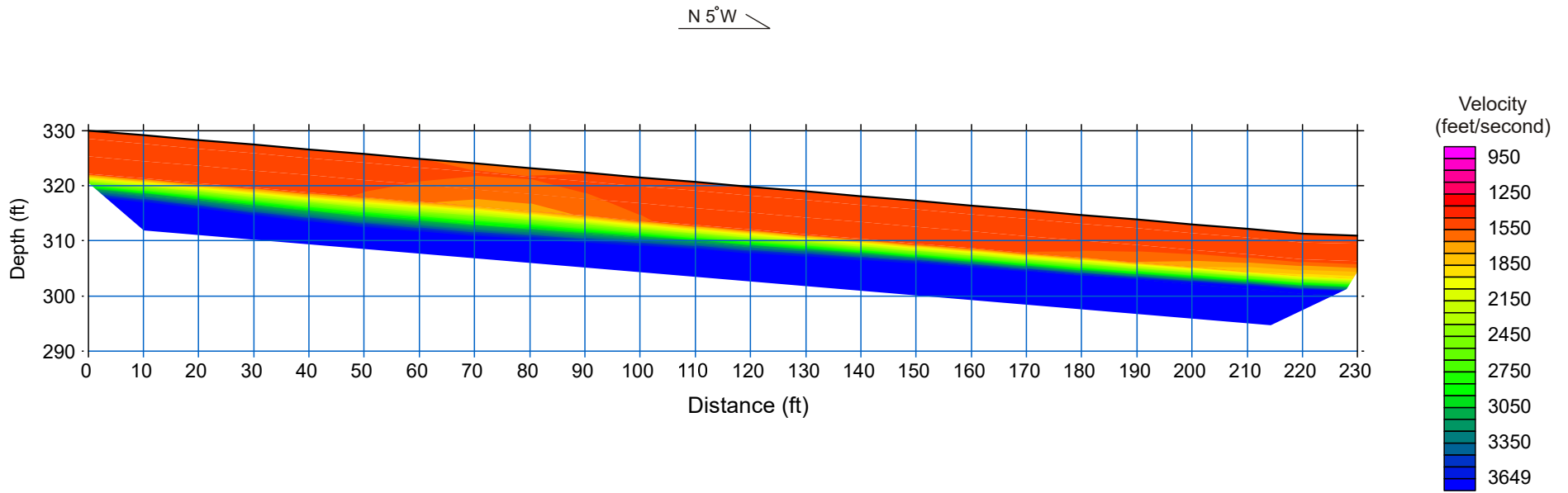
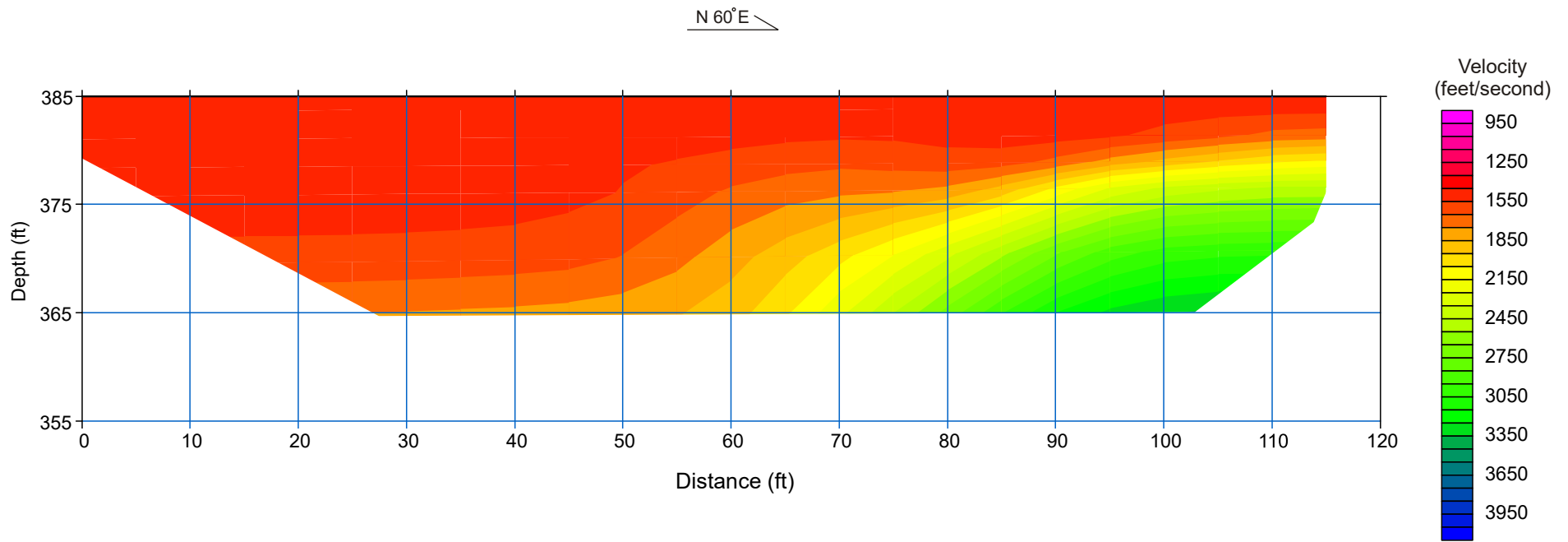


FIGURE E-1



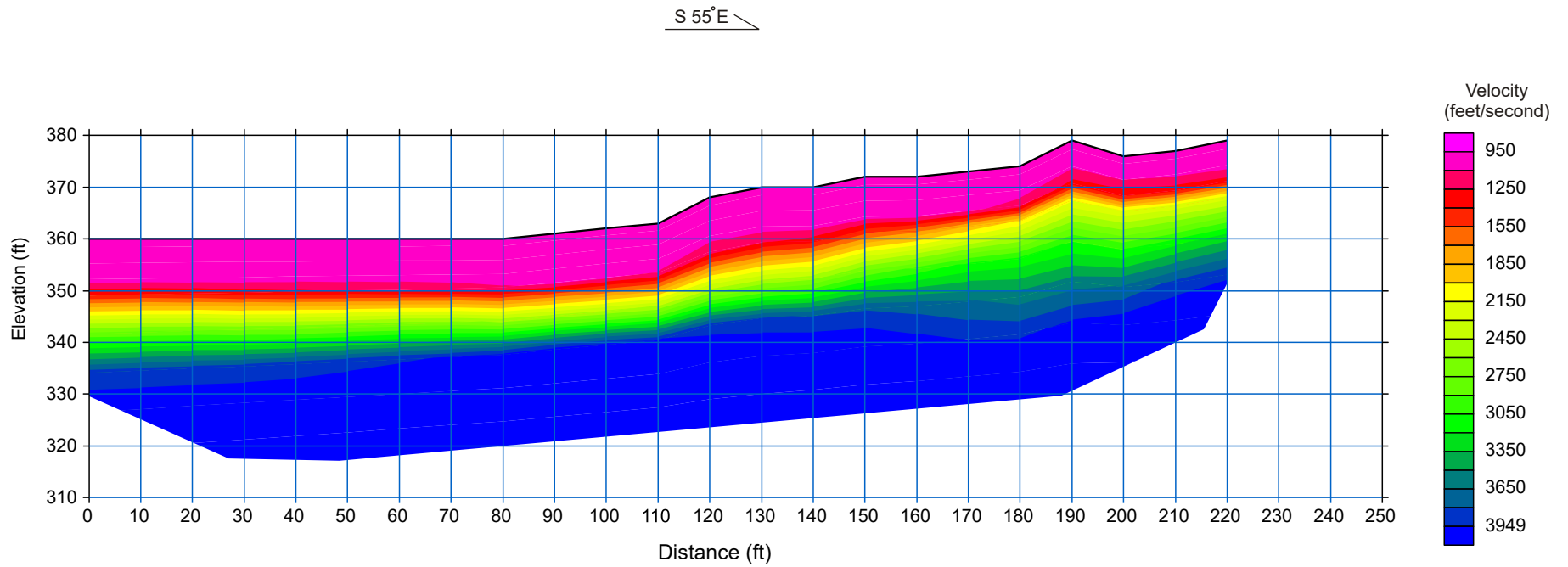
NOTE: ELEVATIONS AND LINE ORIENTATION ARE APPROXIMATE.

FIGURE E-2



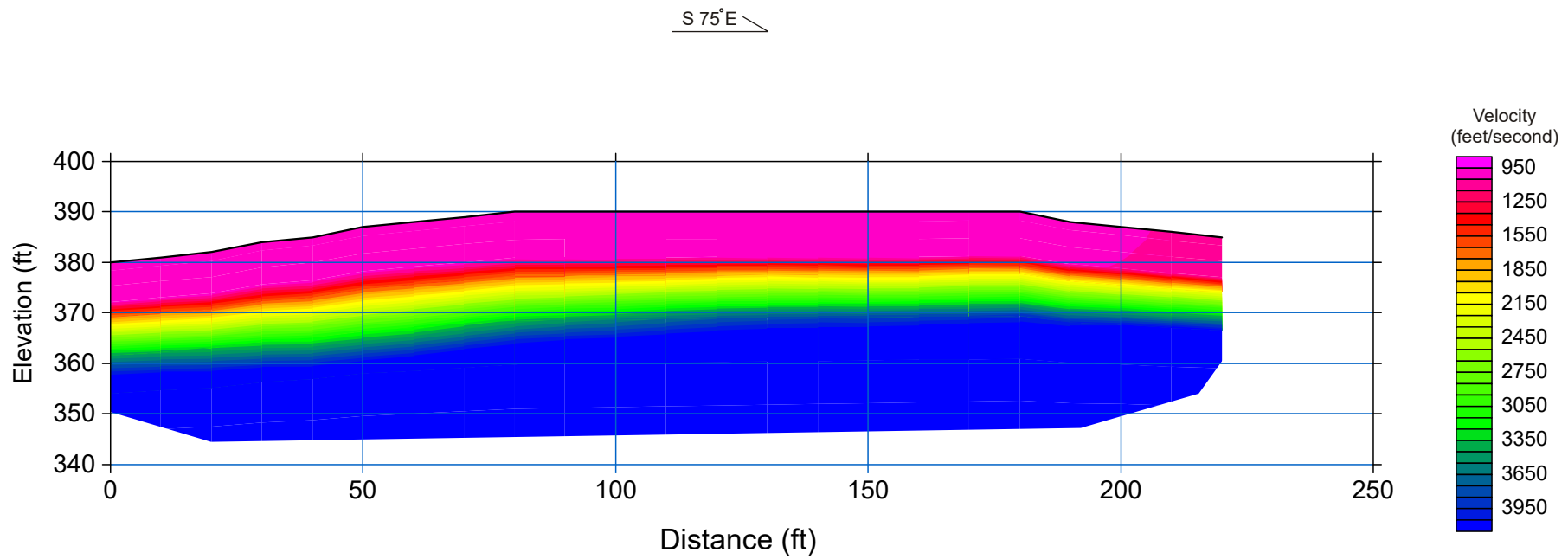
NOTE: ELEVATIONS AND LINE ORIENTATION ARE APPROXIMATE.

FIGURE E-3



NOTE: ELEVATIONS AND LINE ORIENTATION ARE APPROXIMATE.

FIGURE E-4



NOTE: ELEVATIONS AND LINE ORIENTATION ARE APPROXIMATE.

FIGURE E-5



APPENDIX F

Geophysical Surveys from Previous Investigations

DOWNHOLE SEISMIC SURVEY
Walnut Creek Clearwell Seismic Evaluation Project
Walnut Creek, California

for
EAST BAY MUNICIPAL UTILITY DISTRICT
P.O. Box 24055
Oakland, California 94623

by
Portola Geophysics
900 Wayside Road
Portola Valley, California 94028

December 1997

Portola Geophysics

900 Wayside Road, Portola Valley, CA 94028

Phone & FAX (650) 851-5342

December 8, 1997
9707

Mr. Derek Kawaii, Project Engineer
Materials Engineering
EAST BAY MUNICIPAL UTILITY DISTRICT
P.O. Box 24055
Oakland, California 94623

SUBJECT: Downhole Seismic Survey
RE: Walnut Creek Clearwell Seismic Evaluation Project
Walnut Creek, California

Dear Mr. Kawaii:

The following report describes the findings and conclusions of our downhole seismic geophysical investigation of the East Bay Municipal Utility District's Walnut Creek Clearwell Seismic Evaluation Project in Walnut Creek, California. This geophysical investigation was conducted in accordance with our proposal to you dated October 31, 1997.

We appreciate the opportunity to have been of service to you on this project. If you have any questions regarding this report, any aspect of our investigation, or if you need additional services, please contact our office.

Very truly yours,

PORTOLA GEOPHYSICS



Patrick O. Shires
Principal Geophysicist
RGP 879

POS:st

DOWNHOLE SEISMIC SURVEY
Walnut Creek Clearwell Seismic Evaluation Project
Walnut Creek, California

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1.0 INTRODUCTION

This report describes the results of a downhole seismic survey conducted for the East Bay Municipal Utility District's Walnut Creek Clearwell Seismic Evaluation Project in Walnut Creek, California. This investigation was conducted in accordance with our proposal to you dated October 31, 1997, and consists of a downhole seismic (compression and shear wave) survey of two borings drilled to the north and west of the Walnut Creek Clearwell.

2.0 DOWNHOLE SEISMIC SURVEY

Downhole seismic (compression and shear wave) surveys were conducted in two borings (Boring MM-1 and Boring MM-3) cased to depths of approximately 55 and 65 feet, respectively, with downhole geophone refusal at depths of 54 and 64 feet, respectively.

2.1 Method and Equipment Used

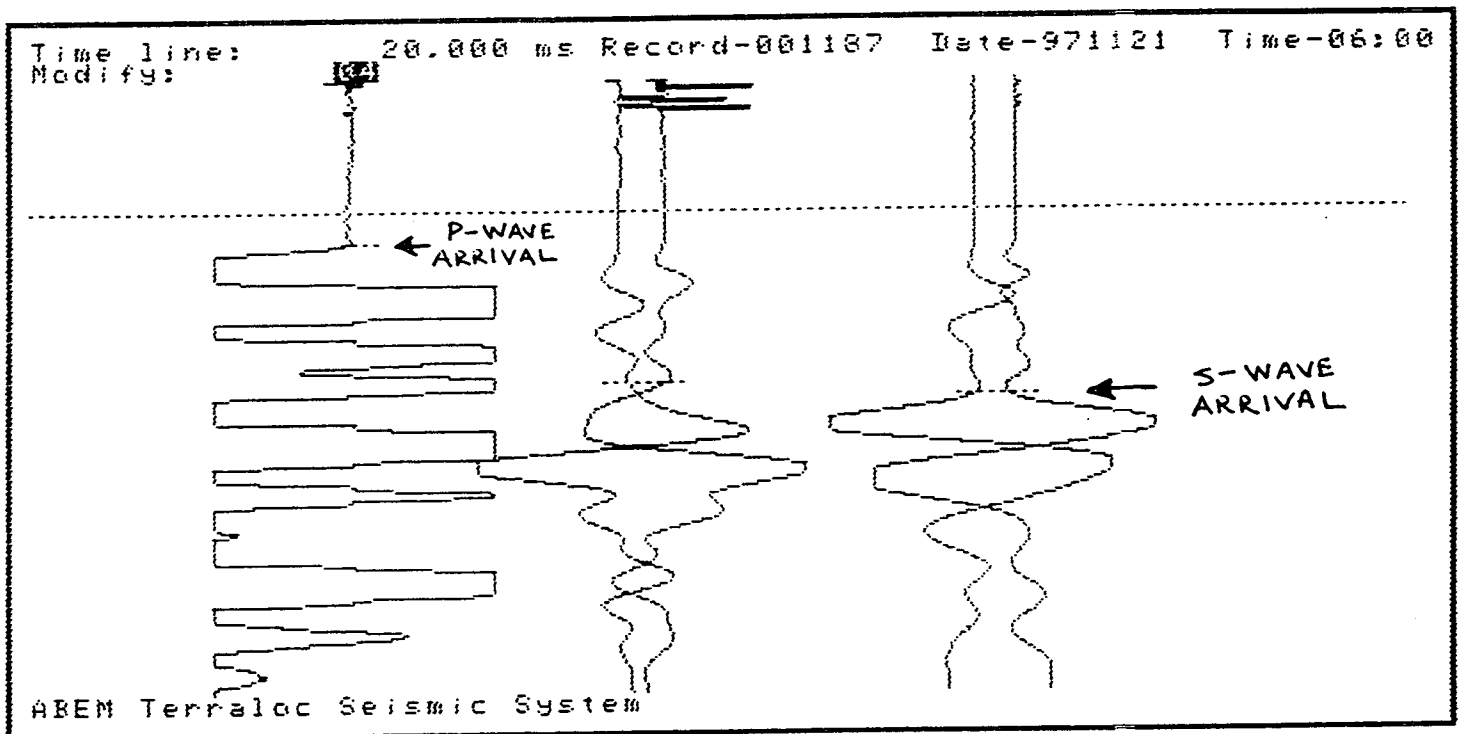
The downhole seismic survey procedure used for all recordings consisted of placing a triaxial geophone bundle at 5-foot depth intervals (except where restricted to a shorter interval at the bottom of the casings) within the cased (3.0-inch inside diameter PVC) and grouted borings.

The geophone bundle was clamped against the inside of the casing at successive 5-foot depth intervals by inflation of a pneumatic bladder. An 8.0-foot long wooden plank was held in place by the weight of the 4-wheel drive field vehicle at a distance of about 10 feet from the borings. A 16-pound sledge hammer equipped with seismograph/oscillograph triggering switch was impacted horizontally on a steel plate placed against both ends of the wooden plank to produce successive shear waves of reversed polarity. The hammer was also impacted vertically on the steel plate placed flat on the ground surface (also at about 10 feet from the boring) to produce compression waves. The hammer impacts generated shear and compression waves which travelled from the ground surface through the subsurface materials and were received by the deployed geophone bundle at successive depth intervals. The geophones were monitored digitally and displayed graphically in analog form on a portable 24-channel ABEM™ Terraloc Mark 3 Seismic System. Records were stored on magnetic disk and returned to the office for processing, printing, data reduction and interpretation.

Compression and shear wave velocity results and assumed bulk densities were used to calculate engineering parameters by spreadsheet.

The equipment used for the downhole seismic survey consisted of one triaxial geophone bundle of 4.5 Hz natural frequency with 300 feet of cabling and a pneumatic bladder (with 300 feet of supply tube). The geophone bundle was connected to a 24-channel ABEM™ Terraloc Mark 3 Seismic System using cabling with Mueller clips. The sweep traces for each horizontal (transverse and longitudinal) geophone were juxtaposed on the records so that successive shear waves of reversed polarity would make the first arrivals stand out (see representative record print-out below).

SAMPLE RECORD, MM-3 @ 60'



2.2 Interpreted Results

The downhole seismic recordings were conducted borings MM-1 and MM-3 drilled through fill embankments to the north and west of the Walnut Creek Clearwell, respectively. These holes were drilled vertically slightly offset to the north and west of the center of the embankment crest.

The borings were cased to depths of about 55 and 65 feet, respectively, and were downhole seismic surveyed to depths of 54 and 64 feet below ground surface (top of pavement just above top of casing), respectively. Survey results are presented on Figure 1 for Boring MM-1, and Figure 2 for Boring MM-3, in terms of time-distance plots of shear and compression wave arrivals (and velocities). The plots reflect actual distance from the offset energy source (sledge hammer on plate or plank) to the receiving geophone bundle. In order to correlate this information with boring logs, the assumption is made that velocities for the longer angular distances are representative for the velocities within the shorter vertical depth intervals surveyed. Tables 1 and 2, below, list shear and compression wave velocities as well as velocity/density calculations as a function of vertical depth interval for borings MM-1 and MM-3, respectively.

TABLE 1
Velocity/Density Calculations, Boring MM-1

<u>Depth Interval (feet)</u>	<u>Compression Velocity (ft./sec.)</u>	<u>Shear Velocity (ft./sec.)</u>	<u>Bulk Density (pcf)</u>	<u>Poisson's Ratio (ω)</u>	<u>Compression Modulus (psf)</u>	<u>Shear Modulus (psf)</u>
0.0-20.0	2,080	1,040	115	0.33	1.04E+07	3.89E+06
20.0-25.0	2,800	1,800	120	0.15	2.79E+07	1.22E+07
25.0-35.0	2,130	1,230	120	0.25	1.42E+07	5.67E+06
35.0-40.0	4,800	860	120	0.48	8.23E+06	2.77E+06
40.0-54.0	2,100	1,240	120	0.23	1.42E+07	5.77E+06

TABLE 2
Velocity/Density Calculations, Boring MM-3

<u>Depth Interval (feet)</u>	<u>Compression Velocity (ft./sec.)</u>	<u>Shear Velocity (ft./sec.)</u>	<u>Bulk Density (pcf)</u>	<u>Poisson's Ratio (ω)</u>	<u>Compression Modulus (psf)</u>	<u>Shear Modulus (psf)</u>
0.0-5.0	3,100	1,570	115	0.33	2.35E+07	8.86E+06
5.0-15.0	1,450	770	115	0.30	5.56E+06	2.13E+06
15.0-30.0	2,810	1,800	120	0.15	2.80E+07	1.22E+07
30.0-40.0	2,050	960	120	0.36	9.40E+06	3.46E+06
40.0-50.0	5,400	1,380	120	0.47	2.09E+07	7.14E+06
50.0-64.0	4,900	2,010	125	0.40	4.42E+07	1.58E+07

Using measured shear and compression wave velocities and assumed bulk densities, velocity/density calculations were made with the following formulae for Poisson's ratio (ω), compression (Young's) modulus (E) and

shear modulus (G), where ρ =bulk density, V_p =compression wave velocity, and V_s =shear wave velocity:

$$E = \frac{2(V_p/V_s)^2 - 2}{[(V_p/V_s)^2 - 2]} \rho V_s^2, \quad E = 2V_s^2(\rho/32)(1 + \nu), \quad \text{and} \quad G = V_s^2(\rho/32).$$

3.0 INVESTIGATION LIMITATIONS

The downhole seismic results presented in this report represent the most reasonable interpretation of geophysical survey data based on our limited knowledge of the existing geologic conditions at the site. The results were not correlated with the logs for nearby exploratory borings, a correlation which, if completed, might affect interpretation of data. In addition, calculations were made using assumed densities for earth materials. Use of actual laboratory test data might also affect results. The results are presented for design information only and are not intended to serve as information for determining construction procedures. Interpretations were made in accordance with generally accepted geophysical methods and practices. This warranty is in lieu of all other warranties, express or implied.

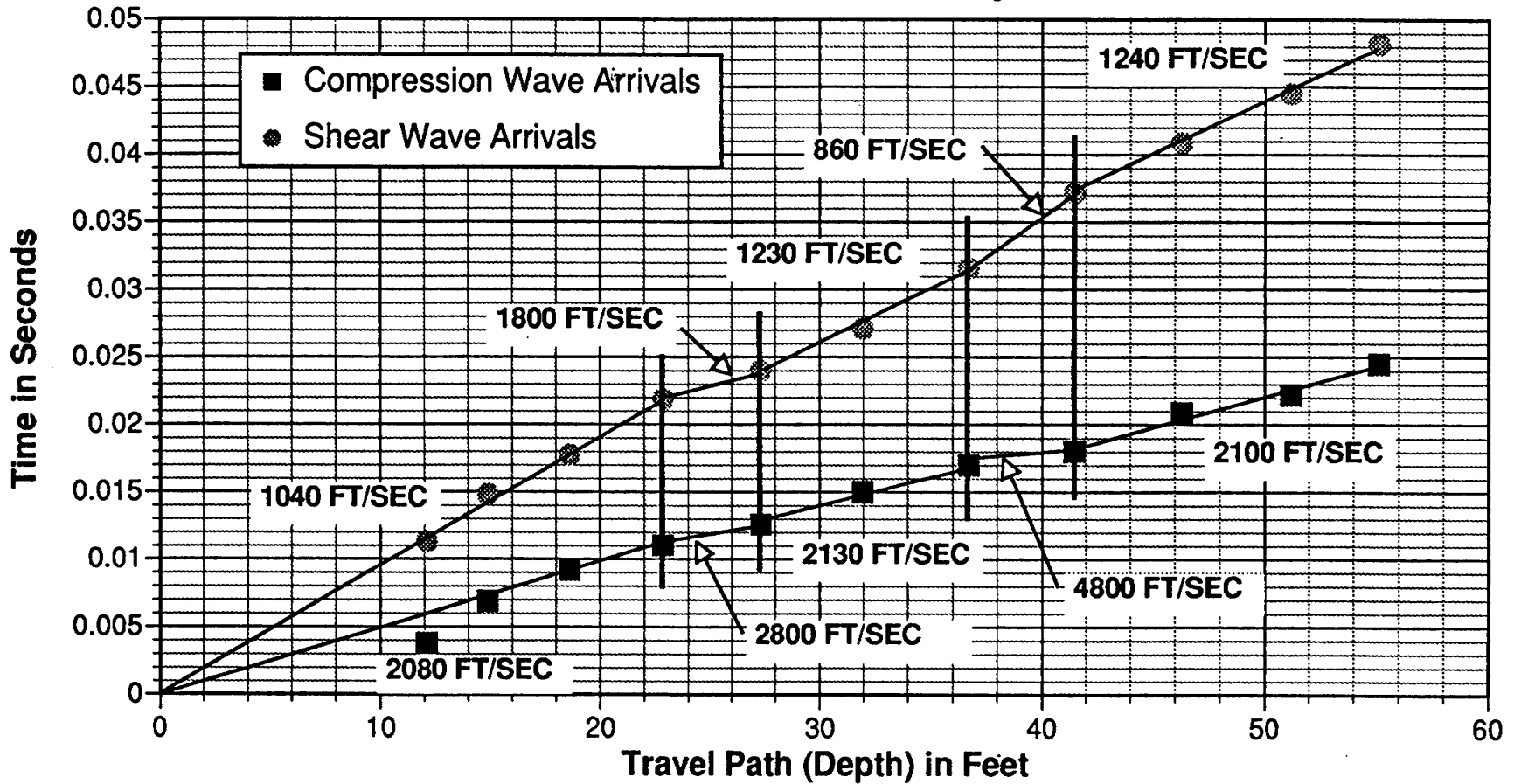
4.0 SUMMARY OF CONCLUSIONS

The embankment surveyed is composed of artificial fill materials underlain by sandstone, siltstone and claystone bedrock. Compression and shear wave velocities are generally low to medium (1,450 to 5,400 ft/sec for compression waves and 770 to 2,010 ft/sec for shear waves) and consistent with what would be expected for compacted fill and weathered bedrock materials. Velocities vary within the fill and are generally higher in weathered bedrock and the data does not indicate that particularly loose soils are present.

FIGURES

- 1 Downhole Seismic Results, Boring MM-1
- 2 Downhole Seismic Results, Boring MM-3

Downhole Seismic Survey, MM-1

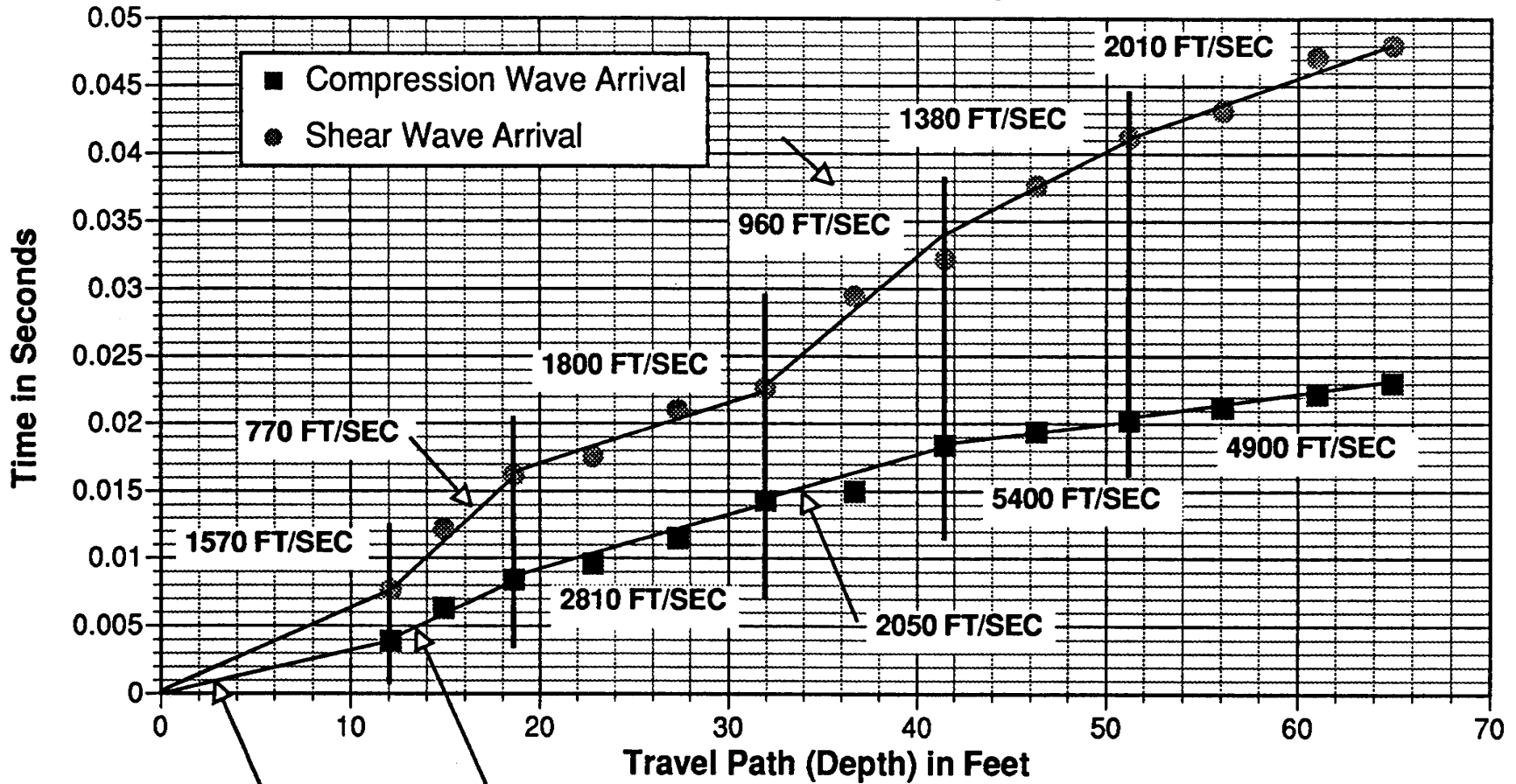


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Downhole Seismic Results, Boring MM-1
Walnut Creek Clearwell Project
Walnut Creek, California

GEOPHYS. BY POS	SCALE AS SHOWN	PROJECT NO. 9707
APPROVED BY POS	DATE 11/21/97	FIGURE NO. 1

Downhole Seismic Survey, MM-3



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Downhole Seismic Results, Boring MM-3
 Walnut Creek Clearwell Project
 Walnut Creek, California

GEOPHYS. BY POS	SCALE AS SHOWN	PROJECT NO. 9707
APPROVED BY POS	DATE 11/21/97	FIGURE NO. 2

SEISMIC REFRACTION SURVEY
EBMUD Walnut Creek Filter Plant Expansion
Walnut Creek, California

for
EAST BAY MUNICIPAL UTILITY DISTRICT
375 11th Street, MS-610
Oakland, California 94607

by
Portola Geophysics
900 Wayside Road
Portola Valley, California 94028

April 1998

Portola Geophysics

900 Wayside Road, Portola Valley, CA 94028

Phone & FAX (650) 851-5342

April 22, 1998
9802

Mr. Derek Kawaii, Project Engineer
Materials Engineering
EAST BAY MUNICIPAL UTILITY DISTRICT
P.O. Box 24055
Oakland, California 94623

SUBJECT: **Seismic Refraction Survey**
RE: EBMUD Walnut Creek Filter Plant Expansion Project
P.O. No. 562-57464-AX
Walnut Creek, California

Dear Mr. Kawaii:

The following report describes the findings and conclusions of our surface seismic refraction survey geophysical investigation of the EBMUD Walnut Creek Filter Plant Expansion Project in Walnut Creek, Contra Costa County, California. This geophysical investigation was conducted in accordance with our proposal to you dated March 6, 1998.

We appreciate the opportunity to have been of service to you on this project. If you have any questions regarding this report, any aspect of our investigation, or if you need additional services, please contact our office.

Very truly yours,

PORTOLA GEOPHYSICS



Patrick O. Shires
Principal Geophysicist
RGP 879

POS:st

SEISMIC REFRACTION SURVEY
EBMUD Walnut Creek Filter Plant Expansion
Contra Costa County, California

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- 1 Location Map (Chemical Building Site)
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- 5 Seismic Refraction Survey Data and Interpreted Subsurface Velocity Profile, Seismic Line No. S-6
- 6 Seismic Refraction Survey Data and Interpreted Subsurface Velocity Profiles, Seismic Line Nos. S-7 and S-8
- 7 Seismic Refraction Survey Data and Interpreted Subsurface Velocity Profiles, Seismic Line Nos. S-9 and S-10
- 8 Seismic Refraction Survey Data and Interpreted Subsurface Velocity Profile, Seismic Line No. S-11
- 9 Rippability Charts (Caterpillar, Inc., 1990)

1.0 INTRODUCTION

This report describes the methods and equipment used, interpreted results, limitations and conclusions of a seismic refraction geophysical survey of the East Bay Municipal Utility District (EBMUD) Walnut Creek Filter Plant Expansion Project site located in the Walnut Creek area of Contra Costa County, California. This investigation was conducted for EBMUD in accordance with our proposal dated March 6, 1998.

1.1 Project Description

The proposed project consists of expansion of the existing Walnut Creek Filter Plant by construction of two, new 236-foot diameter steel tank water reservoirs on a north-facing, moderately steep slope and a new chemical storage structure closer to the administration facilities of the plant in the Walnut Creek area of Contra Costa County, California.

1.2 Purpose and Scope of Investigation

The purpose of our investigation was to: 1) investigate subsurface conditions in the vicinity of the proposed dual reservoir site using the seismic refraction geophysical method, and to 2) evaluate the depth to and characteristics of the bedrock, including the rippability of materials in the vicinity of the proposed excavations.

The scope of work included a field seismic refraction survey followed by geophysical analysis of the acquired data, and preparation of this report.

1.3 Geologic Setting

The project area is characterized by moderately to steeply sloping, north-facing hillside terrain underlain by surficial soils and artificial fill over weathered Orinda Formation sedimentary bedrock.

2.0 SEISMIC REFRACTION SURVEY

A total of eleven (11) individual seismic refraction lines* with a combined spread length of 2,790 feet were recorded at two sites, the first three at the chemical building site near the existing plant administration facilities, and the remaining lines southwest of the existing plant in the vicinity of the proposed tanks. These seismic refraction lines were recorded on March 27 and 28, 1998, in the locations shown on figures 1 and 2. The interpreted results are presented on figures 3 through 8. Rippability correlations are presented on Figure 9. The method and equipment used, the interpreted results, limitations and a summary of pertinent conclusions are discussed in the following sections of this report.

2.1 Method and Equipment Used

The seismic refraction survey procedure used consisted of placing twelve (12)

* For the purposes of this report, a seismic refraction line is defined as twelve geophones spaced at equal intervals of 25 feet along a straight line and monitored simultaneously while a sledge hammer is repeatedly impacted 12.5 feet off each end, and at the center, of the line.

geophones in as straight a line as practical (in plan) spaced at 10-foot or 25-foot intervals along as constant a slope as practical (in profile). A large sledge hammer was impacted at 10 or 12.5 feet off both ends of each line and at the center of the longer lines. The hammer impacts generated seismic compression waves which were refracted through subsurface materials and received by the deployed geophones. The signal from the energy source initiation (time break) started the instrument sweep as signals from the geophones were monitored (amplified, filtered and stacked) simultaneously by a digital seismograph with an on-board computer and displayed graphically in analog form on the built-in computer monitor. Digital records stored in the computer were field checked, stored on magnetic disk and returned to our office for printing, data reduction and interpretation.

Seismic refraction lines were marked for location and elevation using an existing base map combined with hand level, Brunton compass and measuring tape methods. Lines were marked with stakes and flags in the field and located on the base map. Locations and relative elevations should be considered approximate.

The data reduction and interpretation procedure consisted of the following sequence of tasks:

- computerized picking of first breaks of compression waves (P-waves) from the digital records of the seismic system computer,
- visual adjustment of first break picks by observing the analog record,
- plotting of time-distance graphs utilizing raw data,
- preliminary determination of apparent velocities,
- plotting of elevation data along the profiles,
- measurement of differences between actual geophone elevations and a constant slope profile,
- computer analysis of preliminary apparent velocities and elevation differences to determine travel-time corrections,
- adjustment of the time-distance graphs and refinement of apparent velocity determinations satisfying reciprocity,
- comparison of time-distance and velocity data with a catalog of subsurface structures to interpret an appropriate seismic refraction model,
- computer analysis (using computer program developed by Shires, 1983, involving principles published by Mooney, 1977, Handbook of Engineering Geophysics, satisfying the condition of reciprocity, travel-time = distance/velocity, and Snell's Law of Refraction) of apparent velocity and intercept time data to determine depths of refractors, true velocities, dips of refractors, and angles of wave incidence (seismic ray paths),
- measurement of time deviations from "best fit" apparent velocity slopes on the time-distance graphs,

- computer analysis of apparent velocities and time deviations to determine refractor profile corrections,
- adjustment of refractor depths to reflect time deviations,
- correlation of results with known geologic factors (from mapping and/or borehole logs), with adjacent or overlapping seismic refraction data, and
- final preparation of interpreted subsurface velocity profiles.

The equipment used for the seismic refraction survey consisted of twelve (12) geophones at one time of 10 Hz natural frequency. The geophones were connected to 10-foot or 25-foot take-out spacing cables using Mueller clips. The combination seismograph/oscillograph used was a 24-channel ABEM™ Terraloc Mark 3 Seismic System mounted on a pack frame for portability.

The energy source used consisted of a 16-pound sledge hammer equipped with a seismograph triggering mechanism. The sledge hammer was repeatedly impacted on a steel plate placed in a cleared area on the ground surface. Repeated impact signals were stacked for each seismic record.

2.2 Interpreted Results

Seismic refraction lines S-1, S-2 and S-3 were recorded at the proposed chemical building site in the locations shown on Figure 1. Results are presented on Figure 3. All three lines incorporated 12 geophones spaced at 10 feet with a spread lengths of 130 feet with shots at 10 feet off of both ends of each line.

Line S-1 is interpreted to be underlain by one velocity zone (refractor) to the depth surveyed. This zone is characterized by low to medium velocity (2020 ft/sec) material extending from the ground surface on down to the depth limit of information obtained (about 40 feet beneath the ground surface). This zone likely corresponds to weathered bedrock materials.

Lines S-2 and S-3 are interpreted to be underlain by two velocity zones (refractors) to the depth surveyed. The zone closest to the ground surface is characterized by low velocity (1110 to 1270 ft/sec) materials to a thickness of 3.5 to 10.7 feet beneath the ground surface. This upper zone corresponds to soil and deeply weathered bedrock materials that are relatively dry. The underlying zone consists of low to medium velocity (2950 to 3070 ft/sec) materials extending from 3.5 to 10.7 feet on down to the depth limit of information obtained (about 40 feet beneath the ground surface). This zone likely corresponds to weathered bedrock materials.

Based on geomorphology, the northeasterly end of Line S-3, where the low velocity zone thickens, may be underlain by landslide debris or thickening colluvium. Additional mapping and/or direct observation subsurface exploration should be carried out by your engineering geologist in this area to evaluate this feature.

Seismic refraction lines S-4, S-5, the northern one-half of Line S-6, and Line S-7 were recorded in a relatively flat area of artificial fill in the locations shown on Figure 2. Results are presented on figures 4 and 5. All lines incorporated 12 geophones spaced at

25 feet with a spread lengths of 300 feet with shots at 12.5 feet off of both ends and at the center of each line.

Lines S-4 through S-7 are interpreted to be underlain by two or three (2 or 3) velocity zones (refractors) to the depth surveyed. The zone closest to the ground surface is characterized by low velocity (1150 to 1530 ft/sec) materials to a thickness of 7.7 to 29.9 feet beneath the ground surface. This upper zone corresponds to artificial fill, soil and deeply weathered bedrock materials that are relatively dry. The underlying zone consists of medium velocity (4120 to 5790 ft/sec) materials extending from 7.7 to 29.9 feet on down to 39.3 to 76.3 feet beneath the ground surface. This zone likely corresponds to weathered bedrock materials that may be saturated. The medium velocity materials are underlain in turn (in lines S-4, S-5 and S-7) by high velocity (8310 to 9240 ft/sec) materials to the depth limit of information obtained (about 96 feet beneath the ground surface). This zone likely corresponds to less weathered bedrock materials.

Seismic refraction lines S-8 through S-11 were recorded on the slope above the artificial fill area in the vicinity of the proposed twin tanks in the locations shown on Figure 2. Results are presented on figures 6 through 8. All lines incorporated 12 geophones spaced at 25 feet with a spread lengths of 300 feet with shots at 12.5 feet off of both ends and at the center of each line.

Lines S-8 and S-9 are interpreted to be underlain by three (3) velocity zones (refractors) to the depth surveyed. The zone closest to the ground surface is characterized by low velocity (1140 to 1280 ft/sec) materials to a thickness of 9.0 to 21.3 feet beneath the ground surface. This upper zone corresponds to soil and deeply weathered bedrock materials that are relatively dry. The underlying zone consists of low to medium velocity (2710 to 4960 ft/sec) materials extending from 9.0 to 21.3 feet on down to 30.1 to 73.2 feet beneath the ground surface. This zone likely corresponds to weathered bedrock materials. The low to medium velocity materials are underlain in turn by medium to high velocity (5550 to 7980 ft/sec) materials to the depth limit of information obtained (about 96 feet beneath the ground surface). This zone likely corresponds to less weathered bedrock materials that may be saturated.

Lines S-10 and S-11 are interpreted to be underlain by two velocity zones (refractors) to the depth surveyed. The zone closest to the ground surface is characterized by low velocity (980 to 1130 ft/sec) materials to a thickness of 10.8 to 19.6 feet beneath the ground surface. This upper zone corresponds to soil and deeply weathered bedrock materials that are relatively dry. The underlying zone consists of medium velocity (5300 to 5600 ft/sec) materials extending from 10.8 to 19.6 feet on down to the depth limit of information obtained (about 96 feet beneath the ground surface). This zone likely corresponds to weathered bedrock materials that may be saturated.

2.3 Rippability

Rippability is strongly influenced by the physical condition of the rock masses to be ripped. Structural features in rock such as bedding planes, cleavage planes, joints, fractures and shear zones influence rippability. Rock masses tend to be rippable if they have closely-spaced fractures, joints, or other planes of weakness. Massive rock materials lacking discontinuities, even where partially weathered, may exhibit marginal rippability, requiring blasting for removal.

Seismic compression wave velocities can be related to both rock hardness and fracture density. Seismic refraction velocities have been related to rippability by Caterpillar Inc. (1990) as displayed on graphs relating seismic velocity for various rock types to rippability with various types of equipment (combinations of dozers and rippers). Two examples of these graphs are presented on Figure 9 for both D8L and D9N dozer/ripper combinations. In general, rocks such as the sedimentary claystone rocks present at this site become marginally rippable above about 7,400 feet/second and non-rippable above about 9,700 feet/second using either a D8 Dozer with a Multi or Single Shank No. 8 Ripper, or a D9 Dozer with a Multi or Single Shank No. 9 Ripper.

The charts of ripper performance should be considered as being only one indicator of rippability. The following precautions should be observed when evaluating the rippability of a given rock formation:

- Ripper tooth penetration is usually the key to successful ripping, regardless of seismic velocity. This is particularly true in finer-grained homogeneous materials and in tightly cemented formations.
- Although low seismic velocities in sedimentary rocks indicate probable rippability, if the fractures and bedding joints do not allow tooth penetration, the material may not be ripped effectively.
- Pre-blasting or "popping" may be required to induce sufficient fracturing to allow tooth penetration, but the economics of this should be checked carefully in the higher grades of sandstones, limestones and granites.
- Impact ripping may be used in marginal situations because significant boosts in production may be possible relative to conventional ripping by using an impact ripper mounted on a D10N or D11N dozer.
- Ripping success may well depend on the operator finding the proper combination of number of shanks used, length and depth of shank, tooth angle and direction and throttle position.

Based on the seismic velocities measured at this site, it appears that materials characterized by high velocities (i.e., greater than 7400 ft/sec) will be marginally to non-rippable with either the D8 dozer with No. 8 ripper combination, or a D9 dozer with No. 9 ripper. Based on seismic velocity correlation's, the surficial soil and weathered bedrock at this site (with velocities well under 7400 ft/sec) that are contemplated for removal should not pose significant problems to mass grading with heavy construction equipment.

3.0 INVESTIGATION LIMITATIONS

The subsurface velocity profiles presented in this report represent the most reasonable interpretation of geophysical survey data based on our limited knowledge of the existing geologic conditions at the site. The results are presented for design information only and are not intended to serve as information for determining construction procedures. Interpretations were made in accordance with generally accepted geophysical methods and practices. This warranty is in lieu of all other warranties, express or implied.

It is best to correlate seismic refraction data with direct subsurface exploration data and this was not accomplished for the chemical building lines and some of the water storage tank lines conducted for this investigation.

The quality of seismic refraction data for this survey was good, but in some cases affected by background noise, irregular terrain, and lateral inhomogeneity. These factors produced noise signals and/or scatter in the recorded data, limiting the accuracy of first break compression wave picks and interpretation. The seismic refraction method used has some inherent limitations such as the possibility for undetectable hidden layers, blind zones, and velocity inversions. The maximum depth of reliable seismic information obtained during this survey can be assumed to be approximately one-third of the length of the individual lines, with information at a maximum depth underlying the middle one-third of the lines. For example, a seismic refraction line 300 feet in length will typically yield reliable data on subsurface materials to a depth of about 100 feet beneath the middle 100 feet of the line.

4.0 SUMMARY OF CONCLUSIONS

The proposed chemical storage building site surveyed was generally underlain by one to two velocity zones to the depth limit surveyed (about 40 feet beneath the ground surface). These zones were generally characterized by lower velocities where surficial soils and deeply weathered bedrock were present (to depths of 3.5 to 10.7 feet) and low to medium velocities where weathered bedrock materials were present (from 3.5 to 10.7 feet up to at least about 40 feet deep). Based on velocity/rippability correlation's, surficial materials in the area of the chemical storage building should be rippable with heavy conventional excavation equipment. Based on geomorphology and a thicker low velocity zone, the northern end of Line S-3 may be underlain by landslide debris. This area should be investigated more thoroughly by engineering geologic mapping and direct observation subsurface exploration.

The proposed water tanks site was generally underlain by two to three velocity zones to the depth limit surveyed (about 96 feet beneath the ground surface). These zones were generally characterized by lower velocities where artificial fill, surficial soils and deeply weathered bedrock were present (to depths of 7.7 to 29.9 feet), low to medium velocities where weathered bedrock materials were present (from 7.7 to 29.9 feet down to 30.1 to at least about 96 feet), and medium to high velocities where less weathered bedrock materials were present (from 30.1 to greater than 96 feet down to greater than 96 feet). Based on velocity/rippability correlation's, surficial materials in the area of the proposed water tanks should be rippable with heavy conventional excavation equipment, provided that the higher velocity materials recorded at depth are not encountered. Based on geomorphology, there appears to be an earth slump/flow on the slope above the tank site (near the head of the mapped landslide) and there is a near-vertical, somewhat arcuate topographic lineament (scarp?) in the artificial fill slope downslope of the tanks pad. These areas should be investigated more thoroughly by engineering geologic mapping and/or direct observation subsurface exploration.

5.0 REFERENCES

ABEM, (1987), "ABEM Terraloc Mark 3 Operator's Manual".

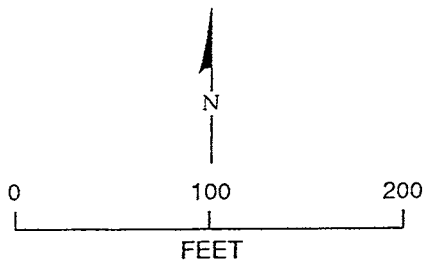
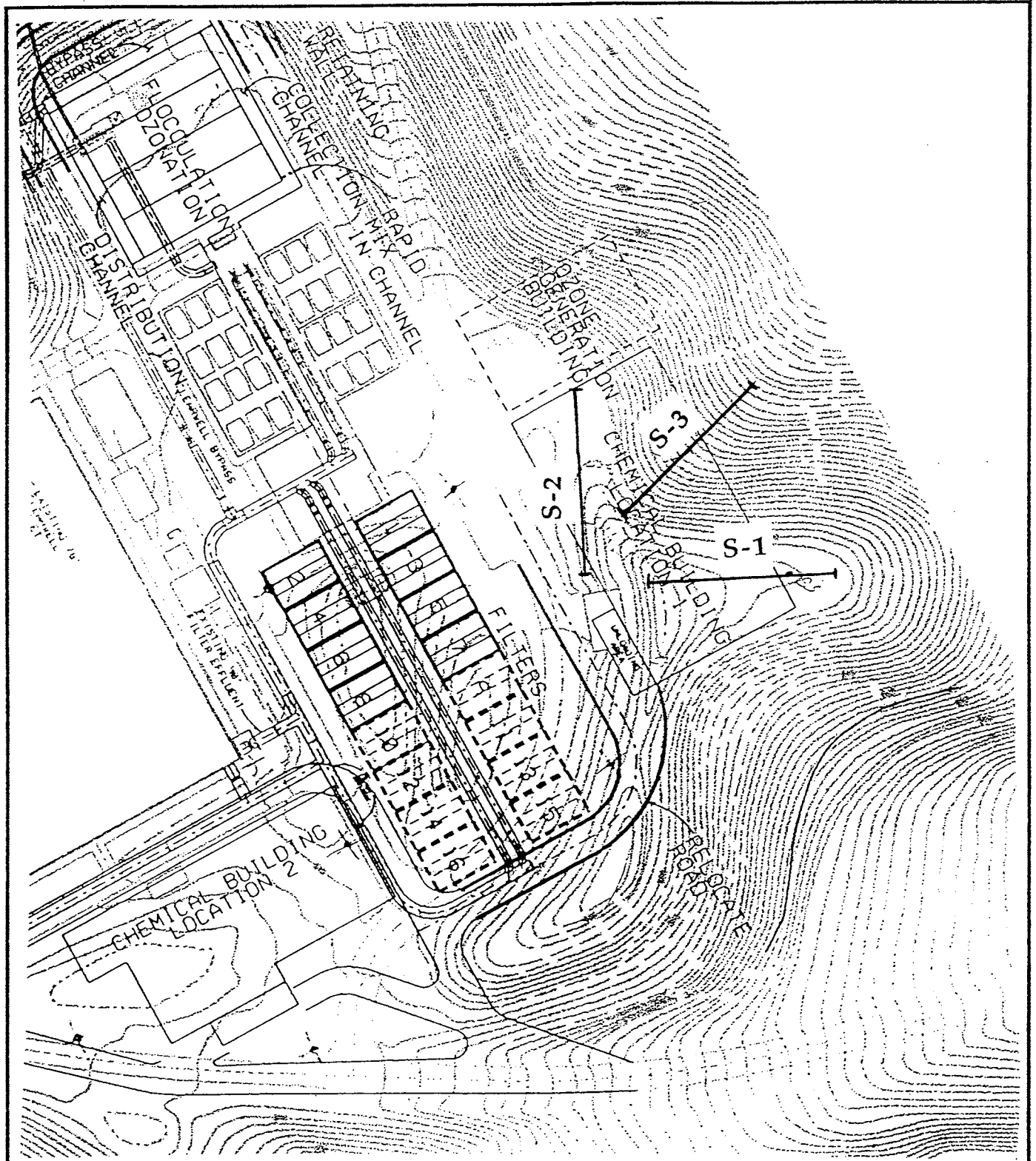
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Dobrin, M. B., (1960), "Introduction to Geophysical Prospecting", McGraw-Hill Book Company.

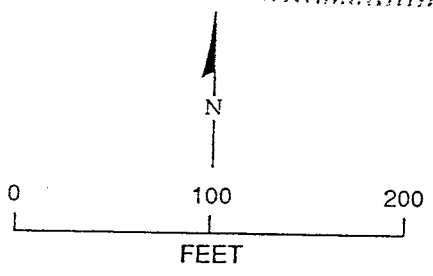
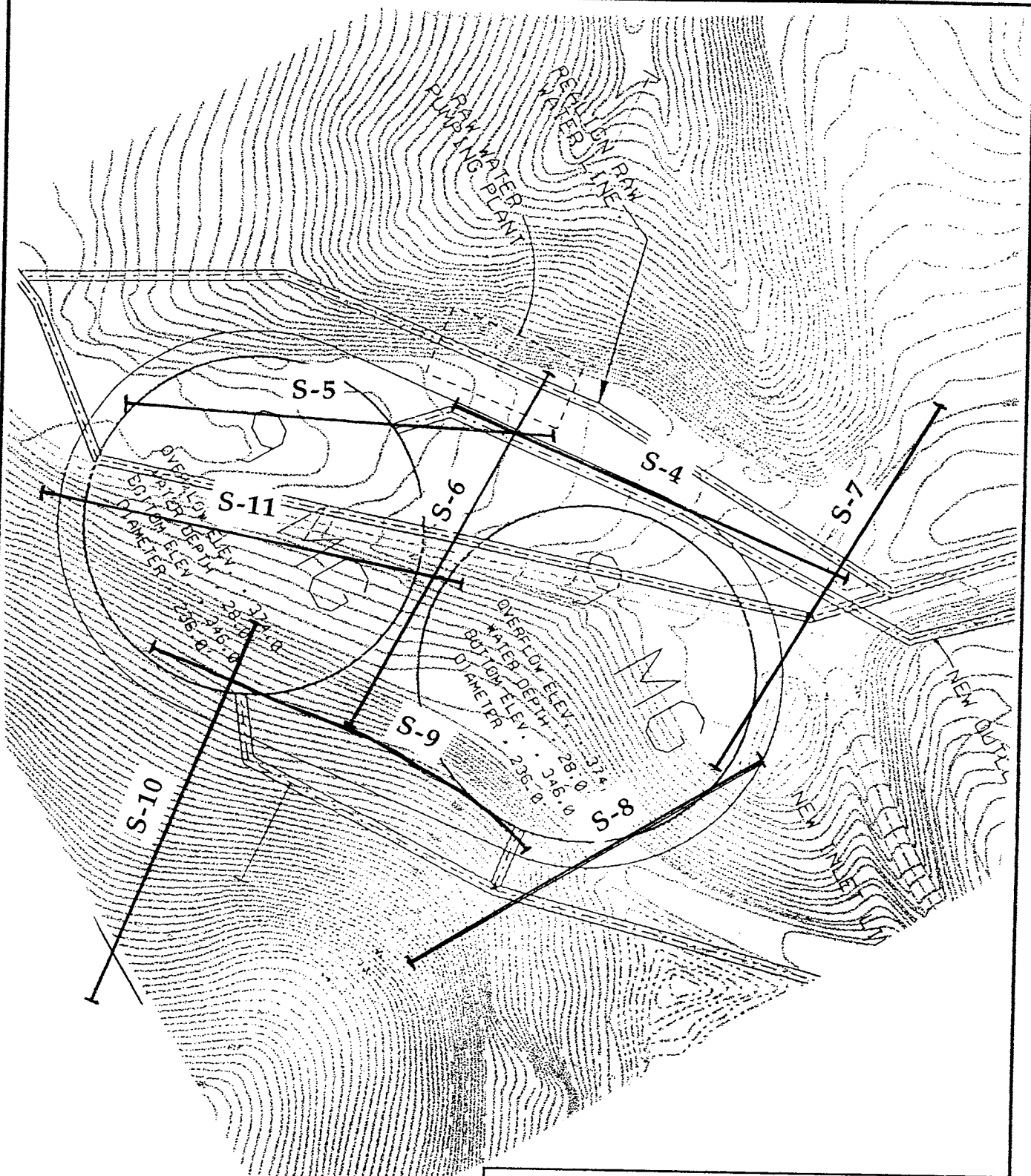
Shires, P. O., (1983), "A Seismic Refraction Interpretation Program for Multi-Dipping Layers".

FIGURES

- 1 Location Map (Chemical Building Site)
- 2 Location Map (Twin Water Tanks Site)
- 3 Seismic Refraction Survey Data and Interpreted Subsurface Velocity Profiles,
Seismic Line Nos. S-1, S-2, and S-3
- 4 Seismic Refraction Survey Data and Interpreted Subsurface Velocity Profiles,
Seismic Line Nos. S-4 and S-5
- 5 Seismic Refraction Survey Data and Interpreted Subsurface Velocity Profile,
Seismic Line No. S-6
- 6 Seismic Refraction Survey Data and Interpreted Subsurface Velocity Profiles,
Seismic Line Nos. S-7 and S-8
- 7 Seismic Refraction Survey Data and Interpreted Subsurface Velocity Profiles,
Seismic Line Nos. S-9 and S-10
- 8 Seismic Refraction Survey Data and Interpreted Subsurface Velocity Profile,
Seismic Line No. S-11
- 9 Rippability Charts (Caterpillar, Inc., 1990)



Portola Geophysics		
LOCATION MAP (CHEMICAL BUILDING SITE) SEISMIC REFRACTION SURVEY EBMUD WALNUT CREEK FILTER PLANT EXPANSION CONTRA COSTA COUNTY, CALIFORNIA		
GEOPHYS. BY POS	SCALE 1"=100'	PROJECT NO. 9802
APPROVED BY POS	DATE 4/22/98	FIGURE NO. 1

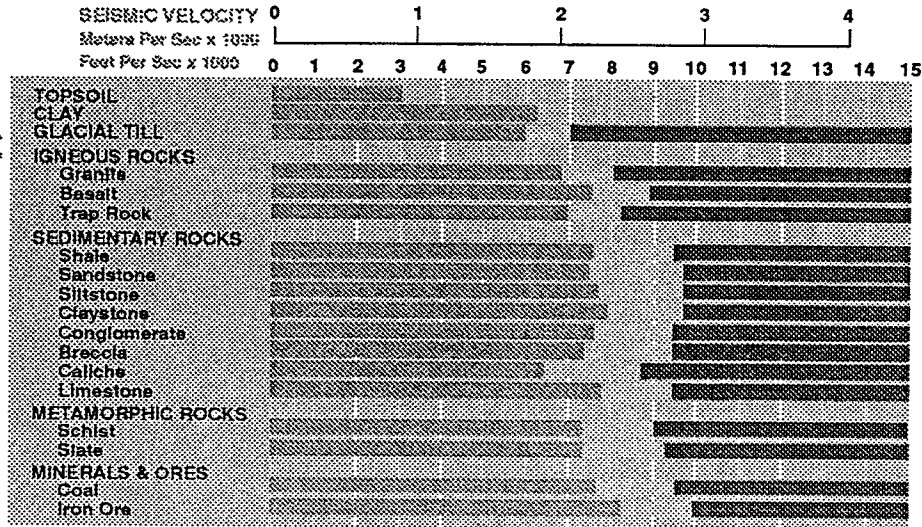


Portola Geophysics		
LOCATION MAP (TWIN WATER TANKS SITE) SEISMIC REFRACTION SURVEY EBMUD WALNUT CREEK FILTER PLANT EXPANSION CONTRA COSTA COUNTY, CALIFORNIA		
GEOPHYS. BY POS	SCALE 1"=100'	PROJECT NO. 9802
APPROVED BY POS	DATE 4/22/98	FIGURE NO. 2

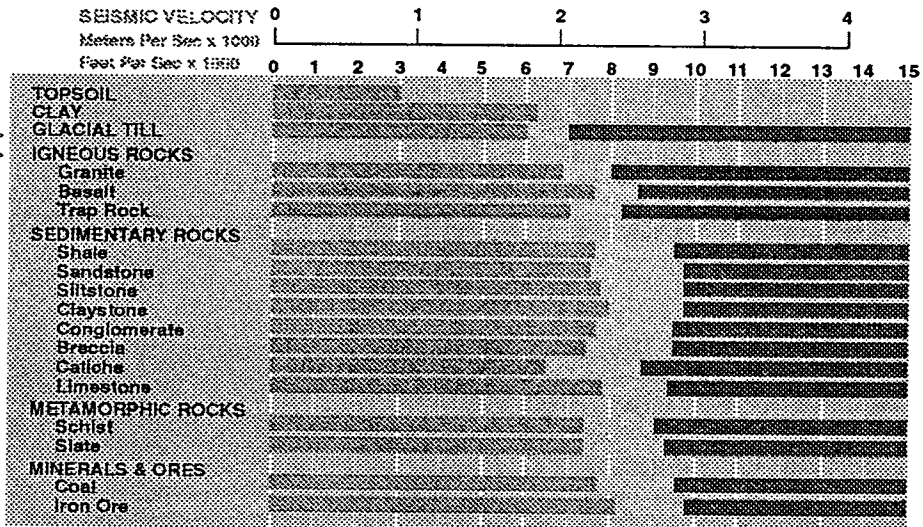
RIPPER PERFORMANCE

Multi or Single Shank Rippers
Estimated by Seismic Wave Velocities

D&L Dozer with No. 8 Ripper



D9N Dozer with No. 9 Ripper

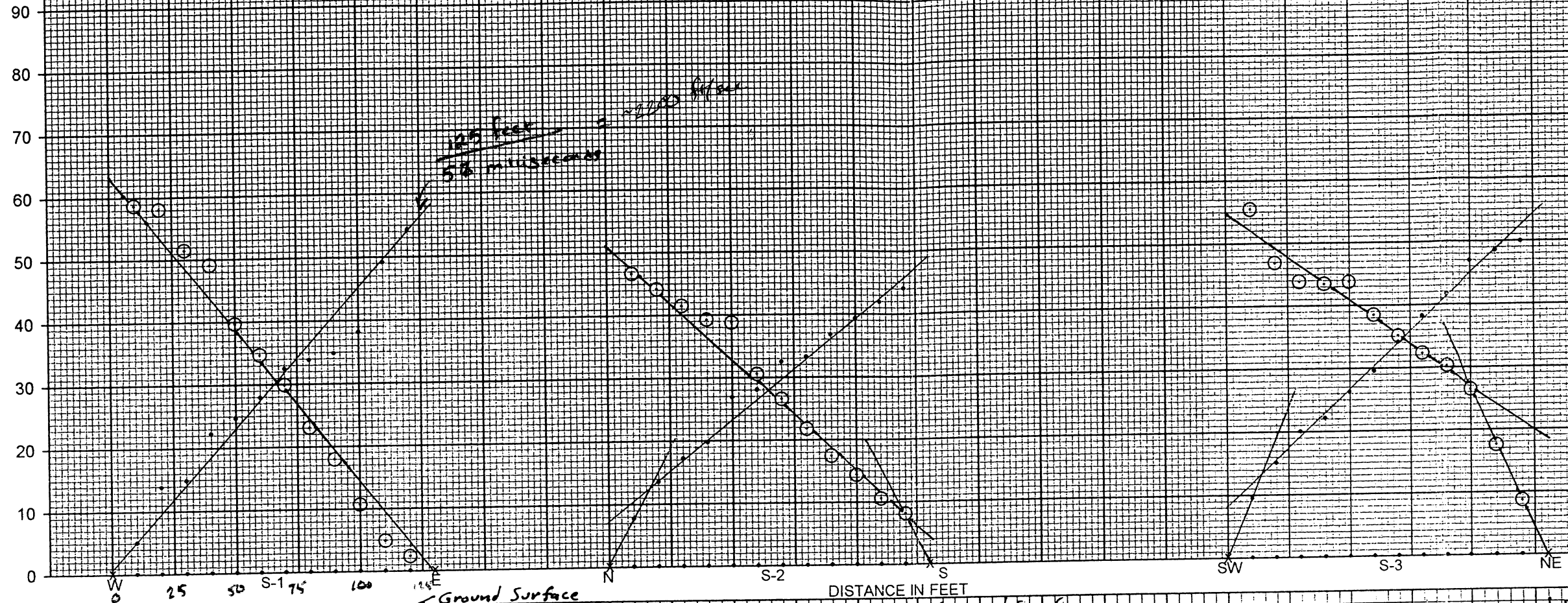


Rippable Marginal Non-Rippable

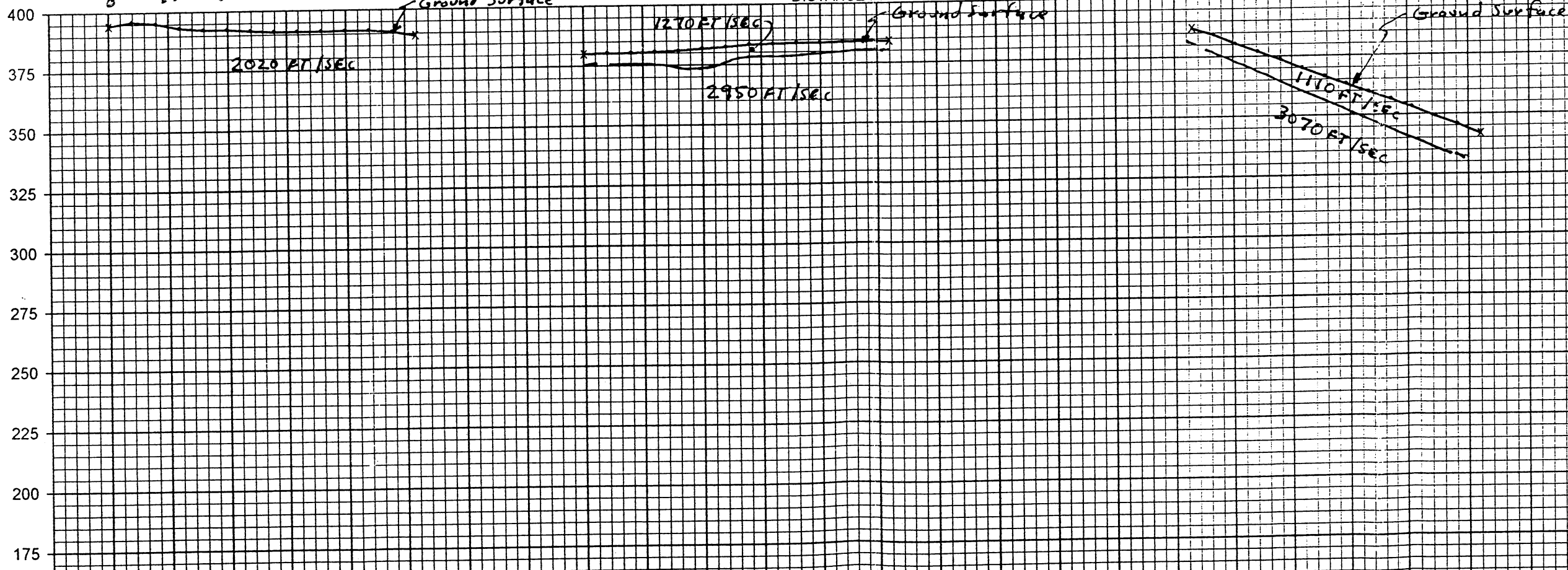
Source: Caterpillar™, 1990

Portola Geophysics		
RIPPABILITY CHARTS (Caterpillar, Inc., 1990) SEISMIC REFRACTION SURVEY WALNUT CREEK FILTER PLANT EXPANSION CONTRA COSTA COUNTY, CALIFORNIA		
GEOPHYS. BY POS	SCALE As Noted	PROJECT NO. 9802
APPROVED BY POS	DATE 4/22/98	FIGURE NO. 9

TIME IN MILLISECONDS



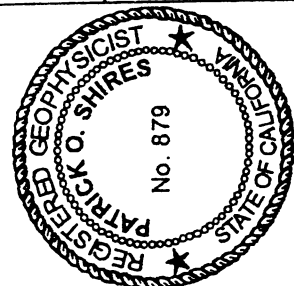
ELEVATION IN FEET



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SEISMIC REFRACTION SURVEY
DATA AND INTERPRETED SUBSURFACE VELOCITY PROFILES

EBMUD Walnut Creek Filter Plant Expansion
Contra Costa County, CA



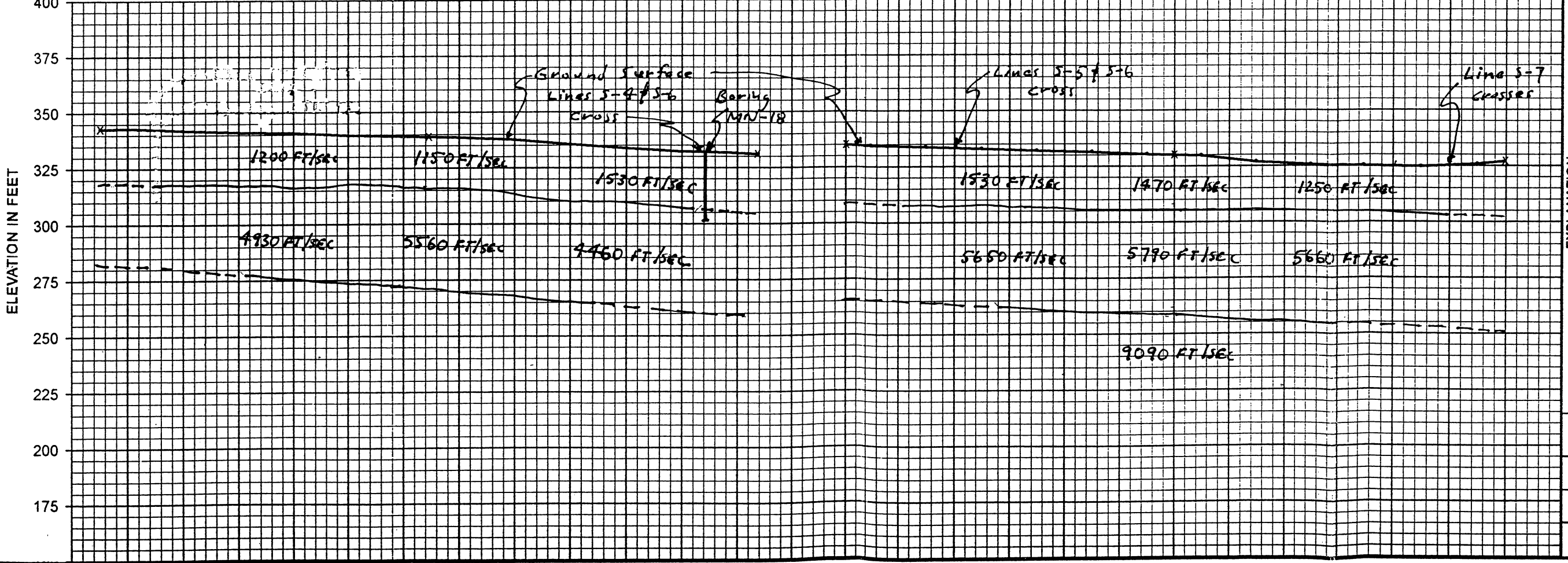
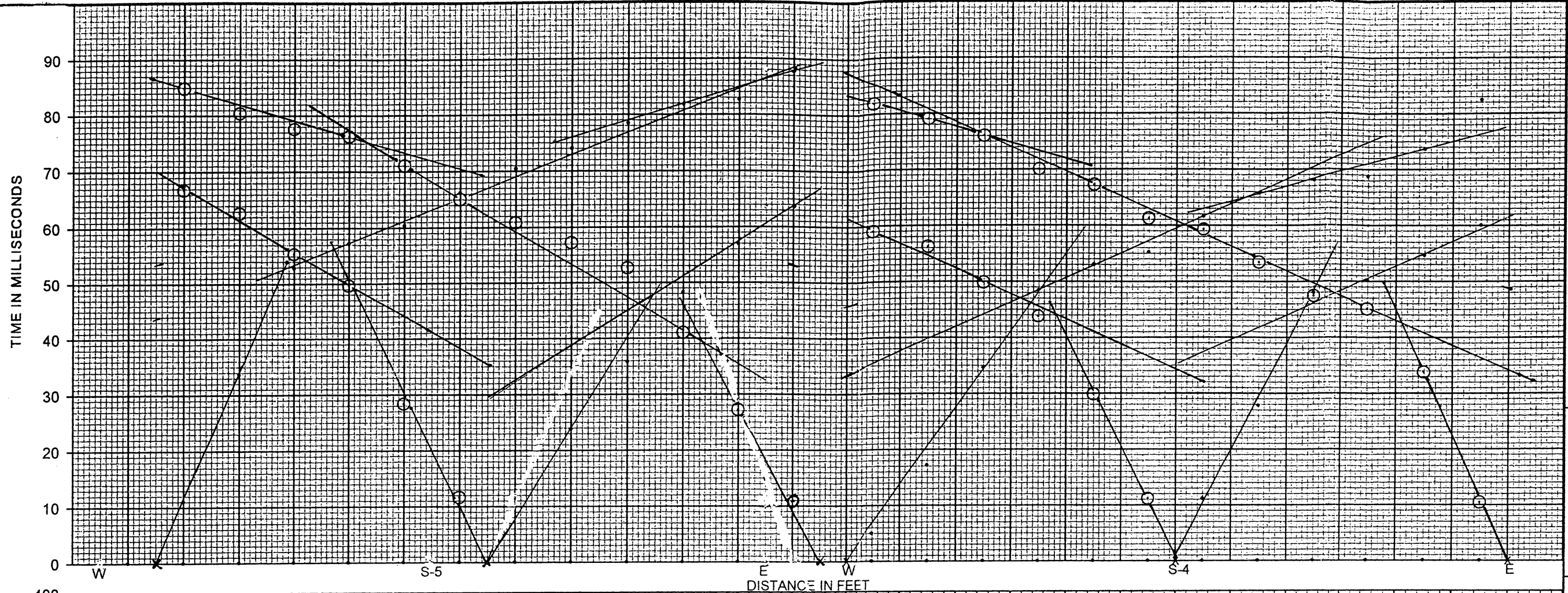
- EXPLANATION
1. TIME-DISTANCE GRAPHS AT TOP OF FIGURE REPRESENT SEISMIC REFRACTION SURVEY DATA; DOTS ON BOTTOM LINE OF GRAPHS REPRESENT GEOPHONE LOCATIONS, X'S REPRESENT SHOT POINT LOCATIONS.
VERTICAL SCALE: 1" = 20 MILLISECONDS
HORIZONTAL SCALE: 1" = 50 FEET
 2. SUBSURFACE VELOCITY PROFILES AT BOTTOM OF FIGURE REPRESENT INTERPRETATIONS OF SEISMIC REFRACTION DATA AND ARE INTENDED FOR DESIGN PURPOSES ONLY.
VERTICAL AND HORIZONTAL SCALE: 1" = 50 FEET
 3. LOCATION OF SEISMIC LINES SHOWN ON FIGURE NO. (S)

SEISMIC LINE NO. (S):
S-1, S-2 & S-3

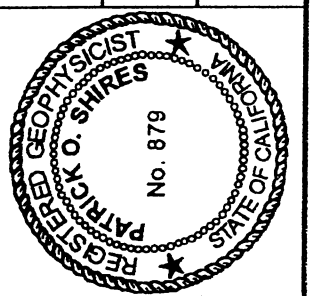
DATE: APRIL, 1998

PROJECT NO.: 9802

FIGURE NO.: 3



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 DATA AND INTERPRETED SUBSURFACE VELOCITY PROFILES
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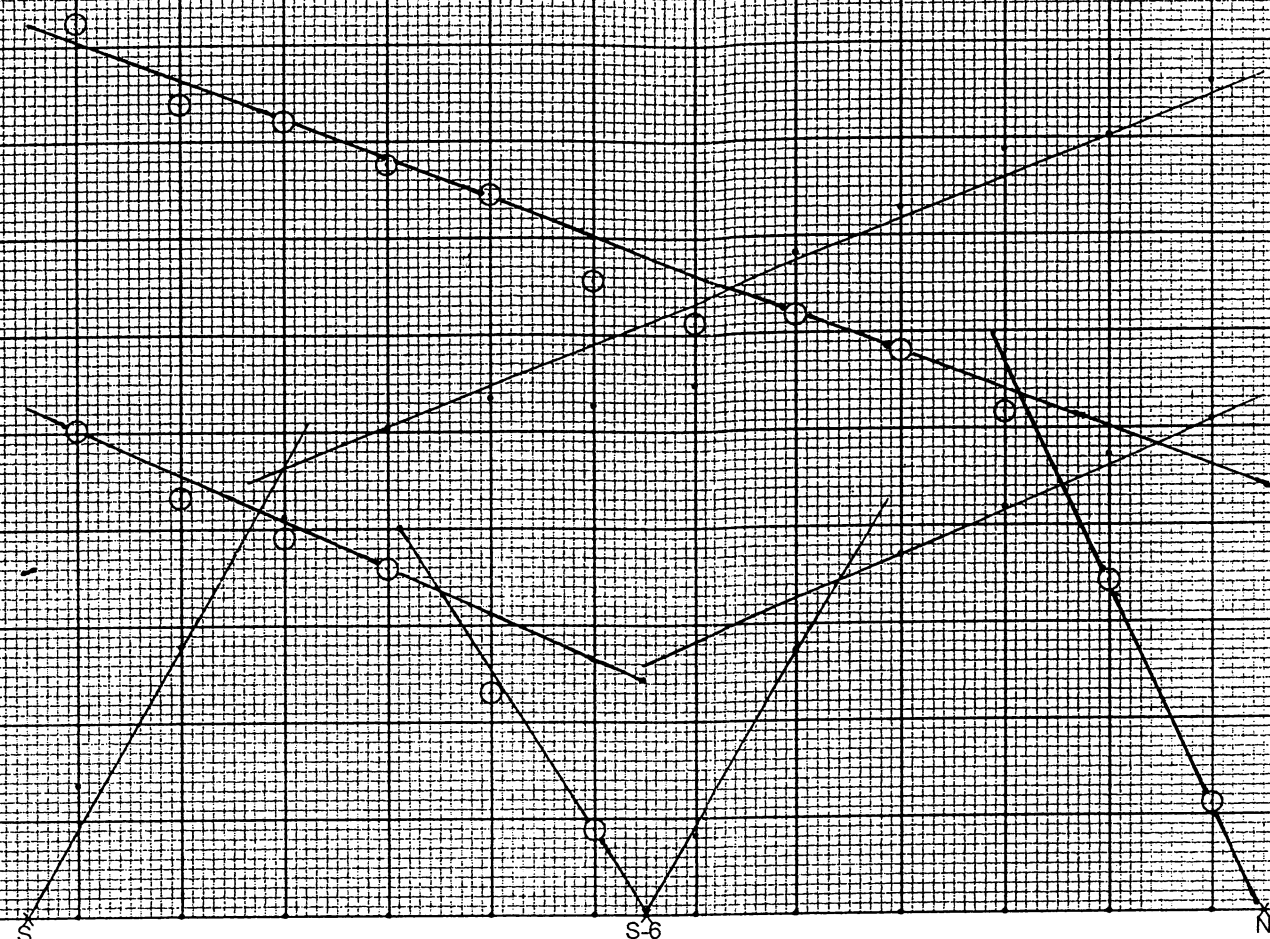


EXPLANATION
 1. TIME-DISTANCE GRAPHS AT TOP OF FIGURE REPRESENT SEISMIC REFRACTION SURVEY DATA; DOTS ON BOTTOM LINE OF GRAPHS REPRESENT GEOPHONE LOCATIONS, X'S REPRESENT SHOT POINT LOCATIONS.
 VERTICAL SCALE: 1" = 20 MILLISECONDS
 HORIZONTAL SCALE: 1" = 50 FEET
 2. SUBSURFACE VELOCITY PROFILES AT BOTTOM OF FIGURE REPRESENT INTERPRETATIONS OF SEISMIC REFRACTION DATA AND ARE INTENDED FOR DESIGN PURPOSES ONLY.
 VERTICAL AND HORIZONTAL SCALE: 1" = 50 FEET
 3. LOCATION OF SEISMIC LINES SHOWN ON FIGURE NO. (S)

SEISMIC LINE NO. (S):
 S-4 & S-5
 DATE: APRIL, 1998
 PROJECT NO.: 9802
 FIGURE NO.: 4

TIME IN MILLISECONDS

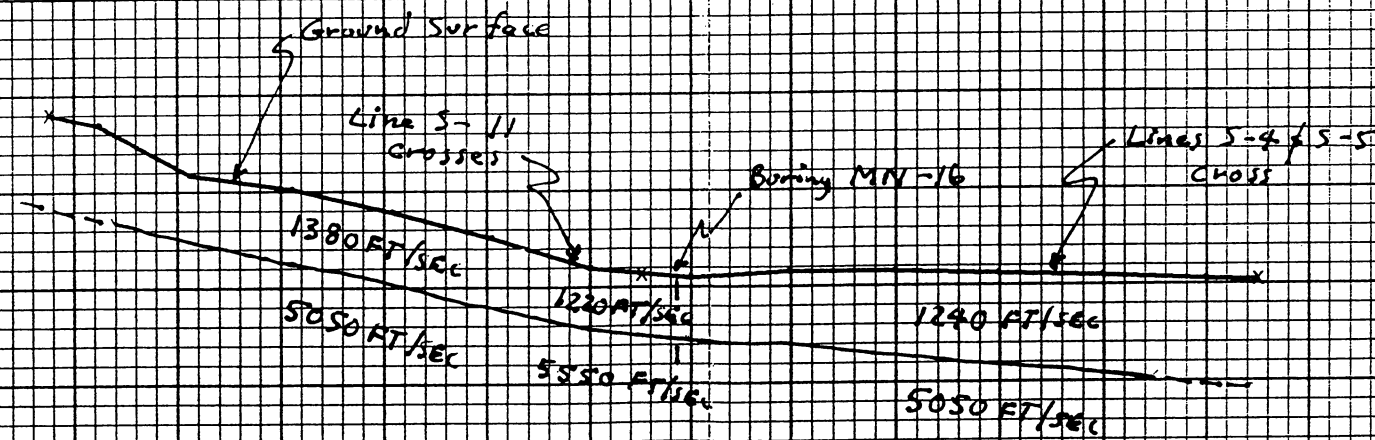
90
80
70
60
50
40
30
20
10
0



DISTANCE IN FEET

ELEVATION IN FEET

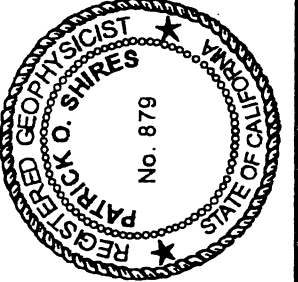
400
375
350
325
300
275
250
225
200
175



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SEISMIC REFRACTION SURVEY
DATA AND INTERPRETED SUBSURFACE VELOCITY PROFILES

EBMUD Walnut Creek Filter Plant Expansion
Contra Costa County, CA



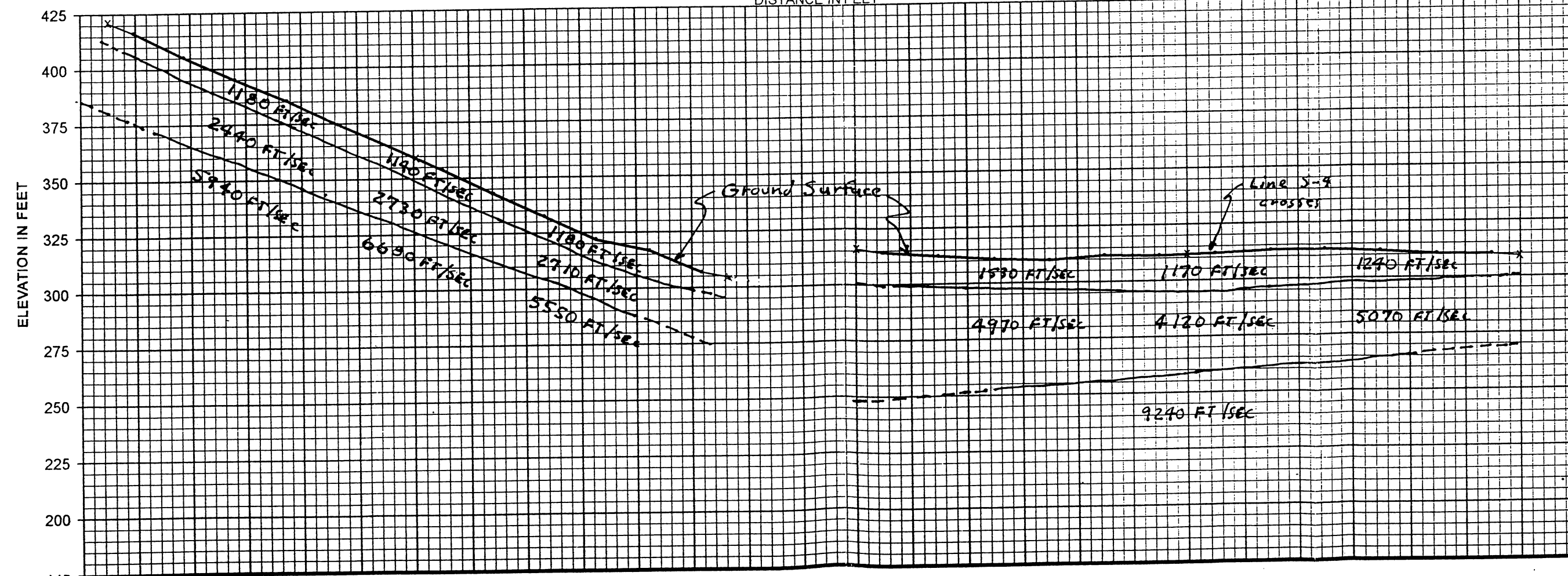
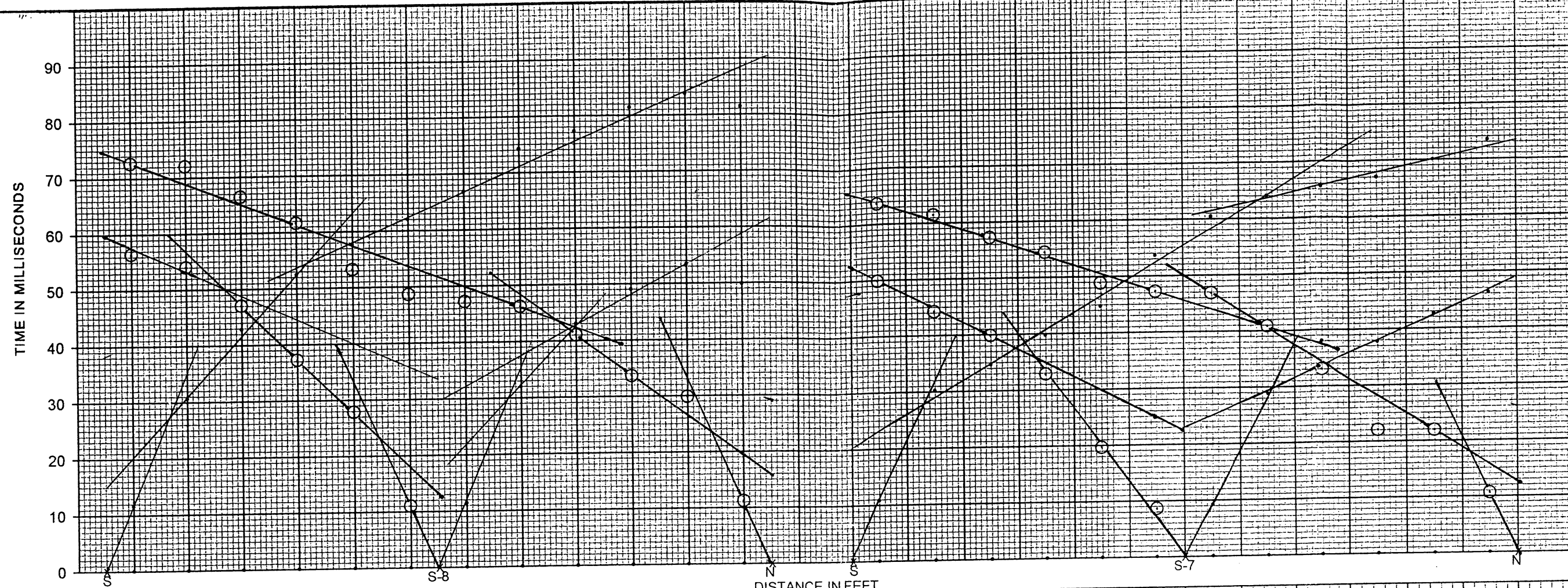
- EXPLANATION
1. TIME-DISTANCE GRAPHS AT TOP OF FIGURE REPRESENT SEISMIC REFRACTION SURVEY DATA; DOTS ON BOTTOM LINE OF GRAPHS REPRESENT GEOPHONE LOCATIONS, X'S REPRESENT SHOT POINT LOCATIONS.
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HORIZONTAL SCALE: 1" = 50 FEET
 2. SUBSURFACE VELOCITY PROFILES AT BOTTOM OF FIGURE REPRESENT INTERPRETATIONS OF SEISMIC REFRACTION DATA AND ARE INTENDED FOR DESIGN PURPOSES ONLY.
VERTICAL AND HORIZONTAL SCALE: 1" = 50 FEET
 3. LOCATION OF SEISMIC LINES SHOWN ON FIGURE NO. (S) 2

SEISMIC LINE NO. (S):
S-6

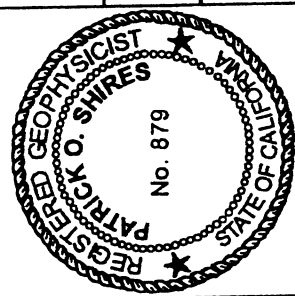
DATE: APRIL, 1998

PROJECT NO.: 9802

FIGURE NO.: 5

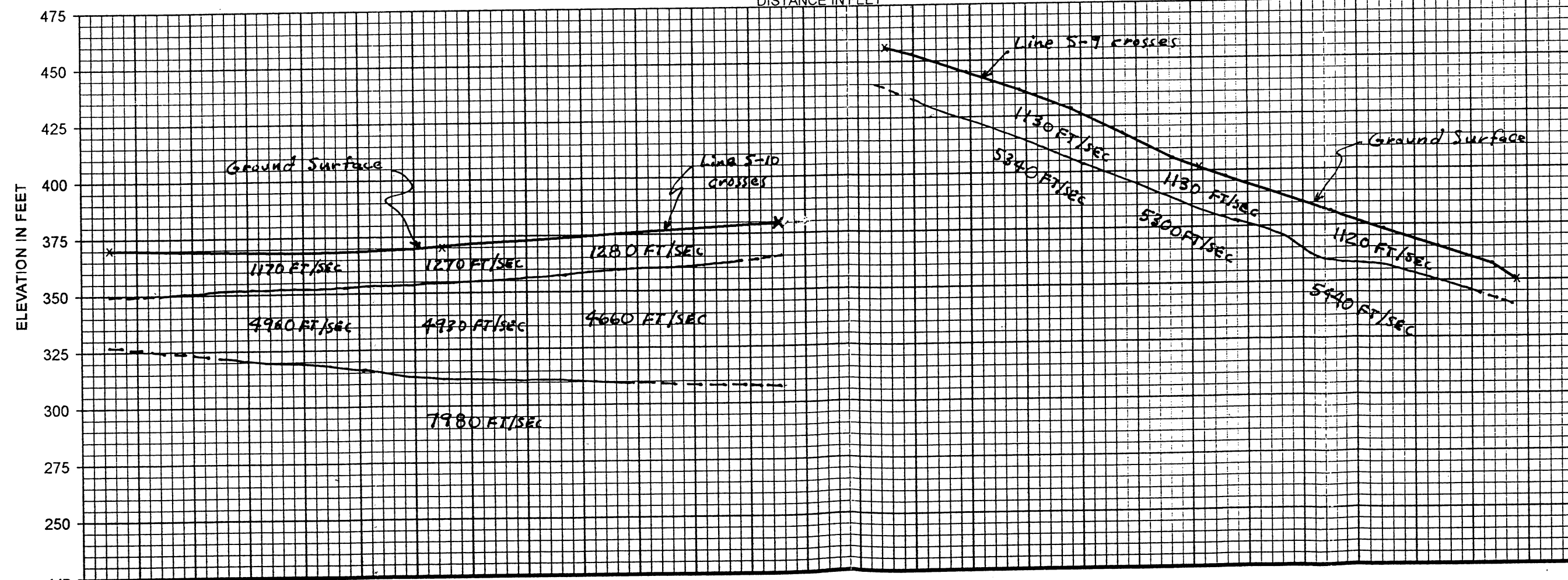
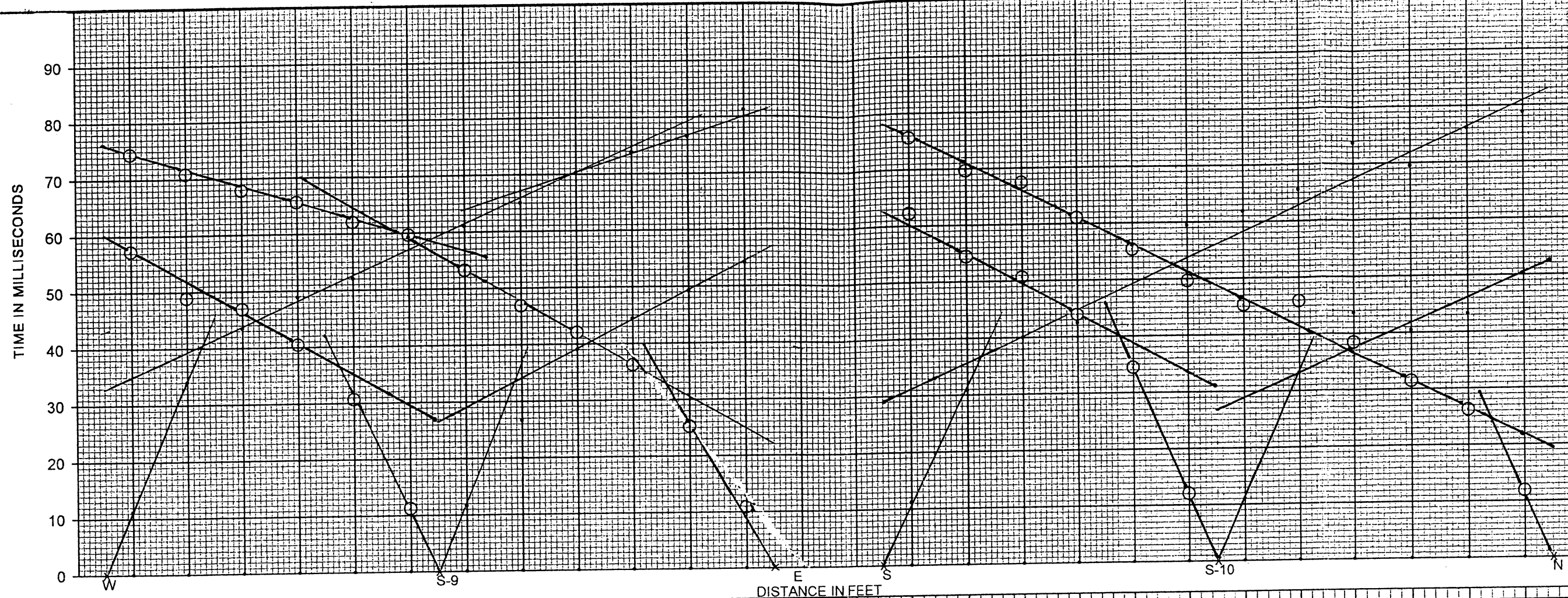


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 SEISMIC REFRACTION SURVEY
 DATA AND INTERPRETED SUBSURFACE VELOCITY PROFILES
 EBMUD Walnut Creek Filter Plant Expansion
 Contra Costa County, CA



EXPLANATION
 1. TIME-DISTANCE GRAPHS AT TOP OF FIGURE REPRESENT SEISMIC REFRACTION SURVEY DATA; DOTS ON BOTTOM LINE OF GRAPHS REPRESENT GEOPHONE LOCATIONS, X'S REPRESENT SHOT POINT LOCATIONS.
 VERTICAL SCALE: 1" = 20 MILLISECONDS
 HORIZONTAL SCALE: 1" = 50 FEET
 2. SUBSURFACE VELOCITY PROFILES AT BOTTOM OF FIGURE REPRESENT INTERPRETATIONS OF SEISMIC REFRACTION DATA AND ARE INTENDED FOR DESIGN PURPOSES ONLY.
 VERTICAL AND HORIZONTAL SCALE: 1" = 50 FEET
 3. LOCATION OF SEISMIC LINES SHOWN ON FIGURE NO. (S) 2

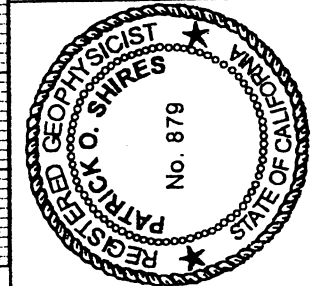
SEISMIC LINE NO. (S):
 S-7&S-8
 DATE: APRIL, 1998
 PROJECT NO.: 9802
 FIGURE NO.: **6**



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SEISMIC REFRACTION SURVEY
 DATA AND INTERPRETED SUBSURFACE VELOCITY PROFILES

EBMUD Walnut Creek Filter Plant Expansion
 Contra Costa County, CA



EXPLANATION

1. TIME-DISTANCE GRAPHS AT TOP OF FIGURE REPRESENT SEISMIC REFRACTION SURVEY DATA; DOTS ON BOTTOM LINE OF GRAPHS REPRESENT GEOPHONE LOCATIONS, X'S REPRESENT SHOT POINT LOCATIONS.
2. SUBSURFACE VELOCITY PROFILES AT BOTTOM OF FIGURE REPRESENT INTERPRETATIONS OF SEISMIC REFRACTION DATA AND ARE INTENDED FOR DESIGN PURPOSES ONLY.
3. LOCATION OF SEISMIC LINES SHOWN ON FIGURE NO. (S) 2.

VERTICAL SCALE: 1" = 20 MILLISECONDS
 HORIZONTAL SCALE: 1" = 50 FEET

SEISMIC LINE NO. (S):
 S-9&S-10

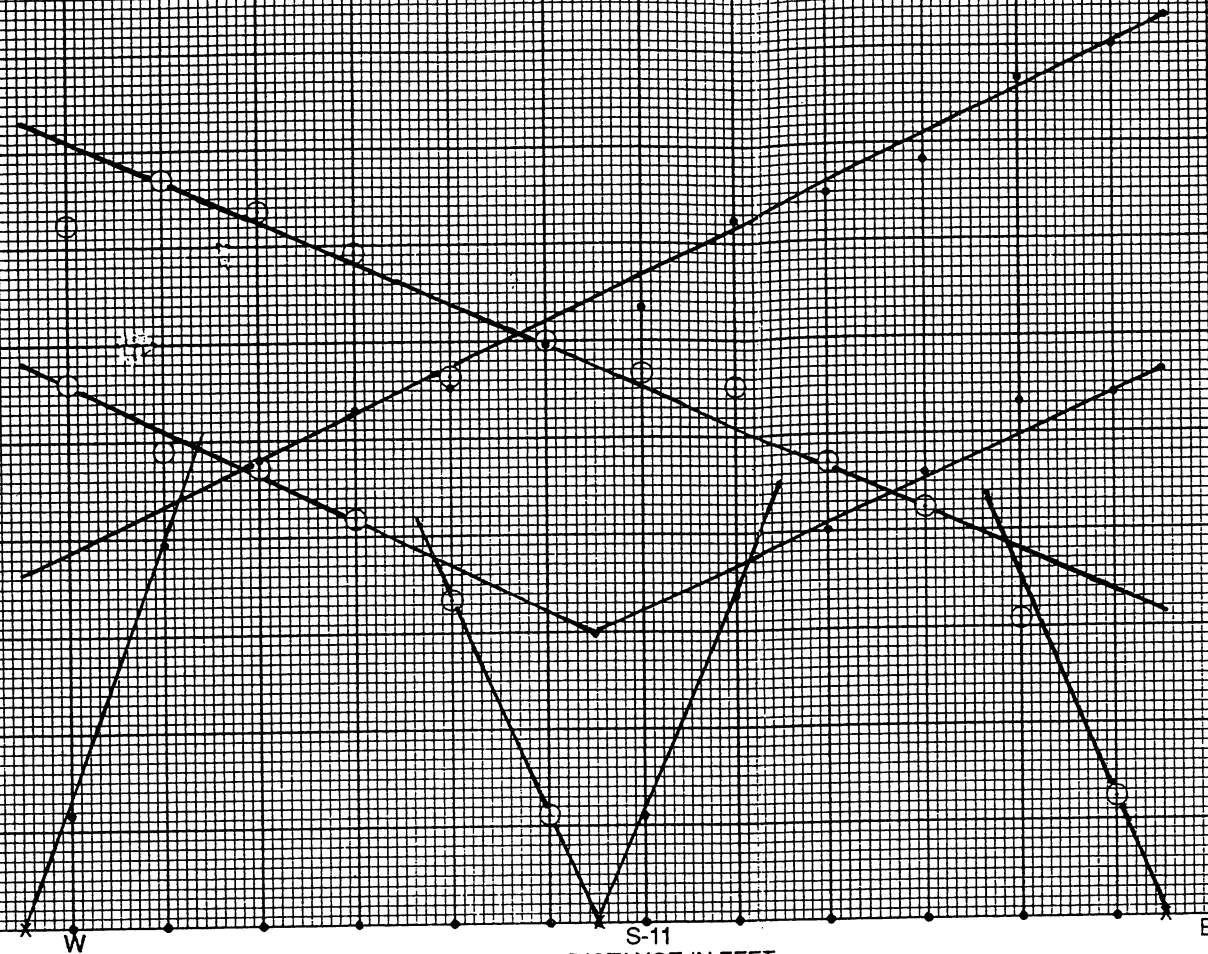
DATE: APRIL, 1998

PROJECT NO.: 9802

FIGURE NO.: 7

TIME IN MILLISECONDS

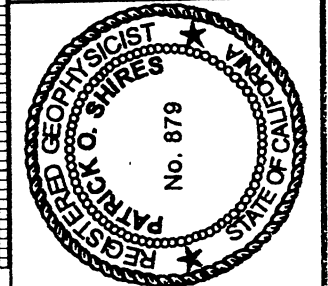
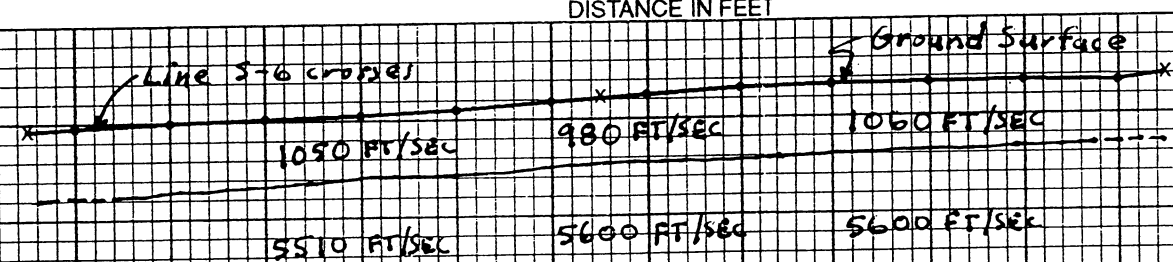
90
80
70
60
50
40
30
20
10
0



S-11
DISTANCE IN FEET

ELEVATION IN FEET

375
350
325
300
275
250
225
200
175
150



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SEISMIC REFRACTION SURVEY
DATA AND INTERPRETED SUBSURFACE VELOCITY PROFILES

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Contra Costa County, CA

EXPLANATION

1. TIME-DISTANCE GRAPHS AT TOP OF FIGURE REPRESENT SEISMIC REFRACTION SURVEY DATA; DOTS ON BOTTOM LINE OF GRAPHS REPRESENT GEOPHONE LOCATIONS, X'S REPRESENT SHOT POINT LOCATIONS.
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VERTICAL AND HORIZONTAL SCALE: 1" = 50 FEET
3. LOCATION OF SEISMIC LINES SHOWN ON FIGURE NO.(S) 2

SEISMIC LINE NO.(S):
S-11

DATE: APRIL, 1998

PROJECT NO.: 9802

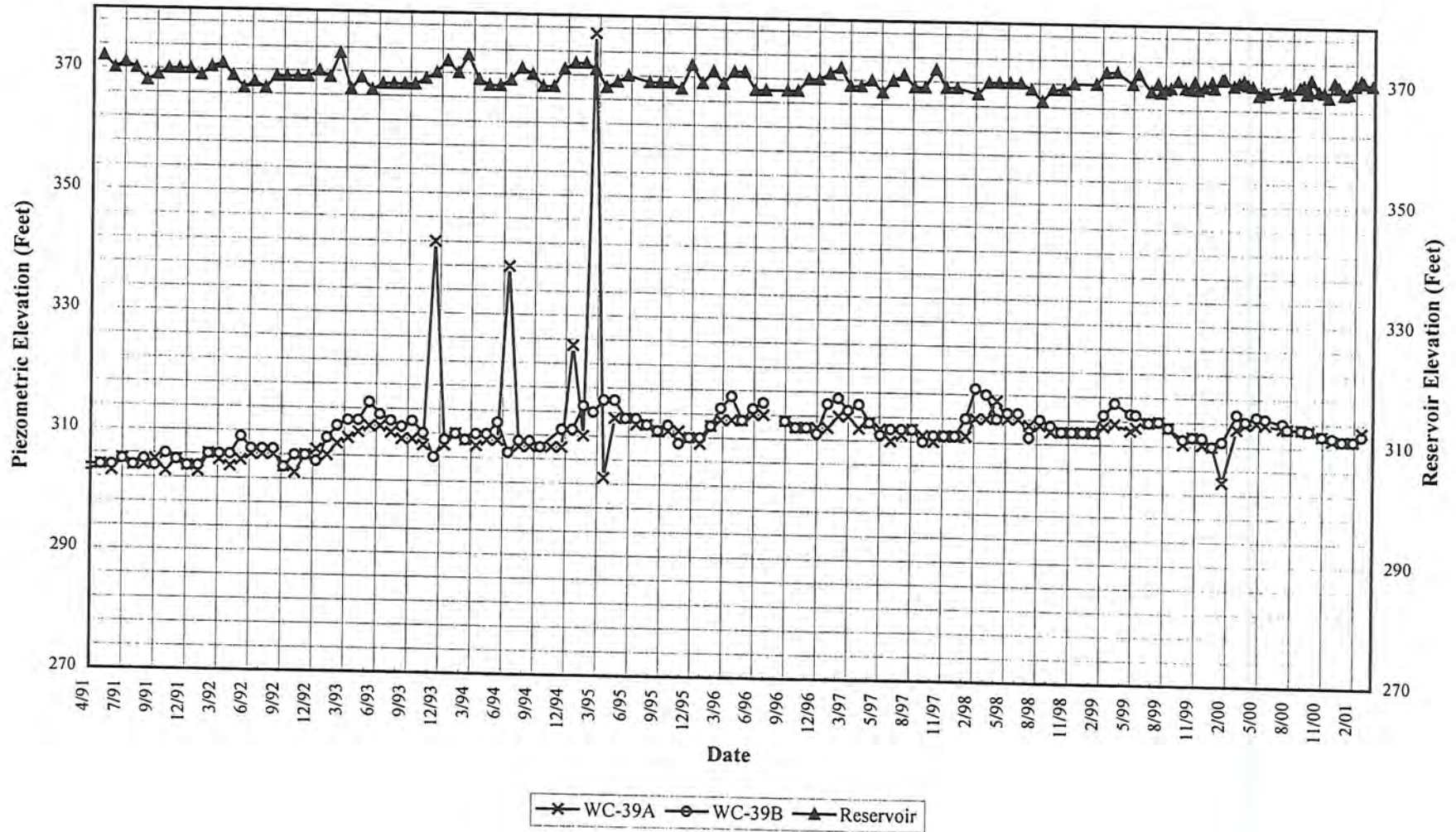
FIGURE NO.: 8



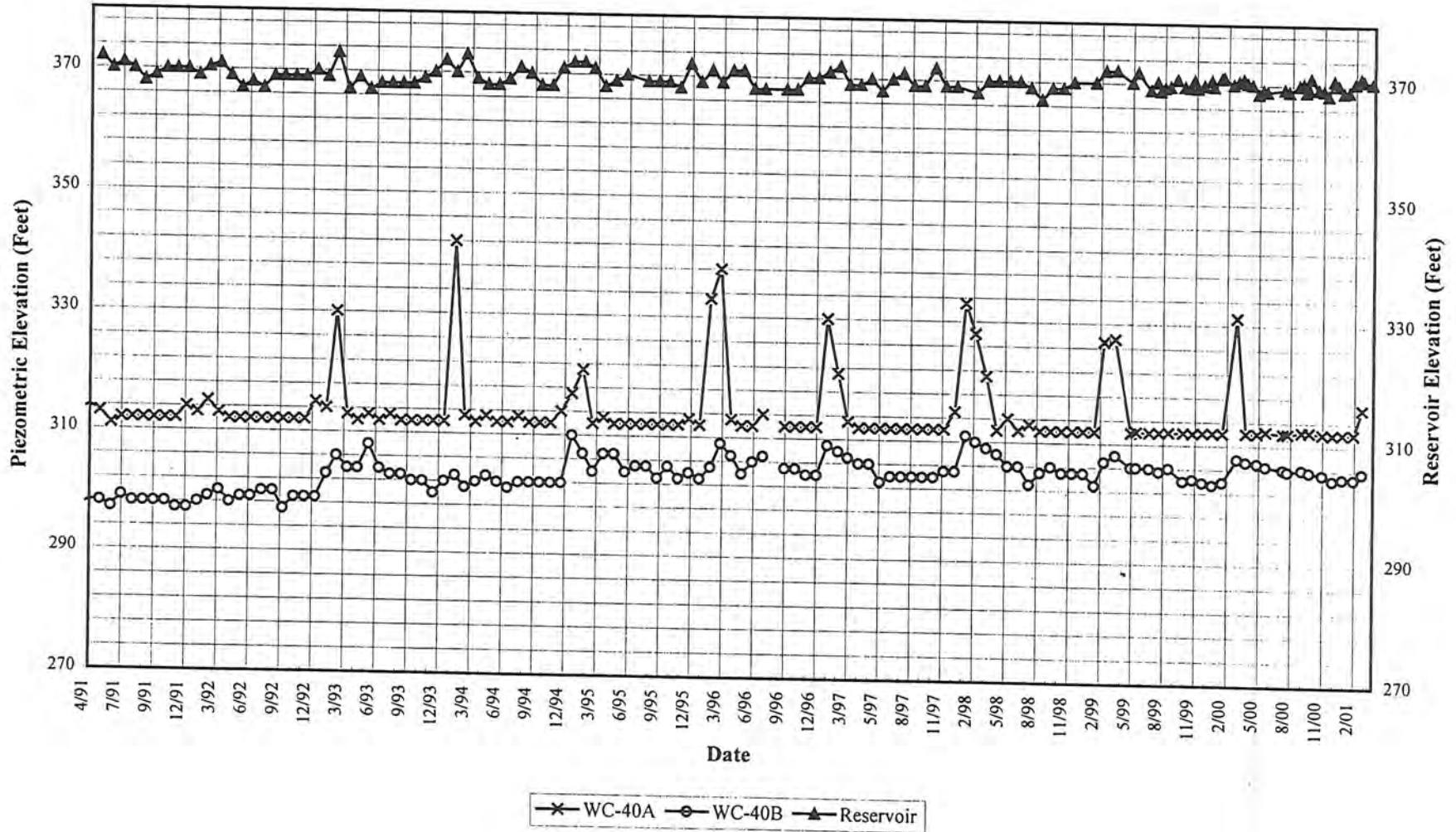
APPENDIX G

Clearwell Piezometer Monitoring Records

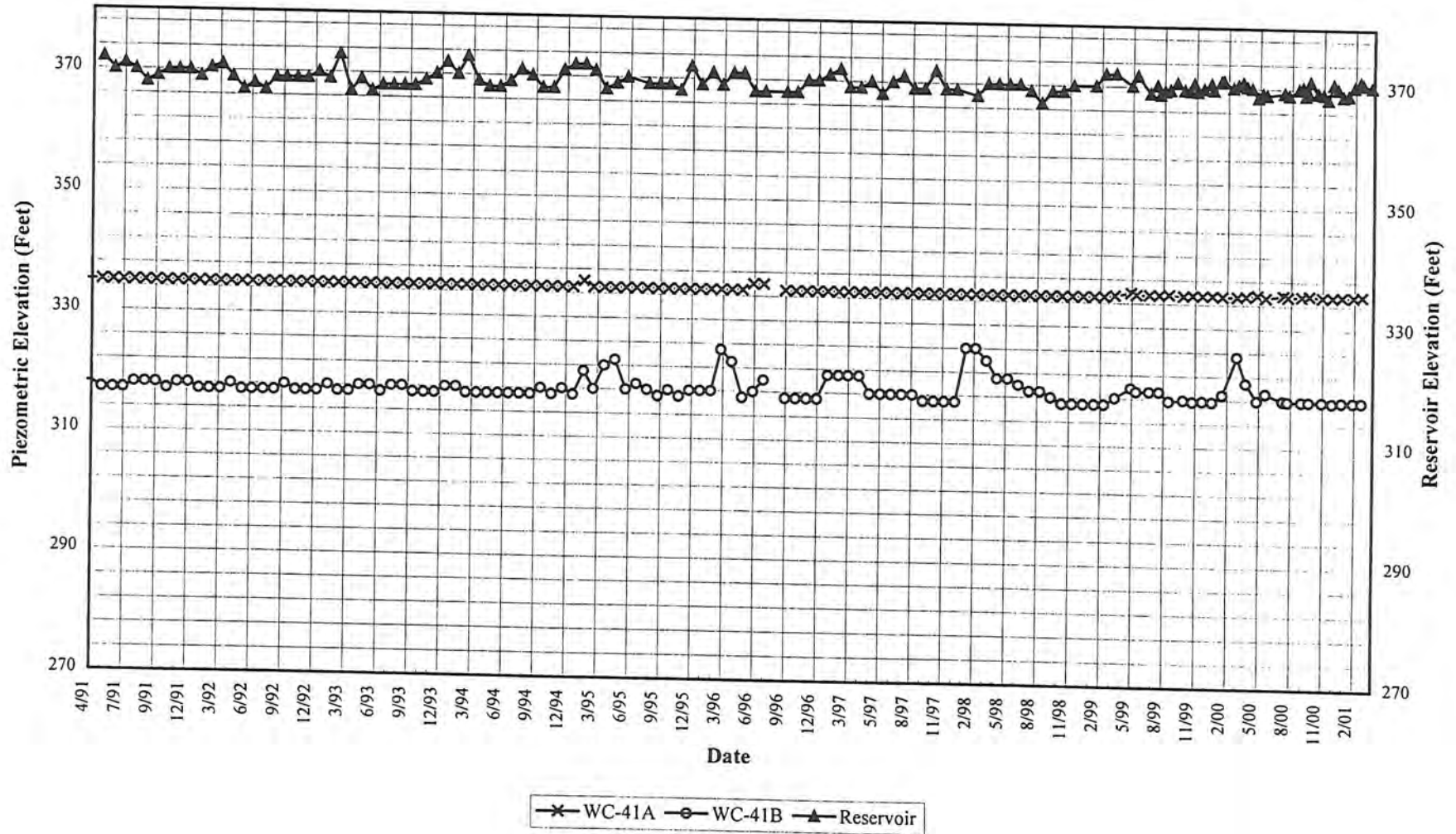
Walnut Creek Filter Plant Clearwell
Piezometer: WC-39
Instrument Number 311910010



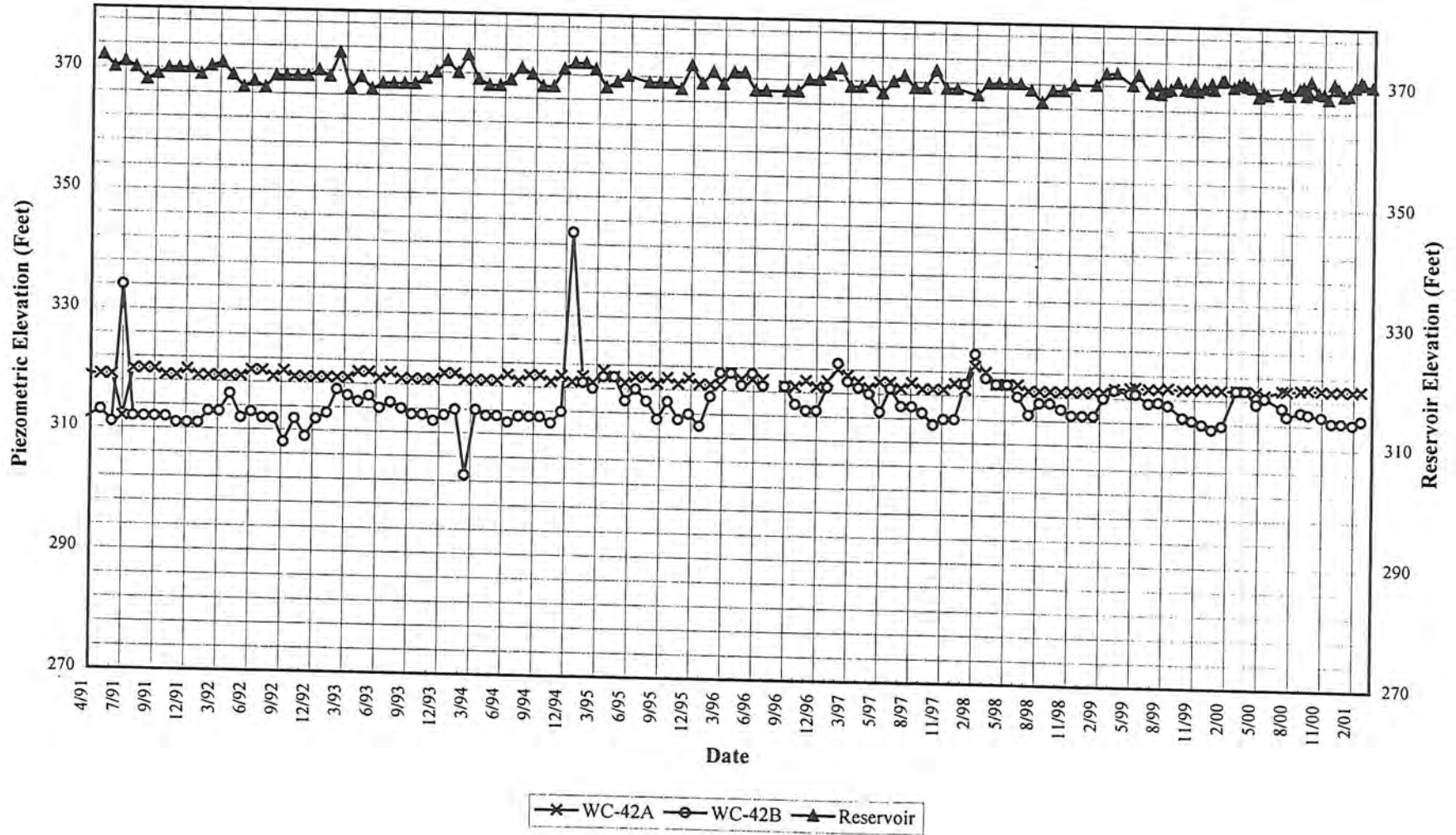
Walnut Creek Filter Plant Clearwell
Piezometer: WC-40
Instrument Number 311910020

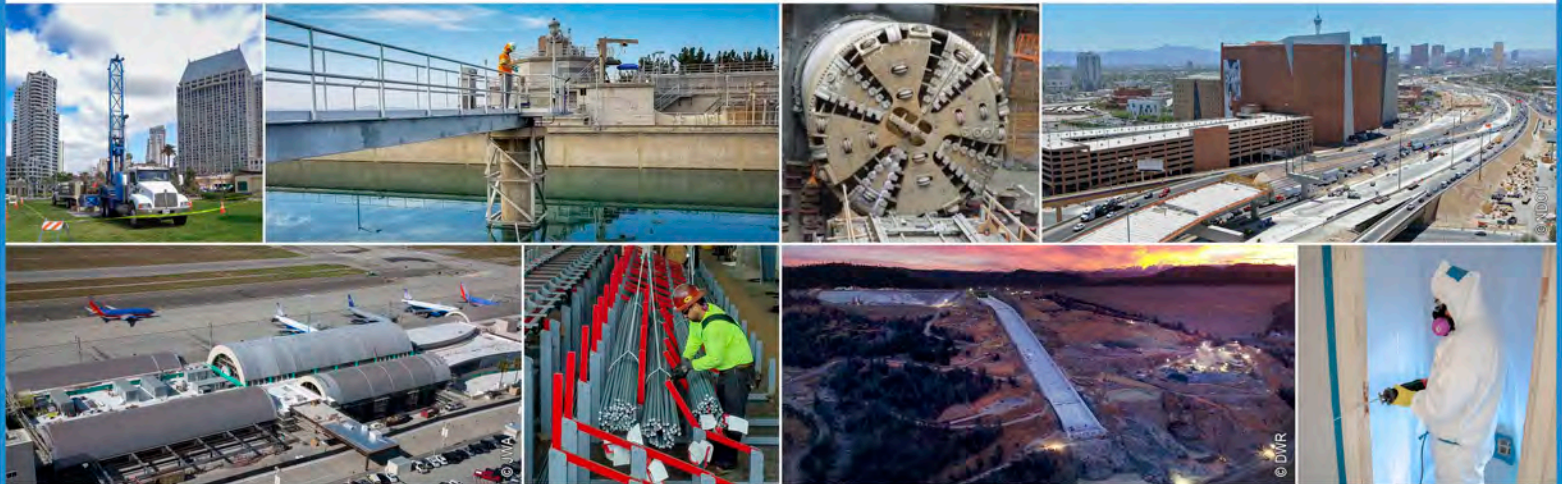


Walnut Creek Filter Plant Clearwell
Piezometer: WC-41
Instrument Number 311910030



Walnut Creek Filter Plant Clearwell
Piezometer: WC-42
Instrument Number 311910040





2020 Challenger Drive, Suite 103 | Alameda, California 94501 | p. 510.343.3000

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ninyoandmoore.com

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

Appendix I - Noise Analysis Additional Documentation

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Long-term Noise Surveys, Daily Results

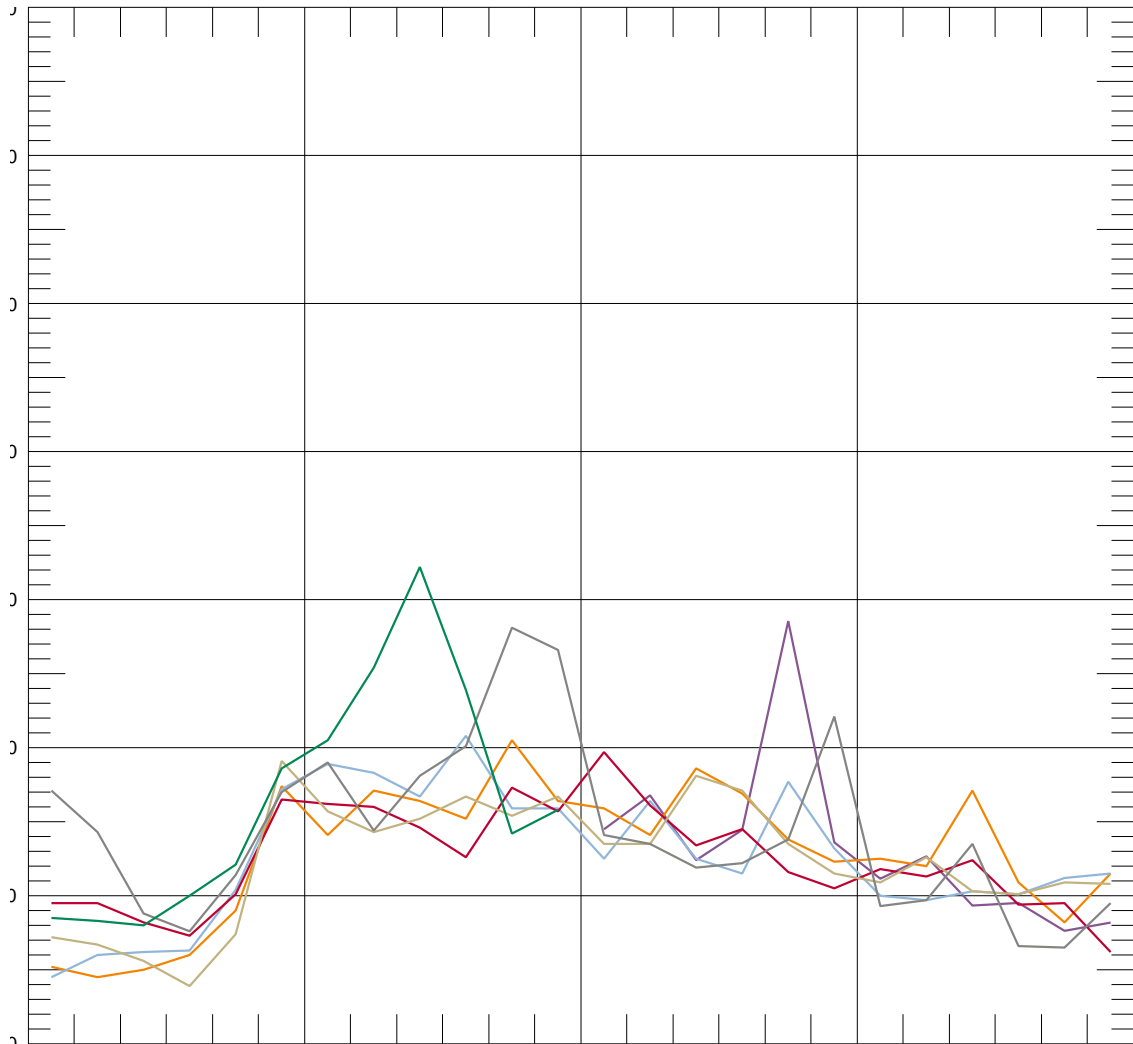


Figure I-1: Hourly equivalent noise levels and 24-hour descriptors measured at LT-1, WTP Property behind 1085 Alfred Avenue

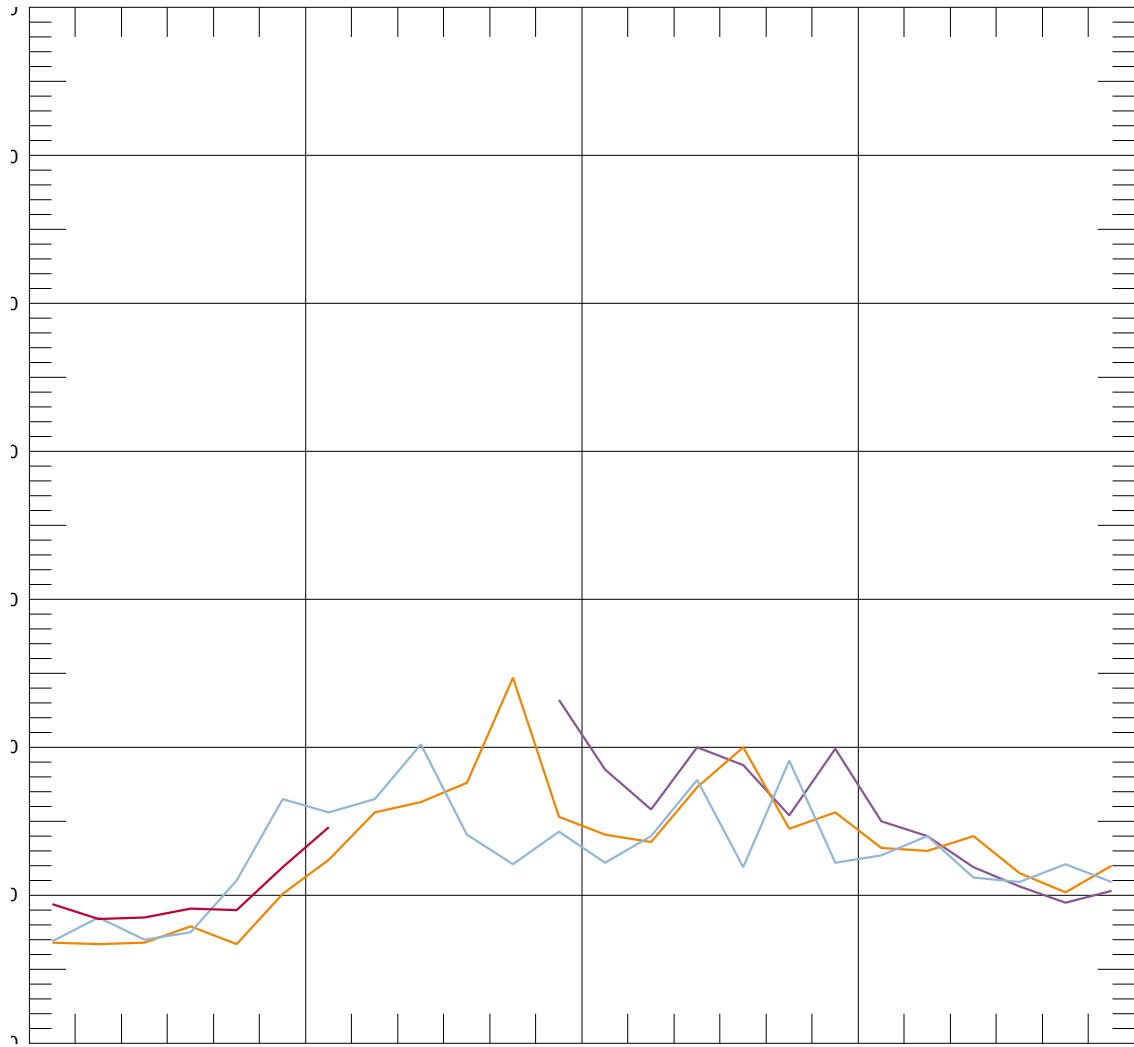


Figure I-2: Hourly equivalent noise levels and 24-hour descriptors measured at LT-2, Briones-to-Mt. Diablo Trail behind 1305 and 1309 Ramsay Circle

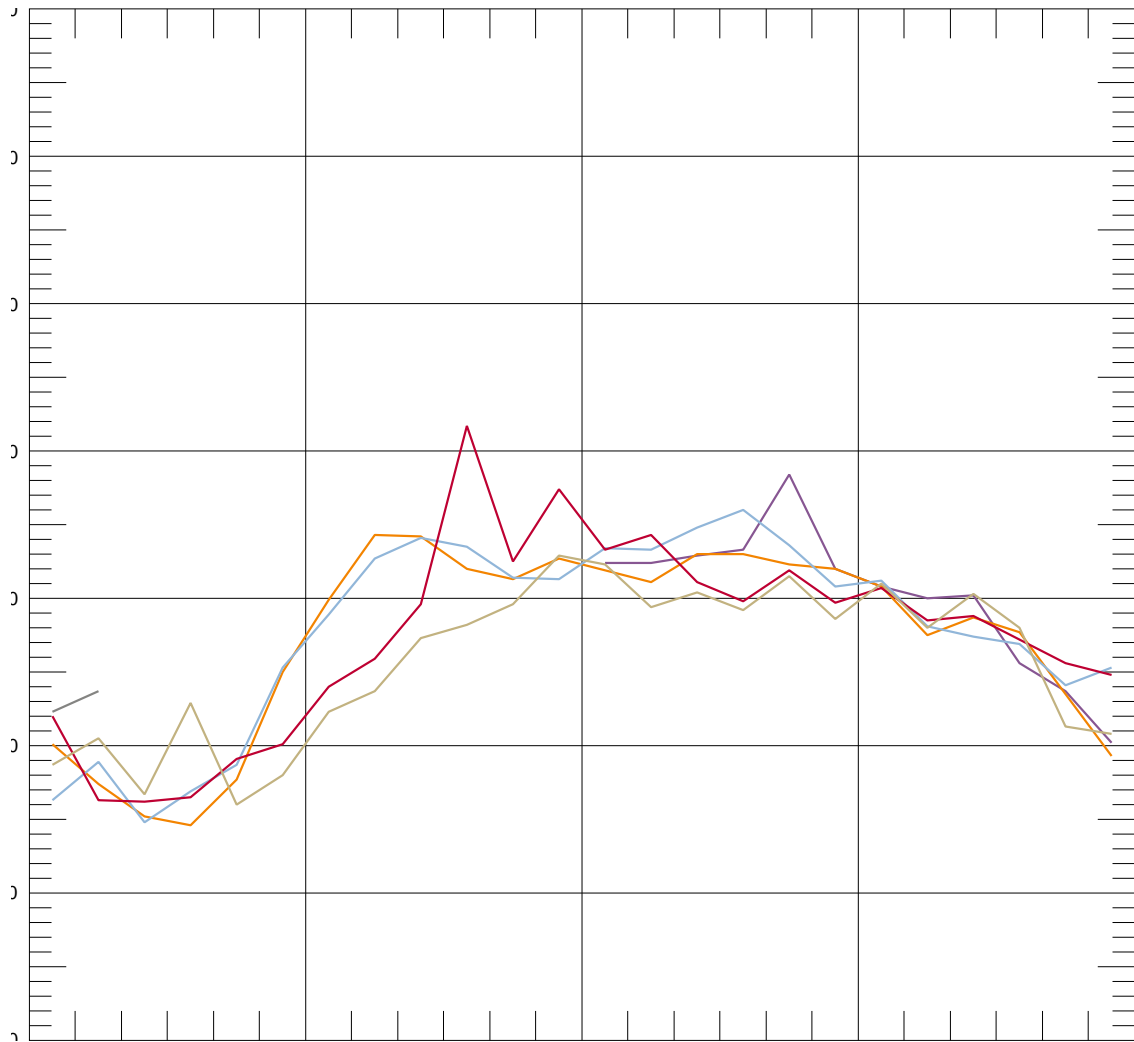


Figure I-3: Hourly equivalent noise levels and 24-hour descriptors measured at LT-3, San Luis Road & Buena Vista Avenue

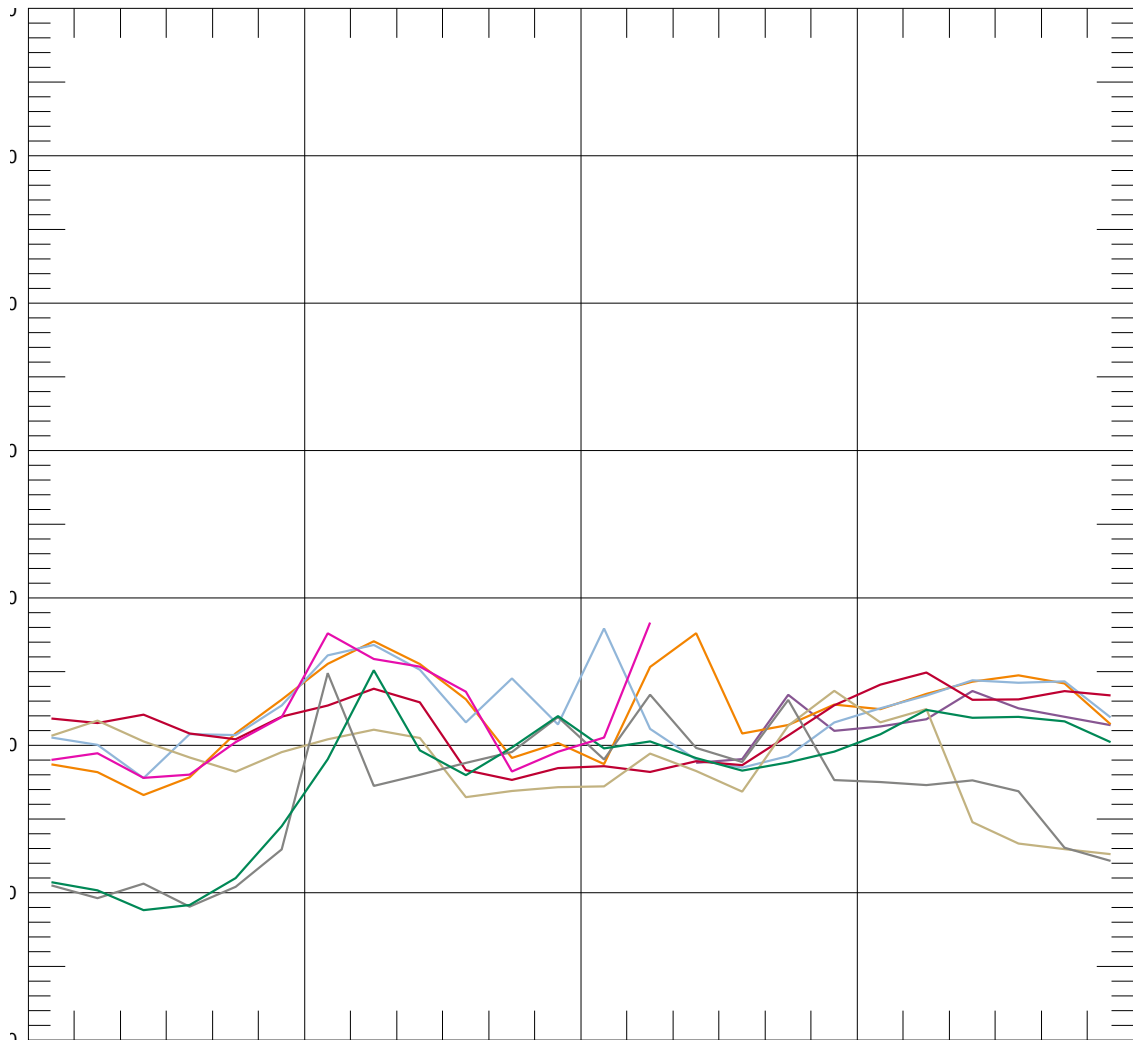


Figure I-4: Hourly equivalent noise levels and 24-hour descriptors measured at LT-4, LAF WTP Fenceline

TNM Traffic Validation

Table I-1 summarizes the 30-minute short-term noise measurements with traffic counts to validate the TNM 3.1 noise model for the Walnut Creek WTP site analysis conducted in 2022. The traffic speeds ranged from 10 to 15 mph, and flow control was modelled at the intersection.

Table I-1: TNM Validation Results

Measurement Location	Measurement Date	Measured Sound Level, Leq (dBA)	TNM modeled results Leq (dBA)	Difference (dBA)
San Luis and Buena Vista	October 27, 2022	64.2	66.2	2.0
San Luis 20 ft East of Buena Vista	October 27, 2022	64.5	64.7	0.2

SOURCE: Wilson Ihrig, 2023

Vehicle Counts 10-27-2022									
Incoming (all traffic heading into intersection)					Outgoing (traffic coming from straight and turns)				
San Luis W Eastbound					San Luis W Westbound				
	Autos	Medium Trucks	Heavy Vehicles	Motorcycles	Autos	Medium Trucks	Heavy Vehic	Motorcycles	
30 min	152	7	0	0	0	63	5	0	0
x2 for 1h	304	14	0	0	0	126	10		
San Luis E Westbound					San Luis E Eastbound				
	Autos	Medium Trucks	Heavy Vehicles	Motorcycles	Autos	Medium Trucks	Heavy Vehic	Motorcycles	
30 min	67	7	0	0	0	150	9	0	0
x2 for 1h	134	14	0	0	0	300	18	0	0
Buena Vista S Northbound					Buena Vista S Southbound				
	Autos	Medium Trucks	Heavy Vehicles	Motorcycles	Autos	Medium Trucks	Heavy Vehic	Motorcycles	
30 min	60	2	0	0	0	155	1	0	0
x2 for 1h	120	4	0	0	0	310	2	0	0
Buena Vista N Southbound					Buena Vista N Northbound				
	Autos	Medium Trucks	Heavy Vehicles	Motorcycles	Autos	Medium Trucks	Heavy Vehic	Motorcycles	
30 min	151	3	0	0	0	62	4	0	0
x2 for 1h	302	6	0	0	0	124	8	0	0

Noise Measurement Location Photographs



Figure I-5: LT-1 at Water Treatment Plant Property bordering 1085 Alfred Avenue, facing northeast



Figure I-6: LT-2 at the Briones to Mt. Diablo Trail, behind 1305 and 1309 Ramsay Circle, facing southeast

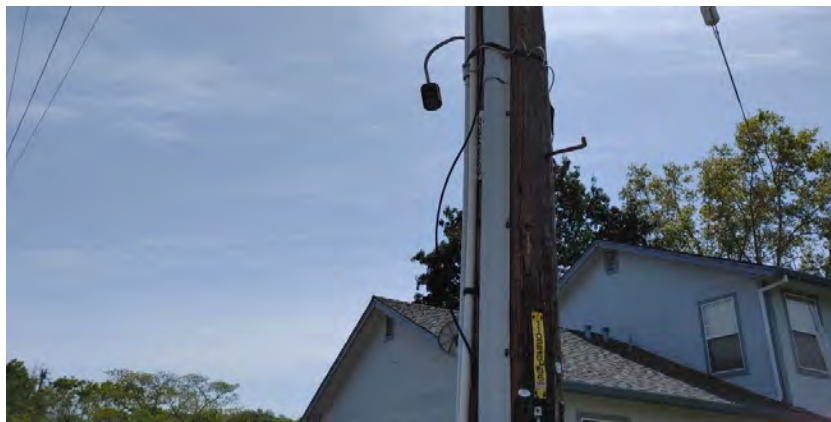


Figure I-7: LT-3 at San Luis Road and Buena Vista Avenue, facing southeast



Figure I-8: *LT-4 at Lafayette Water Treatment Plant, facing northeast*



Figure I-9: *Walnut Creek Water Treatment Plant Entrance ST, facing east (noise meter not pictured)*



Figure I-10: St. Stephen Catholic Church ST, facing southeast (noise meter not pictured)



Figure I-11: Buena Vista Ave and San Luis Rd ST, facing northwest



Figure I-12: Larkey Reservoir, facing north (noise meter not pictured)



Figure I-13: 1334 Summit Rd ST, facing north (noise meter not pictured)



Figure I-14: Contra Costa Jewish Day School ST, facing Lafayette WTP to the southwest



Figure I-15: Lafayette Reservoir near 3798 Mosswood Drive ST, facing Mt. Diablo Boulevard to the north

Construction Activity Scenarios, Full List of Stages

All Stages (Building number shown in parentheses)

- Scenario 1.A – Phase 1 – 1 month
 - Phase 1 Site Prep/Stockpile (N/A)
 - Yard Piping and Electrical Duct Banks (N/A)
- Scenario 1.B – Phase 1 – 5 months
 - Yard Piping and Electrical Duct Banks (N/A)
 - Electrical Facilities (14)

- Maintenance Building (15)
- Dewatering Building (9)
- Truck Loading Canopy (9A)
- Thickened Solids Blending Tanks (10)
- Gravity Thickeners (11-N)
- Ozone Generator Building (4)
- Lox Tanks and Vaporizer (5)
- Pre-Ozone Pumping Plant (6-N)
- Combined Reclaim Metering Vault (7)
- Ozone Gas Destruct (8-W)
- Hydrogen Peroxide Station (18-W)
- Thickened Solids PP (12-N)
- Scenario 1.C – Phase 1 – 1 month
 - Yard Piping and Electrical Duct Banks (N/A)
 - Electrical Facilities (14)
 - Maintenance Building (15)
 - Dewatering Building (9)
 - Truck Loading Canopy (9A)
 - Thickened Solids Blending Tanks (10)
 - Gravity Thickeners (11-N)
 - Ozone Generator Building (4)
 - Lox Tanks and Vaporizer (5)
 - Pre-Ozone Pumping Plant (6-N)
 - Demolition (N/A)
 - Combined Reclaim Metering Vault (7)
 - Ballasted Flocculation (1-SE)
 - Intermediate Ozone PP (2-SE)
 - Intermediate Ozone Contactors (3-SE)
 - Ozone Gas Destruct (8-E)
 - Hydrogen Peroxide Station (18-W)
 - Thickened Solids PP (12-N)
 - Hydrogen Peroxide Station (18-E)
- Scenario 1.D.1 – Phase 1 – 4 months
 - Electrical Facilities (14)
 - Maintenance Building (15)
 - Dewatering Building (9)
 - Truck Loading Canopy (9A)
 - Thickened Solids Blending Tanks (10)
 - Gravity Thickeners (11-N)
 - Ozone Generator Building (4)
 - Lox Tanks and Vaporizer (5)
 - Pre-Ozone Pumping Plant (6-N)
 - Demolition (N/A)
 - Combined Reclaim Metering Vault (7)
 - Ballasted Flocculation (1-SE)
 - Intermediate Ozone PP (2-SE)

- Intermediate Ozone Contactors (3-SE)
- Chemical Storage (17)
- Solids Xfer PP (13)
- Ozone Gas Destruct (8-W)
- Hydrogen Peroxide Station (18-W)
- Thickened Solids PP (12-N)
- Hydrogen Peroxide Station (18-E)
- Scenario 1.D2 – Phase 1 – 3 months
 - Electrical Facilities (14)
 - Maintenance Building (15)
 - Dewatering Building (9)
 - Truck Loading Canopy (9A)
 - Thickened Solids Blending Tanks (10)
 - Ozone Generator Building (4)
 - Lox Tanks and Vaporizer (5)
 - Pre-Ozone Pumping Plant (6-N)
 - Combined Reclaim Metering Vault (7)
 - Ballasted Flocculation (1-SE)
 - Intermediate Ozone PP (2-SE)
 - Intermediate Ozone Contactors (3-SE)
 - Chemical Storage (17)
 - Solids Xfer PP (13)
 - Ozone Gas Destruct (8-W)
 - Hydrogen Peroxide Station (18-W)
 - Ozone Gas Destruct (8-N)
 - Ozone Quenching Vault (16-N)
 - Hydrogen Peroxide Station (18-E)
- Scenario 2.A – Phase 2 – 2 months
 - Phase 2 Yard Piping and Electrical (N/A)
 - Ballasted Flocculation (1-SE)
 - Intermediate Ozone Contactors (3-SE)
 - Ozone Gas destruct (8-E)
 - Gravity Thickeners (11-S)
 - Pre-Ozone Pumping Plant (6-S)
- Scenario 2.B – Phase 2 – 3 months
 - Ballasted Flocculation (1-SE)
 - Intermediate Ozone Contactors (3-SE)
 - Ozone Gas Destruct (8-E)
 - Gravity Thickeners (11-S)
 - Ozone Gas Destruct (8-SE)
 - Ozone Quenching Vault (16-S)
 - Offhaul excavation, grading/paving, cleanup, landscaping (N/A)

Equipment List Used for Each Scenario

Each work area was modeled as a surface so that the noise origination was spread over the surface instead of single point sources.

Walnut Creek WTP

	Back-hoe	Bob-cat	Com-pactor	Com-pressor	Con-crete	Crane	Dozer	Dump Truck	Exca-vator	Fork-lift	Form Builder	Loader	Roof-top	Weld-ing
Scenario A	3	1			1			1						
Ph1-St01: Phase 1 Site Prep / Stockpile	2													
Ph1-St02: Yard Piping and Electrical Duct Bank	1	1			1			1						
Scenario B	9	8	5	7	34	7	4	8.5	5	9	30.5	3	18	16
Ph1-St03: Electrical Facilities (14)	1	1	1	1	4	1		1.5		1	2	1		3
Ph1-St04: Maintenance Building (15)	1			1	4	1				2	4		6	3
Ph1-St05: Dewatering Building(9), Truck Loading Canopy(9A), Thickened Solids Blending Tanks(10), Gravity Thickener(11-N)	1	1		1	4	1				2	5		6	1
Ph1-St06: Ozone Generator Building (4)	1	1			3		1	1	1		5			
Ph1-St07: Lox Tanks and Vaporizers (5)		1			3		1	1	1		5			
Ph1-St08: Pre-Ozone Pumping Plant (6-N)	3	1	1	1	4		1	1.5	1	1	3	1		
Ph1-St10: Combined Reclaim Metering Vault (7)		1	1	1	4	2		1	1	1	0			3
Ph1-St16: Ozone Gas Destruct(8-W), Hydrogen Peroxide Station(18-W)	1	1	1	1	4	1	1	1.5	1	1	5	1		3
Ph1-St18: Thickened Solids PP (12-N)	1	1	1	1	4	1		1		1	1.5		6	3
Scenario C	10	10	8	11	40	12	2	15	6	13	38	8	18	26
Ph1-St02: Yard Piping and Electrical Duct Bank								1	1	1				
Ph1-St03: Ballasted Flocculation (1-SE)	1	1	1	1	4	1		1.5		1	5	1		3
Ph1-St04: Maintenance Building (15)	1			1	4	1				2	4		6	3
Ph1-St05: Dewatering Building(9), Truck Loading Canopy(9A), Thickened Solids Blending Tanks(10), Gravity Thickener(11-N)		1	1	1	4	1	1	1		1	4	1		2
Ph1-St06: Ozone Generator Building (4)	1	1	1	1	4	1		1.5	1	1	4	1	6	3
Ph1-St07: Lox Tanks and Vaporizers (5)	1	1	1	1	4	1		1.5		1	5	1		3
Ph1-St08: Pre-Ozone Pumping Plant (6-N)	1	1		1	4	1				1	5		6	3
Ph1-St09: Demolition	1	1		1				1.5	1			1		
Ph1-St10: Combined Reclaim Metering Vault (7)		1	1	1	4	2		1	1	1	0			3

	Back-hoe	Bob-cat	Com-pactor	Com-pressor	Con-crete	Crane	Dozer	Dump Truck	Exca-vator	Fork-lift	Form Builder	Loader	Roof-top	Weld-ing
Ph1-St11: Ballasted Flocculation (1-NW)	1					2		1.5	1	1		1		
Ph1-St16: Ozone Gas Destruct(8-W), Hydrogen Peroxide Station(18-W)	1	1	1	1	4	1	1	1.5	1	1	5	1		3
Ph1-St18: Thickened Solids PP (12-N)	1	1	1	1	4			1.5		1	3			
Ph1-St19: Hydrogen Peroxide Station(18-E)	1	1	1	1	4	1		1.5		1	3	1		3
Scenario D	9	14	11	14	59	10	4	16	7	15	68	8	18	20
Ph1-St03: Ballasted Flocculation (1-SE)	1	1	1	1	4	1		1.5		1	5	1		3
Ph1-St04: Maintenance Building (15)	1			1	4	1				2	4		6	3
Ph1-St05: Dewatering Building(9), Truck Loading Canopy(9A), Thickened Solids Blending Tanks(10), Gravity Thickener(11-N)		1	1	1	4	1	1	1		1	4	1		2
Ph1-St06: Ozone Generator Building (4)	1	1	1	1	4	1		1.5	1	1	4	1	6	3
Ph1-St07: Lox Tanks and Vaporizers (5)	1	1	1	1	4	1		1.5		1	5	1		3
Ph1-St08: Pre-Ozone Pumping Plant (6-N)	1	1		1	4	1				1	5		6	3
Ph1-St10: Combined Reclaim Metering Vault (7)		1		1	4					1	5			
Ph1-St11: Ballasted Flocculation (1-NW)		1	1	1	4	1		1	1	1	6			
Ph1-St13: Intermediate Ozone Contactors (3-NW)		1	1	1	4	1		1.5	1	1	6	1		
Ph1-St14: Chemical Storage (17)	1	1	1	1	4			1		1	3	1		
Ph1-St15: Solids Xfer PP (13)	1	1	1	1	4			1	1	1	3			
Ph1-St16: Ozone Gas Destruct(8-W), Hydrogen Peroxide Station(18-W)	1	1	1	1	4	1	1	1.5	1	1	5	1		
Ph1-St17: Ozone Gas Destruct(8-N), Ozone Quenching Vault(16-N)		1	1	1	4	1	1	1.5	1	1	5	1		3
Ph1-St18: Thickened Solids PP (12-N)	1	1	1	1	4			1.5		1	3			
Ph1-St19: Hydrogen Peroxide Station(18-E)		1			4		1	1.5	1		5			
Scenario F	3	6	4	4	16	4	3	8.5	5	5	15	4		
Ph2-St02: Phase 2 Yard Piping and Electrical	1	1			1			1	1	1				
Ph2-St03: Ballasted Flocculation (1-SE)	1	1	1	1		2		1.5	1	1	1	1		
Ph2-St05: Intermediate Ozone Contactors(3-SE), Ozone Gas Destruct (8-E)		1	1	1	4	2		1.5	1	1	1	1		
Ph2-St06: Gravity Thickeners (11-S)		1	1	1	4		1	1.5	1	1	3	1		
Ph2-St07: Pre-Ozone Pumping Plant (6-S)	1	1	1	1	4		1	1.5	1	1	5	1		

	Back-hoe	Bob-cat	Com-pactor	Com-pressor	Con-crete	Crane	Dozer	Dump Truck	Exca-vator	Fork-lift	Form Builder	Loader	Roof-top	Weld-ing
Ph2-St08: Ozone Gas Destruct(8-SE), Ozone Quenching Vault(16-S)		1			4		1	1.5	0		5			
Scenario G	2	6	1	5	23	4		3		5	24	2		11
Ph2-St03: Ballasted Flocculation (1-SE)		1		1	4	1				1	5			3
Ph2-St05: Intermediate Ozone Contactors(3-SE), Ozone Gas Destruct (8-E)		1		1	4	1				1	6			3
Ph2-St06: Gravity Thickeners (11-S)		1		1	4	1				1	4			2
Ph2-St08: Ozone Gas Destruct(8-SE), Ozone Quenching Vault(16-S)		1		1	4	1				1	6			3
Ph2-St09: Thickened Solids PP (12-S)	1	1	1	1	4			5		1	3	1		
Ph2-St10:Q Offhaul excavation, grading/paving	1	1			4			5				1		

Lafayette WTP

	Back-hoe	Bob-cat	Com-pactor	Com-pressor	Con-crete	Crane	Dozer	Dump Truck	Exca-vator	Fork-lift	Form Builder	Loader	Roof-top	Weld-ing
Weir #1 Demolition		1	1	1	4	2		5	1	1	1		1	1
Weir #1 Re-Construction		1	1	1	4	2		5	1	1	1		1	1
Weir #2 Raise		1	1	1	4	2		5	1	1	1		1	1

Noise Map Outputs from CadnaA Walnut Creek WTP

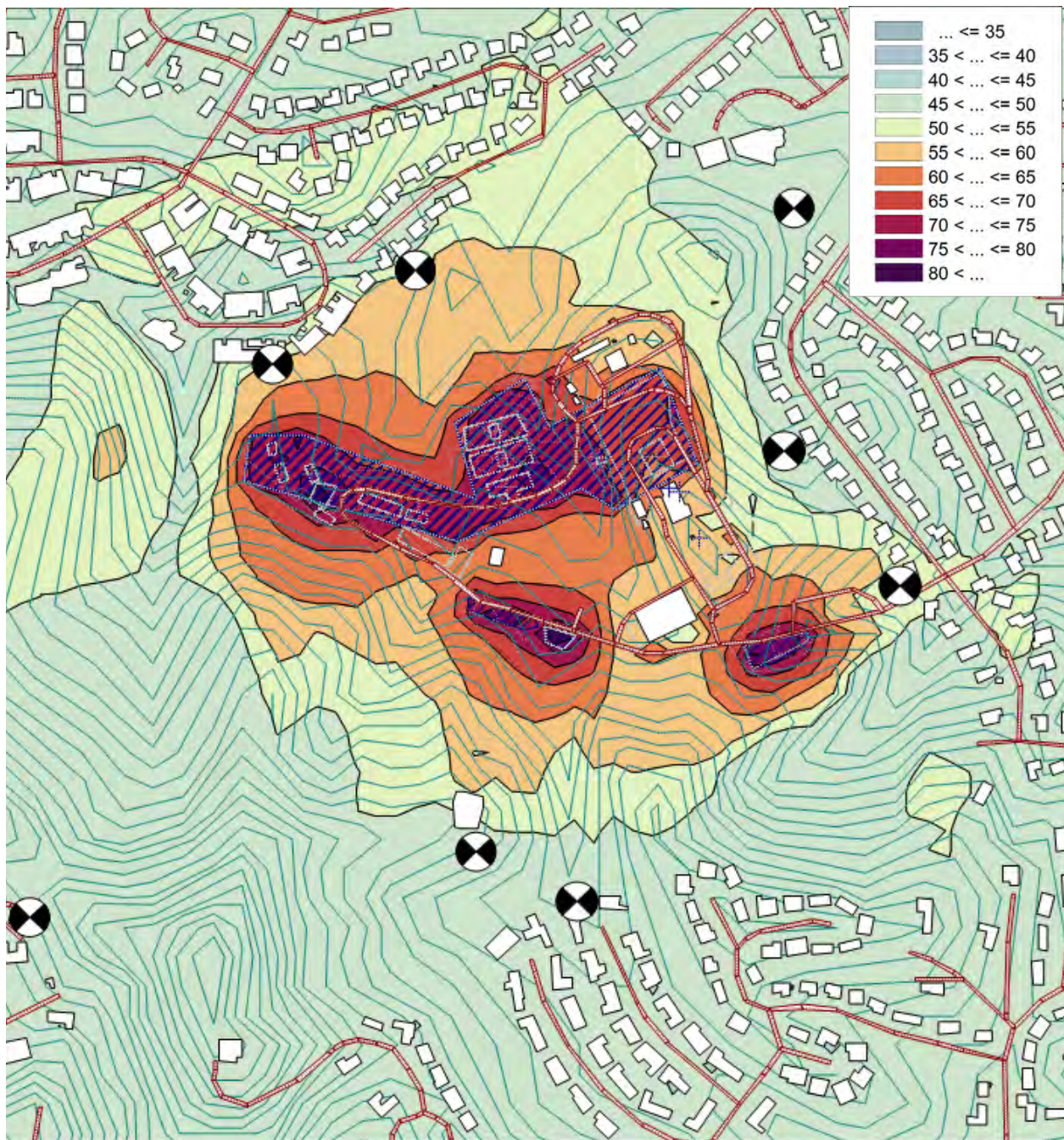


Figure I-16: Scenario Construction 1.A Existing + Project Noise – Hourly Leq

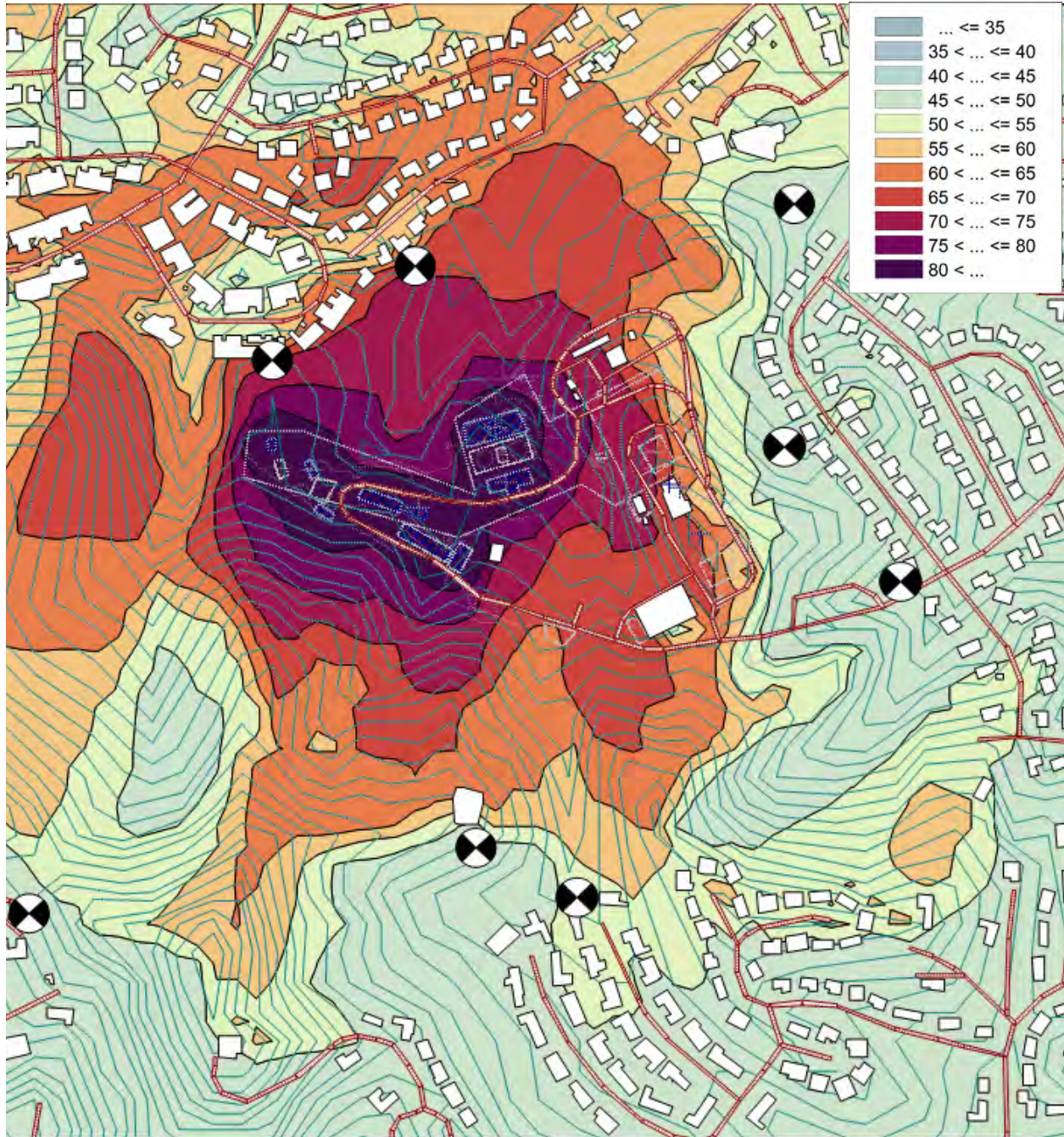


Figure I-17: Scenario Construction 1.B Existing + Project Noise – Hourly Leq

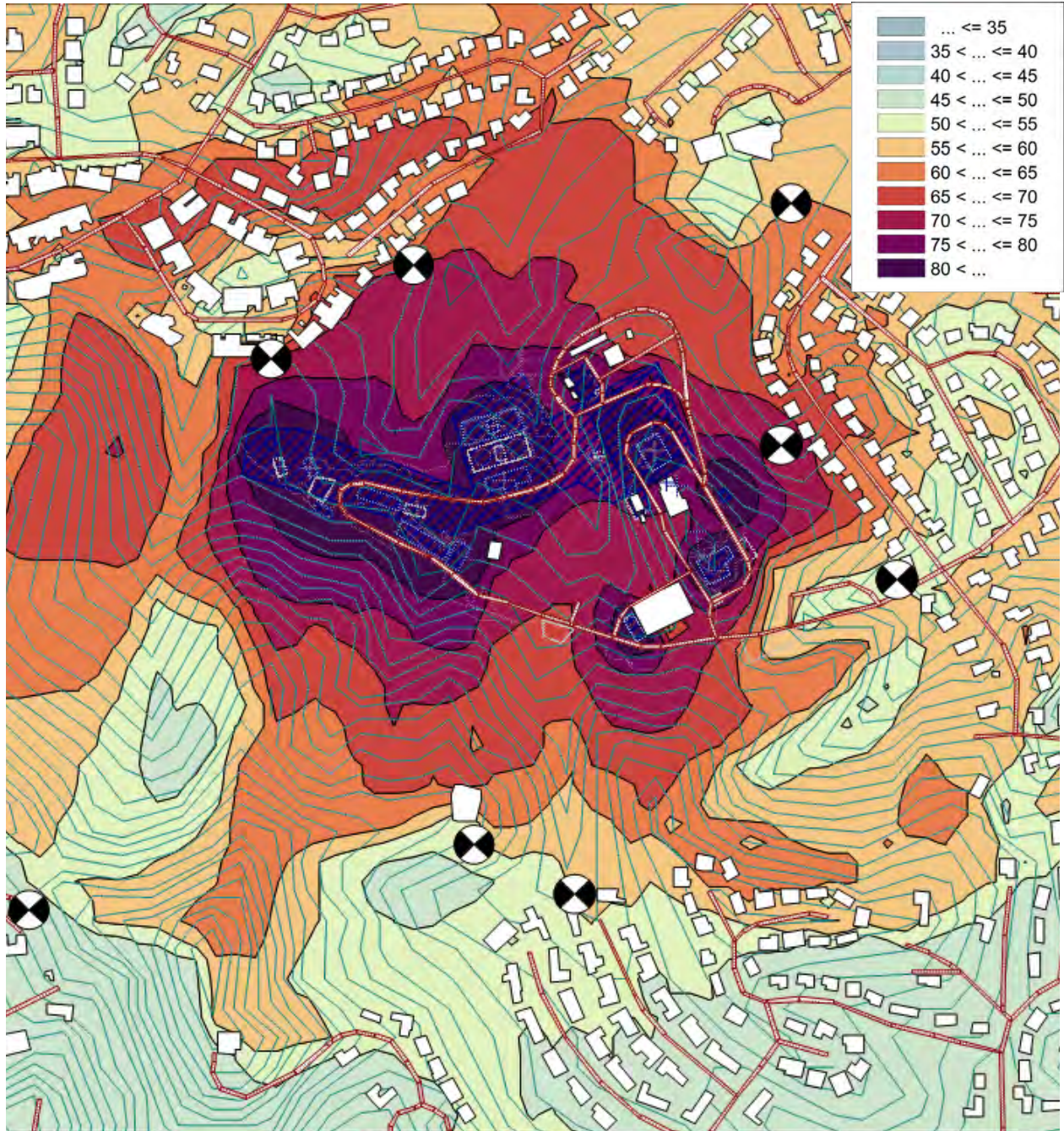


Figure I-18: Scenario Construction1.C Existing + Project Noise - Hourly Leq

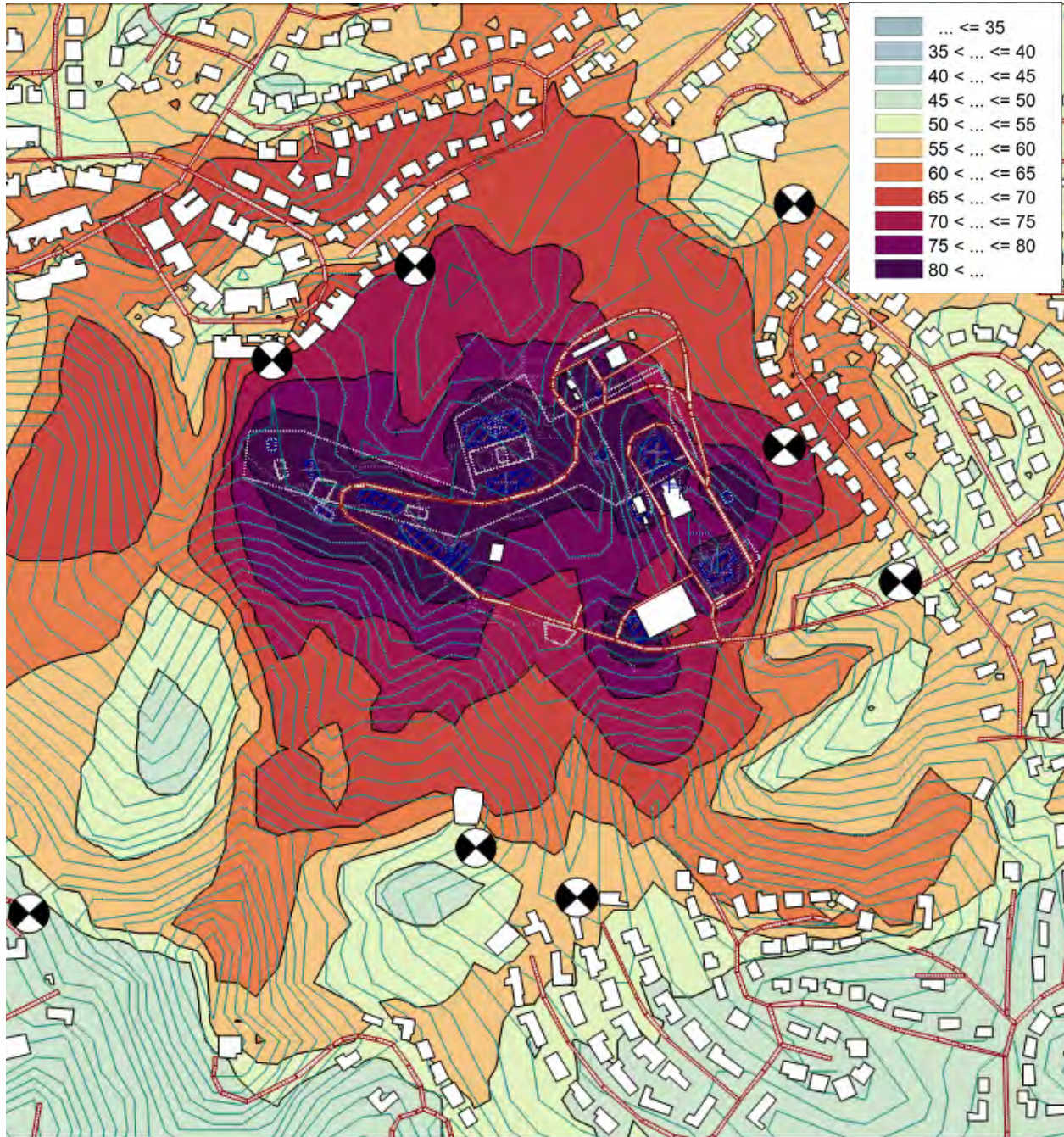


Figure I-19: Scenario Construction 1.D Existing + Project Noise – Hourly Leq

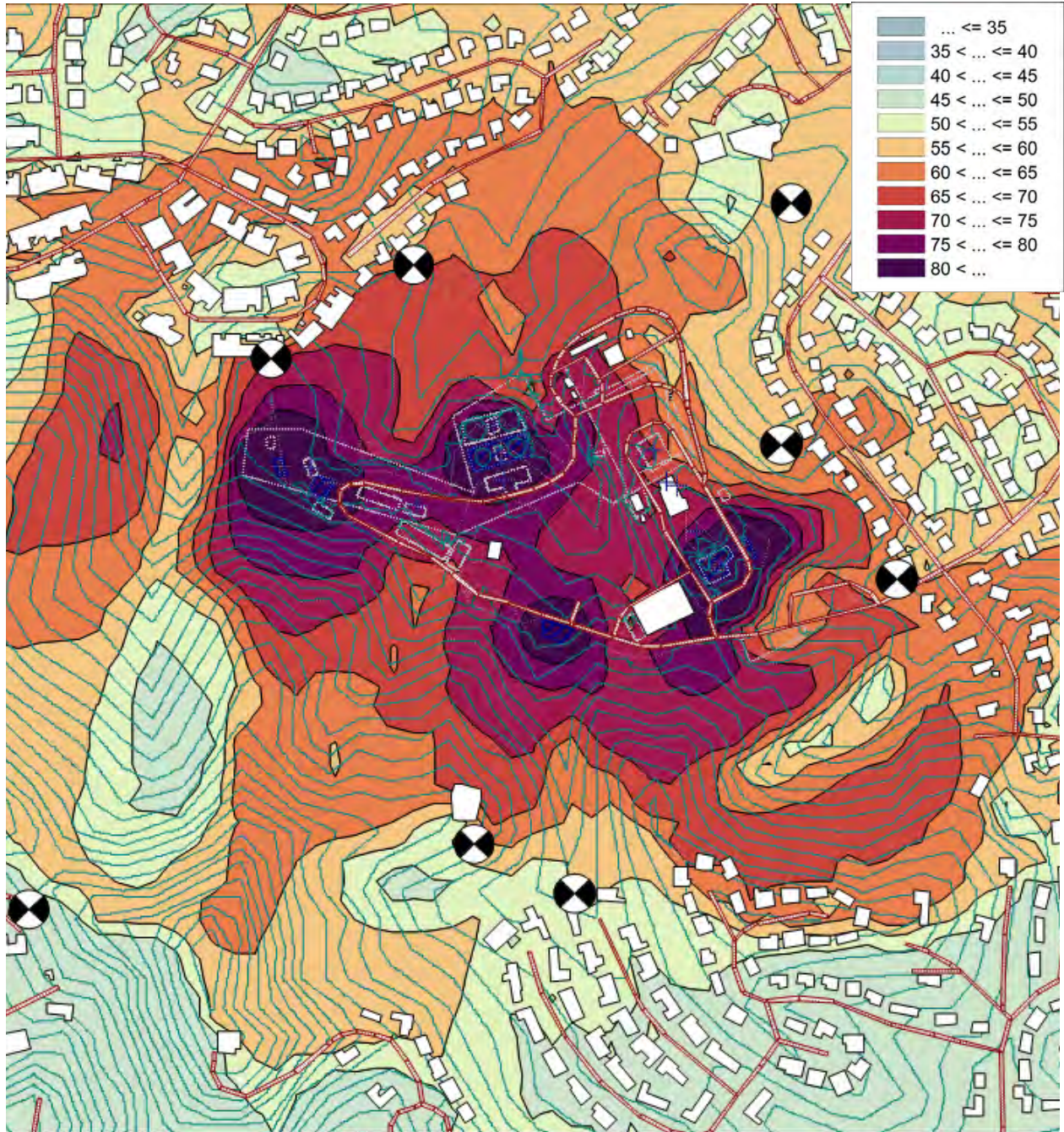


Figure I-20: Scenario Construction 2. A Existing Noise + Project Noise – Hourly Leq

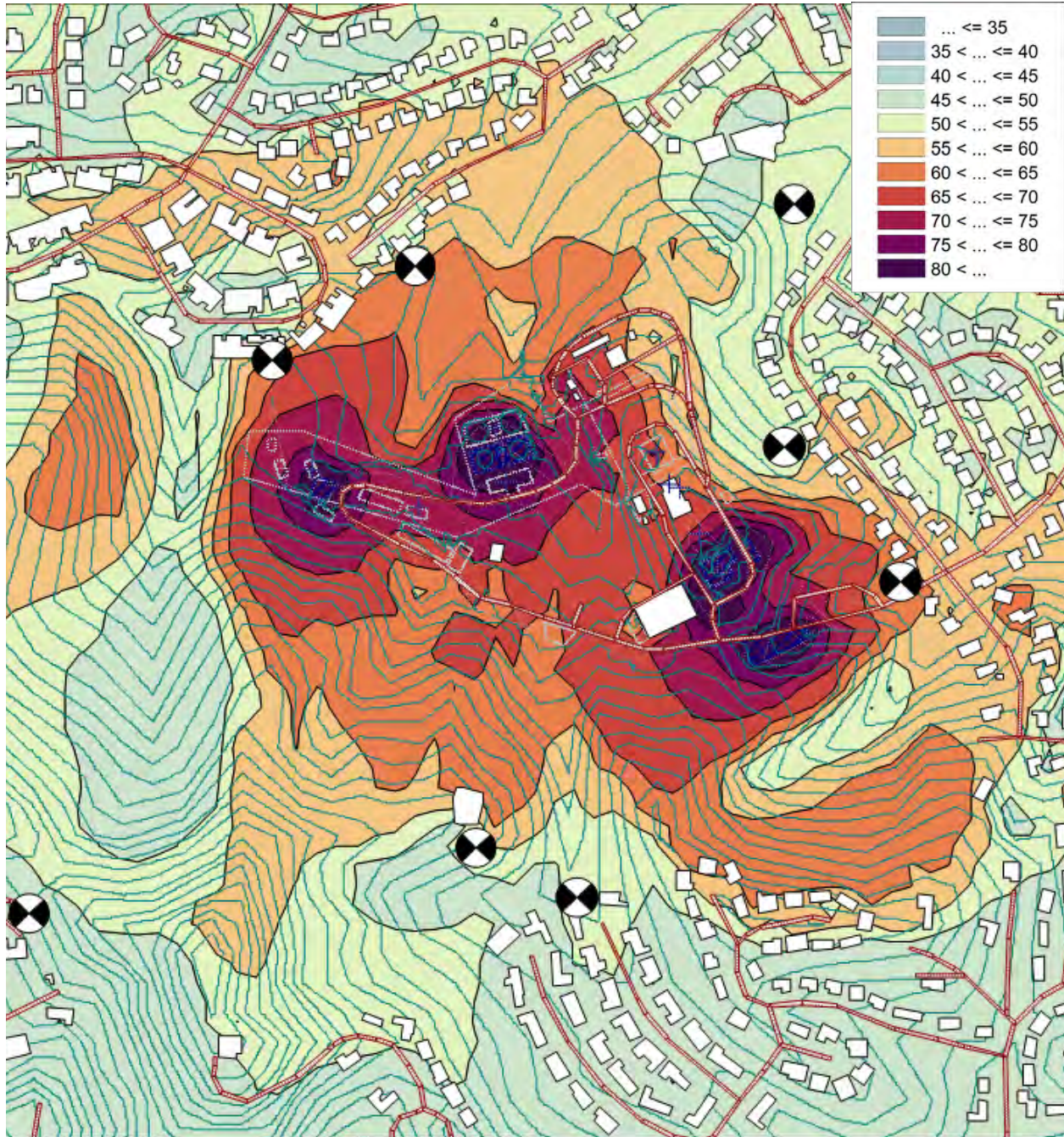


Figure I-21: Scenario Construction 2.B Existing Noise + Project Noise – Hourly Leq

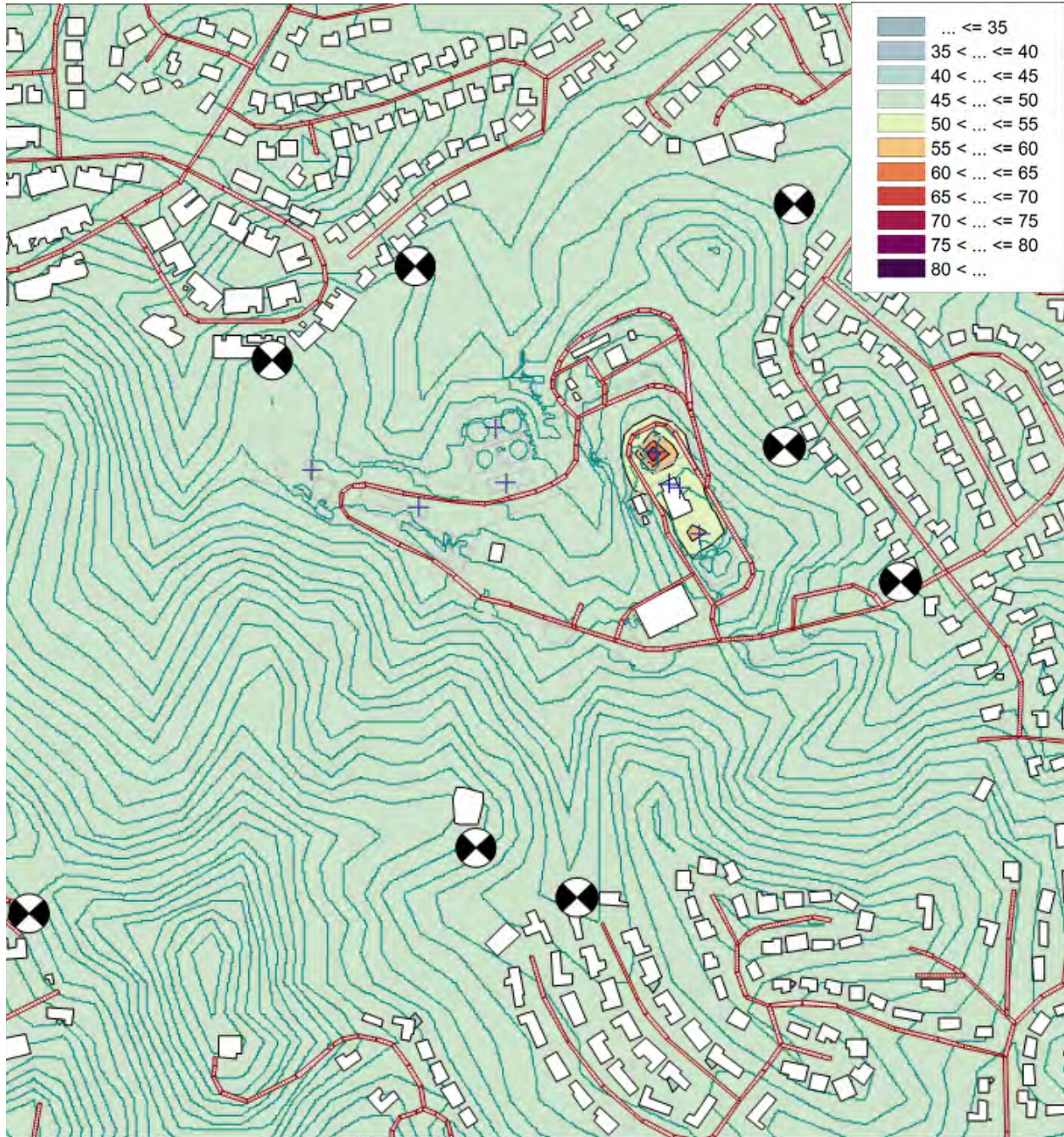


Figure I-22: Scenario Phase 1 Complete Existing Noise + Operations Noise – Ldn

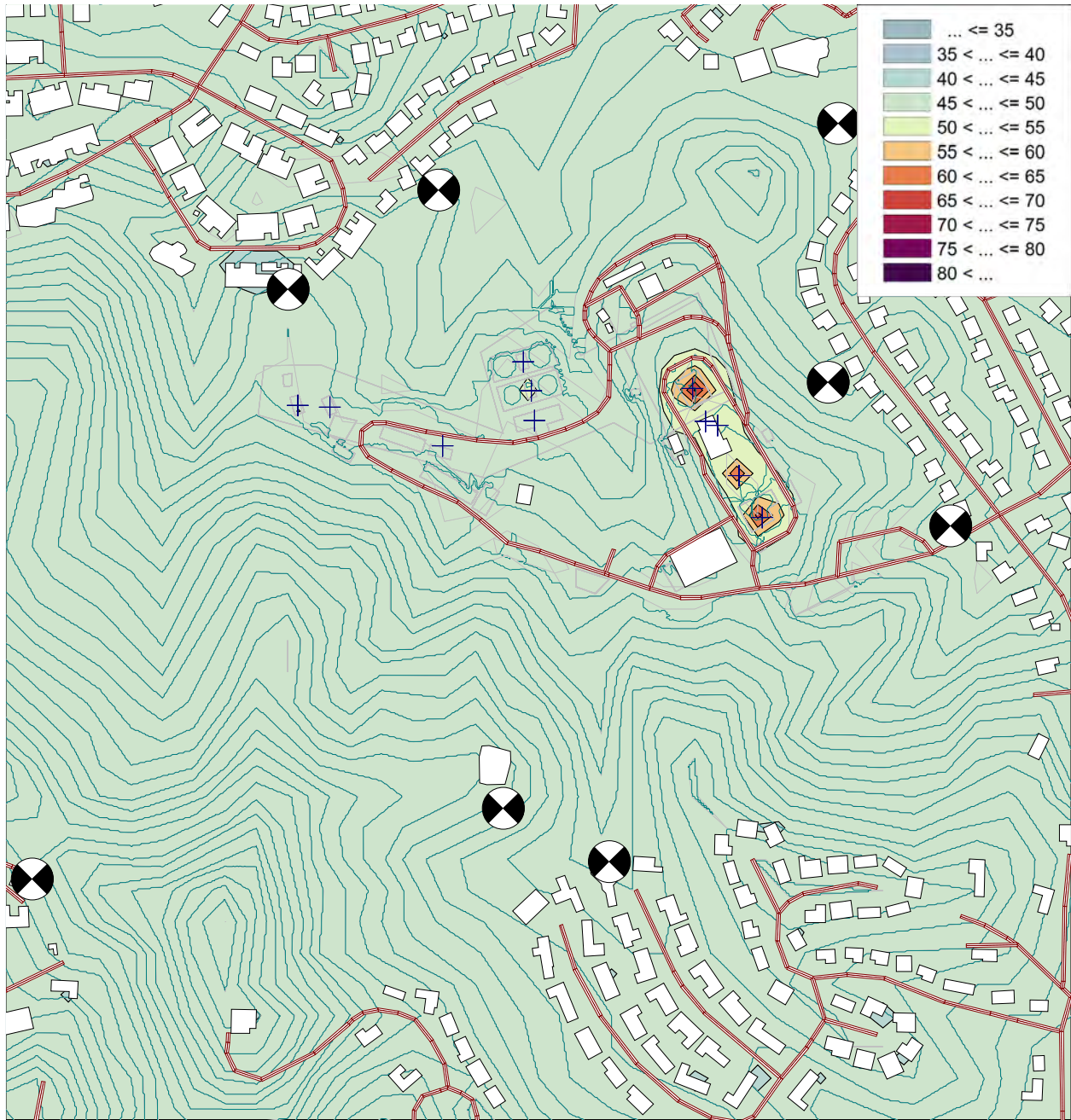


Figure I-23: Scenario Project Complete Existing Noise + Operations Noise - Ldn

Lafayette WTP

These models do not include topography. Only shielding from existing buildings has been incorporated.

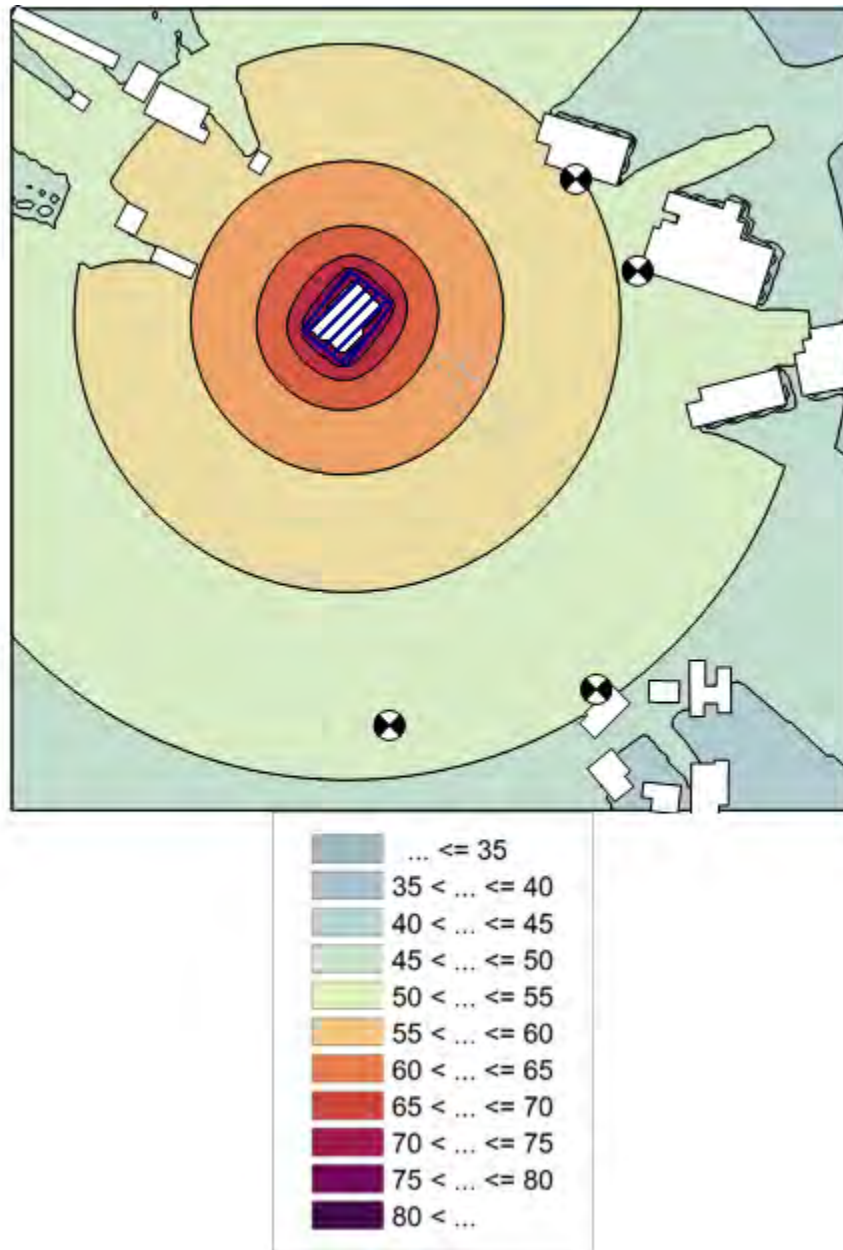


Figure I-24: Weir #1 Demolition Project Noise

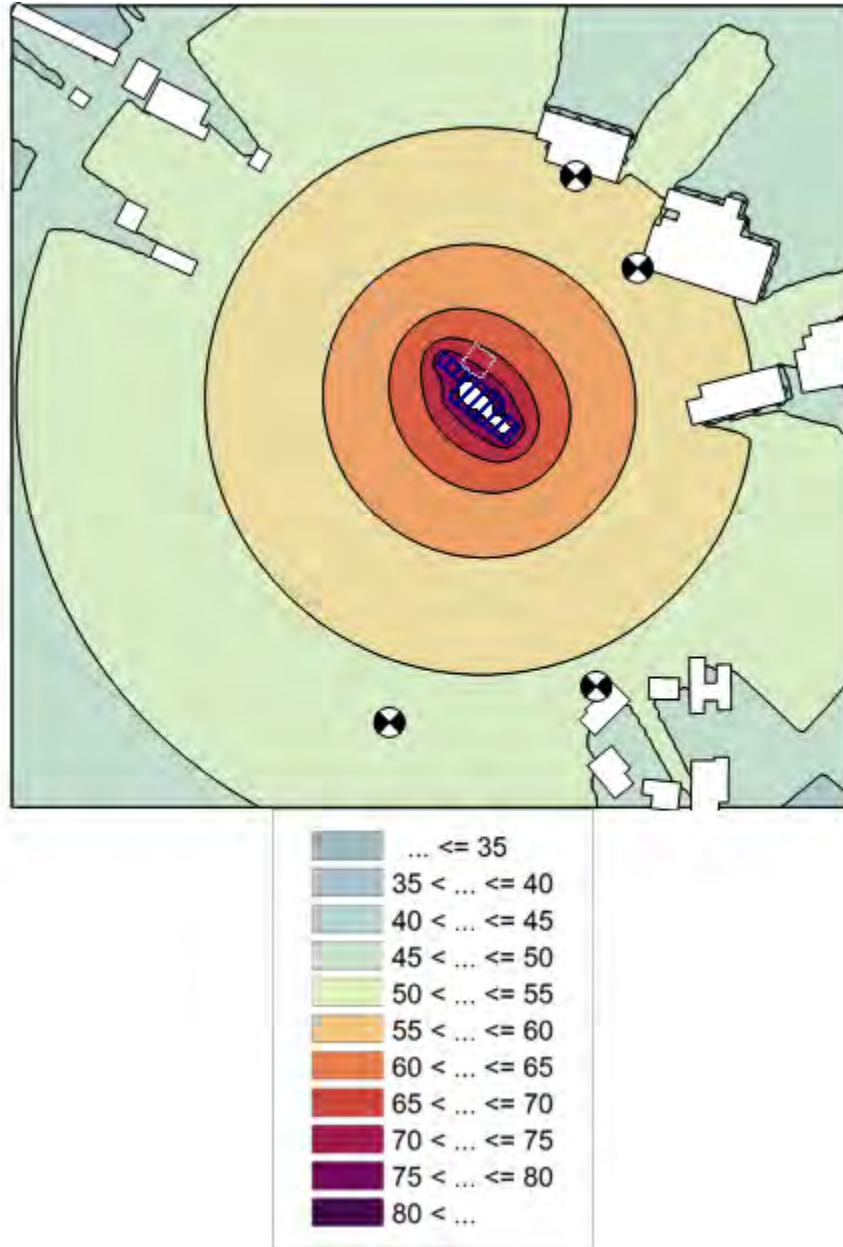


Figure I-25: Weir #1 Reconstruction Project Noise

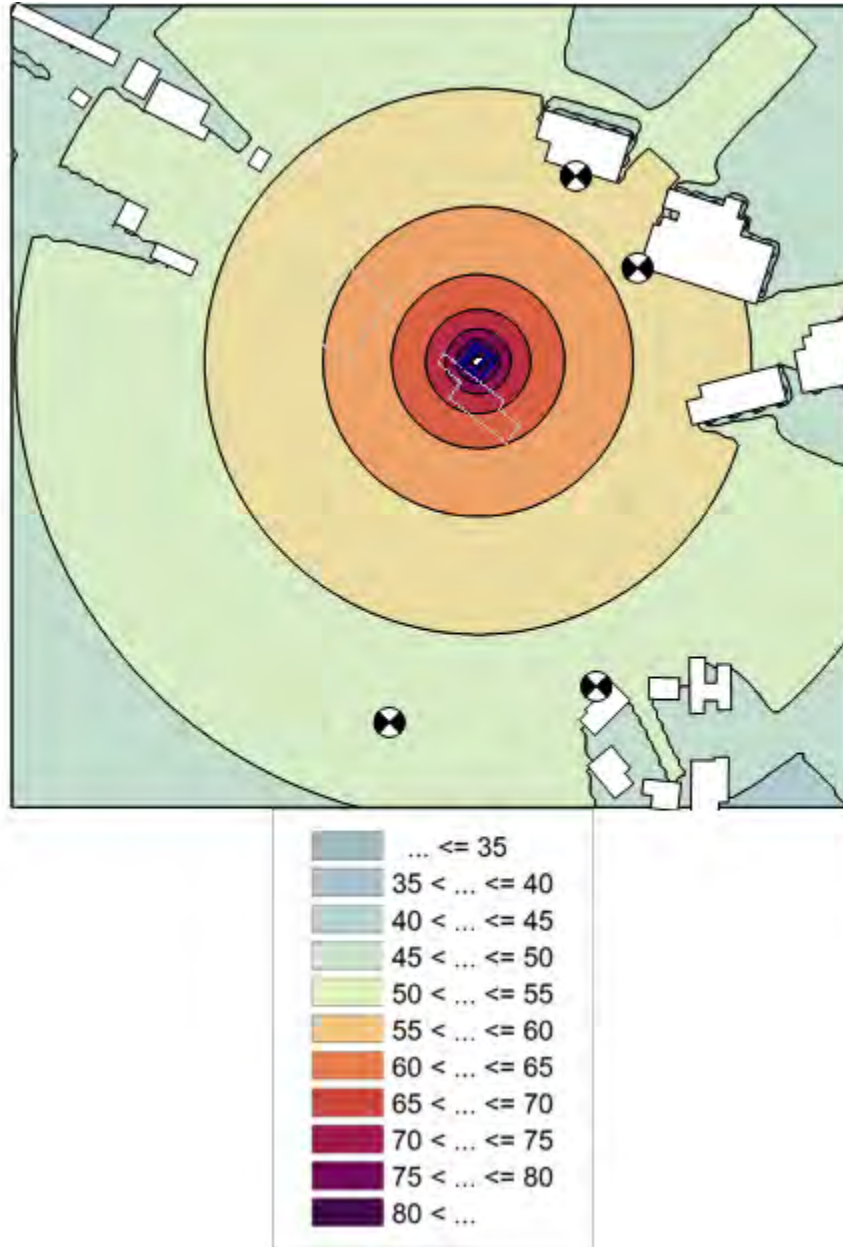


Figure I-26: Weir #2 Raise Project Noise

CadnaA Construction Noise Modeling Partial Results

CadnaA Scenario A = Scenario Phase 1.A

Source	Name	ID	Partial Level Day							
			Behind Alfred Ave	Ramsay Cir	St. Stephen Church	Larkey Reservoir	Larkey Ln & Alfred Ave	Bria Ct	Summit Rd	Quail View Cir
Scenario A		I02*	45.1	55.2	35.1	36.0	51.8	43.0	24.5	56.0
Trucks - Scenario A		I020017876839	39.6	37.1	28.8	17.0	30.1	18.7	7.3	35.3
Sc01-Ph1-St02-Backhoe		I0201Ph1-St02: Yard Piping and Electrical Duct	32.8	43.3	19.9	19.1	16.5	28.3	11.5	44.2
Sc01-Ph1-St01-Backhoe		I0201Ph1-St01: Phase 1 Site Prep / Stockpile	27.0	19.1	28.4	32.3	51.7	21.4	11.8	23.5
Sc01-Ph1-St01-Backhoe		I0201Ph1-St01: Phase 1 Site Prep / Stockpile	22.3	43.1	25.2	28.8	21.7	40.1	14.8	39.5
Sc01-Ph1-St01-Backhoe		I0201Ph1-St01: Phase 1 Site Prep / Stockpile	21.5	40.7	24.2	26.2	20.0	33.1	15.5	40.0
Sc01-Ph1-St01-Backhoe		I0201Ph1-St01: Phase 1 Site Prep / Stockpile	20.1	48.1	20.2	20.5	15.9	18.3	16.4	49.4
Sc01-Ph1-St02-Bobcat		I0201Ph1-St02: Yard Piping and Electrical Duct	37.2	47.5	23.9	23.2	20.4	32.5	15.6	48.4
Sc01-Ph1-St02-Concrete		I0201Ph1-St02: Yard Piping and Electrical Duct	38.2	48.5	24.8	24.0	21.4	33.2	16.3	49.6
Sc01-Ph1-St02-Dump Truck		I0201Ph1-St02: Yard Piping and Electrical Duct	39.2	49.0	26.4	25.7	22.5	34.6	17.8	50.2

CadnaA Scenario B = Scenario Phase 1.B

Source	Name	ID	Partial Level Day							
			Behind Alfred Ave	Ramsay Cir	St. Stephen Church	Larkey Reservoir	Larkey Ln & Alfred Ave	Bria Ct	Summit Rd	Quail View Cir
Scenario B		I03*	44.5	69.2	43.4	43.4	39.0	53.0	37.0	70.4
Trucks - Scenario B		I030017876839	39.6	37.1	28.8	17.0	30.1	18.7	7.3	35.3
Sc02ab-Ph1-St03-Backhoe		I0301Ph1-St03: Electrical Facilities (14)	17.7	44.9	17.2	18.8	14.3	19.3	12.5	44.1
Sc02ab-Ph1-St04-Backhoe		I0301Ph1-St04: Maintenance Building (15)	17.4	45.3	21.3	18.2	13.7	17.1	12.8	44.9
Sc02ab-Ph1-St05-Backhoe		I0301Ph1-St05: Dewatering Building(9), Truck L	20.2	43.0	19.1	21.0	16.0	35.0	11.5	43.4
Sc02ab-Ph1-St05-Backhoe		I0301Ph1-St05: Dewatering Building(9), Truck L	19.6	44.0	17.5	19.1	15.2	32.0	10.6	39.6
Sc02ab-Ph1-St06-Backhoe		I0301Ph1-St06: Ozone Generator Building (4)	17.7	43.7	18.3	19.5	14.4	18.8	12.8	43.6
Sc02ab-Ph1-St16-Backhoe		I0301Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	17.3	44.3	21.3	18.0	13.3	15.6	13.7	45.7
Sc02ab-Ph1-St18-Backhoe		I0301Ph1-St18: Thickened Solids PP (12-N)	20.2	48.0	18.0	19.9	15.3	34.0	11.4	42.7
Sc02ab-Ph1-St08-Backhoe		I0301Ph1-St08: Pre-Ozone Pumping Plant (6-N)	22.0	50.5	21.6	22.0	17.4	21.4	18.3	52.5
Sc02ab-Ph1-St03-Bobcat		I0301Ph1-St03: Electrical Facilities (14)	21.8	48.9	21.2	22.9	18.2	23.3	16.4	48.5
Sc02ab-Ph1-St05-Bobcat		I0301Ph1-St05: Dewatering Building(9), Truck L	24.2	47.9	23.2	25.0	20.0	38.9	15.5	48.2
Sc02ab-Ph1-St05-Bobcat		I0301Ph1-St05: Dewatering Building(9), Truck L	23.6	48.5	21.5	23.1	19.1	36.0	14.5	44.0
Sc02ab-Ph1-St06-Bobcat		I0301Ph1-St06: Ozone Generator Building (4)	21.7	47.7	22.2	23.5	18.4	22.9	16.6	48.1
Sc02ab-Ph1-St07-Bobcat		I0301Ph1-St07: Lox Tanks and Vaporizers (5)	21.9	47.1	23.7	24.5	19.0	25.3	16.5	47.7
Sc02ab-Ph1-St08-Bobcat		I0301Ph1-St08: Pre-Ozone Pumping Plant (6-N)	21.3	49.7	20.9	21.3	16.6	20.6	17.5	51.8
Sc02ab-Ph1-St10-Bobcat		I0301Ph1-St10: Combined Reclaim Metering Vault	22.0	45.6	21.8	21.4	16.2	20.9	19.0	54.7
Sc02ab-Ph1-St16-Bobcat		I0301Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	21.3	48.2	25.3	22.1	17.3	19.7	17.6	49.9
Sc02ab-Ph1-St18-Bobcat		I0301Ph1-St18: Thickened Solids PP (12-N)	24.3	52.0	22.7	23.9	19.2	37.9	15.4	48.4
Sc02ab-Ph1-St03-Compressor		I0301Ph1-St03: Electrical Facilities (14)	6.5	33.1	6.1	7.5	2.9	8.1	1.0	32.5
Sc02ab-Ph1-St04-Compressor		I0301Ph1-St04: Maintenance Building (15)	6.2	33.5	10.1	7.0	2.0	4.9	1.4	33.2
Sc02ab-Ph1-St05-Compressor		I0301Ph1-St05: Dewatering Building(9), Truck L	8.9	31.2	7.9	9.7	4.5	23.1	0.2	31.5
Sc02ab-Ph1-St05-Compressor		I0301Ph1-St05: Dewatering Building(9), Truck L	8.2	31.4	6.2	7.8	3.6	20.1	-0.8	27.8
Sc02ab-Ph1-St08-Compressor		I0301Ph1-St08: Pre-Ozone Pumping Plant (6-N)	6.2	33.9	6.1	6.1	1.3	5.4	2.2	36.0
Sc02ab-Ph1-St10-Compressor		I0301Ph1-St10: Combined Reclaim Metering Vault	7.0	29.9	6.8	6.1	1.1	5.8	3.8	38.9
Sc02ab-Ph1-St16-Compressor		I0301Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	6.2	32.4	10.0	6.8	2.1	4.4	2.3	34.0
Sc02ab-Ph1-St18-Compressor		I0301Ph1-St18: Thickened Solids PP (12-N)	9.1	36.3	6.8	8.8	3.7	22.1	0.2	30.8
Sc02ab-Ph1-St06-Concrete		I0301Ph1-St06: Ozone Generator Building (4)	27.4	53.3	27.8	29.3	24.0	28.6	22.2	54.2
Sc02ab-Ph1-St07-Concrete		I0301Ph1-St07: Lox Tanks and Vaporizers (5)	27.6	52.7	29.3	30.2	24.6	30.9	22.0	53.4
Sc02ab-Ph1-St04-Concrete		I0301Ph1-St04: Maintenance Building (15)	28.4	56.2	32.1	29.6	24.5	28.1	23.5	56.5
Sc02ab-Ph1-St05-Concrete		I0301Ph1-St05: Dewatering Building(9), Truck L	31.2	55.0	30.1	31.8	26.9	45.9	22.3	55.0
Sc02ab-Ph1-St05-Concrete		I0301Ph1-St05: Dewatering Building(9), Truck L	30.6	55.8	28.5	30.0	26.1	42.9	21.2	50.9
Sc02ab-Ph1-St08-Concrete		I0301Ph1-St08: Pre-Ozone Pumping Plant (6-N)	28.2	56.6	27.7	28.3	23.4	27.5	24.3	59.0
Sc02ab-Ph1-St10-Concrete		I0301Ph1-St10: Combined Reclaim Metering Vault	28.9	52.8	28.6	28.3	23.1	27.8	25.9	62.0
Sc02ab-Ph1-St16-Concrete		I0301Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	28.2	55.1	32.1	29.1	24.2	26.7	24.5	57.3
Sc02ab-Ph1-St18-Concrete		I0301Ph1-St18: Thickened Solids PP (12-N)	31.3	59.1	29.7	30.8	26.1	44.9	22.2	55.2
Sc02ab-Ph1-St03-Concrete		I0301Ph1-St03: Electrical Facilities (14)	28.8	55.8	28.1	29.9	25.0	30.2	23.2	55.9
Sc02ab-Ph1-St03-Crane		I0301Ph1-St03: Electrical Facilities (14)	16.1	42.8	15.7	17.4	12.3	17.9	10.4	42.6
Sc02ab-Ph1-St04-Crane		I0301Ph1-St04: Maintenance Building (15)	15.8	43.2	19.8	17.0	11.8	16.8	10.8	43.4
Sc02ab-Ph1-St05-Crane		I0301Ph1-St05: Dewatering Building(9), Truck L	18.3	43.1	17.7	19.5	13.9	33.0	9.7	43.3
Sc02ab-Ph1-St05-Crane		I0301Ph1-St05: Dewatering Building(9), Truck L	18.3	43.1	17.7	18.2	13.1	30.9	9.6	39.1
Sc02ab-Ph1-St16-Crane		I0301Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	15.8	42.2	19.7	16.4	11.6	14.1	11.7	44.2
Sc02ab-Ph1-St18-Crane		I0301Ph1-St18: Thickened Solids PP (12-N)	18.5	45.7	17.1	18.4	13.1	32.0	9.7	43.5
Sc02ab-Ph1-St10-Drozer		I0301Ph1-St10: Combined Reclaim Metering Vault	19.6	43.0	19.4	19.1	13.6	18.5	17.0	51.8
Sc02ab-Ph1-St06-Dozer		I0301Ph1-St06: Ozone Generator Building (4)	21.7	47.7	22.2	23.5	18.4	22.9	16.6	48.1
Sc02ab-Ph1-St07-Dozer		I0301Ph1-St07: Lox Tanks and Vaporizers (5)	21.9	47.1	23.7	24.5	19.0	25.3	16.5	47.7
Sc02ab-Ph1-St08-Dozer		I0301Ph1-St08: Pre-Ozone Pumping Plant (6-N)	21.3	49.7	20.9	21.3	16.6	20.6	17.5	51.8
Sc02ab-Ph1-St16-Dozer		I0301Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	21.3	48.2	25.3	22.1	17.3	19.7	17.6	49.9

Source Name	ID	Partial Level Day							
		Behind Alfred Ave	Ramsay Cir	St. Stephen Church	Larkey Reservoir	Larkey Ln & Alfred Ave	Bria Ct	Summit Rd	Quail View Cir
Scenario B	I03*								
Sc02ab-Ph1-St06-Dump Truck	I0301!Ph1-St06: Ozone Generator Building (4)	24.0	49.1	24.9	25.9	20.5	25.5	18.8	49.7
Sc02ab-Ph1-St07-Dump Truck	I0301!Ph1-St07: Lox Tanks and Vaporizers (5)	24.0	48.5	26.3	26.8	21.1	27.9	18.6	49.2
Sc02ab-Ph1-St10-Dump Truck	I0301!Ph1-St10: Combined Reclaim Metering Vault	24.7	47.7	24.5	23.9	18.8	23.6	21.5	56.7
Sc02ab-Ph1-St18-Dump Truck	I0301!Ph1-St18: Thickened Solids PP (12-N)	26.6	53.4	25.3	26.5	21.3	40.1	17.8	49.5
Sc02ab-Ph1-St03-Dump Truck	I0301!Ph1-St03: Electrical Facilities (14)	25.9	52.1	25.6	27.1	22.1	27.7	20.3	52.0
Sc02ab-Ph1-St08-Dump Truck	I0301!Ph1-St08: Pre-Ozone Pumping Plant (6-N)	25.6	52.9	25.3	25.6	20.7	25.0	21.5	55.5
Sc02ab-Ph1-St16-Dump Truck	I0301!Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	25.7	51.4	29.7	26.3	21.5	23.9	21.5	53.5
Sc02ab-Ph1-St06-Excavator	I0301!Ph1-St06: Ozone Generator Building (4)	17.4	42.6	18.2	19.3	14.0	18.8	12.0	43.0
Sc02ab-Ph1-St07-Excavator	I0301!Ph1-St07: Lox Tanks and Vaporizers (5)	17.3	42.0	19.7	20.3	14.3	21.3	12.0	42.7
Sc02ab-Ph1-St08-Excavator	I0301!Ph1-St08: Pre-Ozone Pumping Plant (6-N)	17.3	44.5	17.1	17.2	12.3	16.6	13.1	47.0
Sc02ab-Ph1-St10-Excavator	I0301!Ph1-St10: Combined Reclaim Metering Vault	18.1	40.8	17.9	17.3	12.1	17.0	15.5	50.0
Sc02ab-Ph1-St16-Excavator	I0301!Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	17.3	43.1	21.2	17.9	13.1	15.5	13.0	45.1
Sc02ab-Ph1-St03-Forklift	I0301!Ph1-St03: Electrical Facilities (14)	12.8	40.0	12.3	13.8	9.4	14.4	7.5	39.4
Sc02ab-Ph1-St08-Forklift	I0301!Ph1-St08: Pre-Ozone Pumping Plant (6-N)	12.4	40.8	12.1	12.3	7.7	11.7	8.6	42.7
Sc02ab-Ph1-St10-Forklift	I0301!Ph1-St10: Combined Reclaim Metering Vault	13.1	36.6	13.0	12.4	7.3	12.0	10.0	45.7
Sc02ab-Ph1-St16-Forklift	I0301!Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	12.4	39.4	16.3	13.0	8.3	10.7	8.8	40.8
Sc02ab-Ph1-St18-Forklift	I0301!Ph1-St18: Thickened Solids PP (12-N)	15.4	43.2	13.7	15.0	10.3	28.9	6.4	39.3
Sc02ab-Ph1-St04-Forklift	I0301!Ph1-St04: Maintenance Building (15)	15.5	43.4	19.3	16.6	11.8	16.2	10.9	43.1
Sc02ab-Ph1-St05-Forklift	I0301!Ph1-St05: Dewatering Building(9), Truck L	18.3	41.9	17.2	19.0	14.1	32.9	9.6	42.3
Sc02ab-Ph1-St05-Forklift	I0301!Ph1-St05: Dewatering Building(9), Truck L	17.7	42.4	15.6	17.2	13.3	30.1	8.7	38.0
Sc02ab-Ph1-St03-Loader	I0301!Ph1-St03: Electrical Facilities (14)	15.9	43.3	15.3	17.0	12.3	17.4	10.5	43.2
Sc02ab-Ph1-St08-Loader	I0301!Ph1-St08: Pre-Ozone Pumping Plant (6-N)	15.3	44.1	15.0	15.4	10.6	14.7	11.6	46.3
Sc02ab-Ph1-St16-Loader	I0301!Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	15.4	42.6	19.2	16.1	11.3	13.8	11.7	44.7
Sc02ab-Ph1-St10-Form Builder	I0301!Ph1-St10: Combined Reclaim Metering Vault	8.5	32.5	8.2	8.3	3.3	7.4	6.0	41.3
Sc02ab-Ph1-St08-Form Builder	I0301!Ph1-St08: Pre-Ozone Pumping Plant (6-N)	12.9	45.0	12.1	13.3	8.5	12.2	9.6	42.5
Sc02ab-Ph1-St04-Form Builder	I0301!Ph1-St04: Maintenance Building (15)	14.5	40.2	15.8	15.5	11.0	13.5	10.3	44.0
Sc02ab-Ph1-St03-Form Builder	I0301!Ph1-St03: Electrical Facilities (14)	16.5	46.3	15.0	17.1	12.8	17.0	10.9	48.2
Sc02ab-Ph1-St05-Form Builder	I0301!Ph1-St05: Dewatering Building(9), Truck L	19.5	43.0	17.1	18.6	15.0	33.0	9.6	42.4
Sc02ab-Ph1-St05-Form Builder	I0301!Ph1-St05: Dewatering Building(9), Truck L	18.8	34.2	16.3	16.5	14.1	28.9	8.6	36.0
Sc02ab-Ph1-St06-Form Builder	I0301!Ph1-St06: Ozone Generator Building (4)	16.5	44.9	15.8	18.2	13.1	16.9	11.3	46.7
Sc02ab-Ph1-St07-Form Builder	I0301!Ph1-St07: Lox Tanks and Vaporizers (5)	16.9	44.1	15.1	18.9	13.9	18.1	10.9	45.2
Sc02ab-Ph1-St16-Form Builder	I0301!Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	15.3	45.5	18.9	16.7	11.4	14.1	12.3	48.9
Sc02ab-Ph1-St18-Form Builder	I0301!Ph1-St18: Thickened Solids PP (12-N)	19.3	49.9	16.7	17.6	14.1	26.8	9.0	40.9
Sc02ab-Ph1-St04-Rooftop	I0301!Ph1-St04: Maintenance Building (15)	24.5	52.3	28.3	25.7	20.5	25.3	19.5	52.9
Sc02ab-Ph1-St05-Rooftop	I0301!Ph1-St05: Dewatering Building(9), Truck L	27.1	52.3	26.3	28.1	22.7	41.8	18.3	52.4
Sc02ab-Ph1-St05-Rooftop	I0301!Ph1-St05: Dewatering Building(9), Truck L	27.1	52.4	26.3	26.7	21.9	39.6	18.1	48.1
Sc02ab-Ph1-St18-Rooftop	I0301!Ph1-St18: Thickened Solids PP (12-N)	27.3	55.0	25.8	26.9	21.9	40.7	18.3	52.6
Sc02ab-Ph1-St03-Compactor	I0301!Ph1-St03: Electrical Facilities (14)	23.9	50.3	23.6	24.9	20.3	25.6	18.5	49.4
Sc02ab-Ph1-St08-Compactor	I0301!Ph1-St08: Pre-Ozone Pumping Plant (6-N)	23.7	51.1	23.6	23.6	18.8	23.0	19.7	53.2
Sc02ab-Ph1-St10-Compactor	I0301!Ph1-St10: Combined Reclaim Metering Vault	24.5	47.2	24.4	23.7	18.6	23.4	21.3	56.1
Sc02ab-Ph1-St16-Compactor	I0301!Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	23.7	49.6	27.6	24.2	19.6	21.9	19.7	51.1
Sc02ab-Ph1-St18-Compactor	I0301!Ph1-St18: Thickened Solids PP (12-N)	26.5	53.4	24.2	26.3	21.1	39.7	17.7	48.0
Sc02ab-Ph1-St05-Welding	I0301!Ph1-St05: Dewatering Building(9), Truck L	15.6	36.9	14.2	15.9	11.4	29.8	6.7	37.8
Sc02ab-Ph1-St05-Welding	I0301!Ph1-St05: Dewatering Building(9), Truck L	14.9	34.3	12.8	14.0	10.6	26.5	5.8	33.6
Sc02ab-Ph1-St03-Welding	I0301!Ph1-St03: Electrical Facilities (14)	17.8	44.9	17.1	18.5	14.3	19.1	12.5	44.0
Sc02ab-Ph1-St04-Welding	I0301!Ph1-St04: Maintenance Building (15)	16.9	44.9	19.0	18.0	13.5	16.1	12.9	44.6
Sc02ab-Ph1-St10-Welding	I0301!Ph1-St10: Combined Reclaim Metering Vault	17.9	41.5	17.6	17.3	12.2	16.8	14.9	49.9
Sc02ab-Ph1-St16-Welding	I0301!Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	17.2	45.1	21.2	18.1	13.3	15.7	13.8	45.4
Sc02ab-Ph1-St18-Welding	I0301!Ph1-St18: Thickened Solids PP (12-N)	20.3	48.1	18.1	19.8	15.4	32.2	11.3	41.5

Source	ID	Partial Level Day								
		Behind Alfred Ave	Ramsay Cir	St. Stephen Church	Larkey Reservoir	Larkey Ln & Alfred Ave	Bria Ct	Summit Rd	Quail View Cir	
Scenario C	I04*									
Sc02c-Ph1-St03-Dump Truck	I0401Ph2-St03: Ballasted Flocculation (1-SE)	41.0	38.9	40.2	42.5	44.1	29.5	18.9	41.4	
Sc02c-Ph1-St07-Dump Truck	I0401Ph1-St07: Lox Tanks and Vaporizers (5)	25.7	50.3	28.1	28.6	22.8	29.6	20.4	50.9	
Sc02c-Ph1-St09-Dump Truck	I0401Ph1-St09: Demolition	29.0	46.5	23.3	37.5	29.0	28.7	18.6	47.0	
Sc02c-Ph1-St09-Dump Truck	I0401Ph1-St09: Demolition	41.5	49.1	38.0	34.2	28.0	37.0	19.2	47.2	
Sc02c-Ph1-St11-Dump Truck	I0401Ph1-St11: Ballasted Flocculation (1-NW)	46.9	49.6	47.6	38.0	31.0	36.4	20.1	48.0	
Sc02c-Ph1-St16-Dump Truck	I0401Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	25.7	51.4	29.7	26.3	21.5	23.9	21.5	53.5	
Sc02c-Ph1-St18-Dump Truck	I0401Ph1-St18: Thickened Solids PP (12-N)	28.3	55.2	27.0	28.3	23.0	41.9	19.6	51.3	
Sc02c-Ph1-St19-Dump Truck	I0401Ph1-St19: Hydrogen Peroxide Station(18-E)	63.8	38.5	50.0	29.5	38.9	24.8	16.7	33.9	
Sc02c-Ph1-St06-Dump Truck	I0401Ph1-St06: Ozone Generator Building (4)	25.8	50.9	26.6	27.7	22.2	27.2	20.5	51.5	
Sc02c-Ph1-St02-Excavator	I0401Ph1-St02: Yard Piping and Electrical Duct	32.9	42.5	19.7	19.1	15.7	28.0	11.3	43.5	
Sc02c-Ph1-St06-Excavator	I0401Ph1-St06: Ozone Generator Building (4)	17.4	42.6	18.2	19.3	14.0	18.8	12.0	43.0	
Sc02c-Ph1-St09-Excavator	I0401Ph1-St09: Demolition	20.5	38.2	14.9	29.1	20.6	20.3	10.3	38.9	
Sc02c-Ph1-St09-Excavator	I0401Ph1-St09: Demolition	34.5	41.3	30.5	25.8	19.6	28.7	11.0	39.5	
Sc02c-Ph1-St10-Excavator	I0401Ph1-St10: Combined Reclaim Metering Vault	18.1	40.8	17.9	17.3	12.1	17.0	15.5	50.0	
Sc02c-Ph1-St11-Excavator	I0401Ph1-St11: Ballasted Flocculation (1-NW)	39.3	41.6	39.5	29.5	22.9	28.0	12.8	39.8	
Sc02c-Ph1-St16-Excavator	I0401Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	17.3	43.1	21.2	17.9	13.1	15.5	13.0	45.1	
Sc02c-Ph1-St02-Forklift	I0401Ph1-St02: Yard Piping and Electrical Duct	28.2	38.5	15.0	14.2	11.5	23.6	6.7	39.4	
Sc02c-Ph1-St03-Forklift	I0401Ph2-St03: Ballasted Flocculation (1-SE)	28.1	25.7	27.8	29.6	31.4	16.3	5.6	29.1	
Sc02c-Ph1-St05-Forklift	I0401Ph1-St05: Dewatering Building(9), Truck L	15.3	38.8	14.2	16.0	11.1	29.9	6.6	39.3	
Sc02c-Ph1-St05-Forklift	I0401Ph1-St05: Dewatering Building(9), Truck L	14.7	39.4	12.6	14.2	10.2	27.1	5.7	35.0	
Sc02c-Ph1-St06-Forklift	I0401Ph1-St06: Ozone Generator Building (4)	12.8	38.9	13.3	14.5	9.5	13.9	7.7	38.9	
Sc02c-Ph1-St07-Forklift	I0401Ph1-St07: Lox Tanks and Vaporizers (5)	13.0	38.3	14.8	15.5	10.1	16.4	7.7	38.9	
Sc02c-Ph1-St08-Forklift	I0401Ph1-St08: Pre-Ozone Pumping Plant (6-N)	12.4	40.8	12.1	12.3	7.7	11.7	8.6	42.7	
Sc02c-Ph1-St10-Forklift	I0401Ph1-St10: Combined Reclaim Metering Vault	13.1	36.6	13.0	12.4	7.3	12.0	10.0	45.7	
Sc02c-Ph1-St11-Forklift	I0401Ph1-St11: Ballasted Flocculation (1-NW)	34.0	37.7	35.0	24.7	17.8	23.1	6.7	36.1	
Sc02c-Ph1-St16-Forklift	I0401Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	12.4	39.4	16.3	13.0	8.3	10.7	8.8	40.8	
Sc02c-Ph1-St18-Forklift	I0401Ph1-St18: Thickened Solids PP (12-N)	15.4	43.2	13.7	15.0	10.3	28.9	6.4	39.3	
Sc02c-Ph1-St19-Forklift	I0401Ph1-St19: Hydrogen Peroxide Station(18-E)	51.7	25.4	38.0	16.4	25.8	11.6	3.9	22.1	
Sc02c-Ph1-St04-Forklift	I0401Ph1-St04: Maintenance Building (15)	15.5	43.4	19.3	16.6	11.8	16.2	10.9	43.1	
Sc02c-Ph1-St03-Loader	I0401Ph2-St03: Ballasted Flocculation (1-SE)	31.3	28.7	31.0	32.7	36.3	19.2	8.5	32.8	
Sc02c-Ph1-St05-Loader	I0401Ph1-St05: Dewatering Building(9), Truck L	18.5	42.8	17.2	19.0	14.1	33.0	9.5	42.9	
Sc02c-Ph1-St05-Loader	I0401Ph1-St05: Dewatering Building(9), Truck L	17.8	43.1	15.6	17.7	13.3	30.2	8.6	38.4	
Sc02c-Ph1-St06-Loader	I0401Ph1-St06: Ozone Generator Building (4)	15.8	42.1	16.2	17.7	12.6	17.0	10.7	42.5	
Sc02c-Ph1-St07-Loader	I0401Ph1-St07: Lox Tanks and Vaporizers (5)	16.1	41.4	17.7	18.7	13.1	19.4	10.6	42.2	
Sc02c-Ph1-St09-Loader	I0401Ph1-St09: Demolition	19.6	37.5	13.3	27.3	19.1	18.9	8.8	38.4	
Sc02c-Ph1-St09-Loader	I0401Ph1-St09: Demolition	32.3	40.6	28.5	23.9	18.1	27.1	8.8	38.7	
Sc02c-Ph1-St11-Loader	I0401Ph1-St11: Ballasted Flocculation (1-NW)	37.4	41.0	38.6	27.7	20.9	26.1	10.2	39.3	
Sc02c-Ph1-St16-Loader	I0401Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	15.4	42.6	19.2	16.1	11.3	13.8	11.7	44.7	
Sc02c-Ph1-St19-Loader	I0401Ph1-St19: Hydrogen Peroxide Station(18-E)	55.6	28.6	41.2	19.5	28.9	14.7	6.7	26.0	
Sc02c-Ph1-St10-Form Builder	I0401Ph1-St10: Combined Reclaim Metering Vault	8.5	32.5	8.2	8.3	3.3	7.4	6.0	41.3	
Sc02c-Ph1-St18-Form Builder	I0401Ph1-St18: Thickened Solids PP (12-N)	17.1	47.7	14.5	15.4	11.9	24.6	6.8	38.7	
Sc02c-Ph1-St19-Form Builder	I0401Ph1-St19: Hydrogen Peroxide Station(18-E)	56.1	22.0	39.9	14.9	25.4	12.5	4.1	16.9	
Sc02c-Ph1-St04-Form Builder	I0401Ph1-St04: Maintenance Building (15)	14.5	40.2	15.8	15.5	11.0	13.5	10.3	44.0	
Sc02c-Ph1-St05-Form Builder	I0401Ph1-St05: Dewatering Building(9), Truck L	18.5	42.0	16.1	17.6	14.0	32.1	8.6	41.4	
Sc02c-Ph1-St05-Form Builder	I0401Ph1-St05: Dewatering Building(9), Truck L	17.9	33.3	15.3	15.6	13.1	28.0	7.6	35.1	
Sc02c-Ph1-St06-Form Builder	I0401Ph1-St06: Ozone Generator Building (4)	15.5	43.9	14.8	17.2	12.1	16.0	10.3	45.8	
Sc02c-Ph1-St03-Form Builder	I0401Ph2-St03: Ballasted Flocculation (1-SE)	29.6	25.2	27.1	31.6	29.2	18.4	7.9	29.0	
Sc02c-Ph1-St07-Form Builder	I0401Ph1-St07: Lox Tanks and Vaporizers (5)	16.9	44.1	15.1	18.9	13.9	18.1	10.9	45.2	
Sc02c-Ph1-St08-Form Builder	I0401Ph1-St08: Pre-Ozone Pumping Plant (6-N)	15.1	47.2	14.3	15.6	10.7	14.4	11.8	44.7	
Sc02c-Ph1-St16-Form Builder	I0401Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	15.3	45.5	18.9	16.7	11.4	14.1	12.3	48.9	
Sc02c-Ph1-St04-Rooftop	I0401Ph1-St04: Maintenance Building (15)	24.5	52.3	28.3	25.7	20.5	25.3	19.5	52.9	
Sc02c-Ph1-St06-Rooftop	I0401Ph1-St06: Ozone Generator Building (4)	24.6	50.7	25.3	26.5	21.3	26.1	19.4	51.2	
Sc02c-Ph1-St08-Rooftop	I0401Ph1-St08: Pre-Ozone Pumping Plant (6-N)	24.3	52.7	23.9	24.3	19.4	23.7	20.3	55.0	
Sc02c-Ph1-St03-Compactor	I0401Ph2-St03: Ballasted Flocculation (1-SE)	38.8	35.1	37.8	40.1	41.2	27.5	16.8	38.3	
Sc02c-Ph1-St05-Compactor	I0401Ph1-St05: Dewatering Building(9), Truck L	26.2	48.2	25.4	27.3	21.9	40.6	17.7	48.7	
Sc02c-Ph1-St05-Compactor	I0401Ph1-St05: Dewatering Building(9), Truck L	25.5	49.0	23.6	25.4	21.1	37.8	16.7	45.2	
Sc02c-Ph1-St06-Compactor	I0401Ph1-St06: Ozone Generator Building (4)	23.8	49.1	24.6	25.6	20.4	25.1	18.7	48.9	
Sc02c-Ph1-St07-Compactor	I0401Ph1-St07: Lox Tanks and Vaporizers (5)	23.9	48.5	26.1	26.5	20.9	27.5	18.7	49.0	
Sc02c-Ph1-St10-Compactor	I0401Ph1-St10: Combined Reclaim Metering Vault	24.5	47.2	24.4	23.7	18.6	23.4	21.3	56.1	
Sc02c-Ph1-St16-Compactor	I0401Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	23.7	49.6	27.6	24.2	19.6	21.9	19.7	51.1	
Sc02c-Ph1-St18-Compactor	I0401Ph1-St18: Thickened Solids PP (12-N)	26.5	53.4	24.2	26.3	21.1	39.7	17.7	48.0	
Sc02c-Ph1-St19-Compactor	I0401Ph1-St19: Hydrogen Peroxide Station(18-E)	61.6	36.1	48.3	27.2	36.8	22.7	15.0	31.5	

Source Name	ID	Partial Level Day							
		Behind Alfred Ave	Ramsay Cir	St. Stephen Church	Larkey Reservoir	Larkey Ln & Alfred Ave	Bria Ct	Summit Rd	Quail View Cir
Scenario C	I04*								
Sc02c-Ph1-St05-Welding	I0401!Ph1-St05: Dewatering Building(9), Truck L	18.6	39.9	17.2	19.0	14.4	32.8	9.7	40.9
Sc02c-Ph1-St05-Welding	I0401!Ph1-St05: Dewatering Building(9), Truck L	17.9	37.4	15.8	17.0	13.6	29.5	8.8	36.6
Sc02c-Ph1-St03-Welding	I0401!Ph2-St03: Ballasted Flocculation (1-SE)	31.6	28.0	30.6	33.4	32.6	20.4	10.1	31.1
Sc02c-Ph1-St04-Welding	I0401!Ph1-St04: Maintenance Building (15)	16.9	44.9	19.0	18.0	13.5	16.1	12.9	44.6
Sc02c-Ph1-St06-Welding	I0401!Ph1-St06: Ozone Generator Building (4)	17.8	44.2	18.1	19.5	14.5	18.7	12.8	44.3
Sc02c-Ph1-St07-Welding	I0401!Ph1-St07: Lox Tanks and Vaporizers (5)	18.0	43.9	18.6	20.2	15.2	20.1	12.6	44.8
Sc02c-Ph1-St08-Welding	I0401!Ph1-St08: Pre-Ozone Pumping Plant (6-N)	17.2	46.6	16.7	17.3	12.6	16.5	13.5	47.4
Sc02c-Ph1-St10-Welding	I0401!Ph1-St10: Combined Reclaim Metering Vault	17.9	41.5	17.6	17.3	12.2	16.8	14.9	49.9
Sc02c-Ph1-St16-Welding	I0401!Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	17.2	45.1	21.2	18.1	13.3	15.7	13.8	45.4
Sc02c-Ph1-St19-Welding	I0401!Ph1-St19: Hydrogen Peroxide Station(18-E)	56.6	27.2	42.9	20.0	29.9	16.4	8.6	22.2

Source	Name	ID	Partial Level Day							
			Behind Alfred Ave	Ramsay Cir	St. Stephen Church	Larkey Reservoir	Larkey Ln & Alfred Ave	Bria Ct	Summit Rd	Quail View Cir
	Scenario D	I05*								
	Sc03abc-Ph1-St03-Compactor	I0501!Ph2-St03: Ballasted Flocculation (1-SE)	38.8	35.1	37.8	40.1	41.2	27.5	16.8	38.3
	Sc03abc-Ph1-St05-Compactor	I0501!Ph1-St05: Dewatering Building(9), Truck L	26.2	48.2	25.4	27.3	21.9	40.6	17.7	48.7
	Sc03abc-Ph1-St05-Compactor	I0501!Ph1-St05: Dewatering Building(9), Truck L	25.5	49.0	23.6	25.4	21.1	37.8	16.7	45.2
	Sc03abc-Ph1-St06-Compactor	I0501!Ph1-St06: Ozone Generator Building (4)	23.8	49.1	24.6	25.6	20.4	25.1	18.7	48.9
	Sc03abc-Ph1-St07-Compactor	I0501!Ph1-St07: Lox Tanks and Vaporizers (5)	23.9	48.5	26.1	26.5	20.9	27.5	18.7	49.0
	Sc03abc-Ph1-St11-Compactor	I0501!Ph1-St11: Ballasted Flocculation (1-NW)	44.3	47.5	44.7	35.9	28.8	34.3	18.2	45.9
	Sc03abc-Ph1-St13-Compactor	I0501!Ph1-St13: Intermediate Ozone Contactors (30.8	42.8	27.4	33.8	25.7	31.8	17.8	43.9
	Sc03abc-Ph1-St14-Compactor	I0501!Ph1-St14: Chemical Storage (17)	27.0	44.7	21.2	35.3	26.9	26.7	16.9	45.3
	Sc03abc-Ph1-St15-Compactor	I0501!Ph1-St15: Solids Xfer PP (13)	32.4	51.8	29.8	30.6	24.0	39.1	17.8	47.5
	Sc03abc-Ph1-St16-Compactor	I0501!Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	23.7	49.6	27.6	24.2	19.6	21.9	19.7	51.1
	Sc03abc-Ph1-St17-Compactor	I0501!Ph1-St17: Ozone Gas Destruct(8-N), Ozone	29.6	49.5	25.4	30.7	23.8	37.2	17.5	48.2
	Sc03abc-Ph1-St18-Compactor	I0501!Ph1-St18: Thickened Solids PP (12-N)	26.5	53.4	24.2	26.3	21.1	39.7	17.7	48.0
	Sc03abc-Ph1-St05-Welding	I0501!Ph1-St05: Dewatering Building(9), Truck L	18.6	39.9	17.2	19.0	14.4	32.8	9.7	40.9
	Sc03abc-Ph1-St05-Welding	I0501!Ph1-St05: Dewatering Building(9), Truck L	17.9	37.4	15.8	17.0	13.6	29.5	8.8	36.6
	Sc03abc-Ph1-St03-Welding	I0501!Ph2-St03: Ballasted Flocculation (1-SE)	31.6	28.0	30.6	33.4	32.6	20.4	10.1	31.1
	Sc03abc-Ph1-St04-Welding	I0501!Ph1-St04: Maintenance Building (15)	16.9	44.9	19.0	18.0	13.5	16.1	12.9	44.6
	Sc03abc-Ph1-St06-Welding	I0501!Ph1-St06: Ozone Generator Building (4)	17.8	44.2	18.1	19.5	14.5	18.7	12.8	44.3
	Sc03abc-Ph1-St07-Welding	I0501!Ph1-St07: Lox Tanks and Vaporizers (5)	18.0	43.9	18.6	20.2	15.2	20.1	12.6	44.8
	Sc03abc-Ph1-St08-Welding	I0501!Ph1-St08: Pre-Ozone Pumping Plant (6-N)	17.2	46.6	16.7	17.3	12.6	16.5	13.5	47.4
	Sc03abc-Ph1-St17-Welding	I0501!Ph1-St17: Ozone Gas Destruct(8-N), Ozone	24.2	45.0	19.2	24.2	18.4	31.0	11.0	42.4

CadnaA Scenario F = Scenario Phase 2.A

Name	ID	Behind Alfred Ave	Ramsay Cir	St. Stephen Church	Larkey Reservoir	Larkey Ln & Alfred Ave	Bria Ct	Summit Rd	Quail View Cir
Scenario F	I07*	56.3	64.6	55.2	57.5	62.2	53.5	37.4	67.2
Trucks - Scenario F	I070017876839	39.2	36.5	28.4	18.0	22.3	16.9	-0.9	36.4
Sc06-Ph1-St02-Backhoe	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	19.5	39.3	21.8	25.9	18.8	34.1	11.9	36.6
Sc06-Ph1-St02-Backhoe	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	20.5	44.9	19.1	17.6	13.8	16.8	13.5	46.2
Sc06-Ph1-St02-Backhoe	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	19.5	39.3	21.8	25.9	18.8	34.1	11.9	36.6
Sc06-Ph1-St02-Backhoe	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	20.5	44.9	19.1	17.6	13.8	16.8	13.5	46.2
Sc06-Ph1-St03-Backhoe	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	28.9	20.5	22.9	35.4	31.2	19.9	11.1	28.4
Sc06-Ph1-St03-Backhoe	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	28.9	20.5	22.9	35.4	31.2	19.9	11.1	28.4
Sc06-Ph1-St07-Backhoe	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	18.4	41.1	17.3	17.1	13.2	15.7	14.6	45.5
Sc06-Ph1-St07-Backhoe	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	18.4	41.1	17.3	17.1	13.2	15.7	14.6	45.5
Sc06-Ph1-St02-Bobcat	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	23.5	43.4	25.9	29.8	23.0	38.3	15.7	40.5
Sc06-Ph1-St02-Bobcat	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	24.5	49.0	23.1	21.7	17.8	20.8	17.5	50.2
Sc06-Ph1-St02-Bobcat	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	23.5	43.4	25.9	29.8	23.0	38.3	15.7	40.5
Sc06-Ph1-St02-Bobcat	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	24.5	49.0	23.1	21.7	17.8	20.8	17.5	50.2
Sc06-Ph1-St03-Bobcat	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	33.1	24.8	27.2	39.3	35.4	24.1	15.2	32.6
Sc06-Ph1-St03-Bobcat	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	33.1	24.8	27.2	39.3	35.4	24.1	15.2	32.6
Sc06-Ph1-St05-Bobcat	I0701!Ph2-St05: Intermediate Ozone Contactors(3	41.7	25.2	41.2	39.5	48.4	23.7	15.2	28.6
Sc06-Ph1-St05-Bobcat	I0701!Ph2-St05: Intermediate Ozone Contactors(3	41.7	25.2	41.2	39.5	48.4	23.7	15.2	28.6
Sc06-Ph1-St06-Bobcat	I0701!Ph2-St06: Gravity Thickeners (11-S)	24.5	46.6	22.5	24.8	19.6	37.8	15.6	47.8
Sc06-Ph1-St06-Bobcat	I0701!Ph2-St06: Gravity Thickeners (11-S)	24.5	46.6	22.5	24.8	19.6	37.8	15.6	47.8
Sc06-Ph1-St07-Bobcat	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	22.3	45.0	21.4	21.2	17.3	19.7	18.6	50.1
Sc06-Ph1-St07-Bobcat	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	31.7	36.3	30.2	40.9	36.0	24.2	15.0	41.0
Sc06-Ph1-St07-Bobcat	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	22.3	45.0	21.4	21.2	17.3	19.7	18.6	50.1
Sc06-Ph1-St07-Bobcat	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	31.7	36.3	30.2	40.9	36.0	24.2	15.0	41.0
Sc06-Ph1-St03-Compressor	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	17.8	9.3	11.8	23.5	19.9	8.7	0.0	16.5
Sc06-Ph1-St03-Compressor	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	17.8	9.3	11.8	23.5	19.9	8.7	0.0	16.5
Sc06-Ph1-St05-Compressor	I0701!Ph2-St05: Intermediate Ozone Contactors(3	25.9	9.7	25.3	23.8	32.4	8.5	0.2	12.8
Sc06-Ph1-St05-Compressor	I0701!Ph2-St05: Intermediate Ozone Contactors(3	25.9	9.7	25.3	23.8	32.4	8.5	0.2	12.8
Sc06-Ph1-St06-Compressor	I0701!Ph2-St06: Gravity Thickeners (11-S)	9.2	30.8	7.3	9.6	4.2	22.0	0.4	31.8
Sc06-Ph1-St06-Compressor	I0701!Ph2-St06: Gravity Thickeners (11-S)	9.2	30.8	7.3	9.6	4.2	22.0	0.4	31.8
Sc06-Ph1-St07-Compressor	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	7.2	29.3	6.6	6.0	2.1	4.5	3.4	33.7
Sc06-Ph1-St07-Compressor	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	7.2	29.3	6.6	6.0	2.1	4.5	3.4	33.7
Sc06-Ph1-St02-Concrete	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	24.4	44.3	26.7	30.7	24.0	39.1	16.5	41.5
Sc06-Ph1-St02-Concrete	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	25.3	49.9	24.0	22.6	18.7	21.7	18.3	51.4
Sc06-Ph1-St02-Concrete	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	24.4	44.3	26.7	30.7	24.0	39.1	16.5	41.5
Sc06-Ph1-St02-Concrete	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	25.3	49.9	24.0	22.6	18.7	21.7	18.3	51.4
Sc06-Ph1-St07-Concrete	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	37.3	41.9	35.6	46.7	41.4	29.9	20.7	46.1
Sc06-Ph1-St07-Concrete	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	37.3	41.9	35.6	46.7	41.4	29.9	20.7	46.1
Sc06-Ph1-St05-Concrete	I0701!Ph2-St05: Intermediate Ozone Contactors(3	48.5	31.9	48.2	46.5	55.5	30.6	22.1	35.3
Sc06-Ph1-St05-Concrete	I0701!Ph2-St05: Intermediate Ozone Contactors(3	48.5	31.9	48.2	46.5	55.5	30.6	22.1	35.3
Sc06-Ph1-St06-Concrete	I0701!Ph2-St06: Gravity Thickeners (11-S)	31.5	53.8	29.5	31.7	26.5	44.8	22.5	55.1
Sc06-Ph1-St06-Concrete	I0701!Ph2-St06: Gravity Thickeners (11-S)	31.5	53.8	29.5	31.7	26.5	44.8	22.5	55.1
Sc06-Ph1-St07-Concrete	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	29.2	52.2	28.2	28.2	24.2	26.6	25.6	57.1
Sc06-Ph1-St07-Concrete	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	29.2	52.2	28.2	28.2	24.2	26.6	25.6	57.1
Sc06-Ph1-St03-Crane	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	30.9	23.2	25.6	36.5	34.8	21.6	12.8	30.6
Sc06-Ph1-St03-Crane	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	30.9	23.2	25.6	36.5	34.8	21.6	12.8	30.6
Sc06-Ph1-St05-Crane	I0701!Ph2-St05: Intermediate Ozone Contactors(3	40.5	23.3	38.2	36.6	45.8	21.3	12.8	27.4
Sc06-Ph1-St05-Crane	I0701!Ph2-St05: Intermediate Ozone Contactors(3	40.5	23.3	38.2	36.6	45.8	21.3	12.8	27.4
Sc06-Ph1-St06-Dozer	I0701!Ph2-St06: Gravity Thickeners (11-S)	24.5	46.6	22.5	24.8	19.6	37.8	15.6	47.8
Sc06-Ph1-St06-Dozer	I0701!Ph2-St06: Gravity Thickeners (11-S)	24.5	46.6	22.5	24.8	19.6	37.8	15.6	47.8
Sc06-Ph1-St07-Dozer	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	22.3	45.0	21.4	21.2	17.3	19.7	18.6	50.1
Sc06-Ph1-St07-Dozer	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	31.7	36.3	30.2	40.9	36.0	24.2	15.0	41.0
Sc06-Ph1-St07-Dozer	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	22.3	45.0	21.4	21.2	17.3	19.7	18.6	50.1
Sc06-Ph1-St07-Dozer	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	31.7	36.3	30.2	40.9	36.0	24.2	15.0	41.0
Sc06-Ph1-St02-Dump Truck	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	25.6	45.0	28.5	32.4	25.4	40.7	17.9	42.6
Sc06-Ph1-St02-Dump Truck	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	27.3	50.4	25.8	24.2	20.4	23.4	19.6	52.2
Sc06-Ph1-St02-Dump Truck	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	25.6	45.0	28.5	32.4	25.4	40.7	17.9	42.6
Sc06-Ph1-St02-Dump Truck	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	27.3	50.4	25.8	24.2	20.4	23.4	19.6	52.2
Sc06-Ph1-St03-Dump Truck	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	37.3	29.1	31.5	43.4	39.6	28.3	19.6	36.6
Sc06-Ph1-St03-Dump Truck	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	37.3	29.1	31.5	43.4	39.6	28.3	19.6	36.6
Sc06-Ph1-St05-Dump Truck	I0701!Ph2-St05: Intermediate Ozone Contactors(3	45.8	29.5	45.0	43.5	52.2	28.1	19.7	32.8
Sc06-Ph1-St05-Dump Truck	I0701!Ph2-St05: Intermediate Ozone Contactors(3	45.8	29.5	45.0	43.5	52.2	28.1	19.7	32.8
Sc06-Ph1-St06-Dump Truck	I0701!Ph2-St06: Gravity Thickeners (11-S)	28.5	50.4	26.8	29.2	23.4	41.8	19.9	51.2
Sc06-Ph1-St06-Dump Truck	I0701!Ph2-St06: Gravity Thickeners (11-S)	28.5	50.4	26.8	29.2	23.4	41.8	19.9	51.2

Source Name	ID	Partial Level Day								
		Behind Alfred Ave	Ramsay Cir	St. Stephen Church	Larkey Reservoir	Larkey Ln & Alfred Ave	Bria Ct	Summit Rd	Quail View Cir	
Scenario F	I07*									
Sc06-Ph1-St07-Dump Truck	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	26.7	48.9	25.8	25.5	21.7	24.1	22.9	54.1	
Sc06-Ph1-St07-Dump Truck	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	35.9	40.5	34.4	44.9	40.0	28.4	19.4	44.0	
Sc06-Ph1-St07-Dump Truck	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	26.7	48.9	25.8	25.5	21.7	24.1	22.9	54.1	
Sc06-Ph1-St07-Dump Truck	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	35.9	40.5	34.4	44.9	40.0	28.4	19.4	44.0	
Sc06-Ph1-St02-Excavator	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	18.9	38.3	21.9	25.8	18.8	34.3	11.2	35.8	
Sc06-Ph1-St02-Excavator	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	20.7	43.9	20.6	17.5	13.8	16.7	13.0	45.4	
Sc06-Ph1-St02-Excavator	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	18.9	38.3	21.9	25.8	18.8	34.3	11.2	35.8	
Sc06-Ph1-St02-Excavator	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	20.7	43.9	20.6	17.5	13.8	16.7	13.0	45.4	
Sc06-Ph1-St03-Excavator	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	29.1	21.1	23.5	34.7	32.8	20.0	11.3	28.4	
Sc06-Ph1-St03-Excavator	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	29.1	21.1	23.5	34.7	32.8	20.0	11.3	28.4	
Sc06-Ph1-St05-Excavator	I0701!Ph2-St05: Intermediate Ozone Contactors(3	37.9	21.3	36.4	34.8	43.8	19.7	11.3	25.0	
Sc06-Ph1-St05-Excavator	I0701!Ph2-St05: Intermediate Ozone Contactors(3	37.9	21.3	36.4	34.8	43.8	19.7	11.3	25.0	
Sc06-Ph1-St06-Excavator	I0701!Ph2-St06: Gravity Thickeners (11-S)	20.1	41.7	18.4	20.7	14.9	33.1	11.5	42.7	
Sc06-Ph1-St06-Excavator	I0701!Ph2-St06: Gravity Thickeners (11-S)	20.1	41.7	18.4	20.7	14.9	33.1	11.5	42.7	
Sc06-Ph1-St07-Excavator	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	18.3	40.1	17.6	17.1	13.3	15.7	14.5	45.7	
Sc06-Ph1-St07-Excavator	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	27.6	32.2	26.5	36.2	32.7	20.0	11.0	36.1	
Sc06-Ph1-St07-Excavator	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	18.3	40.1	17.6	17.1	13.3	15.7	14.5	45.7	
Sc06-Ph1-St07-Excavator	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	27.6	32.2	26.5	36.2	32.7	20.0	11.0	36.1	
Sc06-Ph1-St02-Forklift	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	14.6	34.5	16.9	20.9	14.0	29.3	6.9	31.6	
Sc06-Ph1-St02-Forklift	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	15.6	40.2	14.2	12.6	8.9	11.8	8.6	41.2	
Sc06-Ph1-St02-Forklift	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	14.6	34.5	16.9	20.9	14.0	29.3	6.9	31.6	
Sc06-Ph1-St02-Forklift	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	15.6	40.2	14.2	12.6	8.9	11.8	8.6	41.2	
Sc06-Ph1-St03-Forklift	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	24.2	15.9	18.3	30.3	27.8	15.1	6.3	23.6	
Sc06-Ph1-St03-Forklift	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	24.2	15.9	18.3	30.3	27.8	15.1	6.3	23.6	
Sc06-Ph1-St05-Forklift	I0701!Ph2-St05: Intermediate Ozone Contactors(3	32.8	16.2	32.1	30.5	39.4	14.8	6.3	19.7	
Sc06-Ph1-St05-Forklift	I0701!Ph2-St05: Intermediate Ozone Contactors(3	32.8	16.2	32.1	30.5	39.4	14.8	6.3	19.7	
Sc06-Ph1-St06-Forklift	I0701!Ph2-St06: Gravity Thickeners (11-S)	15.5	37.5	13.5	15.9	10.7	28.8	6.7	38.7	
Sc06-Ph1-St06-Forklift	I0701!Ph2-St06: Gravity Thickeners (11-S)	15.5	37.5	13.5	15.9	10.7	28.8	6.7	38.7	
Sc06-Ph1-St07-Forklift	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	13.4	36.0	12.6	12.2	8.3	10.7	9.7	41.1	
Sc06-Ph1-St07-Forklift	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	13.4	36.0	12.6	12.2	8.3	10.7	9.7	41.1	
Sc06-Ph1-St03-Loader	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	27.4	19.0	21.4	33.4	31.0	18.1	9.2	26.7	
Sc06-Ph1-St03-Loader	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	27.4	19.0	21.4	33.4	31.0	18.1	9.2	26.7	
Sc06-Ph1-St05-Loader	I0701!Ph2-St05: Intermediate Ozone Contactors(3	36.1	19.3	35.3	33.6	42.9	17.8	9.2	22.9	
Sc06-Ph1-St05-Loader	I0701!Ph2-St05: Intermediate Ozone Contactors(3	36.1	19.3	35.3	33.6	42.9	17.8	9.2	22.9	
Sc06-Ph1-St06-Loader	I0701!Ph2-St06: Gravity Thickeners (11-S)	18.7	40.9	16.6	18.8	13.8	31.9	9.7	42.3	
Sc06-Ph1-St06-Loader	I0701!Ph2-St06: Gravity Thickeners (11-S)	18.7	40.9	16.6	18.8	13.8	31.9	9.7	42.3	
Sc06-Ph1-St07-Loader	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	16.4	39.3	15.4	15.2	11.3	13.7	12.7	44.4	
Sc06-Ph1-St07-Loader	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	16.4	39.3	15.4	15.2	11.3	13.7	12.7	44.4	
Sc06-Ph1-St03-Form Builder	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	20.9	10.2	12.5	26.0	19.3	10.9	1.1	12.1	
Sc06-Ph1-St03-Form Builder	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	20.9	10.2	12.5	26.0	19.3	10.9	1.1	12.1	
Sc06-Ph1-St05-Form Builder	I0701!Ph2-St05: Intermediate Ozone Contactors(3	26.9	10.5	25.6	25.9	30.7	10.0	1.1	12.4	
Sc06-Ph1-St05-Form Builder	I0701!Ph2-St05: Intermediate Ozone Contactors(3	26.9	10.5	25.6	25.9	30.7	10.0	1.1	12.4	
Sc06-Ph1-St06-Form Builder	I0701!Ph2-St06: Gravity Thickeners (11-S)	17.3	39.6	14.6	15.8	12.3	29.6	7.4	44.1	
Sc06-Ph1-St06-Form Builder	I0701!Ph2-St06: Gravity Thickeners (11-S)	17.3	39.6	14.6	15.8	12.3	29.6	7.4	44.1	
Sc06-Ph1-St07-Form Builder	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	15.9	40.3	14.5	15.4	11.1	13.6	12.8	42.2	
Sc06-Ph1-St07-Form Builder	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	25.6	28.1	22.1	35.1	25.9	18.5	8.7	31.2	
Sc06-Ph1-St07-Form Builder	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	15.9	40.3	14.5	15.4	11.1	13.6	12.8	42.2	
Sc06-Ph1-St07-Form Builder	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	25.6	28.1	22.1	35.1	25.9	18.5	8.7	31.2	
Sc06-Ph1-St03-Compactor	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	35.2	26.9	29.4	41.1	37.4	26.2	17.5	34.2	
Sc06-Ph1-St03-Compactor	I0701!Ph2-St03: Ballasted Flocculation (1-SE)	35.2	26.9	29.4	41.1	37.4	26.2	17.5	34.2	
Sc06-Ph1-St05-Compactor	I0701!Ph2-St05: Intermediate Ozone Contactors(3	43.5	27.3	42.7	41.3	49.7	26.1	17.7	30.5	
Sc06-Ph1-St05-Compactor	I0701!Ph2-St05: Intermediate Ozone Contactors(3	43.5	27.3	42.7	41.3	49.7	26.1	17.7	30.5	
Sc06-Ph1-St06-Compactor	I0701!Ph2-St06: Gravity Thickeners (11-S)	26.5	48.1	24.8	27.1	21.6	39.6	18.0	48.8	
Sc06-Ph1-St06-Compactor	I0701!Ph2-St06: Gravity Thickeners (11-S)	26.5	48.1	24.8	27.1	21.6	39.6	18.0	48.8	
Sc06-Ph1-St07-Compactor	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	24.8	46.6	24.1	23.4	19.6	22.0	20.9	51.3	
Sc06-Ph1-St07-Compactor	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	24.8	46.6	24.1	23.4	19.6	22.0	20.9	51.3	

CadnaA Scenario G = Scenario Phase 2.B

Source	Name	ID	Partial Level Day							Summit Rd	Quail View Cir
			Behind Alfred Ave	Ramsay Cir	St. Stephen Church	Larkey Reservoir	Larkey Ln & Alfred Ave	Bria Ct			
Scenario G	Trucks - Scenario G	I08*	51.7	61.6	50.3	53.4	61.7	51.0	32.8	63.1	
	Sc07-Ph1-St09-Backhoe	I0800!7876839	39.2	36.5	28.4	18.0	22.3	16.9	-0.9	36.4	
	Sc07-Ph1-St09-Backhoe	I0801!Ph2-St09: Thickened Solids PP (12-S)	20.4	42.6	18.4	20.0	15.7	34.7	11.6	43.3	
	Sc07-Ph1-St09-Backhoe	I0801!Ph2-St10:Q Offhaul excavation, grading/pa	23.7	14.2	19.5	22.7	46.5	18.2	8.8	17.4	
	Sc07-Ph1-St03-Bobcat	I0801!Ph2-St10:Q Offhaul excavation, grading/pa	18.9	44.9	19.4	17.6	13.8	16.5	13.5	46.2	
	Sc07-Ph1-St03-Bobcat	I0801!Ph2-St03: Ballasted Flocculation (1-SE)	33.1	24.8	27.2	39.3	35.4	24.1	15.2	32.6	
	Sc07-Ph1-St05-Bobcat	I0801!Ph2-St05: Intermediate Ozone Contactors(3	41.7	25.2	41.2	39.5	48.4	23.7	15.2	28.6	
	Sc07-Ph1-St06-Bobcat	I0801!Ph2-St06: Gravity Thickeners (11-S)	24.5	46.6	22.5	24.8	19.6	37.8	15.6	47.8	
	Sc07-Ph1-St07-Bobcat	I0801!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	31.7	36.3	30.2	40.9	36.0	24.2	15.0	41.0	
	Sc07-Ph1-St09-Bobcat	I0801!Ph2-St09: Thickened Solids PP (12-S)	24.4	46.6	22.5	24.1	19.6	38.5	15.6	47.7	
	Sc07-Ph1-St10-Bobcat	I0801!Ph2-St10:Q Offhaul excavation, grading/pa	27.8	18.2	23.9	26.7	50.8	22.2	12.6	21.5	
	Sc07-Ph1-St10-Bobcat	I0801!Ph2-St10:Q Offhaul excavation, grading/pa	23.0	49.0	23.4	21.7	17.8	20.6	17.5	50.2	
	Sc07-Ph1-St03-Compressor	I0801!Ph2-St03: Ballasted Flocculation (1-SE)	17.8	9.3	11.8	23.5	19.9	8.7	0.0	16.5	
	Sc07-Ph1-St05-Compressor	I0801!Ph2-St05: Intermediate Ozone Contactors(3	25.9	9.7	25.3	23.8	32.4	8.5	0.2	12.8	
	Sc07-Ph1-St06-Compressor	I0801!Ph2-St06: Gravity Thickeners (11-S)	9.2	30.8	7.3	9.6	4.2	22.0	0.4	31.8	
	Sc07-Ph1-St07-Compressor	I0801!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	16.2	20.3	14.5	25.1	19.8	8.9	-0.1	24.5	
	Sc07-Ph1-St09-Compressor	I0801!Ph2-St09: Thickened Solids PP (12-S)	9.1	30.8	7.2	8.5	4.2	22.8	0.4	31.7	
	Sc07-Ph1-St10-Concrete	I0801!Ph2-St10:Q Offhaul excavation, grading/pa	33.7	23.8	29.2	32.3	56.7	27.9	18.1	27.0	
	Sc07-Ph1-St10-Concrete	I0801!Ph2-St10:Q Offhaul excavation, grading/pa	28.5	54.7	29.1	27.4	23.5	26.2	23.0	56.2	
	Sc07-Ph1-St03-Concrete	I0801!Ph2-St03: Ballasted Flocculation (1-SE)	40.1	31.6	34.0	46.3	42.2	31.0	22.0	39.3	
	Sc07-Ph1-St05-Concrete	I0801!Ph2-St05: Intermediate Ozone Contactors(3	48.5	31.9	48.2	46.5	55.5	30.6	22.1	35.3	
	Sc07-Ph1-St06-Concrete	I0801!Ph2-St06: Gravity Thickeners (11-S)	31.5	53.8	29.5	31.7	26.5	44.8	22.5	55.1	
	Sc07-Ph1-St07-Concrete	I0801!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	38.6	43.2	36.9	47.9	42.6	31.1	21.9	47.3	
	Sc07-Ph1-St09-Concrete	I0801!Ph2-St09: Thickened Solids PP (12-S)	31.5	53.7	29.4	30.9	26.5	45.5	22.5	55.0	
	Sc07-Ph1-St03-crane	I0801!Ph2-St03: Ballasted Flocculation (1-SE)	27.9	20.2	22.6	33.5	31.8	18.6	9.7	27.6	
	Sc07-Ph1-St05-Crane	I0801!Ph2-St05: Intermediate Ozone Contactors(3	37.5	20.3	35.2	33.6	42.7	18.2	9.8	24.4	
	Sc07-Ph1-St06-Crane	I0801!Ph2-St06: Gravity Thickeners (11-S)	18.7	40.6	17.0	19.3	13.6	31.9	10.0	41.6	
	Sc07-Ph1-St07-Crane	I0801!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	26.5	31.4	25.7	35.0	32.8	18.6	9.5	35.2	
	Sc07-Ph1-St09-Dump Truck	I0801!Ph2-St09: Thickened Solids PP (12-S)	28.5	50.4	26.8	28.4	23.4	42.5	19.8	51.1	
	Sc07-Ph1-St10-Dump Truck	I0801!Ph2-St10:Q Offhaul excavation, grading/pa	31.8	22.4	27.9	31.0	54.4	26.0	16.6	25.9	
	Sc07-Ph1-St10-Dump Truck	I0801!Ph2-St10:Q Offhaul excavation, grading/pa	27.3	52.2	27.8	25.9	22.2	24.9	21.4	54.0	
	Sc07-Ph1-St03-Forklift	I0801!Ph2-St03: Ballasted Flocculation (1-SE)	24.2	15.9	18.3	30.3	27.8	15.1	6.3	23.6	
	Sc07-Ph1-St05-Forklift	I0801!Ph2-St05: Intermediate Ozone Contactors(3	32.8	16.2	32.1	30.5	39.4	14.8	6.3	19.7	
	Sc07-Ph1-St06-Forklift	I0801!Ph2-St06: Gravity Thickeners (11-S)	15.5	37.5	13.5	15.9	10.7	28.8	6.7	38.7	
	Sc07-Ph1-St07-Forklift	I0801!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	22.7	27.4	21.2	31.9	27.1	15.2	6.0	32.3	
	Sc07-Ph1-St09-Forklift	I0801!Ph2-St09: Thickened Solids PP (12-S)	15.5	37.5	13.5	15.3	10.7	29.5	6.7	38.6	
	Sc07-Ph1-St09-Loader	I0801!Ph2-St09: Thickened Solids PP (12-S)	18.6	40.9	16.5	18.5	13.7	32.6	9.6	42.2	
	Sc07-Ph1-St10-Loader	I0801!Ph2-St10:Q Offhaul excavation, grading/pa	22.1	12.3	18.0	20.8	45.7	16.4	6.7	15.6	
	Sc07-Ph1-St10-Loader	I0801!Ph2-St10:Q Offhaul excavation, grading/pa	17.0	43.5	17.5	15.8	11.8	14.6	11.6	44.7	
	Sc07-Ph1-St09-Form Builder	I0801!Ph2-St09: Thickened Solids PP (12-S)	17.3	39.2	14.5	14.8	12.3	30.4	7.4	44.1	
	Sc07-Ph1-St06-Form Builder	I0801!Ph2-St06: Gravity Thickeners (11-S)	18.6	40.9	15.8	17.1	13.6	30.8	8.7	45.4	
	Sc07-Ph1-St03-Form Builder	I0801!Ph2-St03: Ballasted Flocculation (1-SE)	27.9	17.2	19.5	33.0	26.3	17.9	8.1	19.1	
	Sc07-Ph1-St05-Form Builder	I0801!Ph2-St05: Intermediate Ozone Contactors(3	34.7	18.3	33.4	33.7	38.5	17.7	8.8	20.1	
	Sc07-Ph1-St07-Form Builder	I0801!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	26.3	28.9	22.9	35.9	26.7	19.3	9.5	32.0	
	Sc07-Ph1-St09-Compactor	I0801!Ph2-St09: Thickened Solids PP (12-S)	26.5	48.1	24.7	26.1	21.6	40.3	17.9	48.6	
	Sc07-Ph1-St06-Welding	I0801!Ph2-St06: Gravity Thickeners (11-S)	18.8	40.7	16.7	18.8	14.1	31.7	9.8	44.1	
	Sc07-Ph1-St03-Welding	I0801!Ph2-St03: Ballasted Flocculation (1-SE)	28.8	19.8	22.2	35.0	28.2	19.7	10.4	27.4	
	Sc07-Ph1-St05-Welding	I0801!Ph2-St05: Intermediate Ozone Contactors(3	36.3	20.2	35.7	35.1	42.1	19.6	11.1	23.2	
	Sc07-Ph1-St07-Welding	I0801!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	26.8	31.2	24.9	36.6	29.3	20.0	10.9	35.0	

Phase 1 Concrete Pour Operations only

Source		Partial Level Day								
Name	ID	Behind Alfred Ave	Ramsay Cir	St. Stephen Church	Larkey Reservoir	Larkey Ln & Alfred Ave	Bria C	Summit Rd	Quail View C	
Sc01-Ph1-St02-Concrete	I0201!Ph1-St02: Yard Piping and Electrical Duct	38.2	48.5	24.8	24.0	21.4	33.2	16.3	49.6	
Sc02ab-Ph1-St03-Concrete	I0301!Ph1-St03: Electrical Facilities (14)	28.8	55.8	28.1	29.9	25.0	30.2	23.2	55.9	
Sc02ab-Ph1-St04-Concrete	I0301!Ph1-St04: Maintenance Building (15)	28.4	56.2	32.1	29.6	24.5	28.1	23.5	56.5	
Sc02ab-Ph1-St05-Concrete	I0301!Ph1-St05: Dewatering Building(9), Truck L	31.2	55.0	30.1	31.8	26.9	45.9	22.3	55.0	
Sc02ab-Ph1-St05-Concrete	I0301!Ph1-St05: Dewatering Building(9), Truck L	30.6	55.8	28.5	30.0	26.1	42.9	21.2	50.9	
Sc02ab-Ph1-St06-Concrete	I0301!Ph1-St06: Ozone Generator Building (4)	27.4	53.3	27.8	29.3	24.0	28.6	22.2	54.2	
Sc02ab-Ph1-St07-Concrete	I0301!Ph1-St07: Lox Tanks and Vaporizers (5)	27.6	52.7	29.3	30.2	24.6	30.9	22.0	53.4	
Sc02ab-Ph1-St08-Concrete	I0301!Ph1-St08: Pre-Ozone Pumping Plant (6-N)	28.2	56.6	27.7	28.3	23.4	27.5	24.3	59.0	
Sc02ab-Ph1-St10-Concrete	I0301!Ph1-St10: Combined Reclaim Metering Vault	28.9	52.8	28.6	28.3	23.1	27.8	25.9	62.0	
Sc02ab-Ph1-St16-Concrete	I0301!Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	28.2	55.1	32.1	29.1	24.2	26.7	24.5	57.3	
Sc02ab-Ph1-St18-Concrete	I0301!Ph1-St18: Thickened Solids PP (12-N)	31.3	59.1	29.7	30.8	26.1	44.9	22.2	55.2	
Sc02c-Ph1-St03-Concrete	I0401!Ph2-St03: Ballasted Flocculation (1-SE)	43.7	41.7	43.2	45.4	46.8	32.0	21.4	44.7	
Sc02c-Ph1-St04-Concrete	I0401!Ph1-St04: Maintenance Building (15)	28.4	56.2	32.1	29.6	24.5	28.1	23.5	56.5	
Sc02c-Ph1-St05-Concrete	I0401!Ph1-St05: Dewatering Building(9), Truck L	31.2	55.0	30.1	31.8	26.9	45.9	22.3	55.0	
Sc02c-Ph1-St05-Concrete	I0401!Ph1-St05: Dewatering Building(9), Truck L	30.6	55.8	28.5	30.0	26.1	42.9	21.2	50.9	
Sc02c-Ph1-St06-Concrete	I0401!Ph1-St06: Ozone Generator Building (4)	28.7	54.6	29.1	30.6	25.2	29.8	23.5	55.4	
Sc02c-Ph1-St07-Concrete	I0401!Ph1-St07: Lox Tanks and Vaporizers (5)	28.8	54.0	30.5	31.4	25.9	32.2	23.3	54.7	
Sc02c-Ph1-St08-Concrete	I0401!Ph1-St08: Pre-Ozone Pumping Plant (6-N)	28.2	56.6	27.7	28.3	23.4	27.5	24.3	59.0	
Sc02c-Ph1-St10-Concrete	I0401!Ph1-St10: Combined Reclaim Metering Vault	28.9	52.8	28.6	28.3	23.1	27.8	25.9	62.0	
Sc02c-Ph1-St16-Concrete	I0401!Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	28.2	55.1	32.1	29.1	24.2	26.7	24.5	57.3	
Sc02c-Ph1-St18-Concrete	I0401!Ph1-St18: Thickened Solids PP (12-N)	31.3	59.1	29.7	30.8	26.1	44.9	22.2	55.2	
Sc02c-Ph1-St19-Concrete	I0401!Ph1-St19: Hydrogen Peroxide Station(18-E)	68.0	41.1	53.7	32.0	41.6	27.6	19.4	36.4	
Sc03abc-Ph1-St03-Concrete	I0501!Ph2-St03: Ballasted Flocculation (1-SE)	43.7	41.7	43.2	45.4	46.8	32.0	21.4	44.7	
Sc03abc-Ph1-St04-Concrete	I0501!Ph1-St04: Maintenance Building (15)	28.4	56.2	32.1	29.6	24.5	28.1	23.5	56.5	
Sc03abc-Ph1-St05-Concrete	I0501!Ph1-St05: Dewatering Building(9), Truck L	31.2	55.0	30.1	31.8	26.9	45.9	22.3	55.0	
Sc03abc-Ph1-St05-Concrete	I0501!Ph1-St05: Dewatering Building(9), Truck L	30.6	55.8	28.5	30.0	26.1	42.9	21.2	50.9	
Sc03abc-Ph1-St06-Concrete	I0501!Ph1-St06: Ozone Generator Building (4)	28.7	54.6	29.1	30.6	25.2	29.8	23.5	55.4	
Sc03abc-Ph1-St07-Concrete	I0501!Ph1-St07: Lox Tanks and Vaporizers (5)	28.8	54.0	30.5	31.4	25.9	32.2	23.3	54.7	
Sc03abc-Ph1-St08-Concrete	I0501!Ph1-St08: Pre-Ozone Pumping Plant (6-N)	28.2	56.6	27.7	28.3	23.4	27.5	24.3	59.0	
Sc03abc-Ph1-St10-Concrete	I0501!Ph1-St10: Combined Reclaim Metering Vault	28.9	52.8	28.6	28.3	23.1	27.8	25.9	62.0	
Sc03abc-Ph1-St11-Concrete	I0501!Ph1-St11: Ballasted Flocculation (1-NW)	49.6	53.3	51.1	40.6	33.7	38.9	22.5	51.7	
Sc03abc-Ph1-St13-Concrete	I0501!Ph1-St13: Intermediate Ozone Contactors (36.3	48.3	32.2	39.4	30.9	36.4	22.3	49.5	
Sc03abc-Ph1-St14-Concrete	I0501!Ph1-St14: Chemical Storage (17)	32.4	50.0	26.1	40.1	32.0	31.7	21.4	50.7	
Sc03abc-Ph1-St15-Concrete	I0501!Ph1-St15: Solids Xfer PP (13)	37.3	56.9	34.5	35.1	28.9	44.3	22.2	52.9	
Sc03abc-Ph1-St16-Concrete	I0501!Ph1-St16: Ozone Gas Destruct(8-W), Hydrog	28.2	55.1	32.1	29.1	24.2	26.7	24.5	57.3	
Sc03abc-Ph1-St17-Concrete	I0501!Ph1-St17: Ozone Gas Destruct(8-N), Ozone	35.0	55.1	30.4	35.2	29.1	42.1	22.0	53.9	
Sc03abc-Ph1-St18-Concrete	I0501!Ph1-St18: Thickened Solids PP (12-N)	31.3	59.1	29.7	30.8	26.1	44.9	22.2	55.2	
Sc03abc-Ph1-St19-Concrete	I0501!Ph1-St19: Hydrogen Peroxide Station(18-E)	66.7	39.8	52.4	30.8	40.3	26.3	18.1	35.1	

Phase 2 Concrete Pour Operations only

Source		Partial Level Day								
Name	ID	Behind Alfred Ave	Ramsay Cir	St. Stephen Church	Larkey Reservoir	Larkey Ln & Alfred Ave	Bria C	Summit Rd	Quail View C	
Sc06-Ph1-St02-Concrete	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	24.4	44.3	26.7	30.7	24.0	39.1	16.5	41.5	
Sc06-Ph1-St02-Concrete	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	25.3	49.9	24.0	22.6	18.7	21.7	18.3	51.4	
Sc06-Ph1-St02-Concrete	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	24.4	44.3	26.7	30.7	24.0	39.1	16.5	41.5	
Sc06-Ph1-St02-Concrete	I0701!Ph2-St02: Phase 2 Yard Piping and Electri	25.3	49.9	24.0	22.6	18.7	21.7	18.3	51.4	
Sc06-Ph1-St05-Concrete	I0701!Ph2-St05: Intermediate Ozone Contactors(3	48.5	31.9	48.2	46.5	55.5	30.6	22.1	35.3	
Sc06-Ph1-St05-Concrete	I0701!Ph2-St05: Intermediate Ozone Contactors(3	48.5	31.9	48.2	46.5	55.5	30.6	22.1	35.3	
Sc06-Ph1-St06-Concrete	I0701!Ph2-St06: Gravity Thickeners (11-S)	31.5	53.8	29.5	31.7	26.5	44.8	22.5	55.1	
Sc06-Ph1-St06-Concrete	I0701!Ph2-St06: Gravity Thickeners (11-S)	31.5	53.8	29.5	31.7	26.5	44.8	22.5	55.1	
Sc06-Ph1-St07-Concrete	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	37.3	41.9	35.6	46.7	41.4	29.9	20.7	46.1	
Sc06-Ph1-St07-Concrete	I0701!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	37.3	41.9	35.6	46.7	41.4	29.9	20.7	46.1	
Sc06-Ph1-St07-Concrete	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	29.2	52.2	28.2	28.2	24.2	26.6	25.6	57.1	
Sc06-Ph1-St07-Concrete	I0701!Ph2-St07: Pre-Ozone Pumping Plant (6-S)	29.2	52.2	28.2	28.2	24.2	26.6	25.6	57.1	
Sc07-Ph1-St03-Concrete	I0801!Ph2-St03: Ballasted Flocculation (1-SE)	40.1	31.6	34.0	46.3	42.2	31.0	22.0	39.3	
Sc07-Ph1-St05-Concrete	I0801!Ph2-St05: Intermediate Ozone Contactors(3	48.5	31.9	48.2	46.5	55.5	30.6	22.1	35.3	
Sc07-Ph1-St06-Concrete	I0801!Ph2-St06: Gravity Thickeners (11-S)	31.5	53.8	29.5	31.7	26.5	44.8	22.5	55.1	
Sc07-Ph1-St07-Concrete	I0801!Ph2-St08: Ozone Gas Destruct(8-SE), Ozone	38.6	43.2	36.9	47.9	42.6	31.1	21.9	47.3	
Sc07-Ph1-St09-Concrete	I0801!Ph2-St09: Thickened Solids PP (12-S)	31.5	53.7	29.4	30.9	26.5	45.5	22.5	55.0	
Sc07-Ph2-St10-Concrete	I0801!Ph2-St10:Q Offhaul excavation, grading/pa	33.7	23.8	29.2	32.3	56.7	27.9	18.1	27.0	
Sc07-Ph2-St10-Concrete	I0801!Ph2-St10:Q Offhaul excavation, grading/pa	28.5	54.7	29.1	27.4	23.5	26.2	23.0	56.2	

Operations

Noise levels from operations of ballasted flocculation basins were provided by EBMUD from three facilities measured in 2015. The data was provided at different distances and measurement conditions. Wilson Ihrig extrapolated all the results to 100 ft and calculated an average as summarized below:

- Fairfield WTP 56.4 dBA average level at 100 ft (adjusted as free-field conditions)
- Walnut Creek WTP 51.3 dBA average level at 100 ft
- West Sacramento WTP 51.3 dBA average level at 100 ft
- Average all facilities 53.0 dBA

CadnaA Operations Noise Modeling Results

Source		Partial Level Day								
Name	M. ID	Behind Alfred Ave	Ramsay Cir	St. Stephen Church	Larkey Reservoir	Larkey Ln & Alfred Ave	Bria Ct	Summit Rd	Quail View Cir	
Operations_Phase_1.shp	!0A*	28.2	25.1	27.6	16.8	14.2	17.4	-2.2	28.5	
N Filter	!0A!Existing Filter North, 47 dBA at 100 ft	25.5	5.2	24	-4.9	5	-4.1	-12.2	-0.8	
S Filter	!0A!Existing Filter South, 47 dBA at 100 ft	16.4	12.6	16.4	13.7	12.7	1.7	-10.2	17.6	
Elec Bldg Transformers	!0A!Electrical Building Transformers	-27.9	0.2	-28.8	-27.1	-31.7	-24.1	-33.4	-1.6	
Dewater Pump	!0A!Dewatering Pump (Indoor)	-13.9	8.8	-15.1	-13.3	-17.6	2	-22.6	9.9	
N Ballasted Flocc	!0A!North Ballasted Flocculation	24.1	24	24.5	13.8	6.4	17	-3.7	27.8	
E Ozone PP	!0A!East Ozone Pumping Plant	-16.1	12.9	-18.1	-16.5	-21.5	-17	-20.5	14.1	
N Grav Solids PP	!0A!North Gravity Solids Pumping Plant	-14.2	13.8	-14.6	-14.1	-18.3	0.8	-23.1	12.8	

Source		Partial Level Day								
Name	M. ID	Behind Alfred Ave	Ramsay Cir	St. Stephen Church	Larkey Reservoir	Larkey Ln & Alfred Ave	Bria Ct	Summit Rd	Quail View Cir	
Operations_Phase_2.shp	!0B*	28.2	25.3	27.7	22	15.9	17.6	-0.5	28.8	
N Filter	!0B!Existing Filter North, 47 dBA at 100 ft	25.5	5.2	24	-4.9	5	-4.1	-12.2	-0.8	
S Filter	!0B!Existing Filter South, 47 dBA at 100 ft	16.4	12.6	16.4	13.7	12.7	1.7	-10.2	17.6	
Elec Bldg Transformers	!0B!Electrical Building Transformers	-27.9	0.2	-28.8	-27.1	-31.7	-24.1	-33.4	-1.6	
Dewater Pump	!0B!Dewatering Pump (Indoor)	-13.9	8.8	-15.1	-13.3	-17.6	2	-22.6	9.9	
N Ballasted Flocc	!0B!North Ballasted Flocculation	24.1	24	24.5	13.8	6.4	17	-3.7	27.8	
E Ozone PP	!0B!East Ozone Pumping Plant	-16.1	12.9	-18.1	-16.5	-21.5	-17	-20.5	14.1	
N Grav Solids PP	!0B!North Gravity Solids Pumping Plant	-14.2	13.8	-14.6	-14.1	-18.3	0.8	-23.1	12.8	
S Ballasted Flocc	!0B!South Ballasted Flocculation	11.5	2.7	6.5	20.5	10.9	3.2	-5.5	5	
W Ozone PP	!0B!West Ozone Pumping Plant	-16.1	8	-17.9	-17.4	-21.5	-17.5	-20.2	13.8	
S Grav Solids PP	!0B!South Gravity Solids Pumping Plant	-14	9.5	-16	-13.8	-17.9	1.4	-22.9	10.8	

Appendix J - Traffic Count Data

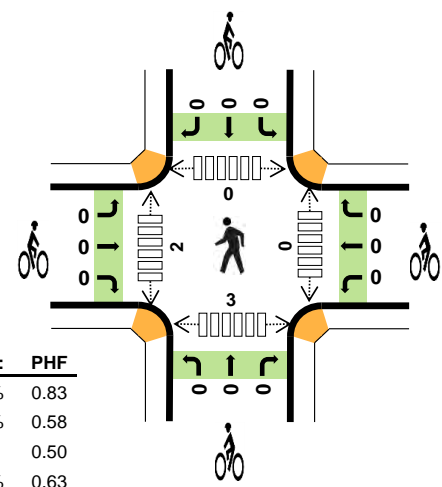
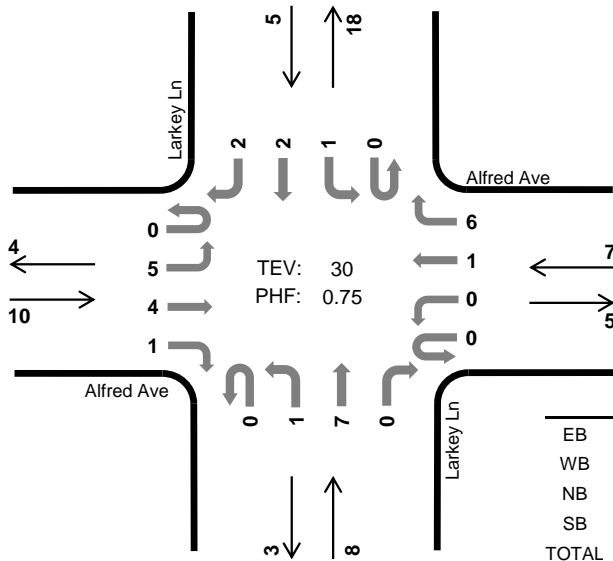
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Larkey Ln Alfred Ave



Peak Hour

Date: 03/24/2022
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 7:45 AM to 8:45 AM



	HV %:	PHF
EB	30.0%	0.83
WB	28.6%	0.58
NB	0.0%	0.50
SB	20.0%	0.63
TOTAL	20.0%	0.75

Two-Hour Count Summaries

Interval Start	Alfred Ave Eastbound				Alfred Ave Westbound				Larkey Ln Northbound				Larkey Ln Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
7:00 AM	0	1	0	0	0	0	0	1	0	0	4	0	0	0	2	0	8	0	
7:15 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	
7:30 AM	0	2	0	0	0	0	1	0	0	0	1	0	0	0	1	0	5	0	
7:45 AM	0	2	1	0	0	0	0	1	0	0	1	0	0	0	1	1	7	22	
8:00 AM	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	4	18	
8:15 AM	0	0	1	1	0	0	1	1	0	0	4	0	0	1	0	1	10	26	
8:30 AM	0	3	0	0	0	0	0	3	0	1	2	0	0	0	0	0	9	30	
8:45 AM	0	0	0	0	0	0	1	1	0	0	4	0	0	0	0	1	7	30	
Count Total	0	8	4	1	0	0	3	8	0	1	18	0	0	1	5	3	52	0	
Peak Hour	All	0	5	4	1	0	0	1	6	0	1	7	0	0	1	2	2	30	0
	HV	0	1	1	1	0	0	1	1	0	0	0	0	0	1	0	0	6	0
	HV%	-	20%	25%	100%	-	-	100%	17%	-	0%	0%	-	-	100%	0%	0%	20%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	0	0	1	0	1	0	0	0	0	0	0	2	0	0	2
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
8:00 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
8:15 AM	1	2	0	1	4	0	0	0	0	0	0	0	0	2	2
8:30 AM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1
8:45 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Count Total	3	2	1	2	8	0	0	0	0	0	0	4	0	3	7
Peak Hour	3	2	0	1	6	0	0	0	0	0	0	2	0	3	5

Two-Hour Count Summaries - Heavy Vehicles																		
Interval Start	Alfred Ave				Alfred Ave				Larkey Ln				Larkey Ln				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
8:15 AM	0	0	0	1	0	0	1	1	0	0	0	0	0	1	0	0	4	5
8:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	7
Count Total	0	1	1	1	0	0	1	1	0	0	1	0	0	1	0	1	8	0
Peak Hour	0	1	1	1	0	0	1	1	0	0	0	0	0	1	0	0	6	0

Two-Hour Count Summaries - Bikes																	
Interval Start	Alfred Ave			Alfred Ave			Larkey Ln			Larkey Ln			15-min Total	Rolling One Hour			
	Eastbound			Westbound			Northbound			Southbound							
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT					
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

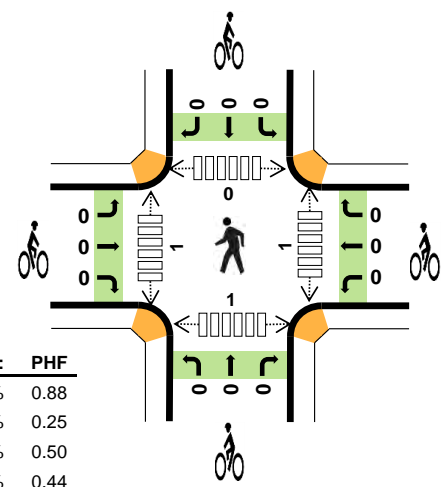
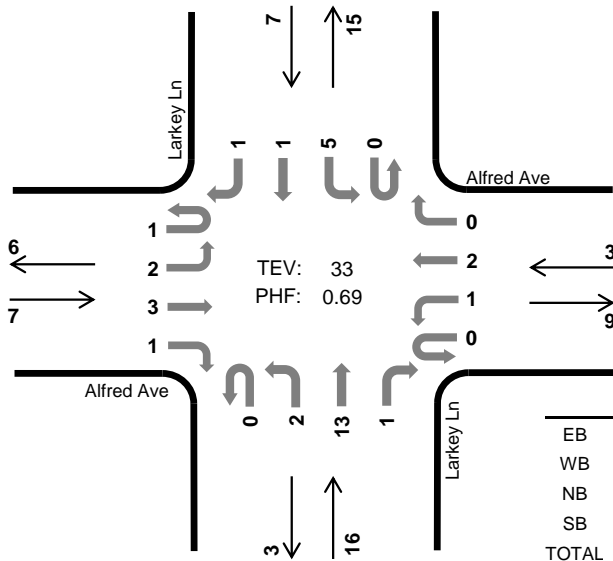
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Larkey Ln Alfred Ave



Peak Hour

Date: 03/24/2022
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 4:00 PM to 5:00 PM



	HV %:	PHF
EB	14.3%	0.88
WB	33.3%	0.25
NB	12.5%	0.50
SB	14.3%	0.44
TOTAL	15.2%	0.69

Two-Hour Count Summaries

Interval Start	Alfred Ave Eastbound				Alfred Ave Westbound				Larkey Ln Northbound				Larkey Ln Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
4:00 PM	1	0	1	0	0	0	0	0	0	1	6	1	0	1	1	0	12	0	
4:15 PM	0	1	0	1	0	1	2	0	0	1	2	0	0	0	0	0	8	0	
4:30 PM	0	0	1	0	0	0	0	0	0	0	3	0	0	4	0	0	8	0	
4:45 PM	0	1	1	0	0	0	0	0	0	0	2	0	0	0	0	1	5	33	
5:00 PM	0	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	4	25	
5:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	18	
5:30 PM	0	2	0	0	0	0	0	0	0	0	2	0	0	1	0	1	6	16	
5:45 PM	0	0	1	0	0	0	0	1	0	0	0	0	0	2	0	1	5	16	
Count Total	1	5	4	2	0	1	3	3	0	2	15	1	0	8	1	3	49	0	
Peak Hour	All	1	2	3	1	0	1	2	0	0	2	13	1	0	5	1	1	33	0
	HV	0	0	1	0	0	0	1	0	0	1	0	1	0	0	1	0	5	0
	HV%	0%	0%	33%	0%	-	0%	50%	-	-	50%	0%	100%	-	0%	100%	0%	15%	0

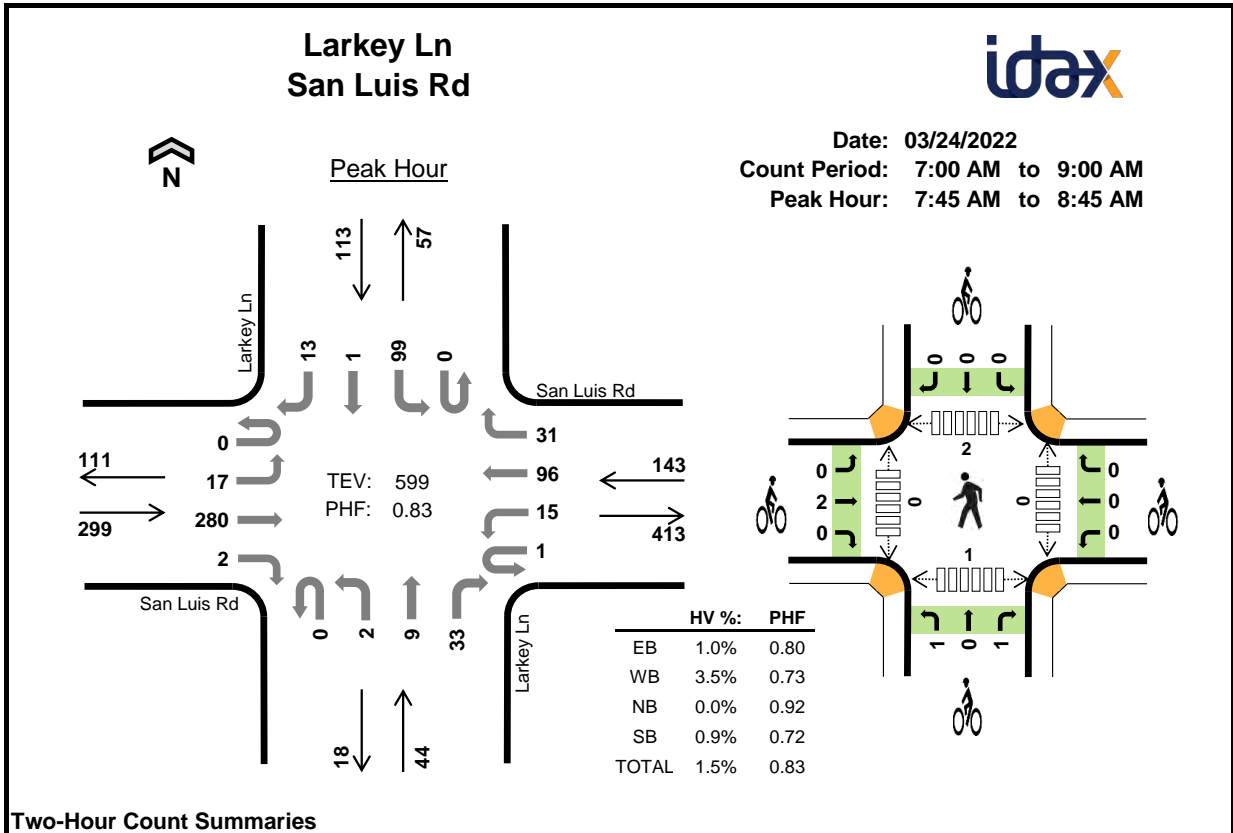
Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	1	0	1	1	3	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	1	1	0	2	0	0	0	0	0	1	0	0	1	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Count Total	1	1	2	1	5	0	0	0	0	0	1	3	1	2	7
Peak Hour	1	1	2	1	5	0	0	0	0	0	1	1	0	1	3

Two-Hour Count Summaries - Heavy Vehicles																		
Interval Start	Alfred Ave				Alfred Ave				Larkey Ln				Larkey Ln				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	3	0
4:15 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	0	0	1	0	0	0	1	0	0	1	0	1	0	0	1	0	5	0
Peak Hour	0	0	1	0	0	0	1	0	0	1	0	1	0	0	1	0	5	0

Two-Hour Count Summaries - Bikes																
Interval Start	Alfred Ave			Alfred Ave			Larkey Ln			Larkey Ln			15-min Total	Rolling One Hour		
	Eastbound			Westbound			Northbound			Southbound						
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT				
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Count Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Note: U-Turn volumes for bikes are included in Left-Turn, if any.



Two-Hour Count Summaries

Interval Start	San Luis Rd Eastbound				San Luis Rd Westbound				Larkey Ln Northbound				Larkey Ln Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
7:00 AM	0	0	13	0	0	2	6	2	0	0	1	7	0	10	0	0	41	0	
7:15 AM	0	2	22	0	0	0	6	3	0	0	1	5	0	13	0	0	52	0	
7:30 AM	0	1	40	0	0	2	7	5	0	0	1	8	0	12	1	1	78	0	
7:45 AM	0	5	76	0	0	1	15	11	0	0	3	9	0	33	0	6	159	330	
8:00 AM	0	4	84	0	0	7	31	11	0	0	3	7	0	28	1	5	181	470	
8:15 AM	0	8	84	2	0	5	28	6	0	1	1	9	0	19	0	0	163	581	
8:30 AM	0	0	36	0	1	2	22	3	0	1	2	8	0	19	0	2	96	599	
8:45 AM	0	0	34	0	0	2	16	5	0	2	0	10	0	11	0	1	81	521	
Count Total	0	20	389	2	1	21	131	46	0	4	12	63	0	145	2	15	851	0	
Peak Hour	All	0	17	280	2	1	15	96	31	0	2	9	33	0	99	1	13	599	0
	HV	0	0	2	1	0	2	3	0	0	0	0	0	0	0	0	1	9	0
	HV%	-	0%	1%	50%	0%	13%	3%	0%	-	0%	0%	0%	-	0%	0%	8%	2%	0

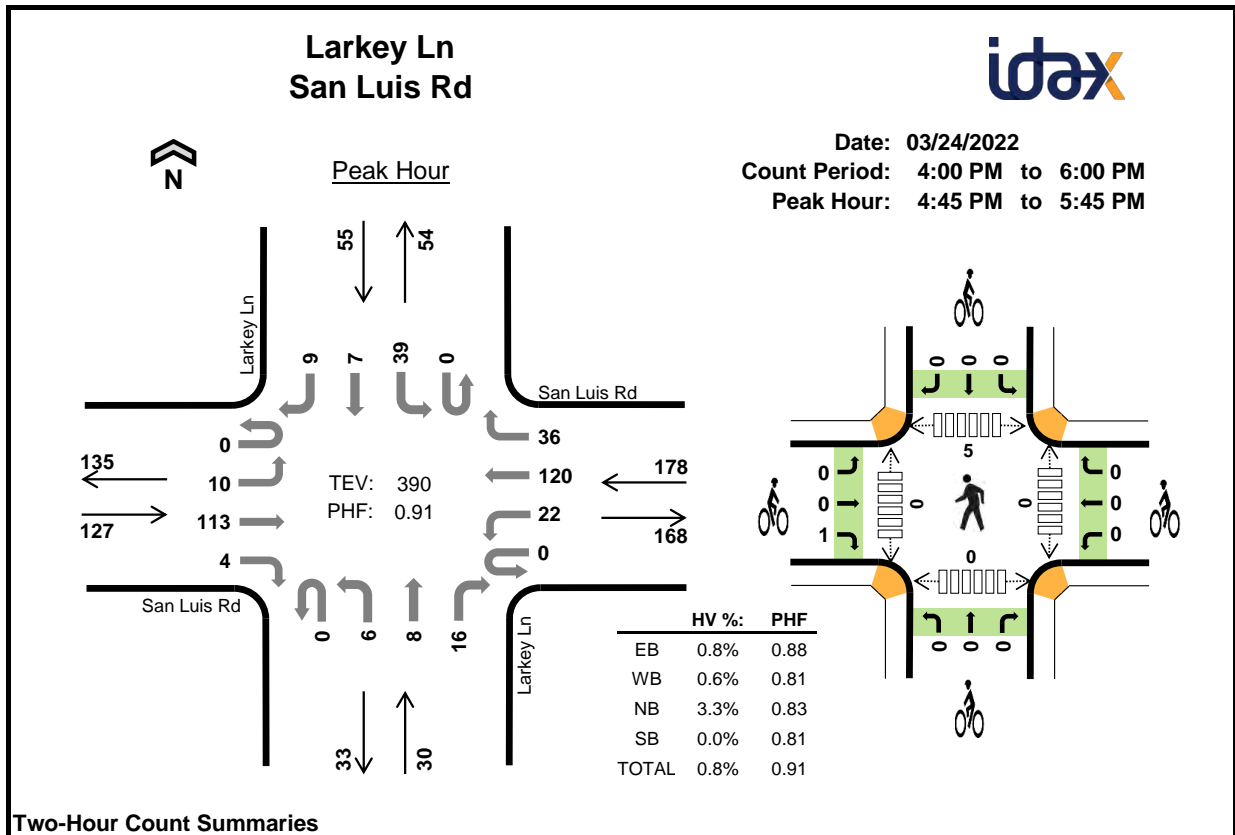
Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	0	1	2	0	3	0	0	0	0	0	0	1	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	1	1	1	0	1	0	2	0	0	0	0	0
8:00 AM	0	3	0	0	3	0	0	0	0	0	0	0	2	1	3
8:15 AM	3	2	0	0	5	0	0	1	0	1	0	0	0	0	0
8:30 AM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
8:45 AM	0	1	2	0	3	0	1	0	0	1	0	0	1	0	1
Count Total	3	7	4	1	15	2	1	2	0	5	0	1	5	1	7
Peak Hour	3	5	0	1	9	2	0	2	0	4	0	0	2	1	3

Two-Hour Count Summaries - Heavy Vehicles																			
Interval Start	San Luis Rd				San Luis Rd				Larkey Ln				Larkey Ln				15-min Total	Rolling One Hour	
	Eastbound				Westbound				Northbound				Southbound						
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
7:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	3	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4
8:00 AM	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3	4
8:15 AM	0	0	2	1	0	0	2	0	0	0	0	0	0	0	0	0	0	5	9
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
8:45 AM	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	3	11
Count Total	0	0	2	1	0	3	3	1	0	1	0	3	0	0	0	1	15	0	
Peak Hour	0	0	2	1	0	2	3	0	0	0	0	0	0	0	0	1	9	0	

Two-Hour Count Summaries - Bikes																		
Interval Start	San Luis Rd			San Luis Rd			Larkey Ln			Larkey Ln			15-min Total	Rolling One Hour				
	Eastbound			Westbound			Northbound			Southbound								
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT						
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	2
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	3
8:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4
8:45 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	3
Count Total	0	2	0	0	0	0	1	1	0	1	0	0	0	0	0	0	5	0
Peak Hour	0	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	4	0

Note: U-Turn volumes for bikes are included in Left-Turn, if any.



Two-Hour Count Summaries

Interval Start	San Luis Rd Eastbound				San Luis Rd Westbound				Larkey Ln Northbound				Larkey Ln Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
4:00 PM	0	2	18	3	0	5	24	7	0	1	5	5	0	6	1	2	79	0	
4:15 PM	0	4	30	1	0	3	30	8	0	0	1	6	0	10	1	1	95	0	
4:30 PM	0	3	21	2	0	3	27	9	0	1	4	4	0	5	0	4	83	0	
4:45 PM	0	0	30	0	0	6	23	11	0	1	1	7	0	12	1	1	93	350	
5:00 PM	0	6	24	1	0	7	30	6	0	1	4	2	0	12	2	3	98	369	
5:15 PM	0	0	29	1	0	2	41	12	0	2	1	3	0	9	3	4	107	381	
5:30 PM	0	4	30	2	0	7	26	7	0	2	2	4	0	6	1	1	92	390	
5:45 PM	0	4	16	0	0	5	24	5	0	0	3	1	0	8	1	0	67	364	
Count Total	0	23	198	10	0	38	225	65	0	8	21	32	0	68	10	16	714	0	
Peak Hour	All	0	10	113	4	0	22	120	36	0	6	8	16	0	39	7	9	390	0
	HV	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	3	0
	HV%	-	0%	1%	0%	-	0%	1%	0%	-	0%	0%	6%	-	0%	0%	0%	1%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0
4:15 PM	1	1	1	1	4	0	0	1	0	1	0	0	1	0	1
4:30 PM	1	0	0	0	1	2	0	2	0	4	0	0	0	0	0
4:45 PM	1	1	1	0	3	1	0	0	0	1	0	0	1	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
5:45 PM	1	1	0	1	3	0	1	0	0	1	0	0	1	0	1
Count Total	5	4	2	2	13	3	1	3	0	7	0	0	7	0	7
Peak Hour	1	1	1	0	3	1	0	0	0	1	0	0	5	0	5

Two-Hour Count Summaries - Heavy Vehicles																		
Interval Start	San Luis Rd				San Luis Rd				Larkey Ln				Larkey Ln				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2	0
4:15 PM	0	0	1	0	0	1	0	0	0	0	0	1	0	1	0	0	4	0
4:30 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
4:45 PM	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	3	10
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5:45 PM	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	3	3
Count Total	0	0	3	2	0	1	2	1	0	0	0	2	0	2	0	0	13	0
Peak Hour	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	0	3	0

Two-Hour Count Summaries - Bikes																	
Interval Start	San Luis Rd			San Luis Rd			Larkey Ln			Larkey Ln			15-min Total	Rolling One Hour			
	Eastbound			Westbound			Northbound			Southbound							
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT					
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
4:30 PM	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	4	0
4:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	6
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1
Count Total	2	0	1	0	1	0	0	2	1	0	0	0	0	0	0	7	0
Peak Hour	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0

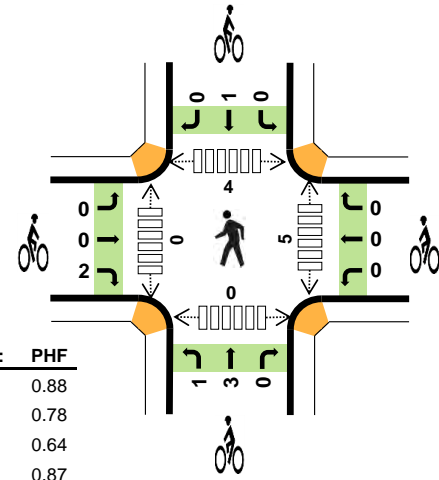
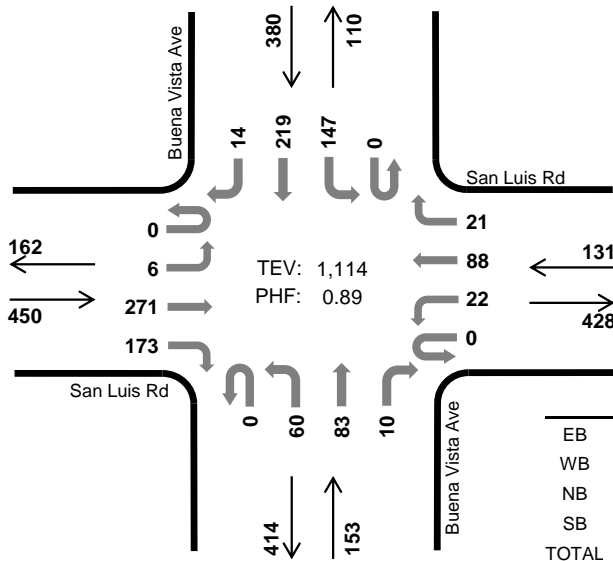
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Buena Vista Ave San Luis Rd



Peak Hour

Date: 03/24/2022
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 7:45 AM to 8:45 AM



	HV %:	PHF
EB	1.1%	0.88
WB	9.9%	0.78
NB	1.3%	0.64
SB	2.6%	0.87
TOTAL	2.7%	0.89

Two-Hour Count Summaries

Interval Start	San Luis Rd Eastbound				San Luis Rd Westbound				Buena Vista Ave Northbound				Buena Vista Ave Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
7:00 AM	0	2	21	12	0	4	6	6	0	7	2	0	0	4	25	1	90	0	
7:15 AM	0	0	21	19	0	1	8	4	0	3	12	0	0	12	32	0	112	0	
7:30 AM	0	4	36	22	0	7	11	5	0	5	8	2	0	24	30	0	154	0	
7:45 AM	0	3	62	58	0	11	25	6	0	6	9	1	0	38	60	3	282	638	
8:00 AM	0	1	72	55	0	4	17	2	0	23	30	7	0	40	55	7	313	861	
8:15 AM	0	0	83	38	0	1	29	9	0	16	25	1	0	33	74	2	311	1,060	
8:30 AM	0	2	54	22	0	6	17	4	0	15	19	1	0	36	30	2	208	1,114	
8:45 AM	0	3	43	19	0	7	14	4	0	8	9	1	0	21	29	4	162	994	
Count Total	0	15	392	245	0	41	127	40	0	83	114	13	0	208	335	19	1,632	0	
Peak Hour	All	0	6	271	173	0	22	88	21	0	60	83	10	0	147	219	14	1,114	0
	HV	0	2	1	2	0	1	8	4	0	0	0	2	0	7	2	1	30	0
	HV%	-	33%	0%	1%	-	5%	9%	19%	-	0%	0%	20%	-	5%	1%	7%	3%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	2	2	0	0	4	0	0	0	0	0	2	4	3	4	13
7:15 AM	1	2	0	1	4	0	0	0	0	0	2	1	1	0	4
7:30 AM	2	1	1	0	4	1	0	1	0	2	1	0	0	0	1
7:45 AM	1	3	0	3	7	0	0	1	0	1	0	0	1	0	1
8:00 AM	1	1	1	3	6	0	0	0	0	0	2	0	1	0	3
8:15 AM	2	6	0	1	9	1	0	1	1	3	1	0	0	0	1
8:30 AM	1	3	1	3	8	1	0	2	0	3	2	0	2	0	4
8:45 AM	1	2	2	1	6	0	0	0	0	0	0	1	0	0	1
Count Total	11	20	5	12	48	3	0	5	1	9	10	6	8	4	28
Peak Hour	5	13	2	10	30	2	0	4	1	7	5	0	4	0	9

Two-Hour Count Summaries - Heavy Vehicles																			
Interval Start	San Luis Rd				San Luis Rd				Buena Vista Ave				Buena Vista Ave				15-min Total	Rolling One Hour	
	Eastbound				Westbound				Northbound				Southbound						
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
7:00 AM	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	4	0	
7:15 AM	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	1	0	4	0
7:30 AM	0	0	2	0	0	1	0	0	0	0	1	0	0	0	0	0	0	4	0
7:45 AM	0	1	0	0	0	0	2	1	0	0	0	0	0	0	3	0	0	7	19
8:00 AM	0	0	1	0	0	1	0	0	0	0	0	1	0	3	0	0	6	21	
8:15 AM	0	0	0	2	0	0	4	2	0	0	0	0	0	0	0	1	9	26	
8:30 AM	0	1	0	0	0	0	2	1	0	0	0	1	0	1	2	0	8	30	
8:45 AM	0	0	1	0	0	1	0	1	0	1	0	1	0	0	1	0	6	29	
Count Total	0	2	6	3	0	3	11	6	0	1	1	3	0	7	4	1	48	0	
Peak Hour	0	2	1	2	0	1	8	4	0	0	0	2	0	7	2	1	30	0	

Two-Hour Count Summaries - Bikes																		
Interval Start	San Luis Rd			San Luis Rd			Buena Vista Ave			Buena Vista Ave			15-min Total	Rolling One Hour				
	Eastbound			Westbound			Northbound			Southbound								
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT						
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0
7:45 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	3
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
8:15 AM	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	3	6
8:30 AM	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	3	7
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Count Total	0	0	3	0	0	0	0	1	4	0	0	1	0	0	0	0	9	0
Peak Hour	0	0	2	0	0	0	0	1	3	0	0	1	0	0	0	0	7	0

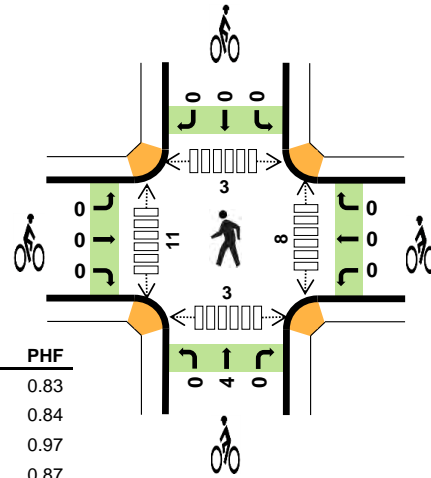
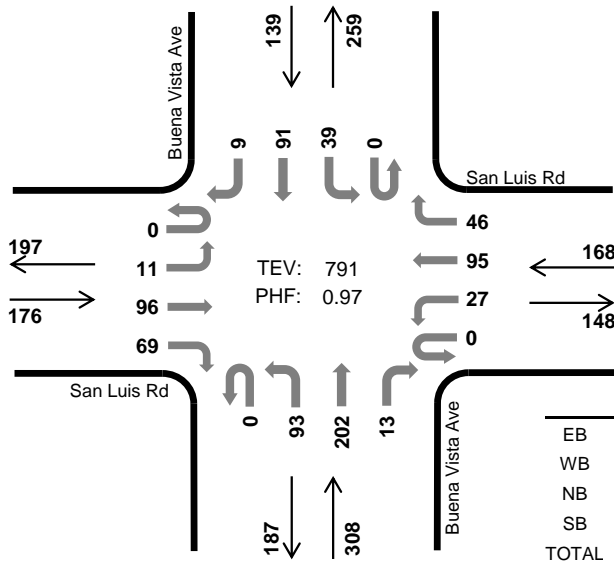
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Buena Vista Ave San Luis Rd



Peak Hour

Date: 03/24/2022
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 4:45 PM to 5:45 PM



	HV %:	PHF
EB	1.1%	0.83
WB	0.0%	0.84
NB	0.6%	0.97
SB	0.7%	0.87
TOTAL	0.6%	0.97

Two-Hour Count Summaries

Interval Start	San Luis Rd Eastbound				San Luis Rd Westbound				Buena Vista Ave Northbound				Buena Vista Ave Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
4:00 PM	0	2	20	11	0	4	18	11	0	16	34	4	0	11	19	5	155	0	
4:15 PM	0	1	33	21	0	7	23	14	0	18	46	8	0	18	15	2	206	0	
4:30 PM	0	1	21	11	0	5	24	10	0	17	34	1	0	10	13	2	149	0	
4:45 PM	0	4	35	14	0	8	21	11	0	20	56	3	0	13	17	1	203	713	
5:00 PM	0	1	21	20	0	6	23	10	0	21	55	3	0	8	22	1	191	749	
5:15 PM	0	5	21	18	0	7	23	9	0	34	41	4	0	14	23	0	199	742	
5:30 PM	0	1	19	17	0	6	28	16	0	18	50	3	0	4	29	7	198	791	
5:45 PM	0	6	17	9	0	9	15	9	0	22	35	3	0	12	21	5	163	751	
Count Total	0	21	187	121	0	52	175	90	0	166	351	29	0	90	159	23	1,464	0	
Peak Hour	All	0	11	96	69	0	27	95	46	0	93	202	13	0	39	91	9	791	0
	HV	0	1	1	0	0	0	0	0	0	1	1	0	0	0	1	0	5	0
	HV%	-	9%	1%	0%	-	0%	0%	0%	-	1%	0%	0%	-	0%	1%	0%	1%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	0	0	0	1	1	0	0	2	1	3	0	4	2	4	10
4:15 PM	5	0	0	0	5	0	1	1	0	2	0	1	2	0	3
4:30 PM	1	0	0	0	1	2	0	1	1	4	3	0	1	0	4
4:45 PM	2	0	0	0	2	0	0	0	0	0	2	2	2	1	7
5:00 PM	0	0	0	0	0	0	0	1	0	1	3	5	0	2	10
5:15 PM	0	0	1	0	1	0	0	3	0	3	2	2	0	0	4
5:30 PM	0	0	1	1	2	0	0	0	0	0	1	2	1	0	4
5:45 PM	2	0	0	0	2	0	0	0	1	1	1	0	1	0	2
Count Total	10	0	2	2	14	2	1	8	3	14	12	16	9	7	44
Peak Hour	2	0	2	1	5	0	0	4	0	4	8	11	3	3	25

Two-Hour Count Summaries - Heavy Vehicles																			
Interval Start	San Luis Rd				San Luis Rd				Buena Vista Ave				Buena Vista Ave				15-min Total	Rolling One Hour	
	Eastbound				Westbound				Northbound				Southbound						
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
4:15 PM	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
4:30 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
4:45 PM	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	4
5:30 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2	5	
5:45 PM	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	
Count Total	0	2	7	1	0	0	0	0	0	0	1	1	0	0	0	2	0	14	0
Peak Hour	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	5	0

Two-Hour Count Summaries - Bikes																	
Interval Start	San Luis Rd			San Luis Rd			Buena Vista Ave			Buena Vista Ave			15-min Total	Rolling One Hour			
	Eastbound			Westbound			Northbound			Southbound							
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT					
4:00 PM	0	0	0	0	0	0	0	2	0	0	1	0	3	0			
4:15 PM	0	0	0	0	1	0	0	1	0	0	0	0	2	0			
4:30 PM	0	0	2	0	0	0	0	1	0	0	1	0	4	0			
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	9			
5:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	7			
5:15 PM	0	0	0	0	0	0	0	3	0	0	0	0	3	8			
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
5:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	5			
Count Total	0	0	2	0	1	0	0	8	0	0	3	0	14	0			
Peak Hour	0	0	0	0	0	0	0	4	0	0	0	0	4	0			

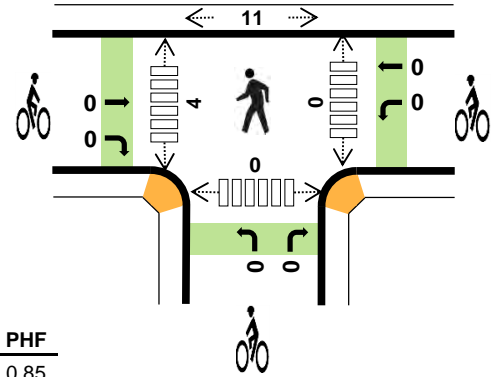
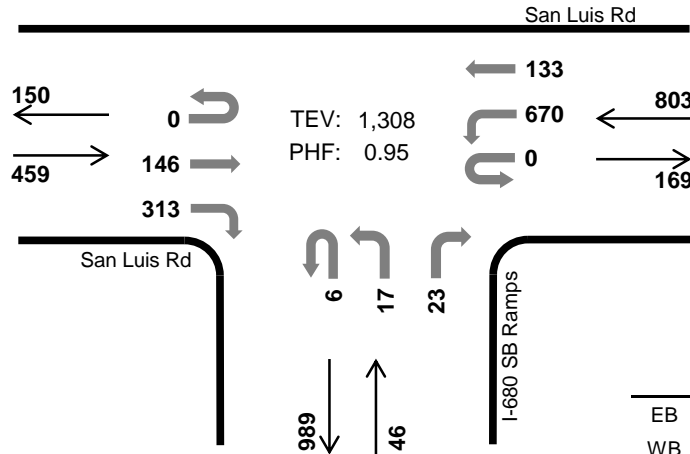
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

I-680 SB Ramps San Luis Rd



Peak Hour

Date: 03/24/2022
 Count Period: 7:00 AM to 9:00 AM
 Peak Hour: 7:30 AM to 8:30 AM



	HV %:	PHF
EB	0.7%	0.85
WB	3.7%	0.84
NB	4.3%	0.82
SB	-	-
TOTAL	2.7%	0.95

Two-Hour Count Summaries

Interval Start	San Luis Rd Eastbound				San Luis Rd Westbound				I-680 SB Ramps Northbound				N/A Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
7:00 AM	0	0	12	18	0	136	14	0	2	3	0	6	0	0	0	0	191	0	
7:15 AM	0	0	12	33	0	171	16	0	6	2	0	4	0	0	0	0	244	0	
7:30 AM	0	0	26	51	0	215	23	0	2	0	0	5	0	0	0	0	322	0	
7:45 AM	0	0	30	86	0	153	37	0	1	7	0	4	0	0	0	0	318	1,075	
8:00 AM	0	0	54	77	0	146	31	0	1	5	0	8	0	0	0	0	322	1,206	
8:15 AM	0	0	36	99	0	156	42	0	2	5	0	6	0	0	0	0	346	1,308	
8:30 AM	0	0	43	62	0	138	32	0	1	7	0	16	0	0	0	0	299	1,285	
8:45 AM	0	0	28	53	0	105	33	0	0	9	0	12	0	0	0	0	240	1,207	
Count Total	0	0	241	479	0	1,220	228	0	15	38	0	61	0	0	0	0	2,282	0	
Peak Hour	All	0	0	146	313	0	670	133	0	6	17	0	23	0	0	0	0	1,308	0
	HV	0	0	1	2	0	22	8	0	0	0	0	2	0	0	0	0	35	0
	HV%	-	-	1%	1%	-	3%	6%	-	0%	0%	-	9%	-	-	-	-	3%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	2	5	0	0	7	0	0	0	0	0	0	0	2	0	2
7:15 AM	1	9	1	0	11	0	0	0	0	0	0	0	2	0	2
7:30 AM	1	7	0	0	8	0	0	0	0	0	0	0	2	0	2
7:45 AM	1	6	0	0	7	0	0	0	0	0	0	0	2	0	2
8:00 AM	1	4	1	0	6	0	0	0	0	0	0	4	5	0	9
8:15 AM	0	13	1	0	14	0	0	0	0	0	0	0	2	0	2
8:30 AM	1	3	1	0	5	0	0	0	0	0	0	0	2	0	2
8:45 AM	1	4	3	0	8	0	0	0	0	0	0	0	0	1	1
Count Total	8	51	7	0	66	0	0	0	0	0	0	4	17	1	22
Peak Hr	3	30	2	0	35	0	0	0	0	0	0	4	11	0	15

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	San Luis Rd				San Luis Rd				I-680 SB Ramps				N/A				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	0	1	1	0	5	0	0	0	0	0	0	0	0	0	0	7	0
7:15 AM	0	0	0	1	0	8	1	0	1	0	0	0	0	0	0	0	11	0
7:30 AM	0	0	0	1	0	6	1	0	0	0	0	0	0	0	0	0	8	0
7:45 AM	0	0	0	1	0	5	1	0	0	0	0	0	0	0	0	0	7	33
8:00 AM	0	0	1	0	0	3	1	0	0	0	0	1	0	0	0	0	6	32
8:15 AM	0	0	0	0	0	8	5	0	0	0	0	1	0	0	0	0	14	35
8:30 AM	0	0	1	0	0	1	2	0	0	0	0	1	0	0	0	0	5	32
8:45 AM	0	0	0	1	0	3	1	0	0	1	0	2	0	0	0	0	8	33
Count Total	0	0	3	5	0	39	12	0	1	1	0	5	0	0	0	0	66	0
Peak Hour	0	0	1	2	0	22	8	0	0	0	0	2	0	0	0	0	35	0

Two-Hour Count Summaries - Bikes

Interval Start	San Luis Rd			San Luis Rd			I-680 SB Ramps			N/A			15-min Total	Rolling One Hour
	Eastbound			Westbound			Northbound			Southbound				
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0

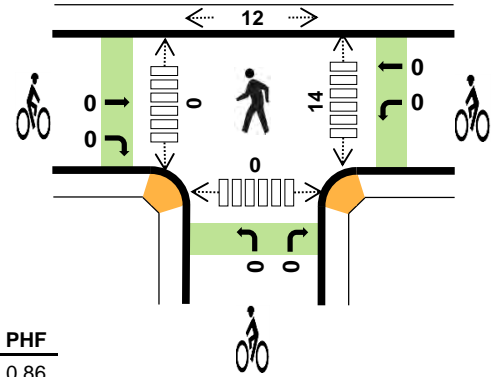
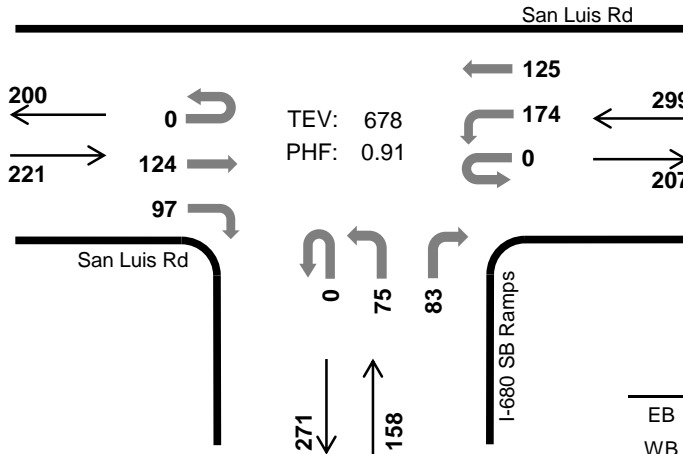
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

I-680 SB Ramps San Luis Rd



Peak Hour

Date: 03/24/2022
 Count Period: 4:00 PM to 6:00 PM
 Peak Hour: 4:15 PM to 5:15 PM



	HV %:	PHF
EB	2.7%	0.86
WB	0.3%	0.89
NB	0.6%	0.94
SB	-	-
TOTAL	1.2%	0.91

Two-Hour Count Summaries

Interval Start	San Luis Rd Eastbound				San Luis Rd Westbound				I-680 SB Ramps Northbound				N/A Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
4:00 PM	0	0	23	18	0	52	32	0	0	7	0	14	0	0	0	0	146	0	
4:15 PM	0	0	34	30	0	50	34	0	0	19	0	20	0	0	0	0	187	0	
4:30 PM	0	0	31	16	0	50	29	0	0	17	0	21	0	0	0	0	164	0	
4:45 PM	0	0	34	29	0	36	32	0	0	20	0	19	0	0	0	0	170	667	
5:00 PM	0	0	25	22	0	38	30	0	0	19	0	23	0	0	0	0	157	678	
5:15 PM	0	0	24	22	0	36	37	0	1	22	0	17	0	0	0	0	159	650	
5:30 PM	0	0	17	15	0	45	43	0	0	20	0	14	0	0	0	0	154	640	
5:45 PM	0	0	22	11	0	31	30	0	0	16	0	10	0	0	0	0	120	590	
Count Total	0	0	210	163	0	338	267	0	1	140	0	138	0	0	0	0	1,257	0	
Peak Hour	All	0	0	124	97	0	174	125	0	0	75	0	83	0	0	0	0	678	0
	HV	0	0	0	6	0	1	0	0	0	0	0	1	0	0	0	0	8	0
	HV%	-	-	0%	6%	-	1%	0%	-	-	0%	-	1%	-	-	-	-	1%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	0	3	1	0	4	0	0	0	0	0	0	0	6	0	6
4:15 PM	5	1	0	0	6	0	0	0	0	0	0	0	3	0	3
4:30 PM	0	0	0	0	0	0	0	0	0	0	2	0	2	0	4
4:45 PM	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1
5:00 PM	0	0	1	0	1	0	0	0	0	0	12	0	6	0	18
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
5:45 PM	1	0	1	0	2	1	0	0	0	1	0	0	0	0	0
Count Total	7	4	3	0	14	1	0	0	0	1	14	1	22	0	37
Peak Hr	6	1	1	0	8	0	0	0	0	0	14	0	12	0	26

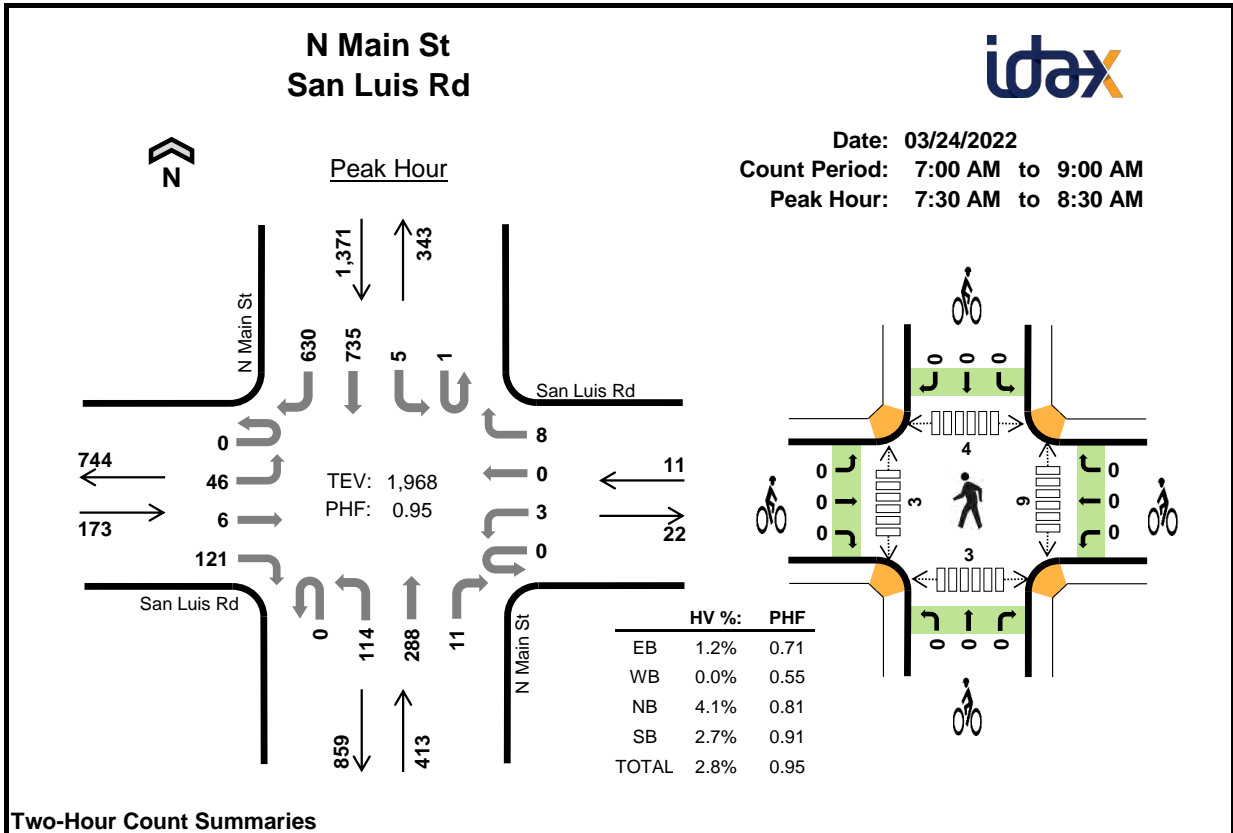
Two-Hour Count Summaries - Heavy Vehicles

Interval Start	San Luis Rd				San Luis Rd				I-680 SB Ramps				N/A				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	0	0	0	3	0	0	0	0	0	1	0	0	0	0	4	0
4:15 PM	0	0	0	5	0	1	0	0	0	0	0	0	0	0	0	0	6	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	11
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	8
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:45 PM	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	2	3
Count Total	0	0	0	7	0	4	0	0	0	0	0	3	0	0	0	0	14	0
Peak Hour	0	0	0	6	0	1	0	0	0	0	0	1	0	0	0	0	8	0

Two-Hour Count Summaries - Bikes

Interval Start	San Luis Rd			San Luis Rd			I-680 SB Ramps			N/A			15-min Total	Rolling One Hour
	Eastbound			Westbound			Northbound			Southbound				
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	1
Count Total	0	1	0	0	0	0	0	0	0	0	0	0	1	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: U-Turn volumes for bikes are included in Left-Turn, if any.



Two-Hour Count Summaries

Interval Start	San Luis Rd Eastbound				San Luis Rd Westbound				N Main St Northbound				N Main St Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
7:00 AM	0	4	1	9	0	2	0	2	0	14	47	2	1	2	87	128	299	0	
7:15 AM	0	2	0	13	0	3	0	0	0	17	52	1	2	5	133	167	395	0	
7:30 AM	0	9	1	23	0	0	0	2	0	16	38	4	0	3	178	195	469	0	
7:45 AM	0	8	3	23	0	0	0	2	0	36	90	2	0	1	185	142	492	1,655	
8:00 AM	0	15	2	44	0	0	0	2	0	18	90	1	1	0	167	148	488	1,844	
8:15 AM	0	14	0	31	0	3	0	2	0	44	70	4	0	1	205	145	519	1,968	
8:30 AM	0	10	2	44	0	1	3	0	0	32	85	6	1	3	134	118	439	1,938	
8:45 AM	0	15	3	20	0	2	1	3	0	26	86	3	0	7	146	107	419	1,865	
Count Total	0	77	12	207	0	11	4	13	0	203	558	23	5	22	1,235	1,150	3,520	0	
Peak Hour	All	0	46	6	121	0	3	0	8	0	114	288	11	1	5	735	630	1,968	0
	HV	0	1	0	1	0	0	0	0	0	5	12	0	0	0	14	23	56	0
	HV%	-	2%	0%	1%	-	0%	-	0%	-	4%	4%	0%	0%	0%	2%	4%	3%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	1	0	0	4	5	0	0	0	0	0	2	0	0	0	2
7:15 AM	1	1	1	11	14	0	0	0	0	0	2	0	1	0	3
7:30 AM	0	0	2	13	15	0	0	0	0	0	3	2	2	2	9
7:45 AM	0	0	6	9	15	0	0	0	0	0	2	0	0	0	2
8:00 AM	2	0	1	7	10	0	0	0	0	0	1	0	2	0	3
8:15 AM	0	0	8	8	16	0	0	0	0	0	3	1	0	1	5
8:30 AM	3	0	9	5	17	0	0	0	0	0	3	1	1	0	5
8:45 AM	0	0	3	4	7	0	0	0	0	0	0	2	0	5	7
Count Total	7	1	30	61	99	0	0	0	0	0	16	6	6	8	36
Peak Hour	2	0	17	37	56	0	0	0	0	0	9	3	4	3	19

Two-Hour Count Summaries - Heavy Vehicles																			
Interval Start	San Luis Rd				San Luis Rd				N Main St				N Main St				15-min Total	Rolling One Hour	
	Eastbound				Westbound				Northbound				Southbound						
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	5	0
7:15 AM	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	5	6	14	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	6	7	15	0	
7:45 AM	0	0	0	0	0	0	0	0	0	0	6	0	0	0	4	5	15	49	
8:00 AM	0	1	0	1	0	0	0	0	0	0	1	0	0	0	2	5	10	54	
8:15 AM	0	0	0	0	0	0	0	0	0	5	3	0	0	0	2	6	16	56	
8:30 AM	0	0	0	3	0	0	0	0	0	3	6	0	0	0	4	1	17	58	
8:45 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	3	7	50	
Count Total	0	2	0	5	0	1	0	0	0	8	22	0	0	0	26	35	99	0	
Peak Hour	0	1	0	1	0	0	0	0	0	5	12	0	0	0	14	23	56	0	

Two-Hour Count Summaries - Bikes																		
Interval Start	San Luis Rd			San Luis Rd			N Main St			N Main St			15-min Total	Rolling One Hour				
	Eastbound			Westbound			Northbound			Southbound								
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT						
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

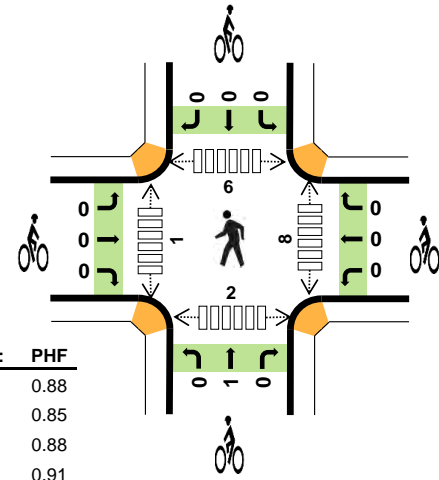
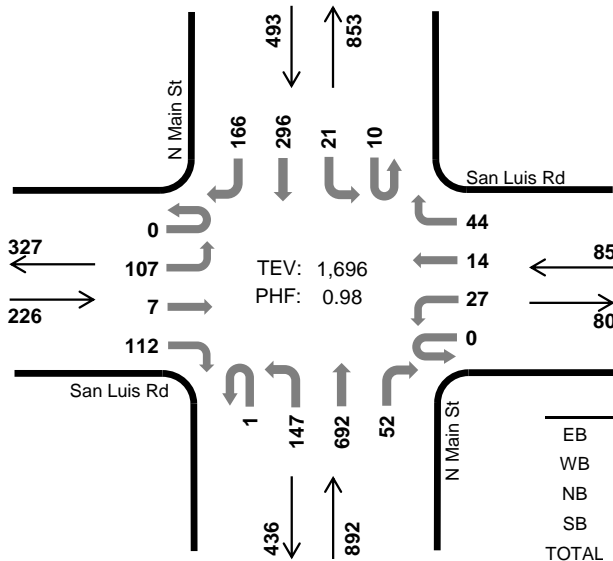
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

N Main St San Luis Rd



Peak Hour

Date: 03/24/2022
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 4:00 PM to 5:00 PM



	HV %:	PHF
EB	1.8%	0.88
WB	1.2%	0.85
NB	1.0%	0.88
SB	1.6%	0.91
TOTAL	1.3%	0.98

Two-Hour Count Summaries

Interval Start	San Luis Rd Eastbound				San Luis Rd Westbound				N Main St Northbound				N Main St Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
4:00 PM	0	24	2	19	0	8	2	9	0	46	159	15	5	5	77	45	416	0	
4:15 PM	0	30	2	27	0	3	5	13	0	32	170	7	3	8	77	47	424	0	
4:30 PM	0	30	2	32	0	10	3	12	1	38	158	14	1	5	73	43	422	0	
4:45 PM	0	23	1	34	0	6	4	10	0	31	205	16	1	3	69	31	434	1,696	
5:00 PM	0	31	7	22	0	7	4	12	0	42	143	13	1	1	78	28	389	1,669	
5:15 PM	0	16	3	19	0	7	2	5	0	29	178	11	1	7	78	35	391	1,636	
5:30 PM	0	16	2	17	0	6	4	4	1	37	183	9	4	5	73	48	409	1,623	
5:45 PM	0	17	0	21	0	7	1	7	0	30	148	8	2	1	72	25	339	1,528	
Count Total	0	187	19	191	0	54	25	72	2	285	1,344	93	18	35	597	302	3,224	0	
Peak Hour	All	0	107	7	112	0	27	14	44	1	147	692	52	10	21	296	166	1,696	0
	HV	0	3	0	1	0	0	0	1	0	1	8	0	0	0	5	3	22	0
	HV%	-	3%	0%	1%	-	0%	0%	2%	0%	1%	1%	0%	0%	0%	2%	2%	1%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	3	0	3	4	10	0	0	1	0	1	2	0	2	0	4
4:15 PM	0	1	1	1	3	0	0	0	0	0	1	0	2	0	3
4:30 PM	0	0	3	2	5	0	0	0	0	0	1	1	0	2	4
4:45 PM	1	0	2	1	4	0	0	0	0	0	4	0	2	0	6
5:00 PM	1	1	2	2	6	0	0	0	0	0	1	0	3	0	4
5:15 PM	0	0	0	0	0	0	0	1	1	2	3	0	4	0	7
5:30 PM	0	0	3	2	5	0	0	0	0	0	2	1	0	0	3
5:45 PM	1	0	2	0	3	0	0	1	0	1	1	0	0	0	1
Count Total	6	2	16	12	36	0	0	3	1	4	15	2	13	2	32
Peak Hour	4	1	9	8	22	0	0	1	0	1	8	1	6	2	17

Two-Hour Count Summaries - Heavy Vehicles																			
Interval Start	San Luis Rd				San Luis Rd				N Main St				N Main St				15-min Total	Rolling One Hour	
	Eastbound				Westbound				Northbound				Southbound						
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
4:00 PM	0	3	0	0	0	0	0	0	0	0	3	0	0	0	1	3	10	0	
4:15 PM	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	3	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	2	0	5	0
4:45 PM	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	1	0	4	22
5:00 PM	0	1	0	0	0	1	0	0	0	0	1	1	0	0	2	0	6	18	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15
5:30 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	2	0	5	15	15
5:45 PM	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	3	14	14
Count Total	0	4	0	2	0	1	0	1	0	1	14	1	0	0	9	3	36	0	0
Peak Hour	0	3	0	1	0	0	0	1	0	1	8	0	0	0	5	3	22	0	0

Two-Hour Count Summaries - Bikes																			
Interval Start	San Luis Rd			San Luis Rd			N Main St			N Main St			15-min Total	Rolling One Hour					
	Eastbound			Westbound			Northbound			Southbound									
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT							
4:00 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	2	2	2
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	3	3
Count Total	0	0	0	0	0	0	0	0	2	1	0	1	0	0	1	0	4	0	0
Peak Hour	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0

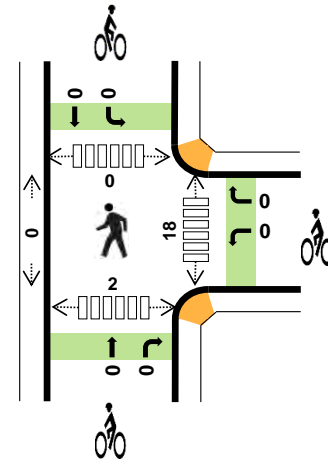
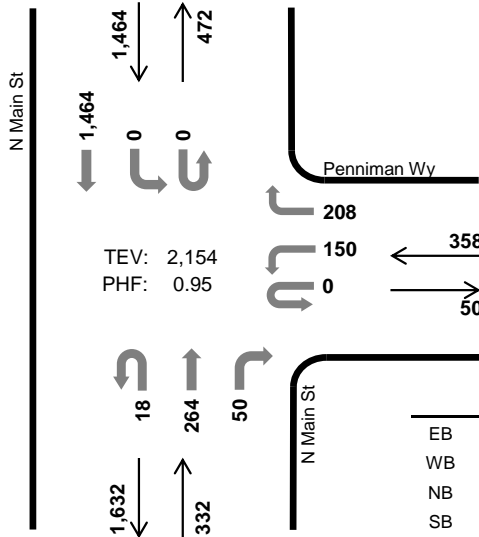
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

N Main St Penniman Wy



Peak Hour

Date: 03/24/2022
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 8:00 AM to 9:00 AM



	HV %:	PHF
EB	-	-
WB	7.0%	0.91
NB	4.5%	0.89
SB	1.8%	0.95
TOTAL	3.1%	0.95

Two-Hour Count Summaries

Interval Start	n/a				Penniman Wy				N Main St				N Main St				15-min Total	Rolling One Hour	
	Eastbound		Westbound		Northbound		Southbound		UT		TH		RT						
7:00 AM	0	0	0	0	0	8	0	23	2	0	36	4	0	0	191	0	264	0	
7:15 AM	0	0	0	0	0	16	0	42	2	0	30	7	0	1	238	0	336	0	
7:30 AM	0	0	0	0	0	21	0	33	2	0	28	12	0	0	301	0	397	0	
7:45 AM	0	0	0	0	0	22	0	69	1	0	53	9	0	0	355	0	509	1,506	
8:00 AM	0	0	0	0	0	34	0	47	2	0	62	13	0	0	355	0	513	1,755	
8:15 AM	0	0	0	0	0	44	0	54	8	0	70	15	0	0	376	0	567	1,986	
8:30 AM	0	0	0	0	0	40	0	53	4	0	68	11	0	0	349	0	525	2,114	
8:45 AM	0	0	0	0	0	32	0	54	4	0	64	11	0	0	384	0	549	2,154	
Count Total	0	0	0	0	0	217	0	375	25	0	411	82	0	1	2,549	0	3,660	0	
Peak Hour	All	0	0	0	0	0	150	0	208	18	0	264	50	0	0	1,464	0	2,154	0
	HV	0	0	0	0	0	13	0	12	0	0	9	6	0	0	27	0	67	0
	HV%	-	-	-	-	-	9%	-	6%	0%	-	3%	12%	-	-	2%	-	3%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	0	0	2	2	4	0	0	0	0	0	3	0	0	0	3
7:15 AM	0	0	1	8	9	0	0	0	0	0	4	0	0	0	4
7:30 AM	0	1	3	7	11	0	0	0	0	0	3	0	0	0	3
7:45 AM	0	8	2	8	18	0	0	0	0	0	4	0	0	0	4
8:00 AM	0	5	3	9	17	0	0	0	0	0	3	0	0	1	4
8:15 AM	0	13	2	4	19	0	0	0	0	0	4	0	0	0	4
8:30 AM	0	5	7	10	22	0	0	0	0	0	5	0	0	1	6
8:45 AM	0	2	3	4	9	0	0	0	0	0	6	0	0	0	6
Count Total	0	34	23	52	109	0	0	0	0	0	32	0	0	2	34
Peak Hr	0	25	15	27	67	0	0	0	0	0	18	0	0	2	20

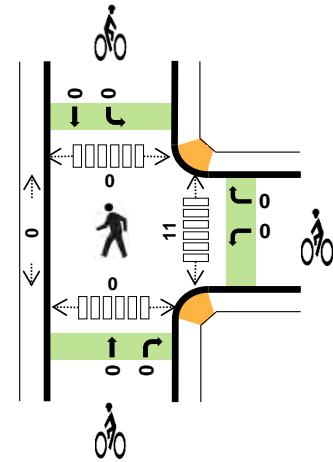
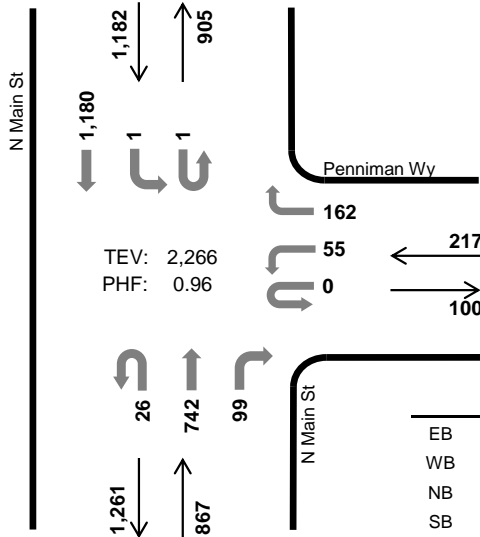
Two-Hour Count Summaries - Heavy Vehicles																		
Interval Start	n/a				Penniman Wy				N Main St				N Main St				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	4	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	8	0	9	0
7:30 AM	0	0	0	0	0	0	0	1	0	0	1	2	0	0	7	0	11	0
7:45 AM	0	0	0	0	0	4	0	4	0	0	2	0	0	0	8	0	18	42
8:00 AM	0	0	0	0	0	5	0	0	0	0	1	2	0	0	9	0	17	55
8:15 AM	0	0	0	0	0	6	0	7	0	0	2	0	0	0	4	0	19	65
8:30 AM	0	0	0	0	0	1	0	4	0	0	4	3	0	0	10	0	22	76
8:45 AM	0	0	0	0	0	1	0	1	0	0	2	1	0	0	4	0	9	67
Count Total	0	0	0	0	0	17	0	17	0	0	13	10	0	0	52	0	109	0
Peak Hour	0	0	0	0	0	13	0	12	0	0	9	6	0	0	27	0	67	0
Two-Hour Count Summaries - Bikes																		
Interval Start	n/a			Penniman Wy			N Main St			N Main St			15-min Total	Rolling One Hour				
	Eastbound			Westbound			Northbound			Southbound								
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT						
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Note: U-Turn volumes for bikes are included in Left-Turn, if any.																		

N Main St Penniman Wy



Peak Hour

Date: 03/24/2022
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 4:45 PM to 5:45 PM



	HV %:	PHF
EB	-	-
WB	0.9%	0.79
NB	0.9%	0.90
SB	1.1%	0.98
TOTAL	1.0%	0.96

Two-Hour Count Summaries

Interval Start	n/a				Penniman Wy				N Main St				N Main St				15-min Total	Rolling One Hour	
	Eastbound				Westbound				Northbound				Southbound						
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
4:00 PM	0	0	0	0	0	17	0	53	7	0	166	18	0	0	282	0	543	0	
4:15 PM	0	0	0	0	0	12	0	30	10	0	179	10	0	0	299	0	540	0	
4:30 PM	0	0	0	0	0	15	0	40	4	0	172	23	0	0	288	0	542	0	
4:45 PM	0	0	0	0	0	10	0	40	5	0	214	22	0	0	301	0	592	2,217	
5:00 PM	0	0	0	0	0	9	0	36	9	0	162	32	1	1	287	0	537	2,211	
5:15 PM	0	0	0	0	0	14	0	39	8	0	183	18	0	0	296	0	558	2,229	
5:30 PM	0	0	0	0	0	22	0	47	4	0	183	27	0	0	296	0	579	2,266	
5:45 PM	0	0	0	0	0	12	0	30	9	0	155	20	0	0	288	0	514	2,188	
Count Total	0	0	0	0	0	111	0	315	56	0	1,414	170	1	1	2,337	0	4,405	0	
Peak Hour	All	0	0	0	0	0	55	0	162	26	0	742	99	1	1	1,180	0	2,266	0
	HV	0	0	0	0	0	0	0	2	0	0	5	3	0	0	13	0	23	0
	HV%	-	-	-	-	-	0%	-	1%	0%	-	1%	3%	0%	0%	1%	-	1%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	0	0	5	2	7	0	0	0	0	0	2	0	0	0	2
4:15 PM	0	1	1	2	4	0	0	0	0	0	2	0	0	1	3
4:30 PM	0	0	4	4	8	0	0	0	0	0	4	0	0	0	4
4:45 PM	0	0	3	4	7	0	0	0	0	0	4	0	0	0	4
5:00 PM	0	0	3	3	6	0	0	0	0	0	1	0	0	0	1
5:15 PM	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	2	2	4	8	0	0	0	0	0	6	0	0	0	6
5:45 PM	0	0	2	2	4	0	0	0	1	1	1	0	0	0	1
Count Total	0	3	20	23	46	0	0	0	1	1	20	0	0	1	21
Peak Hr	0	2	8	13	23	0	0	0	0	0	11	0	0	0	11

Two-Hour Count Summaries - Heavy Vehicles														15-min Total	Rolling One Hour			
Interval Start	n/a				Penniman Wy				N Main St				N Main St					
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	0	0	0	0	0	0	0	0	3	2	0	0	2	0	7	0
4:15 PM	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2	0	4	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	3	1	0	0	4	0	8	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	2	1	0	0	4	0	7	26
5:00 PM	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3	0	6	25
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	23
5:30 PM	0	0	0	0	0	0	0	2	0	0	1	1	0	0	4	0	8	23
5:45 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	4	20
Count Total	0	0	0	0	0	1	0	2	0	0	14	6	0	0	23	0	46	0
Peak Hour	0	0	0	0	0	0	0	2	0	0	5	3	0	0	13	0	23	0

Two-Hour Count Summaries - Bikes														15-min Total	Rolling One Hour
Interval Start	n/a			Penniman Wy			N Main St			N Main St					
	Eastbound			Westbound			Northbound			Southbound					
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT			
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	1	
Count Total	0	0	0	0	0	0	0	0	0	0	1	0	1	0	
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

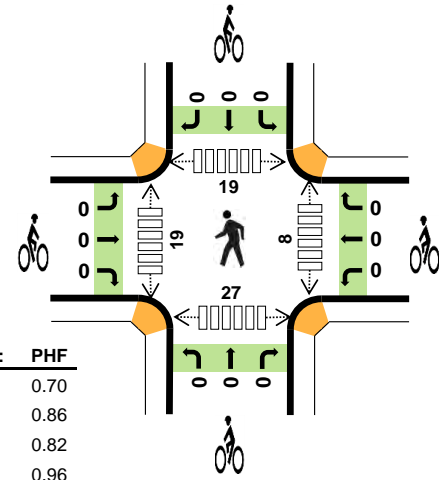
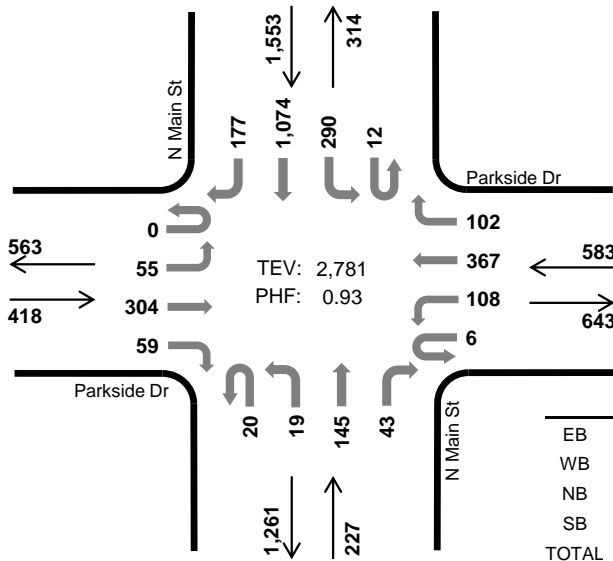
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

N Main St Parkside Dr



Peak Hour

Date: 03/24/2022
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 7:45 AM to 8:45 AM



	HV %:	PHF
EB	4.1%	0.70
WB	0.3%	0.86
NB	3.5%	0.82
SB	2.8%	0.96
TOTAL	2.6%	0.93

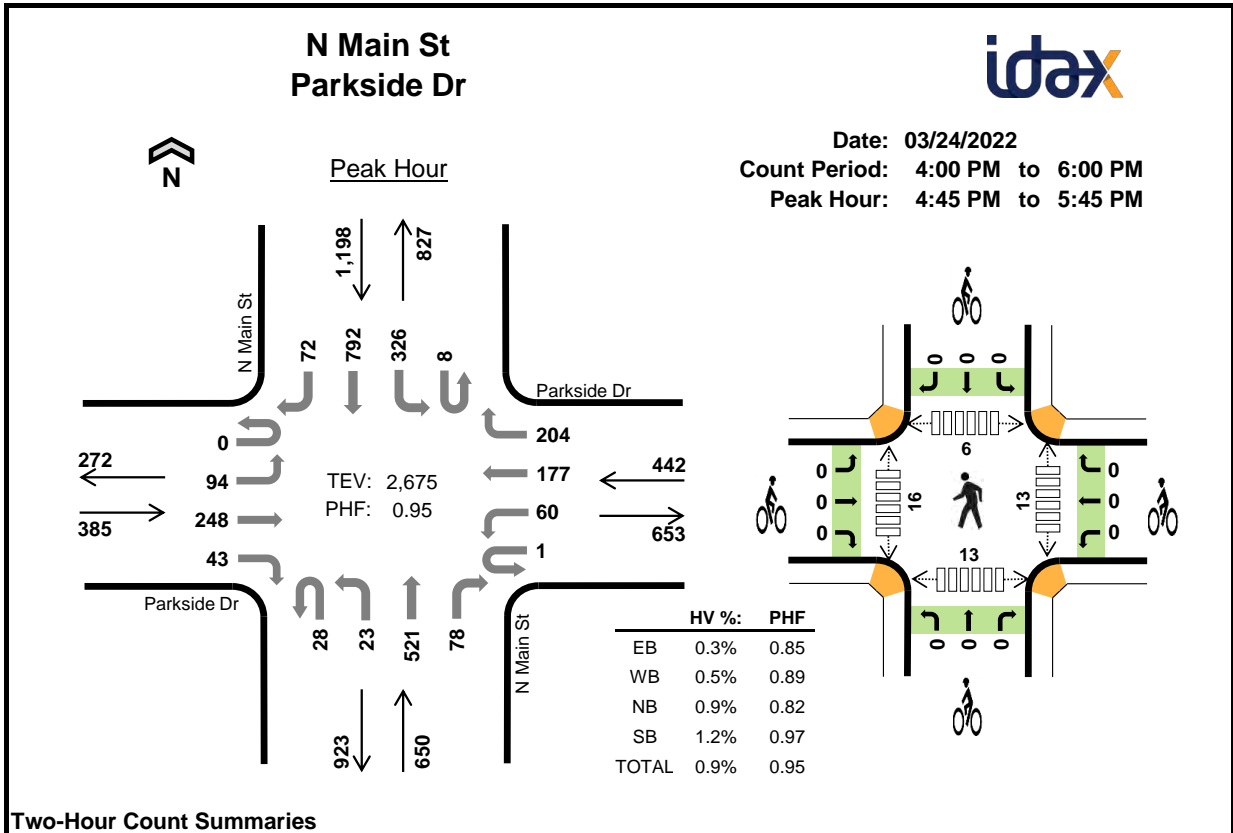
Two-Hour Count Summaries

Interval Start	Parkside Dr Eastbound				Parkside Dr Westbound				N Main St Northbound				N Main St Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
7:00 AM	0	7	22	10	0	10	31	16	0	1	15	1	2	48	128	26	317	0	
7:15 AM	0	10	20	13	0	10	37	2	2	2	27	2	0	57	152	35	369	0	
7:30 AM	0	9	32	13	1	14	47	19	1	1	11	1	2	64	252	26	493	0	
7:45 AM	0	12	52	11	1	36	97	16	6	6	39	9	5	52	270	43	655	1,834	
8:00 AM	0	16	120	14	2	22	127	18	4	2	32	10	5	87	248	43	750	2,267	
8:15 AM	0	18	84	22	1	29	78	30	5	7	42	15	0	79	280	46	736	2,634	
8:30 AM	0	9	48	12	2	21	65	38	5	4	32	9	2	72	276	45	640	2,781	
8:45 AM	0	10	25	18	0	15	47	29	10	7	39	4	3	88	263	32	590	2,716	
Count Total	0	91	403	113	7	157	529	168	33	30	237	51	19	547	1,869	296	4,550	0	
Peak Hour	All	0	55	304	59	6	108	367	102	20	19	145	43	12	290	1,074	177	2,781	0
	HV	0	5	6	6	0	0	2	0	0	0	6	2	0	11	21	12	71	0
	HV%	-	9%	2%	10%	0%	0%	1%	0%	0%	0%	4%	5%	0%	4%	2%	7%	3%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	2	0	1	3	6	0	0	0	0	0	1	1	2	1	5
7:15 AM	0	0	1	7	8	0	0	0	0	0	2	6	2	0	10
7:30 AM	3	0	1	7	11	0	0	0	0	0	1	11	4	5	21
7:45 AM	5	0	0	10	15	0	0	0	0	0	1	12	10	6	29
8:00 AM	4	1	1	11	17	0	0	0	0	0	5	3	7	16	31
8:15 AM	4	1	2	10	17	0	0	0	0	0	0	1	1	1	3
8:30 AM	4	0	5	13	22	0	0	0	0	0	2	3	1	4	10
8:45 AM	3	1	3	4	11	0	0	0	0	0	8	3	0	6	17
Count Total	25	3	14	65	107	0	0	0	0	0	20	40	27	39	126
Peak Hour	17	2	8	44	71	0	0	0	0	0	8	19	19	27	73

Two-Hour Count Summaries - Heavy Vehicles																		
Interval Start	Parkside Dr				Parkside Dr				N Main St				N Main St				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	1	1	0	0	0	0	0	0	0	1	0	0	1	1	1	6	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	2	2	3	8	0
7:30 AM	0	3	0	0	0	0	0	0	0	0	1	0	0	1	6	0	11	0
7:45 AM	0	0	3	2	0	0	0	0	0	0	0	0	0	1	3	6	15	40
8:00 AM	0	2	1	1	0	0	1	0	0	0	1	0	0	5	6	0	17	51
8:15 AM	0	1	2	1	0	0	1	0	0	0	1	1	0	2	6	2	17	60
8:30 AM	0	2	0	2	0	0	0	0	0	0	4	1	0	3	6	4	22	71
8:45 AM	0	1	0	2	0	0	1	0	0	1	2	0	0	0	3	1	11	67
Count Total	0	10	7	8	0	0	3	0	0	1	11	2	0	15	33	17	107	0
Peak Hour	0	5	6	6	0	0	2	0	0	0	6	2	0	11	21	12	71	0
Two-Hour Count Summaries - Bikes																		
Interval Start	Parkside Dr			Parkside Dr			N Main St			N Main St			15-min Total	Rolling One Hour				
	Eastbound			Westbound			Northbound			Southbound								
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT						
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Note: U-Turn volumes for bikes are included in Left-Turn, if any.</i>																		



Two-Hour Count Summaries

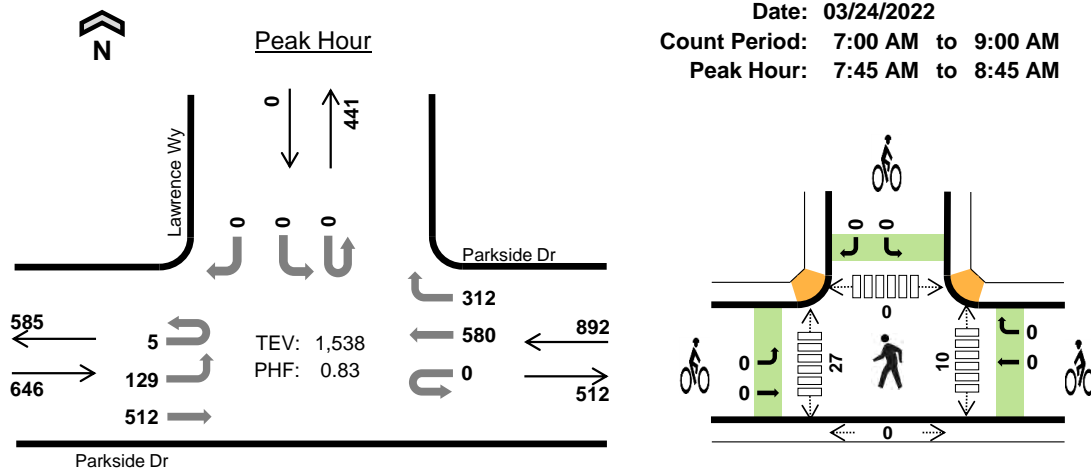
Interval Start	Parkside Dr Eastbound				Parkside Dr Westbound				N Main St Northbound				N Main St Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
4:00 PM	1	18	63	10	1	12	21	61	8	8	108	17	1	77	174	22	602	0	
4:15 PM	0	16	70	15	0	10	18	57	4	7	106	17	3	90	198	25	636	0	
4:30 PM	0	18	67	9	0	15	32	29	7	5	132	14	2	81	208	18	637	0	
4:45 PM	0	18	47	15	0	15	40	51	7	9	166	16	3	70	200	23	680	2,555	
5:00 PM	0	24	83	6	0	14	42	45	10	7	118	18	0	78	192	14	651	2,604	
5:15 PM	0	25	68	14	1	13	58	52	6	2	131	26	1	96	200	12	705	2,673	
5:30 PM	0	27	50	8	0	18	37	56	5	5	106	18	4	82	200	23	639	2,675	
5:45 PM	0	18	51	9	0	17	33	41	5	7	115	17	1	67	209	23	613	2,608	
Count Total	1	164	499	86	2	114	281	392	52	50	982	143	15	641	1,581	160	5,163	0	
Peak Hour	All	0	94	248	43	1	60	177	204	28	23	521	78	8	326	792	72	2,675	0
	HV	0	1	0	0	0	0	1	1	0	1	5	0	0	2	9	3	23	0
	HV%	-	1%	0%	0%	0%	0%	1%	0%	0%	4%	1%	0%	0%	1%	1%	4%	1%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	5	0	6	2	13	0	0	0	0	0	3	5	0	9	17
4:15 PM	1	0	0	2	3	0	0	0	0	0	1	2	2	1	6
4:30 PM	2	0	3	5	10	0	0	0	0	0	5	0	3	3	11
4:45 PM	0	0	3	3	6	0	0	0	0	0	4	1	3	2	10
5:00 PM	1	1	1	4	7	0	0	0	0	0	1	2	0	5	8
5:15 PM	0	1	0	3	4	0	0	0	0	0	3	9	1	2	15
5:30 PM	0	0	2	4	6	0	0	0	0	0	5	4	2	4	15
5:45 PM	0	1	2	1	4	1	1	0	0	2	4	3	2	1	10
Count Total	9	3	17	24	53	1	1	0	0	2	26	26	13	27	92
Peak Hour	1	2	6	14	23	0	0	0	0	0	13	16	6	13	48

Two-Hour Count Summaries - Heavy Vehicles																		
Interval Start	Parkside Dr				Parkside Dr				N Main St				N Main St				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	1	3	1	0	0	0	0	0	0	5	1	0	1	0	1	13	0
4:15 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	3	0
4:30 PM	0	1	0	1	0	0	0	0	0	0	3	0	0	0	3	2	10	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	1	1	1	6	32
5:00 PM	0	1	0	0	0	0	0	1	0	0	1	0	0	1	2	1	7	26
5:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	4	27
5:30 PM	0	0	0	0	0	0	0	0	0	1	1	0	0	0	3	1	6	23
5:45 PM	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	1	4	21
Count Total	0	3	3	3	0	1	1	1	0	2	14	1	0	4	13	7	53	0
Peak Hour	0	1	0	0	0	0	1	1	0	1	5	0	0	2	9	3	23	0
Two-Hour Count Summaries - Bikes																		
Interval Start	Parkside Dr			Parkside Dr			N Main St			N Main St			15-min Total	Rolling One Hour				
	Eastbound			Westbound			Northbound			Southbound								
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT						
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	2	2
Count Total	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	2	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Note: U-Turn volumes for bikes are included in Left-Turn, if any.</i>																		

Lawrence Wy Parkside Dr



	HV %:	PHF
EB	3.3%	0.73
WB	1.8%	0.90
NB	-	-
SB	-	-
TOTAL	2.4%	0.83

Two-Hour Count Summaries

Interval Start	Parkside Dr Eastbound				Parkside Dr Westbound				N/A Northbound				Lawrence Wy Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
7:00 AM	0	19	52	0	0	0	55	64	0	0	0	0	0	0	0	0	190	0	
7:15 AM	0	12	65	0	0	0	59	62	0	0	0	0	0	0	0	0	198	0	
7:30 AM	0	25	75	0	0	0	77	74	0	0	0	0	0	0	0	0	251	0	
7:45 AM	0	29	82	0	0	0	160	89	0	0	0	0	0	0	0	0	360	999	
8:00 AM	1	35	184	0	0	0	167	74	0	0	0	0	0	0	0	0	461	1,270	
8:15 AM	0	39	144	0	0	0	136	66	0	0	0	0	0	0	0	0	385	1,457	
8:30 AM	4	26	102	0	0	0	117	83	0	0	0	0	0	0	0	0	332	1,538	
8:45 AM	1	15	99	0	0	0	92	62	0	0	0	0	0	0	0	0	269	1,447	
Count Total	6	200	803	0	0	0	863	574	0	0	0	0	0	0	0	0	2,446	0	
Peak Hour	All	5	129	512	0	0	0	580	312	0	0	0	0	0	0	0	0	1,538	0
	HV	0	11	10	0	0	0	6	10	0	0	0	0	0	0	0	0	37	0
	HV%	0%	9%	2%	-	-	-	1%	3%	-	-	-	-	-	-	-	-	2%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

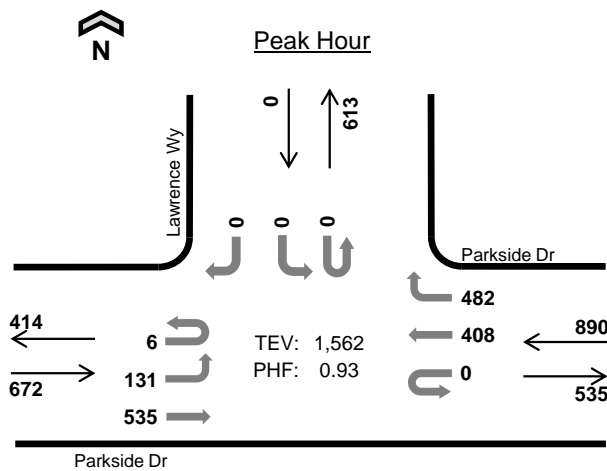
Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	2	5	0	0	7	0	0	0	0	0	0	7	0	0	7
7:15 AM	1	0	0	0	1	1	0	0	0	1	0	4	0	0	4
7:30 AM	1	1	0	0	2	0	0	0	0	0	0	4	0	0	4
7:45 AM	3	0	0	0	3	0	0	0	0	0	1	14	0	0	15
8:00 AM	8	7	0	0	15	0	0	0	0	0	6	6	0	0	12
8:15 AM	6	5	0	0	11	0	0	0	0	0	1	5	0	0	6
8:30 AM	4	4	0	0	8	0	0	0	0	0	2	2	0	0	4
8:45 AM	2	3	0	0	5	0	0	0	0	0	6	2	0	0	8
Count Total	27	25	0	0	52	1	0	0	0	1	16	44	0	0	60
Peak Hr	21	16	0	0	37	0	0	0	0	0	10	27	0	0	37

Two-Hour Count Summaries - Heavy Vehicles														15-min Total	Rolling One Hour			
Interval Start	Parkside Dr				Parkside Dr				N/A				Lawrence Wy					
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	1	1	0	0	0	1	4	0	0	0	0	0	0	0	0	7	0
7:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
7:30 AM	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0
7:45 AM	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	13
8:00 AM	0	4	4	0	0	0	3	4	0	0	0	0	0	0	0	0	15	21
8:15 AM	0	3	3	0	0	0	2	3	0	0	0	0	0	0	0	0	11	31
8:30 AM	0	1	3	0	0	0	1	3	0	0	0	0	0	0	0	0	8	37
8:45 AM	0	0	2	0	0	0	1	2	0	0	0	0	0	0	0	0	5	39
Count Total	0	12	15	0	0	0	8	17	0	0	0	0	0	0	0	0	52	0
Peak Hour	0	11	10	0	0	0	6	10	0	0	0	0	0	0	0	0	37	0

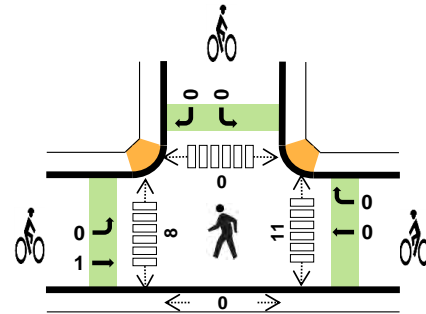
Two-Hour Count Summaries - Bikes														15-min Total	Rolling One Hour			
Interval Start	Parkside Dr			Parkside Dr			N/A			Lawrence Wy								
	Eastbound			Westbound			Northbound			Southbound								
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT			
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Lawrence Wy Parkside Dr



Date: 03/24/2022
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 4:30 PM to 5:30 PM



	HV %:	PHF
EB	0.6%	0.88
WB	1.9%	0.93
NB	-	-
SB	-	-
TOTAL	1.3%	0.93

Two-Hour Count Summaries

Interval Start	Parkside Dr Eastbound				Parkside Dr Westbound				N/A Northbound				Lawrence Wy Southbound				15-min Total	Rolling One Hour	
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
4:00 PM	1	42	120	0	0	0	92	119	0	0	0	0	0	0	0	0	374	0	
4:15 PM	0	23	151	0	0	0	85	90	0	0	0	0	0	0	0	0	349	0	
4:30 PM	2	33	128	0	0	0	80	134	0	0	0	0	0	0	0	0	377	0	
4:45 PM	0	24	115	0	0	0	104	112	0	0	0	0	0	0	0	0	355	1,455	
5:00 PM	0	42	138	0	0	0	103	136	0	0	0	0	0	0	0	0	419	1,500	
5:15 PM	4	32	154	0	0	0	121	100	0	0	0	0	0	0	0	0	411	1,562	
5:30 PM	0	31	118	0	0	0	112	89	0	0	0	0	0	0	0	0	350	1,535	
5:45 PM	2	23	116	0	0	0	92	92	0	0	0	0	0	0	0	0	325	1,505	
Count Total	9	250	1,040	0	0	0	789	872	0	0	0	0	0	0	0	0	2,960	0	
Peak Hour	All	6	131	535	0	0	0	408	482	0	0	0	0	0	0	0	0	1,562	0
	HV	0	2	2	0	0	0	6	11	0	0	0	0	0	0	0	0	21	0
	HV%	0%	2%	0%	-	-	-	1%	2%	-	-	-	-	-	-	-	-	1%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	4	6	0	0	10	0	0	0	0	0	7	4	0	0	11
4:15 PM	2	5	0	0	7	0	0	0	0	0	1	0	0	0	1
4:30 PM	0	4	0	0	4	0	0	0	0	0	1	6	0	0	7
4:45 PM	3	7	0	0	10	0	0	0	0	0	3	0	0	0	3
5:00 PM	1	3	0	0	4	0	0	0	0	0	3	2	0	0	5
5:15 PM	0	3	0	0	3	1	0	0	0	1	4	0	0	0	4
5:30 PM	0	2	0	0	2	0	0	0	0	0	3	5	0	0	8
5:45 PM	0	2	0	0	2	0	0	0	0	0	1	2	0	0	3
Count Total	10	32	0	0	42	1	0	0	0	1	23	19	0	0	42
Peak Hr	4	17	0	0	21	1	0	0	0	1	11	8	0	0	19

Two-Hour Count Summaries - Heavy Vehicles																		
Interval Start	Parkside Dr				Parkside Dr				N/A				Lawrence Wy				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	1	3	0	0	0	2	4	0	0	0	0	0	0	0	0	10	0
4:15 PM	0	0	2	0	0	0	2	3	0	0	0	0	0	0	0	0	7	0
4:30 PM	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	4	0
4:45 PM	0	2	1	0	0	0	2	5	0	0	0	0	0	0	0	0	10	31
5:00 PM	0	0	1	0	0	0	1	2	0	0	0	0	0	0	0	0	4	25
5:15 PM	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	3	21
5:30 PM	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	19
5:45 PM	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	2	11
Count Total	0	3	7	0	0	0	11	21	0	0	0	0	0	0	0	0	42	0
Peak Hour	0	2	2	0	0	0	6	11	0	0	0	0	0	0	0	0	21	0

Two-Hour Count Summaries - Bikes																		
Interval Start	Parkside Dr				Parkside Dr				N/A				Lawrence Wy				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	LT	TH	RT	RT	LT	TH	RT	RT	LT	TH	RT	RT	LT	TH	RT	RT		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Count Total	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Peak Hour	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

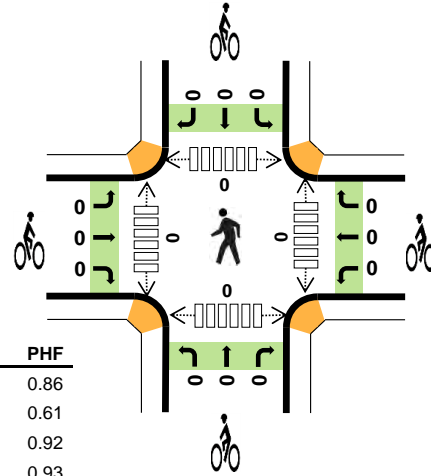
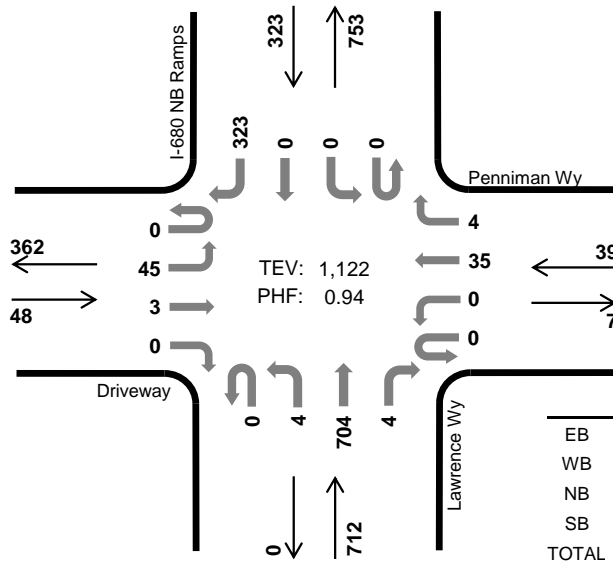
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Lawrence Wy Penniman Wy



Peak Hour

Date: 03/24/2022
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 7:45 AM to 8:45 AM



	HV %:	PHF
EB	10.4%	0.86
WB	23.1%	0.61
NB	3.2%	0.92
SB	6.8%	0.93
TOTAL	5.3%	0.94

Two-Hour Count Summaries

Interval Start	Driveway				Penniman Wy				Lawrence Wy				I-680 NB Ramps				15-min Total	Rolling One Hour	
	Eastbound		Westbound		Westbound		Northbound		Southbound		Southbound		Southbound						
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
7:00 AM	0	3	0	0	0	0	0	0	0	1	113	2	0	0	0	32	151	0	
7:15 AM	0	9	0	0	0	0	0	0	0	0	131	0	0	0	0	60	200	0	
7:30 AM	0	13	0	0	0	0	0	0	0	1	142	0	0	0	0	52	208	0	
7:45 AM	0	9	0	0	0	0	8	3	0	2	191	1	0	0	0	84	298	857	
8:00 AM	0	12	1	0	0	0	15	1	0	1	161	0	0	0	0	68	259	965	
8:15 AM	0	13	1	0	0	0	10	0	0	0	172	1	0	0	0	84	281	1,046	
8:30 AM	0	11	1	0	0	0	2	0	0	1	180	2	0	0	0	87	284	1,122	
8:45 AM	0	10	0	0	0	0	3	2	0	4	147	6	0	0	0	77	249	1,073	
Count Total	0	80	3	0	0	0	38	6	0	10	1,237	12	0	0	0	544	1,930	0	
Peak Hour	All	0	45	3	0	0	0	35	4	0	4	704	4	0	0	0	323	1,122	0
	HV	0	5	0	0	0	0	8	1	0	0	23	0	0	0	0	22	59	0
	HV%	-	11%	0%	-	-	-	23%	25%	-	0%	3%	0%	-	-	-	7%	5%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	2	0	6	0	8	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
7:30 AM	2	0	1	1	4	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	1	4	7	12	0	0	0	0	0	0	0	0	0	0
8:00 AM	2	2	7	3	14	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	5	8	9	22	0	0	0	0	0	0	0	0	0	0
8:30 AM	3	1	4	3	11	0	0	0	0	0	0	0	0	0	0
8:45 AM	1	1	7	2	11	0	0	0	0	0	0	0	0	0	0
Count Total	10	10	38	25	83	0	0	0	0	0	0	0	0	0	0
Peak Hour	5	9	23	22	59	0	0	0	0	0	0	0	0	0	0

Two-Hour Count Summaries - Heavy Vehicles																		
Interval Start	Driveway				Penniman Wy				Lawrence Wy				I-680 NB Ramps				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	2	0	0	0	0	0	0	0	0	6	0	0	0	0	0	8	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
7:30 AM	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	1	4	0
7:45 AM	0	0	0	0	0	0	0	1	0	0	4	0	0	0	0	7	12	25
8:00 AM	0	2	0	0	0	0	2	0	0	0	7	0	0	0	0	3	14	31
8:15 AM	0	0	0	0	0	0	5	0	0	0	8	0	0	0	0	9	22	52
8:30 AM	0	3	0	0	0	0	1	0	0	0	4	0	0	0	0	3	11	59
8:45 AM	0	1	0	0	0	0	0	1	0	0	7	0	0	0	0	2	11	58
Count Total	0	10	0	0	0	0	8	2	0	0	38	0	0	0	0	25	83	0
Peak Hour	0	5	0	0	0	0	8	1	0	0	23	0	0	0	0	22	59	0

Two-Hour Count Summaries - Bikes																	
Interval Start	Driveway			Penniman Wy			Lawrence Wy			I-680 NB Ramps			15-min Total	Rolling One Hour			
	Eastbound			Westbound			Northbound			Southbound							
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT					
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

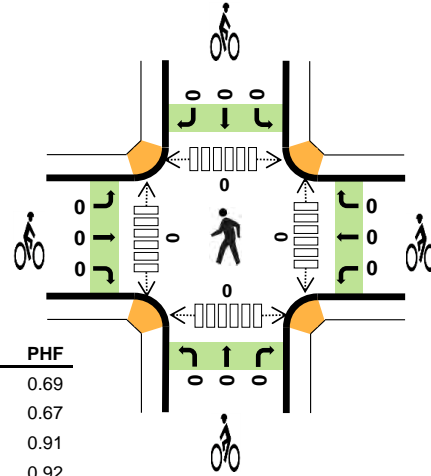
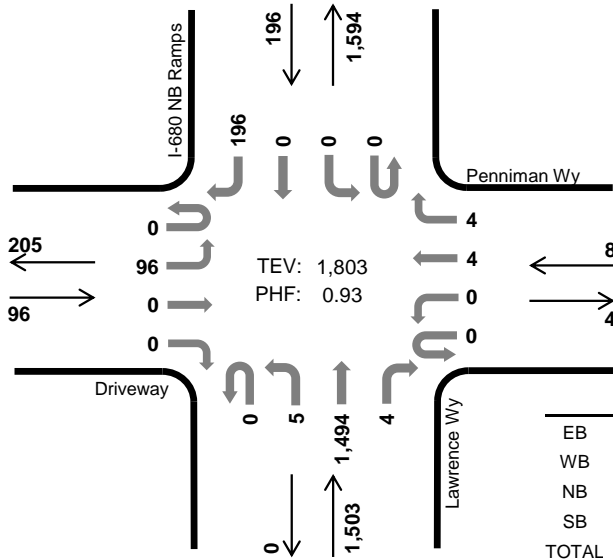
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Lawrence Wy Penniman Wy



Peak Hour

Date: 03/24/2022
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 4:30 PM to 5:30 PM



	HV %:	PHF
EB	3.1%	0.69
WB	0.0%	0.67
NB	1.1%	0.91
SB	0.0%	0.92
TOTAL	1.1%	0.93

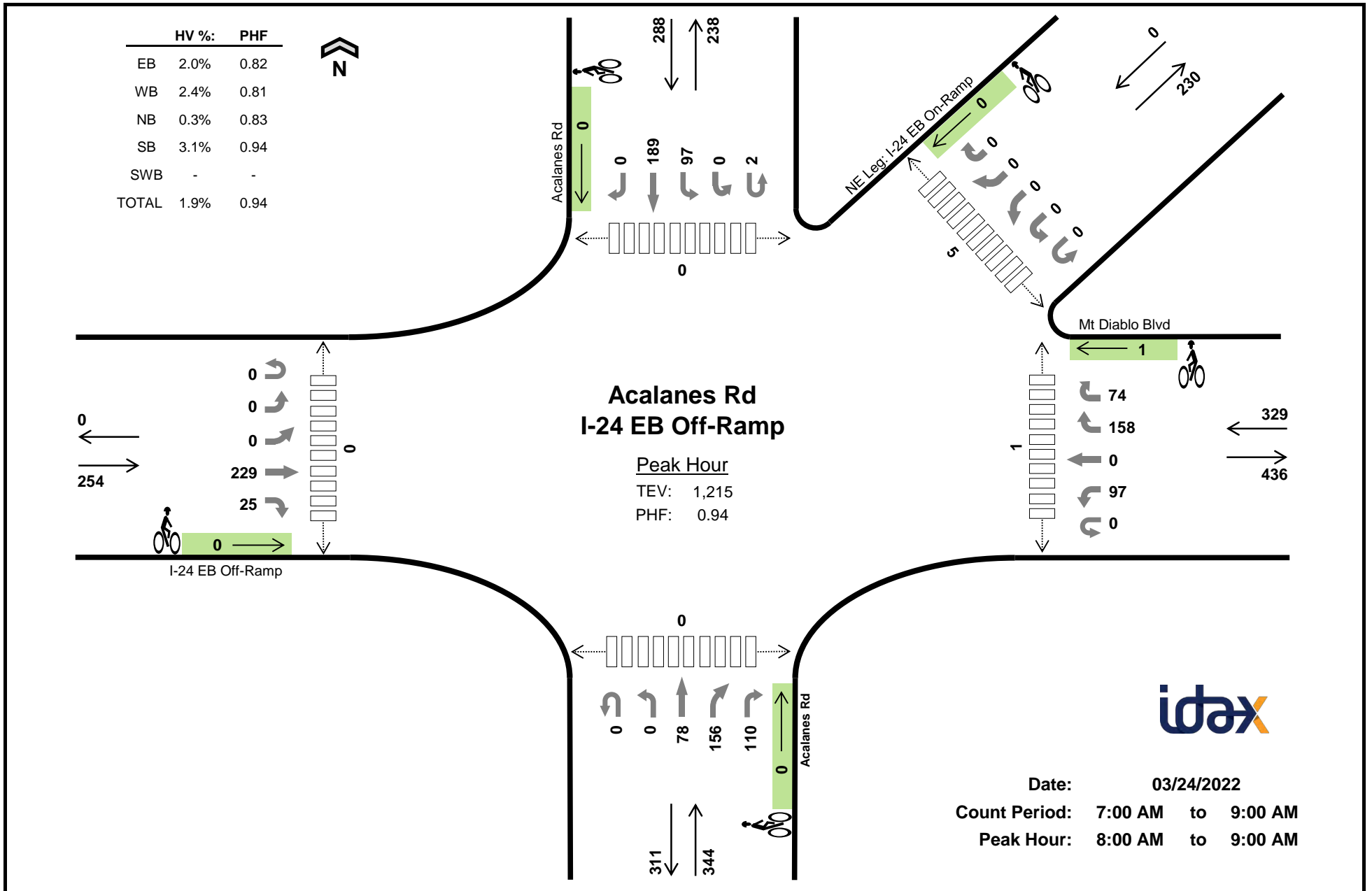
Two-Hour Count Summaries

Interval Start	Driveway				Penniman Wy				Lawrence Wy				I-680 NB Ramps				15-min Total	Rolling One Hour	
	Eastbound		Westbound		Northbound		Southbound		UT	LT	TH	RT	UT	LT	TH	RT			
4:00 PM	0	17	0	0	0	0	4	1	0	3	362	2	0	0	0	63	452	0	
4:15 PM	0	11	0	0	0	0	0	1	0	4	364	0	0	0	0	38	418	0	
4:30 PM	0	23	0	0	0	0	0	1	0	2	342	0	0	0	0	53	421	0	
4:45 PM	0	21	0	0	0	0	1	1	0	0	382	2	0	0	0	50	457	1,748	
5:00 PM	0	35	0	0	0	0	1	1	0	1	360	1	0	0	0	41	440	1,736	
5:15 PM	0	17	0	0	0	0	2	1	0	2	410	1	0	0	0	52	485	1,803	
5:30 PM	0	26	0	0	0	0	0	0	0	2	320	1	0	0	0	66	415	1,797	
5:45 PM	0	21	0	0	0	0	3	0	0	1	296	0	0	0	0	37	358	1,698	
Count Total	0	171	0	0	0	0	11	6	0	15	2,836	7	0	0	0	400	3,446	0	
Peak Hour	All	0	96	0	0	0	0	4	4	0	5	1,494	4	0	0	0	196	1,803	0
	HV	0	3	0	0	0	0	0	0	0	0	17	0	0	0	0	0	20	0
	HV%	-	3%	-	-	-	-	0%	0%	-	0%	1%	0%	-	-	-	0%	1%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	1	0	4	0	5	0	0	0	0	0	0	0	0	0	0
4:15 PM	1	0	11	0	12	0	0	0	0	0	0	0	0	0	0
4:30 PM	1	0	2	0	3	0	0	0	0	0	0	0	0	0	0
4:45 PM	1	0	7	0	8	0	0	0	0	0	0	0	0	0	0
5:00 PM	1	0	6	0	7	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0
5:30 PM	1	0	4	1	6	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
Count Total	6	0	37	1	44	0	0	0	0	0	0	0	0	0	0
Peak Hour	3	0	17	0	20	0	0	0	0	0	0	0	0	0	0

Two-Hour Count Summaries - Heavy Vehicles																		
Interval Start	Driveway				Penniman Wy				Lawrence Wy				I-680 NB Ramps				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	1	0	0	0	0	0	0	0	0	4	0	0	0	0	0	5	0
4:15 PM	0	1	0	0	0	0	0	0	0	0	1	10	0	0	0	0	12	0
4:30 PM	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0
4:45 PM	0	1	0	0	0	0	0	0	0	0	7	0	0	0	0	0	8	28
5:00 PM	0	1	0	0	0	0	0	0	0	0	6	0	0	0	0	0	7	30
5:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	20
5:30 PM	0	1	0	0	0	0	0	0	0	0	4	0	0	0	0	1	6	23
5:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	16
Count Total	0	6	0	0	0	0	0	0	0	0	1	36	0	0	0	1	44	0
Peak Hour	0	3	0	0	0	0	0	0	0	0	17	0	0	0	0	0	20	0
Two-Hour Count Summaries - Bikes																		
Interval Start	Driveway			Penniman Wy			Lawrence Wy			I-680 NB Ramps			15-min Total	Rolling One Hour				
	Eastbound			Westbound			Northbound			Southbound								
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT						
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Peak Hour	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Note: U-Turn volumes for bikes are included in Left-Turn, if any.</i>																		



Date: 03/24/2022
 Count Period: 7:00 AM to 9:00 AM
 Peak Hour: 8:00 AM to 9:00 AM

Two-Hour Count Summaries

Interval Start	I-24 EB Off-Ramp					Mt Diablo Blvd					Acalanes Rd					Acalanes Rd					NE Leg: I-24 EB On-Ramp					15-min Total	Rolling One Hour
	Eastbound					Westbound					Northbound					Southbound					Southwestbound						
	UT	LT	BL	TH	RT	UT	LT	TH	RT	HR	UT	LT	TH	BR	RT	UT	HL	LT	TH	RT	UT	HL	BL	BR	HR		
7:00 AM	0	0	0	16	4	0	7	0	21	7	0	0	4	10	6	0	0	4	11	0	0	0	0	0	0	90	0
7:15 AM	0	0	0	32	1	0	11	0	26	8	0	0	7	17	5	0	0	7	33	0	0	0	0	0	0	147	0
7:30 AM	0	0	0	24	11	0	9	0	15	7	0	0	5	46	16	0	0	8	42	0	0	0	0	0	0	183	0
7:45 AM	0	0	0	40	9	0	9	0	15	6	0	0	13	65	24	0	0	7	40	0	0	0	0	0	0	228	648
8:00 AM	0	0	0	54	4	0	28	0	39	35	0	0	34	40	30	0	0	16	44	0	0	0	0	0	324	882	
8:15 AM	0	0	0	56	9	0	19	0	34	15	0	0	22	45	21	1	0	17	56	0	0	0	0	0	295	1,030	
8:30 AM	0	0	0	50	4	0	19	0	57	17	0	0	11	32	21	1	0	26	50	0	0	0	0	0	288	1,135	
8:45 AM	0	0	0	69	8	0	31	0	28	7	0	0	11	39	38	0	0	38	39	0	0	0	0	0	308	1,215	
Count Total	0	0	0	341	50	0	133	0	235	102	0	0	107	294	161	2	0	123	315	0	0	0	0	0	1,863	0	
Peak Hour	All	0	0	0	229	25	0	97	0	158	74	0	0	78	156	110	2	0	97	189	0	0	0	0	0	1,215	0
	HV	0	0	0	5	0	0	0	0	5	3	0	0	0	1	0	0	0	3	6	0	0	0	0	0	23	0
	HV%	-	-	-	2%	0%	-	0%	-	3%	4%	-	-	0%	1%	0%	0%	-	3%	3%	-	-	-	-	-	2%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals						Bicycles						Pedestrians (Crossing Leg)						
	EB	WB	NB	SB	SWB	Total	EB	WB	NB	SB	SWB	Total	East	West	North	South	Northeast	Total	
7:00 AM	1	0	1	2	0	4	0	0	0	0	0	0	0	0	0	0	0	1	1
7:15 AM	2	3	1	1	0	7	0	0	1	0	0	1	0	0	0	0	0	0	0
7:30 AM	0	1	1	3	0	5	0	0	0	0	0	0	0	0	0	0	0	2	2
7:45 AM	0	2	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	1	1
8:00 AM	2	3	0	1	0	6	0	0	0	0	0	0	0	0	0	0	0	3	3
8:15 AM	2	2	1	2	0	7	0	0	0	0	0	0	0	0	0	1	0	0	1
8:30 AM	0	2	0	5	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	1	1	0	1	0	3	0	1	0	0	0	1	0	0	0	0	0	2	2
Count Total	8	14	4	16	0	42	0	1	1	0	0	2	1	0	0	0	0	9	10
Peak Hr	5	8	1	9	0	23	0	1	0	0	0	1	1	0	0	0	0	5	6

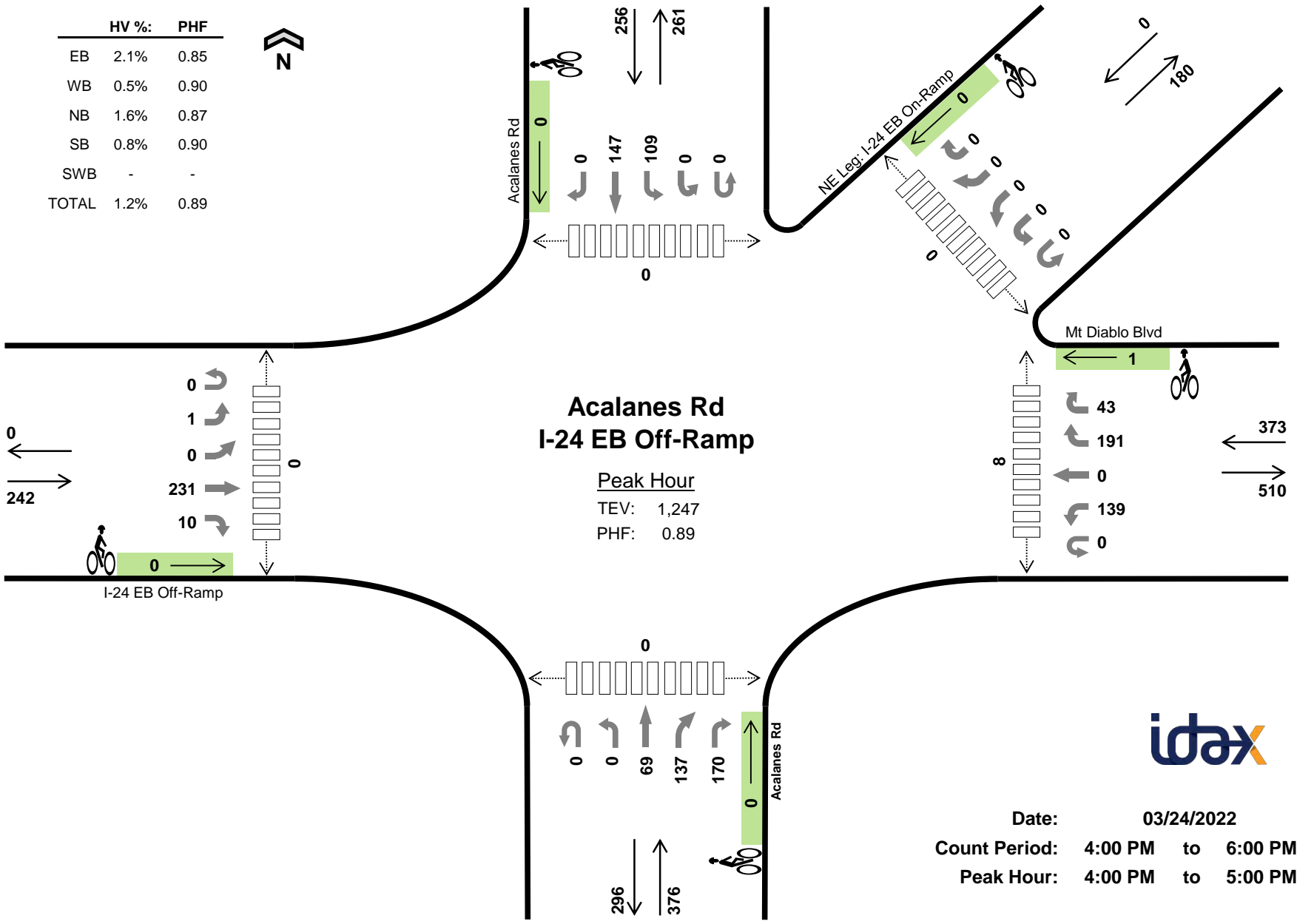
Two-Hour Count Summaries - Heavy Vehicles

Interval Start	I-24 EB Off-Ramp					Mt Diablo Blvd					Acalanes Rd					Acalanes Rd					NE Leg: I-24 EB On-Ramp					15-min Total	Rolling One Hour
	Eastbound					Westbound					Northbound					Southbound					Southwestbound						
	UT	LT	BL	TH	RT	UT	LT	TH	RT	HR	UT	LT	TH	BR	RT	UT	HL	LT	TH	RT	UT	HL	BL	BR	HR		
7:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	4	0
7:15 AM	0	0	0	2	0	0	0	1	2	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	7	0
7:30 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2	1	0	0	0	0	0	0	5	0
7:45 AM	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	19
8:00 AM	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	6	21
8:15 AM	0	0	0	2	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	7	21
8:30 AM	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	7	23
8:45 AM	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3	23
Count Total	0	0	0	8	0	0	1	0	10	3	0	0	1	3	0	0	0	6	10	0	0	0	0	0	0	42	0
Peak Hour	0	0	0	5	0	0	0	0	5	3	0	0	0	1	0	0	0	3	6	0	0	0	0	0	0	23	0

Two-Hour Count Summaries - Bikes

Interval Start	I-24 EB Off-Ramp					Mt Diablo Blvd					Acalanes Rd					Acalanes Rd					NE Leg: I-24 EB On-Ramp					15-min Total	Rolling One Hour
	Eastbound					Westbound					Northbound					Southbound					Southwestbound						
	UT	LT	BL	TH	RT	UT	LT	TH	RT	HR	UT	LT	TH	BR	RT	UT	HL	LT	TH	RT	UT	HL	BL	BR	HR		
7:00 AM	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	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
7:30 AM	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	0	0
7:45 AM	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	0	1
8:00 AM	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	0	1
8:15 AM	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	0	0
8:30 AM	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	0	0
8:45 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Count Total	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Peak Hour	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

	HV %:	PHF
EB	2.1%	0.85
WB	0.5%	0.90
NB	1.6%	0.87
SB	0.8%	0.90
SWB	-	-
TOTAL	1.2%	0.89



Two-Hour Count Summaries

Interval Start	I-24 EB Off-Ramp					Mt Diablo Blvd					Acalanes Rd					Acalanes Rd					NE Leg: I-24 EB On-Ramp					15-min Total	Rolling One Hour	
	Eastbound					Westbound					Northbound					Southbound					Southwestbound							
	UT	LT	BL	TH	RT	UT	LT	TH	RT	HR	UT	LT	TH	BR	RT	UT	HL	LT	TH	RT	UT	HL	BL	BR	HR			
4:00 PM	0	1	0	67	3	0	37	0	57	10	0	0	18	47	43	0	0	32	36	0	0	0	0	0	0	351	0	
4:15 PM	0	0	0	52	2	0	38	0	49	15	0	0	13	38	41	0	0	17	38	0	0	0	0	0	0	303	0	
4:30 PM	0	0	0	60	1	0	27	0	43	13	0	0	22	29	41	0	0	32	30	0	0	0	0	0	0	298	0	
4:45 PM	0	0	0	52	4	0	37	0	42	5	0	0	16	23	45	0	0	28	43	0	0	0	0	0	0	295	1,247	
5:00 PM	0	0	0	68	5	0	32	0	53	15	0	0	12	39	37	0	0	15	36	0	0	0	0	0	0	312	1,208	
5:15 PM	0	0	0	70	2	0	31	0	40	12	0	0	9	30	47	0	0	25	30	0	0	0	0	0	0	296	1,201	
5:30 PM	0	1	0	70	1	0	28	0	29	11	0	0	21	27	42	0	0	18	35	0	0	0	0	0	0	283	1,186	
5:45 PM	0	0	0	55	6	0	36	0	30	14	0	0	9	24	39	0	0	23	33	0	0	0	0	0	0	269	1,160	
Count Total	0	2	0	494	24	0	266	0	343	95	0	0	120	257	335	0	0	190	281	0	0	0	0	0	0	2,407	0	
Peak Hour	All	0	1	0	231	10	0	139	0	191	43	0	0	69	137	170	0	0	109	147	0	0	0	0	0	0	1,247	0
	HV	0	0	0	5	0	0	1	0	1	0	0	0	1	3	2	0	0	1	1	0	0	0	0	0	0	15	0
	HV%	-	0%	-	2%	0%	-	1%	-	1%	0%	-	-	1%	2%	1%	-	-	1%	1%	-	-	-	-	-	-	1%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals						Bicycles						Pedestrians (Crossing Leg)					
	EB	WB	NB	SB	SWB	Total	EB	WB	NB	SB	SWB	Total	East	West	North	South	Northeast	Total
4:00 PM	1	1	3	1	0	6	0	0	0	0	0	0	2	0	0	0	0	2
4:15 PM	1	0	1	0	0	2	0	0	0	0	0	0	4	0	0	0	0	4
4:30 PM	0	1	1	0	0	2	0	0	0	0	0	0	2	0	0	0	0	2
4:45 PM	3	0	1	1	0	5	0	1	0	0	0	1	0	0	0	0	0	0
5:00 PM	0	0	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	2
5:15 PM	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	3	1	0	4	0	0	0	0	0	0	0	0	0	0	1	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Total	5	2	11	3	0	21	0	2	0	0	0	2	8	0	0	0	3	11
Peak Hr	5	2	6	2	0	15	0	1	0	0	0	1	8	0	0	0	0	8

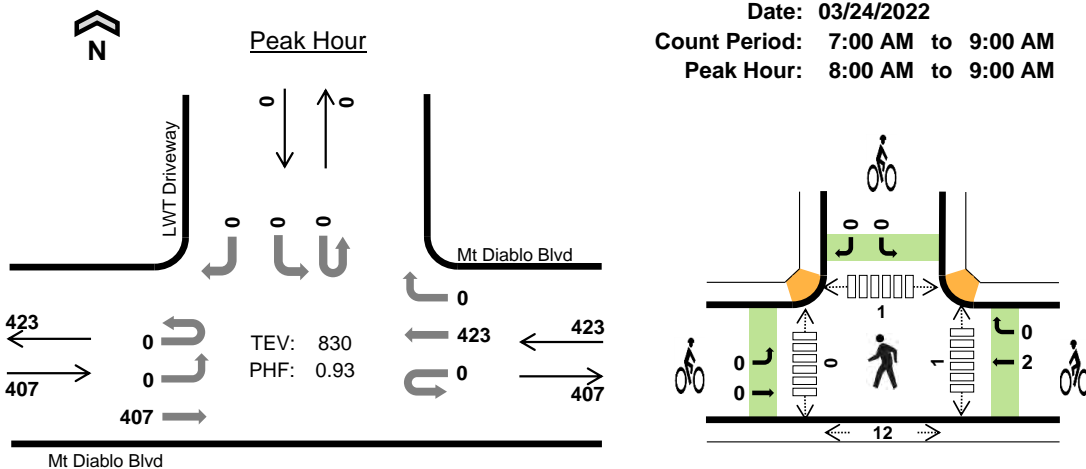
Two-Hour Count Summaries - Heavy Vehicles

Interval Start	I-24 EB Off-Ramp					Mt Diablo Blvd					Acalanes Rd					Acalanes Rd					15-min Total	Rolling One Hour					
	Eastbound					Westbound					Northbound					Southbound							NE Leg: I-24 EB On-Ramp				
	UT	LT	BL	TH	RT	UT	LT	TH	RT	HR	UT	LT	TH	BR	RT	UT	HL	LT	TH	RT	UT	HL	BL	BR	HR		
4:00 PM	0	0	0	1	0	0	1	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0	0	6	0
4:15 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0
4:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0
4:45 PM	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	5	15
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	10
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	9
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0	0	0	0	0	4	11
5:45 PM	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	0	6
Count Total	0	0	0	5	0	0	1	0	1	0	0	0	3	6	2	0	0	1	2	0	0	0	0	0	0	21	0
Peak Hour	0	0	0	5	0	0	1	0	1	0	0	0	1	3	2	0	0	1	1	0	0	0	0	0	0	15	0

Two-Hour Count Summaries - Bikes

Interval Start	I-24 EB Off-Ramp					Mt Diablo Blvd					Acalanes Rd					Acalanes Rd					15-min Total	Rolling One Hour					
	Eastbound					Westbound					Northbound					Southbound							NE Leg: I-24 EB On-Ramp				
	UT	LT	BL	TH	RT	UT	LT	TH	RT	HR	UT	LT	TH	BR	RT	UT	HL	LT	TH	RT	UT	HL	BL	BR	HR		
4:00 PM	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	0	0
4:15 PM	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	0	0
4:30 PM	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	0	0
4:45 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
5:00 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
5:15 PM	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	0	2
5:30 PM	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	0	2
5:45 PM	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	0	1
Count Total	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Peak Hour	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

LWT Driveway Mt Diablo Blvd



	HV %:	PHF
EB	2.2%	0.85
WB	1.9%	0.85
NB	-	-
SB	-	-
TOTAL	2.0%	0.93

Two-Hour Count Summaries

Interval Start	Mt Diablo Blvd				Mt Diablo Blvd				N/A				LWT Driveway				15-min Total	Rolling One Hour	
	Eastbound		Westbound		Northbound		Southbound		Eastbound		Westbound		Southbound						
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT			
7:00 AM	0	0	28	0	0	0	29	0	0	0	0	0	0	0	0	2	59	0	
7:15 AM	0	0	43	0	0	0	51	2	0	0	0	0	0	0	0	0	96	0	
7:30 AM	0	0	52	0	0	0	47	0	0	0	0	0	0	0	0	0	99	0	
7:45 AM	0	0	76	0	0	0	50	0	0	0	0	0	0	0	0	2	128	382	
8:00 AM	0	0	107	0	0	0	116	0	0	0	0	0	0	0	0	0	223	546	
8:15 AM	0	0	94	0	0	0	95	0	0	0	0	0	0	0	0	0	189	639	
8:30 AM	0	0	86	0	0	0	125	0	0	0	0	0	0	0	0	0	211	751	
8:45 AM	0	0	120	0	0	0	87	0	0	0	0	0	0	0	0	0	207	830	
Count Total	0	0	606	0	0	0	600	2	0	0	0	0	0	0	0	4	1,212	0	
Peak Hour	All	0	0	407	0	0	0	423	0	0	0	0	0	0	0	0	0	830	0
	HV	0	0	9	0	0	0	8	0	0	0	0	0	0	0	0	0	17	0
	HV%	-	-	2%	-	-	-	2%	-	-	-	-	-	-	-	-	-	2%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

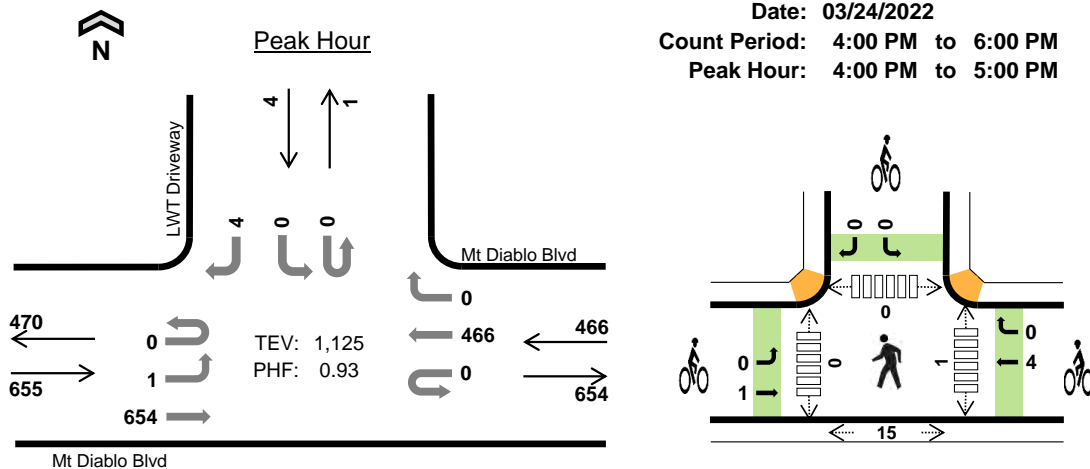
Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	1	1	0	0	2	0	0	0	0	0	0	0	1	6	7
7:15 AM	1	1	0	0	2	0	0	0	0	0	0	0	0	2	2
7:30 AM	4	0	0	0	4	0	0	0	0	0	0	0	0	2	2
7:45 AM	0	2	0	0	2	2	0	0	0	2	0	0	0	0	0
8:00 AM	4	1	0	0	5	0	0	0	0	0	0	0	0	2	2
8:15 AM	2	3	0	0	5	0	0	0	0	0	1	0	0	1	2
8:30 AM	2	2	0	0	4	0	1	0	0	1	0	0	1	5	6
8:45 AM	1	2	0	0	3	0	1	0	0	1	0	0	0	4	4
Count Total	15	12	0	0	27	2	2	0	0	4	1	0	2	22	25
Peak Hr	9	8	0	0	17	0	2	0	0	2	1	0	1	12	14

Two-Hour Count Summaries - Heavy Vehicles														15-min Total	Rolling One Hour			
Interval Start	Mt Diablo Blvd				Mt Diablo Blvd				N/A				LWT Driveway					
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0
7:15 AM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0
7:30 AM	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
7:45 AM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	10
8:00 AM	0	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	5	13
8:15 AM	0	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	5	16
8:30 AM	0	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	4	16
8:45 AM	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	3	17
Count Total	0	0	15	0	0	0	12	0	0	0	0	0	0	0	0	0	27	0
Peak Hour	0	0	9	0	0	0	8	0	0	0	0	0	0	0	0	0	17	0

Two-Hour Count Summaries - Bikes														15-min Total	Rolling One Hour
Interval Start	Mt Diablo Blvd			Mt Diablo Blvd			N/A			LWT Driveway					
	Eastbound			Westbound			Northbound			Southbound					
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT			
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:45 AM	0	2	0	0	0	0	0	0	0	0	0	0	2	2	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
8:30 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	3	
8:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	2	
Count Total	0	2	0	0	2	0	0	0	0	0	0	0	4	0	
Peak Hour	0	0	0	0	2	0	0	0	0	0	0	0	2	0	

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

LWT Driveway Mt Diablo Blvd



	HV %:	PHF
EB	1.5%	0.96
WB	0.9%	0.83
NB	-	-
SB	50.0%	0.50
TOTAL	1.4%	0.93

Two-Hour Count Summaries

Interval Start	Mt Diablo Blvd				Mt Diablo Blvd				N/A				LWT Driveway				15-min Total	Rolling One Hour
	Eastbound		Westbound		Northbound		Southbound		Eastbound		Westbound							
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	1	161	0	0	0	140	0	0	0	0	0	0	0	0	1	303	0
4:15 PM	0	0	153	0	0	0	123	0	0	0	0	0	0	0	0	2	278	0
4:30 PM	0	0	169	0	0	0	98	0	0	0	0	0	0	0	0	0	267	0
4:45 PM	0	0	171	0	0	0	105	0	0	0	0	0	0	0	0	1	277	1,125
5:00 PM	0	0	158	0	0	0	112	0	0	0	0	0	0	0	0	0	270	1,092
5:15 PM	0	0	168	0	0	0	87	0	0	0	0	0	0	0	0	0	255	1,069
5:30 PM	0	0	147	0	0	0	77	0	0	0	0	0	0	0	0	0	224	1,026
5:45 PM	0	0	153	0	0	0	89	0	0	0	0	0	0	0	0	0	242	991
Count Total	0	1	1,280	0	0	0	831	0	0	0	0	0	0	0	0	4	2,116	0
Peak Hour	All	0	1	654	0	0	466	0	0	0	0	0	0	0	0	4	1,125	0
	HV	0	0	10	0	0	4	0	0	0	0	0	0	0	0	2	16	0
	HV%	-	0%	2%	-	-	1%	-	-	-	-	-	-	-	50%	-	1%	0

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	5	0	0	1	6	1	0	0	0	1	0	0	0	4	4
4:15 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	2	2
4:30 PM	1	2	0	0	3	0	3	0	0	3	1	0	0	3	4
4:45 PM	4	0	0	1	5	0	1	0	0	1	0	0	0	6	6
5:00 PM	1	0	0	0	1	0	1	0	0	1	0	1	0	1	2
5:15 PM	0	0	0	0	0	1	1	0	0	2	0	0	0	5	5
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
5:45 PM	1	0	0	0	1	1	0	0	0	1	0	0	0	2	2
Count Total	12	4	0	2	18	3	6	0	0	9	1	1	0	27	29
Peak Hr	10	4	0	2	16	1	4	0	0	5	1	0	0	15	16

Two-Hour Count Summaries - Heavy Vehicles																		
Interval Start	Mt Diablo Blvd				Mt Diablo Blvd				N/A				LWT Driveway				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0
4:15 PM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0
4:30 PM	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	3	0
4:45 PM	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	1	5	16
5:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
5:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2
Count Total	0	0	12	0	0	0	4	0	0	0	0	0	0	0	0	2	18	0
Peak Hour	0	0	10	0	0	0	4	0	0	0	0	0	0	0	0	2	16	0

Two-Hour Count Summaries - Bikes																		
Interval Start	Mt Diablo Blvd				Mt Diablo Blvd				N/A				LWT Driveway				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	LT	TH	RT	RT	LT	TH	RT	RT	LT	TH	RT	RT	LT	TH	RT	RT		
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3	0
4:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	5
5:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	5
5:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	7
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4
Count Total	0	3	0	0	0	6	0	0	0	0	0	0	0	0	0	0	9	0
Peak Hour	0	1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	5	0

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Appendix K - Air Quality and Greenhouse Gases Model Output

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Energy	0	0	0	0	0	0	0	0	0	0	0	0	463	463	0.07	0.01	467	
Water													< 0.005	0.01	0.01	< 0.005	< 0.005	0.02
Waste													0	0	0	0	0	0
Stationary	0.22	0.2	0.88	0.5	< 0.005	0.03	0.03	0.03	0.03	0.03	0.03	0.03	91.4	91.4	< 0.005	< 0.005	91.7	
Vegetation	< 0.005		0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	17.3	17.3			17.3	
Total	0.22	0.89	0.92	0.53	< 0.005	0.03	0.01	0.04	0.03	< 0.005	0.03	< 0.005	593	593	0.08	0.01	0.02	599

3. Construction Emissions Details

3.1. Demolition (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Onsite																			
Daily, Summer (Max)																			
Off-Road Equipment					< 0.005									61.3	61.3	< 0.005	< 0.005		61.5
Demolition							1.02	1.02		0.15	0.15								
Onsite truck	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
Daily, Winter (Max)																			
Average Daily																			
Off-Road Equipment					< 0.005									1.34	1.34	< 0.005	< 0.005		1.35
Demolition							0.02	0.02		< 0.005	< 0.005								
Onsite truck	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
Annual																			
Off-Road Equipment					< 0.005									0.22	0.22	< 0.005	< 0.005		0.22
Demolition							< 0.005	< 0.005		< 0.005	< 0.005								
Onsite truck	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
Offsite																			
Daily, Summer (Max)																			
Worker	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
Vendor	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
Daily, Winter (Max)																			
Average Daily																			
Worker	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
Vendor	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
Annual																			
Worker	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
Vendor	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0

3.3. Site Preparation (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Onsite																			
Daily, Summer (Max)																			
Off-Road Equipment	0.11	0.11	1.23	7.28	0.01	0.02		0.02	0.02		0.02		1199	1199	0.05	0.01		1204	
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005								
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Daily, Winter (Max)																			
Off-Road Equipment	0.11	0.11	1.23	7.28	0.01	0.02		0.02	0.02		0.02		1199	1199	0.05	0.01		1204	
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005								
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Average Daily																			
Off-Road Equipment	0.02	0.02	0.24	1.42	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		233	233	0.01	< 0.005		234	
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005								
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Annual																			
Off-Road Equipment	< 0.005	< 0.005	0.04	0.26	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		38.6	38.6	< 0.005	< 0.005		38.8	
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005								
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Offsite																			
Daily, Summer (Max)																			
Worker	0.06	0.06	0.04	0.7	0	0	0.01	0.01	0	0	0		161	161	< 0.005	0.01	0.55	164	
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Hauling	0.08	0.02	1.01	0.5	0.01	0.01	0.06	0.07	0.01	0.02	0.03		823	823	0.06	0.13	1.6	865	
Daily, Winter (Max)																			
Worker	0.06	0.05	0.05	0.59	0	0	0.01	0.01	0	0	0		147	147	< 0.005	0.01	0.01	150	
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Hauling	0.08	0.02	1.06	0.5	0.01	0.01	0.06	0.07	0.01	0.02	0.03		823	823	0.06	0.13	0.04	864	
Average Daily																			
Worker	0.01	0.01	0.01	0.11	0	0	< 0.005	< 0.005	0	0	0		29	29	< 0.005	< 0.005	0.05	29.4	
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Hauling	0.02	< 0.005	0.2	0.1	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01		160	160	0.01	0.03	0.13	168	
Annual																			
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	0	0		4.8	4.8	< 0.005	< 0.005	0.01	4.87	
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		26.5	26.5	< 0.005	< 0.005	0.02	27.8	

3.5. Grading (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Onsite																			
Daily, Summer (Max)																			

Off-Road Equipment														61.3	61.3	< 0.005	< 0.005			61.5
Dust From Material Movement								0.01	0.01	< 0.005	< 0.005									
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																				
Off-Road Equipment														61.3	61.3	< 0.005	< 0.005			61.5
Dust From Material Movement								0.01	0.01	< 0.005	< 0.005									
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																				
Off-Road Equipment														19.5	19.5	< 0.005	< 0.005			19.5
Dust From Material Movement								< 0.005	< 0.005	< 0.005	< 0.005									
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																				
Off-Road Equipment														3.23	3.23	< 0.005	< 0.005			3.24
Dust From Material Movement								< 0.005	< 0.005	< 0.005	< 0.005									
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																				
Daily, Summer (Max)																				
Worker	0.09	0.08	0.05	0.94	0	0	0.01	0.01	0	0	0			237	237	< 0.005	< 0.005	0.67		239
Vendor	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0
Hauling	0.29	0.07	3.68	1.85	0.02	0.04	0.25	0.29	0.04	0.08	0.12			3056	3056	0.22	0.49	5.25		3212
Daily, Winter (Max)																				
Worker	0.08	0.08	0.06	0.79	0	0	0.01	0.01	0	0	0			217	217	0.01	0.01	0.02		220
Vendor	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0
Hauling	0.29	0.07	3.88	1.87	0.02	0.04	0.25	0.29	0.04	0.08	0.12			3057	3057	0.22	0.49	0.14		3208
Average Daily																				
Worker	0.03	0.02	0.02	0.25	0	0	< 0.005	< 0.005	0	0	0			69.8	69.8	< 0.005	< 0.005	0.09		70.8
Vendor	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0
Hauling	0.09	0.02	1.21	0.59	0.01	0.01	0.08	0.09	0.01	0.03	0.04			971	971	0.07	0.16	0.72		1020
Annual																				
Worker	0.01	< 0.005	< 0.005	0.04	0	0	< 0.005	< 0.005	0	0	0			11.6	11.6	< 0.005	< 0.005	0.02		11.7
Vendor	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0
Hauling	0.02	< 0.005	0.22	0.11	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01			161	161	0.01	0.03	0.12		169

3.7. Building Construction (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Onsite																			
Daily, Summer (Max)																			
Daily, Winter (Max)																			
Off-Road Equipment	0.42	0.41	4.83	21.4	0.04	0.08		0.08	0.08		0.08			3725	3725	0.15	0.03		3738
Onsite truck	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0

Hauling	0.45	0.1	5.52	2.74	0.03	0.06	0.36	0.42	0.06	0.12	0.18	4545	4545	0.34	0.74	8.32	4781
Daily, Winter (Max)																	
Worker	0.09	0.08	0.07	0.88	0	0	0.02	0.02	0	0	0	229	229	0.01	0.01	0.02	232
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.45	0.1	5.81	2.76	0.03	0.06	0.36	0.42	0.06	0.12	0.18	4546	4546	0.34	0.74	0.22	4775
Average Daily																	
Worker	0.07	0.06	0.05	0.61	0	0	0.01	0.01	0	0	0	166	166	< 0.005	0.01	0.24	168
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.32	0.07	4.1	1.97	0.02	0.04	0.26	0.3	0.04	0.09	0.13	3256	3256	0.25	0.53	2.58	3422
Annual																	
Worker	0.01	0.01	0.01	0.11	0	0	< 0.005	< 0.005	0	0	0	27.4	27.4	< 0.005	< 0.005	0.04	27.8
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.06	0.01	0.75	0.36	< 0.005	0.01	0.05	0.05	0.01	0.02	0.02	539	539	0.04	0.09	0.43	567

3.11. Building Construction (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.43	0.41	4.83	21.4	0.04	0.08		0.08	0.08		0.08	3724	3724	0.15	0.03			3737
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.43	0.41	4.83	21.4	0.04	0.08		0.08	0.08		0.08	3724	3724	0.15	0.03			3737
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.3	0.29	3.45	15.3	0.03	0.06		0.06	0.06		0.06	2660	2660	0.11	0.02			2669
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.06	0.05	0.63	2.79	< 0.005	0.01		0.01	0.01		0.01	440	440	0.02	< 0.005			442
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.09	0.08	0.05	0.97	0	0	0.02	0.02	0	0	0	245	245	< 0.005	< 0.005		0.7	247
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.42	0.1	5.33	2.68	0.03	0.06	0.36	0.42	0.06	0.12	0.18	4421	4421	0.31	0.71	7.59	4647	
Daily, Winter (Max)																		
Worker	0.08	0.08	0.07	0.82	0	0	0.02	0.02	0	0	0	225	225	0.01	0.01	0.02	228	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0.41	0.1	5.62	2.7	0.03	0.06	0.36	0.42	0.06	0.12	0.18	4423	4423	0.31	0.71	0.2	4642	
Average Daily																		
Worker	0.06	0.06	0.04	0.57	0	0	0.01	0.01	0	0	0	162	162	< 0.005	0.01	0.21	165	

Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.3	0.07	3.93	1.92	0.02	0.04	0.26	0.3	0.04	0.09	0.13	3159	3159	0.22	0.51	2.34	3317
Annual																	
Worker	0.01	0.01	0.01	0.1	0	0	< 0.005	< 0.005	0	0	0	26.9	26.9	< 0.005	< 0.005	0.04	27.2
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.05	0.01	0.72	0.35	< 0.005	0.01	0.05	0.05	0.01	0.02	0.02	523	523	0.04	0.08	0.39	549

3.13. Building Construction (2030) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.43	0.41	4.83	21.4	0.04	0.08		0.08	0.08		0.08	3724	3724	0.15	0.03			3737
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.43	0.41	4.83	21.4	0.04	0.08		0.08	0.08		0.08	3724	3724	0.15	0.03			3737
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.25	0.24	2.8	12.4	0.02	0.05		0.05	0.04		0.04	2157	2157	0.09	0.02			2165
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.05	0.04	0.51	2.26	< 0.005	0.01		0.01	0.01		0.01	357	357	0.01	< 0.005			358
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.08	0.05	0.92	0	0	0.02	0.02	0	0	0	241	241	< 0.005	< 0.005		0.62	243
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.39	0.07	5.13	2.59	0.03	0.06	0.36	0.42	0.06	0.12	0.18	4295	4295	0.31	0.68		6.86	4512
Daily, Winter (Max)																		
Worker	0.08	0.08	0.06	0.78	0	0	0.02	0.02	0	0	0	221	221	0.01	0.01		0.02	224
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.38	0.07	5.42	2.61	0.03	0.06	0.36	0.42	0.06	0.12	0.18	4298	4298	0.31	0.68		0.18	4507
Average Daily																		
Worker	0.05	0.04	0.03	0.44	0	0	0.01	0.01	0	0	0	129	129	< 0.005	< 0.005		0.16	130
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.22	0.04	3.09	1.51	0.02	0.03	0.21	0.24	0.03	0.07	0.1	2489	2489	0.18	0.39		1.71	2612
Annual																		
Worker	0.01	0.01	0.01	0.08	0	0	< 0.005	< 0.005	0	0	0	21.4	21.4	< 0.005	< 0.005		0.03	21.5
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.04	0.01	0.56	0.27	< 0.005	0.01	0.04	0.04	0.01	0.01	0.02	412	412	0.03	0.06		0.28	432

Paving		0																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.1	0.1	0.54	7.65	0.01	0.02		0.02	0.02		0.02		1136	1136	0.05	0.01		1140
Architectural Coatings		0.02																
Paving		0																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.07	0.07	0.38	5.47	0.01	0.01		0.01	0.01		0.01		812	812	0.03	0.01		814
Architectural Coatings		0.02																
Paving		0																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.07	1	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		134	134	0.01	< 0.005		135
Architectural Coatings		< 0.005																
Paving		0																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.09	0.08	0.05	0.97	0	0	0.02	0.02	0	0	0		245	245	< 0.005	< 0.005	0.7	247
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.32	0.08	4.07	2.05	0.02	0.05	0.28	0.32	0.05	0.09	0.14		3381	3381	0.24	0.54	5.8	3554
Daily, Winter (Max)																		
Worker	0.08	0.08	0.07	0.82	0	0	0.02	0.02	0	0	0		225	225	0.01	0.01	0.02	228
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.32	0.07	4.29	2.06	0.02	0.05	0.28	0.32	0.05	0.09	0.14		3382	3382	0.24	0.54	0.15	3550
Average Daily																		
Worker	0.06	0.06	0.04	0.57	0	0	0.01	0.01	0	0	0		162	162	< 0.005	0.01	0.21	165
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.23	0.05	3	1.47	0.02	0.03	0.2	0.23	0.03	0.07	0.1		2415	2415	0.17	0.39	1.79	2537
Annual																		
Worker	0.01	0.01	0.01	0.1	0	0	< 0.005	< 0.005	0	0	0		26.9	26.9	< 0.005	< 0.005	0.04	27.2
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.04	0.01	0.55	0.27	< 0.005	0.01	0.04	0.04	0.01	0.01	0.02		400	400	0.03	0.06	0.3	420

3.19. Paving (2030) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.1	0.1	0.54	7.65	0.01	0.02		0.02	0.02		0.02		1136	1136	0.05	0.01		1140

Architectural Coatings		0.02																
Paving		0																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Equipment	0.1	0.1	0.54	7.65	0.01	0.02		0.02	0.02		0.02		1136	1136	0.05	0.01		1140
Architectural Coatings		0.02																
Paving		0																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.06	0.06	0.3	4.3	0.01	0.01		0.01	0.01		0.01		638	638	0.03	0.01		640
Architectural Coatings		0.01																
Paving		0																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.06	0.78	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		106	106	< 0.005	< 0.005		106
Architectural Coatings		< 0.005																
Paving		0																
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.08	0.05	0.92	0	0	0.02	0.02	0	0	0		241	241	< 0.005	< 0.005	0.62	243
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.3	0.06	3.93	1.98	0.02	0.05	0.28	0.32	0.05	0.09	0.14		3285	3285	0.24	0.52	5.25	3450
Daily, Winter (Max)																		
Worker	0.08	0.08	0.06	0.78	0	0	0.02	0.02	0	0	0		221	221	0.01	0.01	0.02	224
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.29	0.05	4.15	2	0.02	0.05	0.28	0.32	0.05	0.09	0.14		3286	3286	0.24	0.52	0.14	3447
Average Daily																		
Worker	0.04	0.04	0.03	0.43	0	0	0.01	0.01	0	0	0		125	125	< 0.005	< 0.005	0.15	126
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.17	0.03	2.29	1.12	0.01	0.03	0.15	0.18	0.03	0.05	0.08		1845	1845	0.13	0.29	1.27	1937
Annual																		
Worker	0.01	0.01	0.01	0.08	0	0	< 0.005	< 0.005	0	0	0		20.8	20.8	< 0.005	< 0.005	0.02	20.9
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.03	0.01	0.42	0.2	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		306	306	0.02	0.05	0.21	321

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
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Architectural Coatings	< 0.005
Total	3.79
Daily, Winter (Max)	
Consumer Products	3.79
Architectural Coatings	< 0.005
Total	3.79
Annual	
Consumer Products	0.69
Architectural Coatings	< 0.005
Total	0.69

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail												0.02	0.04	0.07	< 0.005	< 0.005		0.14
Total												0.02	0.04	0.07	< 0.005	< 0.005		0.14
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail												0.02	0.04	0.07	< 0.005	< 0.005		0.14
Total												0.02	0.04	0.07	< 0.005	< 0.005		0.14
Annual																		
Refrigerated Warehouse-No Rail												< 0.005	0.01	0.01	< 0.005	< 0.005		0.02
Total												< 0.005	0.01	0.01	< 0.005	< 0.005		0.02

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail												0	0	0	0	0	0	0
Total												0	0	0	0	0	0	0
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail												0	0	0	0	0	0	0
Total												0	0	0	0	0	0	0
Annual																		
Refrigerated Warehouse-No Rail												0	0	0	0	0	0	0
Total												0	0	0	0	0	0	0

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
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4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
Total																			
Daily, Winter (Max)																			
Total																			
Annual																			
Total																			

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
Total																			
Daily, Winter (Max)																			
Total																			
Annual																			
Total																			

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
Avoided																			
Live Oak		< 0.005	< 0.005		< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005		11	11					11
Oak		< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		0.22	0.22					0.22
Raywood Ash		< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.11	1.11					1.11
Turkish Pine		< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005		6.27	6.27					6.27
Pepper Tree		< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		2.54	2.54					2.54
Chinese Pistache		< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		0.17	0.17					0.17
Subtotal		0.01	< 0.005		0.01	0.01	0.01	0.02	< 0.005	< 0.005	0.01		21.3	21.3					21.3
Sequestered																			
Live Oak													56.9	56.9					56.9
Oak													1.54	1.54					1.54
Raywood Ash													4.12	4.12					4.12
Turkish Pine													18.3	18.3					18.3
Pepper Tree													1.47	1.47					1.47
Chinese Pistache													0.61	0.61					0.61
Subtotal													83	83					83
Removed																			
Live Oak				0.03		0.01	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005							

Oak	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005					
Raywood Ash	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005					
Turkish Pine		0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005					
Pepper Tree	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005					
Chinese Pistache	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005					
Subtotal		0.04		0.01	0.01	0.01	0.02	< 0.005	< 0.005		0.01			
Total	0.01	0.04		0.02	0.02	0.02	0.04	0.01	0.01	0.01		104	104	104
Daily, Winter (Max)														
Avoided														
Live Oak	< 0.005	< 0.005		< 0.005	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005		11	11	11
Oak	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		0.22	0.22	0.22
Raywood Ash	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.11	1.11	1.11
Turkish Pine	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005		6.27	6.27	6.27
Pepper Tree	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		2.54	2.54	2.54
Chinese Pistache	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		0.17	0.17	0.17
Subtotal		0.01	< 0.005		0.01	0.01	0.01	0.02	< 0.005	< 0.005	0.01	21.3	21.3	21.3
Sequestered														
Live Oak												56.9	56.9	56.9
Oak												1.54	1.54	1.54
Raywood Ash												4.12	4.12	4.12
Turkish Pine												18.3	18.3	18.3
Pepper Tree												1.47	1.47	1.47
Chinese Pistache												0.61	0.61	0.61
Subtotal												83	83	83
Removed														
Live Oak		0.03		0.01	0.01	0.01	0.01	< 0.005	< 0.005	< 0.005				
Oak		< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005				
Raywood Ash		< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005				
Turkish Pine		0.01		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005				
Pepper Tree		< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005				
Chinese Pistache		< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005				
Subtotal		0.04		0.01	0.01	0.01	0.02	< 0.005	< 0.005	< 0.005	0.01			
Total	0.01	0.04		0.02	0.02	0.02	0.04	0.01	0.01	0.01		104	104	104
Annual														
Avoided														
Live Oak	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.82	1.82	1.82
Oak	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		0.04	0.04	0.04
Raywood Ash	< 0.005	< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		0.18	0.18	0.18

Turkish Pine	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.04	1.04	1.04
Pepper Tree	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.42	0.42	0.42
Chinese Pistache	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	0.03
Subtotal	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.53	3.53	3.53
Sequestered													
Live Oak											9.42	9.42	9.42
Oak											0.26	0.26	0.26
Raywood Ash											0.68	0.68	0.68
Turkish Pine											3.03	3.03	3.03
Pepper Tree											0.24	0.24	0.24
Chinese Pistache											0.1	0.1	0.1
Subtotal											13.7	13.7	13.7
Removed													
Live Oak		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			
Oak		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			
Raywood Ash		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			
Turkish Pine		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			
Pepper Tree		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			
Chinese Pistache		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			
Subtotal		0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			
Total	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	17.3	17.3	17.3

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days	Phase Description
Demolition	Demolition	8/1/2027	8/11/2027	5	8	
Site Preparation	Site Preparation	#####	11/18/2027	5	71	
Grading	Grading	#####	8/22/2029	5	116	
Building Construction	Building Construction	#####	10/23/2030	5	784	
Paving	Paving	#####	10/14/2030	5	528	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment	Fuel Type	Engine Tier	Number per Day	Hours Per	Horsepower	Load Factor
Site Preparation	Tractors/Loaders	Diesel	Tier 4 Final	3	8	84	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1	7	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	2	8	82	0.2
Building Construction	Welders	Diesel	Tier 4 Final	1	8	46	0.45
Building Construction	Tractors/Loaders	Diesel	Tier 4 Final	5	7	84	0.37

Paving	Tractors/L Diesel	Tier 4 Final	3	8	84	0.37
Paving	Cement ar Diesel	Tier 4 Final	1	6	10	0.56
Paving	Paving Equ Diesel	Tier 4 Final	1	6	89	0.36
Demolition	Dumpers/ Diesel	Tier 4 Final	1	8	16	0.38
Site Preparation	Dumpers/ Diesel	Tier 4 Final	2	8	16	0.38
Site Preparation	Plate Com Diesel	Tier 4 Final	1	8	8	0.43
Site Preparation	Sweepers/ Diesel	Tier 4 Final	1	8	36	0.46
Grading	Dumpers/ Diesel	Tier 4 Final	1	8	16	0.38
Building Construction	Cement ar Diesel	Tier 4 Final	3	6	10	0.56
Building Construction	Dumpers/ Diesel	Tier 4 Final	3	8	16	0.38
Building Construction	Excavators Diesel	Tier 4 Final	1	8	36	0.38
Building Construction	Plate Com Diesel	Tier 4 Final	2	8	8	0.43
Building Construction	Bore/Drill Diesel	Average	1	8	83	0.5
Building Construction	Sweepers/ Diesel	Tier 4 Final	1	8	36	0.46

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way	Miles per Tri	Vehicle Mix
Demolition				
Demolition	Worker	0	11.7	LDA,LDT1,LDT2
Demolition	Vendor		8.4	HHDT,MHDT
Demolition	Hauling	0	20	HHDT
Demolition	Onsite truck			HHDT
Site Preparation				
Site Preparation	Worker	19	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor		8.4	HHDT,MHDT
Site Preparation	Hauling	12	20	HHDT
Site Preparation	Onsite truck			HHDT
Grading				
Grading	Worker	29	11.7	LDA,LDT1,LDT2
Grading	Vendor		8.4	HHDT,MHDT
Grading	Hauling	47	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Construction	Worker	30	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	0	8.4	HHDT,MHDT
Building Construction	Hauling	68	20	HHDT
Building Construction	Onsite truck			HHDT
Paving				
Paving	Worker	30	11.7	LDA,LDT1,LDT2

Paving	Vendor		8.4 HHDT,MHDT
Paving	Hauling	52	20 HHDT
Paving	Onsite truck		HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Red	PM2.5 Reduction
Apply dust suppressants to unpaved	84	84
Limit vehicle speeds on unpaved	44	44
Sweep paved roads once per month	9	9

5.5. Architectural Coatings

Phase Name	Residential	Residential Non-Residential	Non-Residential	Parking Area Coated (sq ft)
Paving	0	0	0	2620

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material In	Material E	Acres Graded	Material Demo	Acres Paved (acres)
Demolition	0	0	0	12340	
Site Preparation	9000		0	0	
Grading		30000	0	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency	PM10 Red	PM2.5 Reduction
Water Exposed Area	2	61	61
Water Demolished Area	2	36	36

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
Refrigerated Warehouse-No Rail	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Year	CO2	CH4	N2O
2027	100	204	0.03	< 0.005
2028	100	204	0.03	< 0.005
2029	100	204	0.03	< 0.005
2030	100	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Week	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Week	VMT/Saturday	VMT/Sunday	VMT/Year
Refrigerated Warehouse-No Rail	7.08	7.08	7.08	2584	62.8	62.8	62.8	22930

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Non-Residential Area Coated (sq ft)	Non-Residential Parking Area Coated (sq ft)
0	0	0
		2620

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer Days	day/yr	0

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Land Use	Electricity	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Refrigerated Warehouse-No Rail	5000000	204	0.033	0.004	0

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Refrigerated Warehouse-No Rail	12000	0

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	0	0

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Refrigerant	GWP	Quantity (kg)	Operation: Service Level: Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1	8	40	6000	0.73

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating	Daily Heat Input	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity	Natural Gas Saved (btu/year)
Live Oak	-28.0	132553	692
Oak	-1.00	3298	10.7
Raywood Ash	-5.00	16488	53.3
Turkish Pine	-16.0	75744	395
Pepper Tree	-17.0	35664	134
Chinese Pistache	-1.00	2588	8.3

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representative Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Unit
Temperature and Extreme Heat	17 annual days of extreme heat
Extreme Precipitation	9.8 annual days with precipitation above 20 mm
Sea Level Rise	0 meters of inundation depth

Wildfire

17.3 annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure	Sensitivity	Adaptive Capacity	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure	Sensitivity	Adaptive Capacity	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt. The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	11.6
AQ-PM	33
AQ-DPM	59.7
Drinking Water	4.21
Lead Risk Housing	31.1
Pesticides	10.7
Toxic Releases	57
Traffic	82.1
Effect Indicators	
CleanUp Sites	31.7
Groundwater	30.9
Haz Waste Facilities/Generators	43.3
Impaired Water Bodies	12.5
Solid Waste	0
Sensitive Population	
Asthma	10.4
Cardio-vascular	4.9
Low Birth Weights	23.7
Socioeconomic Factor Indicators	
Education	5.1
Housing	27.2
Linguistic	22.9
Poverty	13
Unemployment	19.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
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Economic	
Above Poverty	89.16977
Employed	86.15424
Median HI	91.90299
Education	
Bachelor's or higher	92.08264
High school enrollment	100
Preschool enrollment	64.31413
Transportation	
Auto Access	95.62428
Active commuting	90.08084
Social	
2-parent households	60.59284
Voting	97.52342
Neighborhood	
Alcohol availability	77.49262
Park access	61.23444
Retail density	29.09021
Supermarket access	34.22302
Tree canopy	96.7535
Housing	
Homeownership	78.9683
Housing habitability	79.69973
Low-inc homeowner severe hous	49.73694
Low-inc renter severe housing co	68.40755
Uncrowded housing	79.21211
Health Outcomes	
Insured adults	88.8618
Arthritis	0
Asthma ER Admissions	85
High Blood Pressure	0
Cancer (excluding skin)	0
Asthma	0
Coronary Heart Disease	0
Chronic Obstructive Pulmonary D	0
Diagnosed Diabetes	0
Life Expectancy at Birth	70
Cognitively Disabled	95
Physically Disabled	94
Heart Attack ER Admissions	89

Mental Health Not Good	0
Chronic Kidney Disease	0
Obesity	0
Pedestrian Injuries	61
Physical Health Not Good	0
Stroke	0
Health Risk Behaviors	
Binge Drinking	0
Current Smoker	0
No Leisure Time for Physical Activ	0
Climate Change Exposures	
Wildfire Risk	0.3
SLR Inundation Area	0
Children	92
Elderly	30
English Speaking	88
Foreign-born	29
Outdoor Workers	76
Climate Change Adaptive Capacity	
Impervious Surface Cover	88
Traffic Density	89
Traffic Access	50
Other Indices	
Hardship	9.6
Other Decision Support	
2016 Voting	84

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Prc	5
Healthy Places Index Score for Pr	97
Project Located in a Designated C No	
Project Located in a Low-Income No	
Project Located in a Community / No	

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

Measure Title	Co-Benefits Achieved
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7.5. Evaluation Scorecard

Category	Number of Total Point Max Possible Weighted Score
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7.6. Health & Equity Custom Measures

Measure Title	Sponsor
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8. User Changes to Default Data

Screen	Justification
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Construction: Construction Phase Constructability memos	
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Construction: Off-Road Equipmer Constructability memos	
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Construction: Trips and VMT Constructability memos	
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Construction: Architectural Coati	See project description
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Construction: Electricity	See project description
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Operations: Vehicle Data	See project description
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Operations: Fleet Mix	See project description
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Operations: Architectural Coating	See project description
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Operations: Landscape Equipmer	No net change
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Operations: Energy Use	See project description
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Operations: Water and Waste W	See project description
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Operations: Solid Waste	No net change
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Operations: Refrigerants	Project description
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Exceeds (Average Daily)

Threshold			54	54			82			53									
Unmit.	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily - Summer (Max)																			
2031	1.19	0.74	13.4	31.5	0.09	0.19	2.26	2.44	0.18	0.6	0.79		11247	11247	0.61	1.05	9.95	11583	
2032	0.96	0.63	11.1	27.8	0.08	0.15	1.6	1.75	0.15	0.43	0.58		9062	9062	0.46	0.75	6.41	9303	
Daily - Winter (Max)																			
2031	1.62	0.93	18.7	40.3	0.13	0.25	3.54	3.8	0.25	0.95	1.2		15941	15941	0.9	1.65	0.41	16457	
2032	1.38	0.75	17	30.8	0.11	0.22	3.15	3.37	0.22	0.85	1.06		13626	13626	0.73	1.45	0.33	14077	
Average Daily																			
2031	0.55	0.33	6.6	14.3	0.04	0.09	1.06	1.15	0.09	0.29	0.37		5373	5373	0.3	0.52	2.11	5538	
2032	0.36	0.23	4.25	10	0.03	0.06	0.62	0.67	0.06	0.17	0.22		3411	3411	0.17	0.29	1.09	3504	
Annual																			
2031	0.1	0.06	1.2	2.6	0.01	0.02	0.19	0.21	0.02	0.05	0.07		890	890	0.05	0.09	0.35	917	
2032	0.07	0.04	0.78	1.83	0.01	0.01	0.11	0.12	0.01	0.03	0.04		565	565	0.03	0.05	0.18	580	

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
Unmit.	0	1.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																			
Unmit.	0	1.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily (Max)																			
Unmit.	0	1.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual (Max)																			
Unmit.	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exceeds (Daily Max)																			
Threshold			54	54				82											
Unmit.	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Exceeds (Average Daily)																			
Threshold			54	54				82											
Unmit.	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Exceeds (Annual)																			
Threshold																			1100
Unmit.																			No

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
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Daily, Summer (Max)																		
Mobile	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Area		1.07																
Energy	0	0	0	0	0	0		0	0	0			0	0	0	0	0	0
Water													0	0	0	0	0	0
Waste													0	0	0	0	0	0
Total	0	1.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Mobile	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Area		1.07																
Energy	0	0	0	0	0	0		0	0	0			0	0	0	0	0	0
Water													0	0	0	0	0	0
Waste													0	0	0	0	0	0
Total	0	1.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Mobile	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Area		1.07																
Energy	0	0	0	0	0	0		0	0	0			0	0	0	0	0	0
Water													0	0	0	0	0	0
Waste													0	0	0	0	0	0
Total	0	1.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Mobile	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Area		0.2																
Energy	0	0	0	0	0	0		0	0	0			0	0	0	0	0	0
Water													0	0	0	0	0	0
Waste													0	0	0	0	0	0
Total	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3. Construction Emissions Details

3.1. Site Preparation (2031) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Onsite																		
Daily, Summer (Max)																		
Off-Road Equipment	0.03	0.03	0.14		2.03 < 0.005	0.01		0.01	0.01		0.01		290	290	0.01 < 0.005			291
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Equipment	< 0.005	< 0.005	0.01		0.12 < 0.005	< 0.005		< 0.005	< 0.005		< 0.005		17.5	17.5 < 0.005	< 0.005			17.5
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							

Hauling	0.38	0.07	5.62	2.71	0.03	0.06	0.39	0.45	0.06	0.13	0.19	4480	4480	0.3	0.73	0.17	4704
Average Daily																	
Worker	0.01	0.01	0.01	0.1	0	0	< 0.005	< 0.005	0	0	0	30.4	30.4	< 0.005	< 0.005	0.03	30.5
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.07	0.01	0.99	0.49	0.01	0.01	0.07	0.08	0.01	0.02	0.03	806	806	0.05	0.13	0.51	847
Annual																	
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	0	0	5.03	5.03	< 0.005	< 0.005	0.01	5.05
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.01	< 0.005	0.18	0.09	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	133	133	0.01	0.02	0.08	140

3.5. Grading (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment					< 0.005								61.3	61.3	< 0.005	< 0.005		61.5
Dust From Material Movement							0.01	0.01	< 0.005	< 0.005								
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Equipment					< 0.005								2.28	2.28	< 0.005	< 0.005		2.29
Dust From Material Movement							< 0.005	< 0.005	< 0.005	< 0.005								
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Equipment					< 0.005								0.38	0.38	< 0.005	< 0.005		0.38
Dust From Material Movement							< 0.005	< 0.005	< 0.005	< 0.005								
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.06	0.05	0.04	0.54	0	0	0.01	0.01	0	0	0	164	164	< 0.005	< 0.005	0.01	165	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.37	0.07	5.48	2.58	0.03	0.06	0.39	0.45	0.06	0.13	0.19	4353	4353	0.27	0.7	0.15	4567	
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	0	0	6.18	6.18	< 0.005	< 0.005	0.01	6.21	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.01	< 0.005	0.2	0.1	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	162	162	0.01	0.03	0.09	170	
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	0	0	1.02	1.02	< 0.005	< 0.005	< 0.005	1.03	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	26.8	26.8	< 0.005	< 0.005	0.02	28.1	

3.7. Building Construction (2031) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Onsite																			
Daily, Summer (Max)																			
Off-Road Equipment	0.51	0.49	5.79		24.4	0.04	0.09	0.09	0.09		0.09		4397	4397	0.18	0.04		4412	
Onsite truck	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	
Daily, Winter (Max)																			
Off-Road Equipment	0.51	0.49	5.79		24.4	0.04	0.09	0.09	0.09		0.09		4397	4397	0.18	0.04		4412	
Onsite truck	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	
Average Daily																			
Off-Road Equipment	0.24	0.23	2.72		11.5	0.02	0.04	0.04	0.04		0.04		2065	2065	0.08	0.02		2072	
Onsite truck	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	
Annual																			
Off-Road Equipment	0.04	0.04	0.5		2.09 < 0.005		0.01	0.01	0.01		0.01		342	342	0.01 < 0.005			343	
Onsite truck	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	
Offsite																			
Daily, Summer (Max)																			
Worker	0.07	0.06	0.04		0.73	0	0	0.01	0.01	0	0		198	198 < 0.005	< 0.005		0.46	199	
Vendor	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	
Hauling	0.4	0.08	5.48		2.76	0.03	0.07	0.4	0.46	0.07	0.13	0.2	4600	4600	0.31	0.75	6.76	4837	
Daily, Winter (Max)																			
Worker	0.06	0.06	0.05		0.62	0	0	0.01	0.01	0	0		181	181 < 0.005		0.01	0.01	184	
Vendor	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	
Hauling	0.39	0.07	5.77		2.78	0.03	0.07	0.4	0.46	0.07	0.13	0.2	4603	4603	0.31	0.75	0.18	4833	
Average Daily																			
Worker	0.03	0.03	0.02		0.28	0	0	0.01	0.01	0	0		86.2	86.2 < 0.005	< 0.005		0.09	86.5	
Vendor	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	
Hauling	0.18	0.04	2.66		1.3	0.02	0.03	0.19	0.22	0.03	0.06	0.09	2161	2161	0.15	0.35	1.37	2271	
Annual																			
Worker	0.01	0.01 < 0.005			0.05	0	0 < 0.005	< 0.005	0	0	0		14.3	14.3 < 0.005	< 0.005		0.02	14.3	
Vendor	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	
Hauling	0.03	0.01	0.49		0.24 < 0.005		0.01	0.03	0.04	0.01	0.01	0.02	358	358	0.02	0.06	0.23	376	

3.9. Building Construction (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Onsite																			
Daily, Summer (Max)																			
Off-Road Equipment	0.5	0.49	5.77		24.4	0.04	0.09	0.09	0.09		0.09		4397	4397	0.18	0.04		4412	
Onsite truck	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	
Daily, Winter (Max)																			
Off-Road Equipment	0.5	0.49	5.77		24.4	0.04	0.09	0.09	0.09		0.09		4397	4397	0.18	0.04		4412	

Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Daily																		
Off-Road Equipment	0.18	0.17	2.07	8.75	0.02	0.03		0.03	0.03		0.03		1575	1575	0.06	0.01	1580	
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	
Annual																		
Off-Road Equipment	0.03	0.03	0.38	1.6	< 0.005	0.01		0.01	0.01		0.01		261	261	0.01	< 0.005	262	
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.06	0.03	0.69	0	0	0.01	0.01	0	0	0		195	195	< 0.005	< 0.005	0.4	196
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.39	0.08	5.34	2.63	0.03	0.07	0.4	0.46	0.07	0.13	0.2		4470	4470	0.27	0.71	6.01	4695
Daily, Winter (Max)																		
Worker	0.06	0.06	0.04	0.58	0	0	0.01	0.01	0	0	0		179	179	< 0.005	< 0.005	0.01	179
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.39	0.07	5.63	2.65	0.03	0.07	0.4	0.46	0.07	0.13	0.2		4472	4472	0.27	0.71	0.16	4692
Average Daily																		
Worker	0.02	0.02	0.01	0.21	0	0	< 0.005	< 0.005	0	0	0		64.7	64.7	< 0.005	< 0.005	0.06	65
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.14	0.03	1.97	0.95	0.01	0.02	0.14	0.17	0.02	0.05	0.07		1601	1601	0.1	0.26	0.93	1681
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	< 0.005	< 0.005	0	0	0		10.7	10.7	< 0.005	< 0.005	0.01	10.8
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.03	0.01	0.36	0.17	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		265	265	0.02	0.04	0.15	278

3.11. Paving (2031) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment	0.11	0.11	0.57		8.18	0.01	0.02		0.02	0.02		0.02		1211	1211	0.05	0.01	1215
Paving		0																
Onsite truck	0	0	0		0	0	0	0	0	0	0			0	0	0	0	0
Average Daily																		
Off-Road Equipment	< 0.005	< 0.005	0.03		0.36	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		53.1	53.1	< 0.005	< 0.005	53.3
Paving		0																
Onsite truck	0	0	0		0	0	0	0	0	0	0			0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	< 0.005		0.07	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		8.79	8.79	< 0.005	< 0.005	8.82
Paving		0																
Onsite truck	0	0	0		0	0	0	0	0	0	0			0	0	0	0	0

Offsite

Daily, Summer (Max)

Daily, Winter (Max)

Worker	0.06	0.06	0.04	0.57	0	0	0.01	0.01	0	0	0	167	167	< 0.005	0.01	0.01	169
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.06	0.01	0.85	0.41	0.01	0.01	0.06	0.07	0.01	0.02	0.03	675	675	0.05	0.11	0.03	709
Average Daily																	
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	0	0	7.4	7.4	< 0.005	< 0.005	0.01	7.43
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	29.6	29.6	< 0.005	< 0.005	0.02	31.1
Annual																	
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	0	0	1.22	1.22	< 0.005	< 0.005	< 0.005	1.23
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.9	4.9	< 0.005	< 0.005	< 0.005	5.15

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Refrigerated Warehouse-No Rail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Daily, Summer (Max)																		
Refrigerated Warehouse-No Rail													0	0	0	0		0
Total													0	0	0	0		0
Daily, Winter (Max)																		
Refrigerated Warehouse-No Rail													0	0	0	0		0
Total													0	0	0	0		0
Annual																		
Refrigerated Warehouse-No Rail													0	0	0	0		0
Total													0	0	0	0		0

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
Refrigerated Warehouse-No Rail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																			
Refrigerated Warehouse-No Rail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																			
Refrigerated Warehouse-No Rail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

4.3. Area Emissions by Source

4.3.2. Unmitigated

Source	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
Consumer Products			1.07																
Architectural Coatings			0																
Total			1.07																
Daily, Winter (Max)																			
Consumer Products			1.07																
Architectural Coatings			0																
Total			1.07																
Annual																			
Consumer Products			0.2																
Architectural Coatings			0																
Total			0.2																

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
Refrigerated Warehouse-No Rail													0	0	0	0	0		0
Total													0	0	0	0	0		0
Daily, Winter (Max)																			
Refrigerated Warehouse-No Rail													0	0	0	0	0		0
Total													0	0	0	0	0		0
Annual																			
Refrigerated Warehouse-No Rail													0	0	0	0	0		0
Total													0	0	0	0	0		0

Daily, Winter (Max)

Avoided

Subtotal

Sequestered

Subtotal

Removed

Subtotal

Annual

Avoided

Subtotal

Sequestered

Subtotal

Removed

Subtotal

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days	Phase Description
Site Preparation	Site Prepar	4/7/2031	5/6/2031	5	22	Ph2 Site Preparation
Grading	Grading	10/1/2031	1/19/2032	5	79	Ph2 Grading
Building Construction	Building Co	5/6/2031	7/1/2032	5	303	Ph2 Construction
Paving	Paving	10/1/2031	10/22/2031	5	16	Ph2 Paving

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment	Fuel Type	Engine Tier	Number per Day	Hours Per	Horsepower	Load Factor
Site Preparation	Tractors/L	Diesel	Tier 4 Final	1	8	84	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1	6	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	3	6	82	0.2
Building Construction	Tractors/L	Diesel	Tier 4 Final	3	6	84	0.37
Building Construction	Welders	Diesel	Tier 4 Final	1	8	46	0.45
Paving	Tractors/L	Diesel	Tier 4 Final	3	8	84	0.37
Paving	Paving Equ	Diesel	Tier 4 Final	1	8	89	0.36
Paving	Cement an	Diesel	Tier 4 Final	1	6	10	0.56
Grading	Dumpers/	Diesel	Tier 4 Final	1	8	16	0.38
Building Construction	Excavators	Diesel	Tier 4 Final	2	8	36	0.38
Building Construction	Dumpers/	Diesel	Tier 4 Final	2	8	16	0.38
Building Construction	Plate Com	Diesel	Tier 4 Final	2	8	8	0.43

Building Construction	Cement an Diesel	Tier 4 Final	1	6	10	0.56
Building Construction	Rubber Tir Diesel	Tier 4 Final	1	8	367	0.4
Building Construction	Bore/Drill Diesel	Average	1	8	83	0.5
Building Construction	Sweepers/ Diesel	Tier 4 Final	1	8	36	0.46

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Tri	Miles per Trip	Vehicle Mix
Site Preparation				
Site Preparation	Worker	21	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor		8.4	HHDT,MHDT
Site Preparation	Hauling	26	20	HHDT
Site Preparation	Onsite truck			HHDT
Grading				
Grading	Worker	23	11.7	LDA,LDT1,LDT2
Grading	Vendor		8.4	HHDT,MHDT
Grading	Hauling	73	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Construction	Worker	25	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	0	8.4	HHDT,MHDT
Building Construction	Hauling	75	20	HHDT
Building Construction	Onsite truck			HHDT
Paving				
Paving	Worker	23	11.7	LDA,LDT1,LDT2
Paving	Vendor		8.4	HHDT,MHDT
Paving	Hauling	11	20	HHDT
Paving	Onsite truck			HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Red	PM2.5 Reduction
Apply dust suppressants to unpa	84	84
Limit vehicle speeds on unpaved	44	44
Sweep paved roads once per mo	9	9

5.5. Architectural Coatings

Phase Name	Residentia Residential E Non-Resident Non-Residential Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material In	Material Exp	Acres Graded	Material Demol	Acres Paved (acres)
Site Preparation	4000		0	0	
Grading		20000	0	0	
Paving	0	0	0	0	0.56

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency	PM10 Reduc	PM2.5 Reduction
Water Exposed Area	2	61	61

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
Refrigerated Warehouse-No Rail	0.56	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Yr	CO2	CH4	N2O
2031	100	204	0.03	< 0.005
2032	100	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Week	Trips/Saturday	Trips/Sunday	Trips/Year	VMt/Week	VMt/Saturday	VMt/Sunday	VMt/Year
Refrigerated Warehouse-No Rail	0	0	0	0	0	0	0	0

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)

5.10.2. Architectural Coatings

Residential Interior Area Coated	Residential Non-Resident	Non-Resident Parking Area Coated (sq ft)
0	0	0

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer Days	day/yr	0

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Land Use	Electricity	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Refrigerated Warehouse-No Rail	0	204	0.033	0.004	0

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water	Outdoor Water (gal/year)
Refrigerated Warehouse-No Rail	0	0

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	0	0

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Refrigerant	GWP	Quantity (kg)	Operation: Service Life	Times Serviced
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5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Unit	Hours Per Day	Horsepower Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Unit	Hours per Day	Hours per Year	Horsepower Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating	Daily Heat Input	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acre	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type Number Electricity Sa Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise

Climate Hazard	Result for 1 Unit
Temperature and Extreme Heat	17 annual days of extreme heat
Extreme Precipitation	9.8 annual days with precipitation above 20 mm
Sea Level Rise	0 meters of inundation depth
Wildfire	17.3 annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure S	Sensitivity Sc	Adaptive Cap.	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure S	Sensitivity Sc	Adaptive Cap.	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt. The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
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Exposure Indicators

AQ-Ozone	11.6
AQ-PM	33
AQ-DPM	59.7
Drinking Water	4.21
Lead Risk Housing	31.1
Pesticides	10.7
Toxic Releases	57
Traffic	82.1

Effect Indicators

CleanUp Sites	31.7
Groundwater	30.9
Haz Waste Facilities/Generators	43.3
Impaired Water Bodies	12.5
Solid Waste	0

Sensitive Population

Asthma	10.4
Cardio-vascular	4.9
Low Birth Weights	23.7

Socioeconomic Factor Indicators

Education	5.1
Housing	27.2

Linguistic	22.9
Poverty	13
Unemployment	19.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
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Economic	
Above Poverty	89.16977
Employed	86.15424
Median HI	91.90299
Education	
Bachelor's or higher	92.08264
High school enrollment	100
Preschool enrollment	64.31413
Transportation	
Auto Access	95.62428
Active commuting	90.08084
Social	
2-parent households	60.59284
Voting	97.52342
Neighborhood	
Alcohol availability	77.49262
Park access	61.23444
Retail density	29.09021
Supermarket access	34.22302
Tree canopy	96.7535
Housing	
Homeownership	78.9683
Housing habitability	79.69973
Low-inc homeowner severe hous	49.73694
Low-inc renter severe housing cc	68.40755
Uncrowded housing	79.21211
Health Outcomes	
Insured adults	88.8618
Arthritis	0
Asthma ER Admissions	85
High Blood Pressure	0
Cancer (excluding skin)	0
Asthma	0
Coronary Heart Disease	0

Chronic Obstructive Pulmonary I	0
Diagnosed Diabetes	0
Life Expectancy at Birth	70
Cognitively Disabled	95
Physically Disabled	94
Heart Attack ER Admissions	89
Mental Health Not Good	0
Chronic Kidney Disease	0
Obesity	0
Pedestrian Injuries	61
Physical Health Not Good	0
Stroke	0
Health Risk Behaviors	
Binge Drinking	0
Current Smoker	0
No Leisure Time for Physical Acti	0
Climate Change Exposures	
Wildfire Risk	0.3
SLR Inundation Area	0
Children	92
Elderly	30
English Speaking	88
Foreign-born	29
Outdoor Workers	76
Climate Change Adaptive Capacity	
Impervious Surface Cover	88
Traffic Density	89
Traffic Access	50
Other Indices	
Hardship	9.6
Other Decision Support	
2016 Voting	84

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Pr	5
Healthy Places Index Score for Pr	97
Project Located in a Designated I No	
Project Located in a Low-Income No	
Project Located in a Community . No	

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

Measure Title	Co-Benefits Achieved
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7.5. Evaluation Scorecard

Category	Number of Total Points	Max Possible	Weighted Score
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7.6. Health & Equity Custom Measures

Measure Title	Sponsor
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8. User Changes to Default Data

Screen	Justification
Construction: Construction Phase	Constructability memos
Construction: Off-Road Equipment	Constructability memo
Construction: Trips and VMT	Project description
Construction: Paving	Project description
Construction: Electricity	Project description
Operations: Vehicle Data	Captured in Ph1 modeling
Operations: Architectural Coatings	project description
Operations: Landscape Equipment	no net change
Operations: Energy Use	captured in Ph1 modeling
Operations: Water and Waste Water	Captured in Ph1 modeling
Operations: Solid Waste	no net change
Operations: Refrigerants	Project description

Unmit.	No	No	Yes		No	No	No	No
Exceeds (Average Daily) Threshold		54	54	0	82	82	54	54
Unmit.	No	No	Yes		No	No	No	No

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Daily - Summer (Max)																		
2028	0.1	0.1	0.43		6.16	0.01	0.02	0.25	0.26	0.02	0.03	0.05	901	901	0.04	0.01	0.13	904
2029	0.1	0.09	0.43		6.15	0.01	0.02	0.25	0.26	0.02	0.03	0.05	899	899	0.04	0.01	0.12	903
Daily - Winter (Max)																		
2027	0.41	0.39	2.38		21.4	0.03	0.07	2.51	2.58	0.07	1.08	1.15	3743	3743	0.15	0.06	0.03	3765
2028	0.41	0.39	2.37		21.3	0.03	0.07	2.51	2.58	0.07	1.08	1.15	3737	3737	0.15	0.06	0.02	3759
2029	0.39	0.39	2.43		21.2	0.03	0.06	2.48	2.55	0.06	1.07	1.14	3636	3636	0.15	0.05	0.02	3654
2030	0.31	0.3	2.43		16.7	0.03	0.05	2.3	2.35	0.05	1.05	1.1	2798	2798	0.11	0.03	0.01	2810
Average Daily																		
2027	0.04	0.04	0.21		1.93	< 0.005	0.01	0.23	0.23	0.01	0.1	0.1	339	339	0.01	0.01	0.04	341
2028	0.14	0.14	0.76		8.01	0.01	0.02	0.71	0.74	0.02	0.27	0.3	1312	1312	0.05	0.02	0.11	1319
2029	0.13	0.13	0.75		7.54	0.01	0.02	0.69	0.71	0.02	0.27	0.29	1213	1213	0.05	0.01	0.08	1218
2030	0.04	0.04	0.32		2.26	< 0.005	0.01	0.28	0.28	0.01	0.12	0.13	378	378	0.02	< 0.005	0.02	380
Annual																		
2027	0.01	0.01	0.04		0.35	< 0.005	< 0.005	0.04	0.04	< 0.005	0.02	0.02	56.1	56.1	< 0.005	< 0.005	0.01	56.4
2028	0.03	0.03	0.14		1.46	< 0.005	< 0.005	0.13	0.13	< 0.005	0.05	0.05	217	217	0.01	< 0.005	0.02	218
2029	0.02	0.02	0.14		1.38	< 0.005	< 0.005	0.13	0.13	< 0.005	0.05	0.05	201	201	0.01	< 0.005	0.01	202
2030	0.01	0.01	0.06		0.41	< 0.005	< 0.005	0.05	0.05	< 0.005	0.02	0.02	62.6	62.6	< 0.005	< 0.005	< 0.005	62.9

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
Unmit.	0	0.25	0.02		0	0.01	0.01	0.01	0.02	< 0.005	< 0.005	< 0.005	0	59.5	59.5	0	0	0	59.5
Daily, Winter (Max)																			
Unmit.	0	0.25	0.02		0	0.01	0.01	0.01	0.02	< 0.005	< 0.005	< 0.005	0	59.5	59.5	0	0	0	59.5
Average Daily (Max)																			
Unmit.	0	0.25	0.02		0	0.01	0.01	0.01	0.02	< 0.005	< 0.005	< 0.005	0	59.5	59.5	0	0	0	59.5
Annual (Max)																			
Unmit.	0	0.04	< 0.005		0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0	9.85	9.85	0	0	0	9.85
Exceeds (Daily Max) Threshold																			
Unmit.	No	No																	
Exceeds (Average Daily)																			

Threshold		54	54																	
Unmit.	No	No																		
Exceeds (Annual)																				
Threshold																				1100
Unmit.																				No

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
Mobile	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Area		0.24																	
Energy	0	0	0	0	0	0		0	0		0		0	0	0	0	0	0	0
Water													0	0	0	0	0	0	0
Waste													0	0	0	0	0	0	0
Vegetation	< 0.005		0.02		0.01	0.01	0.01	0.02	< 0.005	< 0.005	< 0.005		59.5	59.5					59.5
Total	0	0.25	0.02	0	0.01	0.01	0.01	0.02	< 0.005	< 0.005	< 0.005	0	59.5	59.5	0	0	0	0	59.5
Daily, Winter (Max)																			
Mobile	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Area		0.24																	
Energy	0	0	0	0	0	0		0	0		0		0	0	0	0	0	0	0
Water													0	0	0	0	0	0	0
Waste													0	0	0	0	0	0	0
Vegetation	< 0.005		0.02		0.01	0.01	0.01	0.02	< 0.005	< 0.005	< 0.005		59.5	59.5					59.5
Total	0	0.25	0.02	0	0.01	0.01	0.01	0.02	< 0.005	< 0.005	< 0.005	0	59.5	59.5	0	0	0	0	59.5
Average Daily																			
Mobile	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Area		0.24																	
Energy	0	0	0	0	0	0		0	0		0		0	0	0	0	0	0	0
Water													0	0	0	0	0	0	0
Waste													0	0	0	0	0	0	0
Vegetation	< 0.005		0.02		0.01	0.01	0.01	0.02	< 0.005	< 0.005	< 0.005		59.5	59.5					59.5
Total	0	0.25	0.02	0	0.01	0.01	0.01	0.02	< 0.005	< 0.005	< 0.005	0	59.5	59.5	0	0	0	0	59.5
Annual																			
Mobile	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Area		0.04																	
Energy	0	0	0	0	0	0		0	0		0		0	0	0	0	0	0	0
Water													0	0	0	0	0	0	0
Waste													0	0	0	0	0	0	0
Vegetation	< 0.005	< 0.005			< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		9.85	9.85					9.85
Total	0	0.04	< 0.005	0	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0	9.85	9.85	0	0	0	0	9.85

3. Construction Emissions Details

3.1. Site Preparation (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Onsite																			
Daily, Summer (Max)																			
Daily, Winter (Max)																			
Off-Road Equipment	0.08	0.08	0.42		5.99	0.01	0.02	0.02	0.02		0.02		859	859	0.03	0.01		862	
Dust From Material Movement								0.21	0.21		0.02	0.02							
Onsite truck	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	0
Average Daily																			
Off-Road Equipment	0.01	0.01	0.04		0.55 < 0.005	< 0.005		< 0.005	< 0.005		< 0.005		79	79 < 0.005	< 0.005	< 0.005		79.3	
Dust From Material Movement								0.02	0.02		< 0.005	< 0.005							
Onsite truck	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	0
Annual																			
Off-Road Equipment	< 0.005	< 0.005	0.01		0.1 < 0.005	< 0.005		< 0.005	< 0.005		< 0.005		13.1	13.1 < 0.005	< 0.005	< 0.005		13.1	
Dust From Material Movement								< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truck	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	0
Offsite																			
Daily, Summer (Max)																			
Daily, Winter (Max)																			
Worker	0.02	0.01	0.01		0.16	0	0	0.04	0.04	0	0.01	0.01	38.8	38.8 < 0.005	< 0.005	< 0.005	< 0.005	39.3	
Vendor	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	0
Hauling	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	0
Average Daily																			
Worker	< 0.005	< 0.005	< 0.005		0.01	0	0 < 0.005	< 0.005		0 < 0.005	< 0.005		3.61	3.61 < 0.005	< 0.005		0.01	3.66	
Vendor	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	0
Hauling	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	0
Annual																			
Worker	< 0.005	< 0.005	< 0.005	< 0.005		0	0 < 0.005	< 0.005		0 < 0.005	< 0.005		0.6	0.6 < 0.005	< 0.005	< 0.005	< 0.005	0.61	
Vendor	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	0
Hauling	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	0

3.3. Site Preparation (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Onsite																			
Daily, Summer (Max)																			
Off-Road Equipment	0.08	0.08	0.42		5.99	0.01	0.02	0.02	0.02		0.02		859	859	0.03	0.01		862	
Dust From Material Movement								0.21	0.21		0.02	0.02							
Onsite truck	0	0	0		0	0	0	0	0	0	0		0	0	0	0		0	0

Daily, Winter (Max)																		
Off-Road Equipment	0.08	0.08	0.42	5.99	0.01	0.02		0.02	0.02		0.02		859	859	0.03	0.01		862
Dust From Material Movement							0.21	0.21		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.06	0.06	0.3	4.29	0.01	0.01		0.01	0.01		0.01		615	615	0.02	< 0.005		617
Dust From Material Movement							0.15	0.15		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Equipment	0.01	0.01	0.06	0.78	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		102	102	< 0.005	< 0.005		102
Dust From Material Movement							0.03	0.03		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.02	0.01	0.01	0.17	0	0	0.04	0.04	0	0.01	0.01		41.6	41.6	< 0.005	< 0.005	0.13	41.9
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.02	0.01	0.01	0.15	0	0	0.04	0.04	0	0.01	0.01		38.1	38.1	< 0.005	< 0.005	< 0.005	38.6
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.1	0	0	0.03	0.03	0	0.01	0.01		27.6	27.6	< 0.005	< 0.005	0.04	28
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		4.57	4.57	< 0.005	< 0.005	0.01	4.63
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Site Preparation (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Onsite																			
Daily, Summer (Max)																			
Off-Road Equipment	0.08	0.08	0.42	5.99	0.01	0.02		0.02	0.02		0.02		858	858	0.03	0.01		861	
Dust From Material Movement							0.21	0.21		0.02	0.02								
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Daily, Winter (Max)																			
Off-Road Equipment	0.08	0.08	0.42	5.99	0.01	0.02		0.02	0.02		0.02		858	858	0.03	0.01		861	
Dust From Material Movement							0.21	0.21		0.02	0.02								

Off-Road Equipment	< 0.005	< 0.005	0.01	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	20.6	20.6	< 0.005	< 0.005		20.7
Dust From Material Movement							0.01	0.01	< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																	
Daily, Summer (Max)																	
Daily, Winter (Max)																	
Worker	0.01	0.01	0.01	0.13	0	0	0.04	0.04	0	0.01	0.01	36.8	36.8	< 0.005	< 0.005	< 0.005	37.3
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																	
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005	5.39	5.39	< 0.005	< 0.005	0.01	5.41
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005	0.89	0.89	< 0.005	< 0.005	< 0.005	0.9
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.9. Grading (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment	0.25	0.25	1.69	14.6	0.02	0.05		0.05	0.05		0.05	2545	2545	0.1	0.02			2553
Dust From Material Movement							2.07	2.07		1	1							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.02	0.02	0.15	1.31	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	229	229	0.01	< 0.005			230
Dust From Material Movement							0.19	0.19		0.09	0.09							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.03	0.24	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	37.9	37.9	< 0.005	< 0.005			38.1
Dust From Material Movement							0.03	0.03		0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.06	0.05	0.04	0.54	0	0	0.14	0.14	0	0.03	0.03	136	136	< 0.005		0.01	0.01	138
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.02	< 0.005	0.21	0.1	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	165	165	0.01	0.03	0.01	0.01	173

Average Daily

Worker	0.01	< 0.005	< 0.005		0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		12.4	12.4	< 0.005	< 0.005	0.02	12.5
Vendor	0	0	0		0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.02		0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		14.8	14.8	< 0.005	< 0.005	0.01	15.6
Annual																			
Worker	< 0.005	< 0.005	< 0.005		0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.05	2.05	< 0.005	< 0.005	< 0.005	2.08
Vendor	0	0	0		0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		2.46	2.46	< 0.005	< 0.005	< 0.005	2.58

3.11. Grading (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Onsite																			
Daily, Summer (Max)																			
Daily, Winter (Max)																			
Off-Road Equipment	0.25	0.25	1.69	14.6	0.02	0.05		0.05	0.05		0.05		2546	2546	0.1	0.02		2554	
Dust From Material Movement							2.07	2.07			1	1							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																			
Off-Road Equipment	0.04	0.04	0.25	2.14	< 0.005	0.01		0.01	0.01		0.01		374	374	0.02	< 0.005		375	
Dust From Material Movement							0.3	0.3			0.15	0.15							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																			
Off-Road Equipment	0.01	0.01	0.05	0.39	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		61.9	61.9	< 0.005	< 0.005		62.1	
Dust From Material Movement							0.06	0.06			0.03	0.03							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																			
Daily, Summer (Max)																			
Daily, Winter (Max)																			
Worker	0.05	0.05	0.04	0.51	0	0	0.14	0.14	0	0.03	0.03		133	133	< 0.005	0.01	0.01	135	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.02	< 0.005	0.21	0.1	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01		161	161	0.01	0.03	0.01	169	
Average Daily																			
Worker	0.01	0.01	0.01	0.07	0	0	0.02	0.02	0	< 0.005	< 0.005		19.8	19.8	< 0.005	< 0.005	0.03	20.1	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		23.6	23.6	< 0.005	< 0.005	0.02	24.8	
Annual																			
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.28	3.28	< 0.005	< 0.005	< 0.005	3.32	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		3.9	3.9	< 0.005	< 0.005	< 0.005	4.1	

3.13. Grading (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Onsite																			
Daily, Summer (Max)																			
Daily, Winter (Max)																			
Off-Road Equipment	0.25	0.25	1.69	14.6	0.02	0.05		0.05	0.05		0.05		2546	2546	0.1	0.02		2554	
Dust From Material Movement							2.07	2.07			1	1							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																			
Off-Road Equipment	0.02	0.02	0.16	1.34	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		234	234	0.01	< 0.005		235	
Dust From Material Movement							0.19	0.19			0.09	0.09							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																			
Off-Road Equipment	< 0.005	< 0.005	0.03	0.24	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		38.8	38.8	< 0.005	< 0.005		38.9	
Dust From Material Movement							0.03	0.03			0.02	0.02							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																			
Daily, Summer (Max)																			
Daily, Winter (Max)																			
Worker	0.05	0.05	0.04	0.51	0	0	0.14	0.14	0	0.03	0.03		133	133	< 0.005	0.01	0.01	135	
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Hauling	0.01	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01		66.9	66.9	0.01	0.01	< 0.005	70.2	
Average Daily																			
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		12.4	12.4	< 0.005	< 0.005	0.02	12.6	
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.15	6.15	< 0.005	< 0.005	< 0.005	6.46	
Annual																			
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.05	2.05	< 0.005	< 0.005	< 0.005	2.08	
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		1.02	1.02	< 0.005	< 0.005	< 0.005	1.07	

3.15. Grading (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Onsite																			
Daily, Summer (Max)																			
Daily, Winter (Max)																			
Off-Road Equipment	0.25	0.25	1.69	14.6	0.02	0.05		0.05	0.05		0.05		2544	2544	0.1	0.02		2553	
Dust From Material Movement							2.07	2.07			1	1							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																			

Off-Road Equipment	0.04	0.04	0.25	2.11 < 0.005	0.01		0.01	0.01		0.01	0.01	368	368	0.01 < 0.005			370
Dust From Material Movement							0.3	0.3		0.15	0.15						
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																	
Off-Road Equipment	0.01	0.01	0.04	0.39 < 0.005	< 0.005		< 0.005	< 0.005		< 0.005	< 0.005	61	61 < 0.005	< 0.005			61.2
Dust From Material Movement							0.05	0.05		0.03	0.03						
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																	
Daily, Summer (Max)																	
Daily, Winter (Max)																	
Worker	0.05	0.05	0.04	0.48	0	0	0.14	0.14	0	0.03	0.03	131	131 < 0.005	0.01	0.01		133
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.01 < 0.005		0.08	0.04 < 0.005	< 0.005		0.02	0.02 < 0.005		0.01	0.01	65	65 < 0.005	0.01 < 0.005			68.3
Average Daily																	
Worker	0.01	0.01 < 0.005		0.07	0	0	0.02	0.02	0 < 0.005	< 0.005		19.2	19.2 < 0.005	< 0.005	0.03		19.5
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.01	0.01 < 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	9.42	9.42 < 0.005	< 0.005	0.01		9.89
Annual																	
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0 < 0.005	< 0.005		0 < 0.005	< 0.005		3.18	3.18 < 0.005	< 0.005	< 0.005		3.22
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.56	1.56 < 0.005	< 0.005	< 0.005		1.64

3.17. Grading (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment	0.18	0.18	1.92	10.3	0.02	0.03		0.03	0.03		0.03		1786	1786	0.07	0.01		1792
Dust From Material Movement								1.92	1.92		0.98	0.98						
Demolition								0.04	0.04		0.01	0.01						
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.02	0.02	0.18	0.95 < 0.005	< 0.005			< 0.005	< 0.005		< 0.005		164	164	0.01 < 0.005			165
Dust From Material Movement								0.18	0.18		0.09	0.09						
Demolition								< 0.005	< 0.005		< 0.005	< 0.005						
Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.03	0.17 < 0.005	< 0.005			< 0.005	< 0.005		< 0.005		27.2	27.2 < 0.005	< 0.005			27.3
Dust From Material Movement								0.03	0.03		0.02	0.02						
Demolition								< 0.005	< 0.005		< 0.005	< 0.005						

Onsite truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.03	0.03	0.02	0.27	0	0	0.08	0.08	0	0.02	0.02			74.9	74.9 < 0.005	< 0.005	0.01	76
Vendor	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0
Hauling	< 0.005	< 0.005	0.06	0.03 < 0.005	< 0.005		0.01	0.01 < 0.005	< 0.005	< 0.005	< 0.005			44.5	44.5 < 0.005	0.01 < 0.005		46.7
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0 < 0.005	< 0.005				6.96	6.96 < 0.005	< 0.005	0.01	7.06
Vendor	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0
Hauling	< 0.005	< 0.005	0.01 < 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			4.09	4.09 < 0.005	< 0.005	< 0.005	4.3
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0 < 0.005	< 0.005		0 < 0.005	< 0.005				1.15	1.15 < 0.005	< 0.005	< 0.005	1.17
Vendor	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			0.68	0.68 < 0.005	< 0.005	< 0.005	0.71

3.19. Grading (2030) - Unmitigated

Location	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Equipment	0.18	0.18	1.92	10.3	0.02	0.03		0.03	0.03		0.03			1785	1785	0.07	0.01	1792
Dust From Material Movement							1.92	1.92		0.98	0.98							
Demolition							0.04	0.04		0.01	0.01							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0
Average Daily																		
Off-Road Equipment	0.02	0.02	0.22	1.19 < 0.005	< 0.005		< 0.005	< 0.005		< 0.005				206	206	0.01 < 0.005		207
Dust From Material Movement							0.22	0.22		0.11	0.11							
Demolition							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0
Annual																		
Off-Road Equipment	< 0.005	< 0.005	0.04	0.22 < 0.005	< 0.005		< 0.005	< 0.005		< 0.005				34.1	34.1 < 0.005	< 0.005		34.2
Dust From Material Movement							0.04	0.04		0.02	0.02							
Demolition							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.03	0.03	0.02	0.26	0	0	0.08	0.08	0	0.02	0.02			73.6	73.6 < 0.005	< 0.005	0.01	74.6
Vendor	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
General Light Industry		0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total		0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																			
General Light Industry		0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total		0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																			
General Light Industry		0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Total		0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
General Light Industry														0	0	0	0		0
Total														0	0	0	0		0
Daily, Winter (Max)																			
General Light Industry														0	0	0	0		0
Total														0	0	0	0		0
Annual																			
General Light Industry														0	0	0	0		0
Total														0	0	0	0		0

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
General Light Industry		0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total		0	0	0	0	0	0		0	0		0		0	0	0	0		0
Daily, Winter (Max)																			
General Light Industry		0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total		0	0	0	0	0	0		0	0		0		0	0	0	0		0
Annual																			
General Light Industry		0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total		0	0	0	0	0	0		0	0		0		0	0	0	0		0

4.3. Area Emissions by Source

4.3.2. Unmitigated

Source	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
Consumer Products		0.21																	
Architectural Coatings		0.03																	
Total		0.24																	
Daily, Winter (Max)																			
Consumer Products		0.21																	
Architectural Coatings		0.03																	
Total		0.24																	
Annual																			
Consumer Products		0.04																	
Architectural Coatings		0.01																	
Total		0.04																	

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
General Light Industry													0	0	0	0	0	0	0
Total													0	0	0	0	0	0	0
Daily, Winter (Max)																			
General Light Industry													0	0	0	0	0	0	0
Total													0	0	0	0	0	0	0
Annual																			
General Light Industry													0	0	0	0	0	0	0
Total													0	0	0	0	0	0	0

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO ₂	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e	
Daily, Summer (Max)																			
General Light Industry													0	0	0	0	0	0	0
Total													0	0	0	0	0	0	0
Daily, Winter (Max)																			
General Light Industry													0	0	0	0	0	0	0
Total													0	0	0	0	0	0	0
Annual																			
General Light Industry													0	0	0	0	0	0	0

Coast Live Oak	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	7.45	7.45	7.45
Laurel	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.78	0.78	0.78
Subtotal	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	8.23	8.23	8.23
Sequestered												
Coast Live Oak										45.8	45.8	45.8
Laurel										5.49	5.49	5.49
Subtotal										51.3	51.3	51.3
Removed												
Coast Live Oak		0.02		0.01	< 0.005	< 0.005	0.01	< 0.005	< 0.005			
Laurel		< 0.005		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			
Subtotal		0.02		0.01	< 0.005	< 0.005	0.01	< 0.005	< 0.005			
Total	< 0.005	0.02		0.01	0.01	0.01	0.02	< 0.005	< 0.005	59.5	59.5	59.5
Annual												
Avoided												
Coast Live Oak	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.23	1.23	1.23
Laurel	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.13	0.13	0.13
Subtotal	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.36	1.36	1.36
Sequestered												
Coast Live Oak										7.58	7.58	7.58
Laurel										0.91	0.91	0.91
Subtotal										8.49	8.49	8.49
Removed												
Coast Live Oak		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			
Laurel		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			
Subtotal		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	9.85	9.85	9.85

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days	Phase Description
Ongoing Work	Site Preparation	#####	3/15/2030	5	610	Misc Contractor Work
LWTP Phase 1	Grading	#####	3/15/2028	5	87	Build W1 and Bypass
LWTP Phase 2	Grading	#####	3/15/2029	5	87	Raise W2 and Weirs Pipe
LWTP Phase 3	Grading	#####	2/28/2030	5	76	Demo W1
LWTP Ph3 Paving	Paving	3/1/2030	3/15/2030	5	11	Resurfacing

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment	Fuel Type	Engine Tier	Number per Day	Hours Per	Horsepower	Load Factor
Ongoing Work	Tractors/Li	Diesel	Tier 4 Final	1	8	84	0.37
LWTP Phase 1	Graders	Diesel	Tier 4 Final	1	6	148	0.41
LWTP Phase 1	Tractors/Li	Diesel	Tier 4 Final	1	7	84	0.37
LWTP Phase 2	Graders	Diesel	Tier 4 Final	1	6	148	0.41
LWTP Phase 2	Rubber Tir	Diesel	Tier 4 Final	1	6	367	0.4
LWTP Phase 2	Tractors/Li	Diesel	Tier 4 Final	1	7	84	0.37
LWTP Phase 3	Tractors/Li	Diesel	Tier 4 Final	2	7	84	0.37
LWTP Ph3 Paving	Tractors/Li	Diesel	Tier 4 Final	1	7	84	0.37
LWTP Ph3 Paving	Cement ar	Diesel	Tier 4 Final	4	6	10	0.56
LWTP Ph3 Paving	Pavers	Diesel	Tier 4 Final	1	7	81	0.42
LWTP Ph3 Paving	Rollers	Diesel	Tier 4 Final	1	7	36	0.38
Ongoing Work	Graders	Diesel	Tier 4 Final	1	8	148	0.41
LWTP Phase 1	Rubber Tir	Diesel	Tier 4 Final	1	6	367	0.4
LWTP Phase 3	Rubber Tir	Diesel	Tier 4 Final	1	6	367	0.4
LWTP Phase 1	Cranes	Diesel	Tier 4 Final	1	4	367	0.29
LWTP Phase 1	Forklifts	Diesel	Tier 4 Final	2	6	82	0.2
LWTP Phase 1	Excavators	Diesel	Tier 4 Final	1	6	36	0.38
LWTP Phase 2	Cranes	Diesel	Tier 4 Final	1	4	367	0.29
LWTP Phase 2	Forklifts	Diesel	Tier 4 Final	2	6	82	0.2
LWTP Phase 2	Excavators	Diesel	Tier 4 Final	1	6	36	0.38
LWTP Phase 3	Concrete/I	Diesel	Tier 4 Final	1	8	33	0.73

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Miles per Trip	Vehicle Mix
Ongoing Work	Worker	5	11.7 LDA,LDT1,LDT2
Ongoing Work	Vendor		8.4 HHDT,MHDT
Ongoing Work	Hauling	0	20 HHDT
Ongoing Work	Onsite truck		HHDT
LWTP Phase 1	Worker	17.5	11.7 LDA,LDT1,LDT2
LWTP Phase 1	Vendor		8.4 HHDT,MHDT
LWTP Phase 1	Hauling	2.4	20 HHDT
LWTP Phase 1	Onsite truck		HHDT
LWTP Phase 2	Worker	17.5	11.7 LDA,LDT1,LDT2
LWTP Phase 2	Vendor		8.4 HHDT,MHDT
LWTP Phase 2	Hauling	1	20 HHDT

LWTP Phase 2	Onsite truck		HHDT
LWTP Phase 3			
LWTP Phase 3	Worker	10	11.7 LDA,LDT1,LDT2
LWTP Phase 3	Vendor		8.4 HHDT,MHDT
LWTP Phase 3	Hauling	0.68	20 HHDT
LWTP Phase 3	Onsite truck		HHDT
LWTP Ph3 Paving			
LWTP Ph3 Paving	Worker	17.5	11.7 LDA,LDT1,LDT2
LWTP Ph3 Paving	Vendor		8.4 HHDT,MHDT
LWTP Ph3 Paving	Hauling	0	20 HHDT
LWTP Ph3 Paving	Onsite truck		HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Red	PM2.5 Reduction
Apply dust suppressants to unpaved	84	84
Limit vehicle speeds on unpaved	44	44
Sweep paved roads once per month	9	9

5.5. Architectural Coatings

Phase Name	Residential	Residential Non-Residential	Residential Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported	Material Excavated	Acres Graded	Material Demolished	Acres Paved (acres)
Ongoing Work			305		0
LWTP Phase 1	834	834	65.3		0
LWTP Phase 2			65.3		0
LWTP Phase 3			28.5	4500	
LWTP Ph3 Paving	0	0	0	0	0.05

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency	PM10 Red	PM2.5 Reduction
Water Exposed Area	2	61	61
Water Demolished Area	2	36	36

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
General Light Industry	0.05	100

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Y	CO2	CH4	N2O
2027	100	204	0.03	< 0.005
2028	100	204	0.03	< 0.005
2029	100	204	0.03	< 0.005
2030	100	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Wee	Trips/Satur	Trips/Sunday	Trips/Year	VMT/Wee	VMT/Satur	VMT/Sund	VMT/Year
General Light Industry	0	0	0	0	0	0	0	0

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)

5.10.2. Architectural Coatings

Residential Interior Area Coated	Residential Non-Resid	Non-Residen	Parking Area Coated (sq ft)
0	0	15000	5000

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer Days	day/yr	0

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Land Use	Electricity	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	0	204	0.033	0.004	0

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Wa	Outdoor Water (gal/year)
General Light Industry	0	0

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (tor Cogeneration (kWh/year)
General Light Industry	0

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment	Refrigerant	GWP	Quantity (kg)	Operation: Service Le:	Times Serviced
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5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tie	Number per	Hours Per Day	Horsepower	Load Factor
----------------	-----------	------------	------------	---------------	------------	-------------

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	------------	---------------	----------------	------------	-------------

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating	Daily Heat Input	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation	Initial Acre	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acre	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity	Natural Gas Saved (btu/year)
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Coast Live Oak	-19.0	89947	470
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Laurel	-2.00	9468	49.4
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Unit
----------------	-------------------

Temperature and Extreme Heat	13.4 annual days of extreme heat
Extreme Precipitation	11.8 annual days with precipitation above 20 mm
Sea Level Rise	0 meters of inundation depth
Wildfire	23.3 annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure	Sensitivity	Adaptive Cap	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure	Sensitivity	Adaptive Cap	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt. The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
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Exposure Indicators

AQ-Ozone	7.52
AQ-PM	31.8
AQ-DPM	31.8
Drinking Water	4.21
Lead Risk Housing	49
Pesticides	18.1
Toxic Releases	54.5
Traffic	67

Effect Indicators

CleanUp Sites	58.2
Groundwater	76.6
Haz Waste Facilities/Generators	65.9
Impaired Water Bodies	23.9
Solid Waste	0

Sensitive Population

Asthma	4.82
Cardio-vascular	3.25
Low Birth Weights	21.8

Socioeconomic Factor Indicators

Education	12.6
Housing	31.2
Linguistic	14.3
Poverty	6.73
Unemployment	22.6

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
-----------	---------------------------------

Economic	
Above Poverty	85.03785
Employed	83.80598
Median HI	86.39805
Education	
Bachelor's or higher	96.0734
High school enrollment	100
Preschool enrollment	95.7141
Transportation	
Auto Access	56.16579
Active commuting	92.26229
Social	
2-parent households	41.03683
Voting	96.34287
Neighborhood	
Alcohol availability	53.13743
Park access	34.96728
Retail density	74.38727
Supermarket access	45.913
Tree canopy	97.29244
Housing	
Homeownership	48.06878
Housing habitability	65.52034
Low-inc homeowner severe hou	81.36789
Low-inc renter severe housing c	27.55037
Uncrowded housing	78.31387
Health Outcomes	
Insured adults	86.65469
Arthritis	0
Asthma ER Admissions	97
High Blood Pressure	0
Cancer (excluding skin)	0
Asthma	0
Coronary Heart Disease	0
Chronic Obstructive Pulmonary	0
Diagnosed Diabetes	0

Life Expectancy at Birth	90
Cognitively Disabled	95
Physically Disabled	95
Heart Attack ER Admissions	95
Mental Health Not Good	0
Chronic Kidney Disease	0
Obesity	0
Pedestrian Injuries	48
Physical Health Not Good	0
Stroke	0
Health Risk Behaviors	
Binge Drinking	0
Current Smoker	0
No Leisure Time for Physical Act	0
Climate Change Exposures	
Wildfire Risk	5.7
SLR Inundation Area	0
Children	61
Elderly	34
English Speaking	93
Foreign-born	14
Outdoor Workers	94
Climate Change Adaptive Capacity	
Impervious Surface Cover	88
Traffic Density	82
Traffic Access	54
Other Indices	
Hardship	6.1
Other Decision Support	
2016 Voting	83

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project	6
Healthy Places Index Score for Project	97
Project Located in a Designated No	
Project Located in a Low-Income No	
Project Located in a Community No	

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

Measure Title	Co-Benefits Achieved
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7.5. Evaluation Scorecard

Category	Number of Total Point Max Possible Weighted Score
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7.6. Health & Equity Custom Measures

Measure Title	Sponsor
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8. User Changes to Default Data

Screen	Justification
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Construction: Construction Phas	project description
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Construction: Off-Road Equipm	see project description
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Construction: Demolition	see project description
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Construction: Trips and VMT	see project description
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Construction: Paving	see project description
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Construction: Electricity	See project description
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Operations: Vehicle Data	no change in existing staff
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Operations: Landscape Equipm	no net change
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Operations: Energy Use	no net increase at LWTP site
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Operations: Water and Waste M	no net change indoor water use
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Operations: Solid Waste	no net change
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Operations: Refrigerants	none
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1  **
2  *****
3  ** AERMOD Control Pathway
4  *****
5  **
6  **
7  CO STARTING
8  TITLEONE EBMUD Walnut Creek Water Treatment Plant - HRA
9  MODELOPT DFAULT CONC
10 AVERTIME 1 PERIOD
11 POLLUTID DPM
12 FLAGPOLE 1.50
13 RUNORNOT RUN
14 ERRORFIL EBMUD_WALNUT_CREEK_[RESIDENTIAL, WORKER].err
15 CO FINISHED
16 **
17 *****
18 ** AERMOD Source Pathway
19 *****
20 **
21 **
22 SO STARTING
23 ** Source Location **
24 ** Source ID - Type - X Coord. - Y Coord. **
25 LOCATION PAREA1 AREAPOLY 580377.310 4196723.885 92.380
26 LOCATION PAREA2 AREAPOLY 580508.333 4196753.128 95.010
27 LOCATION PAREA3 AREAPOLY 580541.958 4196521.209 115.740
28 LOCATION PAREA4 AREAPOLY 580515.775 4196686.123 102.960
29 LOCATION PAREA5 AREAPOLY 580659.975 4196664.956 112.890
30 ** Source Parameters **
31 SRCPARAM PAREA1 0.0001045609 5.000 9
32 AREAVERT PAREA1 580377.310 4196723.885 580444.852 4196744.234
33 AREAVERT PAREA1 580478.320 4196646.798 580386.999 4196550.195
34 AREAVERT PAREA1 580249.687 4196609.788 580224.948 4196625.215
35 AREAVERT PAREA1 580173.424 4196677.832 580208.051 4196711.961
36 AREAVERT PAREA1 580380.534 4196653.207
37 SRCPARAM PAREA2 0.0038346305 5.000 4
38 AREAVERT PAREA2 580508.333 4196753.128 580521.274 4196729.800
39 AREAVERT PAREA2 580548.256 4196744.088 580534.973 4196766.713
40 SRCPARAM PAREA3 0.0023209228 5.000 4
41 AREAVERT PAREA3 580541.958 4196521.209 580567.422 4196534.412
42 AREAVERT PAREA3 580589.114 4196494.330 580562.707 4196481.127
43 SRCPARAM PAREA4 0.0005810778 5.000 6
44 AREAVERT PAREA4 580515.775 4196686.123 580557.747 4196618.685
45 AREAVERT PAREA4 580586.986 4196634.720 580573.782 4196656.413
46 AREAVERT PAREA4 580616.697 4196680.464 580588.401 4196725.266
47 SRCPARAM PAREA5 0.0038481962 5.000 4
48 AREAVERT PAREA5 580659.975 4196664.956 580640.343 4196653.516
49 AREAVERT PAREA5 580657.133 4196623.051 580677.061 4196634.786
50
51 ** Variable Emissions Type: "By Hour / Day (HRDOW)"
52 ** Variable Emission Scenario: "M-F 7a-6p"
53 ** WeekDays:
54 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
55 EMISFACT PAREA1 HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
56 EMISFACT PAREA1 HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
57 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
58 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
59 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
60 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
61 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
62 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
63 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
64 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
65 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
66 ** Saturday:
67 ** Sunday:
68 ** WeekDays:
69 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

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70      EMISFACT PAREA2      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
71      EMISFACT PAREA2      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
72      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
73      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
74      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
75      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
76      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
77      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
78      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
79      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
80      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
81      ** Saturday:
82      ** Sunday:
83      ** WeekDays:
84      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
85      EMISFACT PAREA3      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
86      EMISFACT PAREA3      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
87      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
88      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
89      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
90      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
91      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
92      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
93      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
94      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
95      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
96      ** Saturday:
97      ** Sunday:
98      ** WeekDays:
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103     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
104     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
105     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
106     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
107     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
108     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
109     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
110     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
111     ** Saturday:
112     ** Sunday:
113     ** WeekDays:
114     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
115     EMISFACT PAREA5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
116     EMISFACT PAREA5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
117     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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119     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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121     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
122     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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124     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
125     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
126     ** Saturday:
127     ** Sunday:
128     SRCGROUP PAREA1      PAREA1
129     SRCGROUP PAREA2      PAREA2
130     SRCGROUP PAREA3      PAREA3
131     SRCGROUP PAREA4      PAREA4
132     SRCGROUP PAREA5      PAREA5
133     SRCGROUP ALL
134     SO FINISHED
135     **
136     *****
137     ** AERMOD Receptor Pathway
138     *****

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139 **
140 **
141 RE STARTING
142   INCLUDED ..\EBMUD_WALNUT_CREEK_[RESIDENTIAL, WORKER].ROU
143 RE FINISHED
144 **
145 *****
146 ** AERMOD Meteorology Pathway
147 *****
148 **
149 **
150 ME STARTING
151   SURFFILE ..\724930.SFC
152   PROFFILE ..\724930.PFL
153   SURFDATA 23230 2009 OAKLAND/WSO_AP
154   UAIRDATA 23230 2009 OAKLAND/WSO_AP
155   PROFBASE 1.8 METERS
156 ME FINISHED
157 **
158 *****
159 ** AERMOD Output Pathway
160 *****
161 **
162 **
163 OU STARTING
164   RECTABLE ALLAVE 1ST
165   RECTABLE 1 1ST
166   PLOTFILE PERIOD PAREA1 PE00PAREA1.PLT 31
167   PLOTFILE PERIOD PAREA2 PE00PAREA2.PLT 32
168   PLOTFILE PERIOD PAREA3 PE00PAREA3.PLT 33
169   PLOTFILE PERIOD PAREA4 PE00PAREA4.PLT 37
170   PLOTFILE PERIOD PAREA5 PE00PAREA5.PLT 38
171   PLOTFILE 1 PAREA1 1ST 01HPAREA1.PLT 34
172   PLOTFILE 1 PAREA2 1ST 01HPAREA2.PLT 35
173   PLOTFILE 1 PAREA3 1ST 01HPAREA3.PLT 36
174   PLOTFILE 1 PAREA4 1ST 01HPAREA4.PLT 39
175   PLOTFILE 1 PAREA5 1ST 01HPAREA5.PLT 40
176   FILEFORM EXP
177   SUMMFILE EBMUD_WALNUT_CREEK_[RESIDENTIAL, WORKER].sum
178 OU FINISHED
179 **
180 *****
181 ** Project Parameters
182 *****
183 ** PROJCTN CoordinateSystemUTM
184 ** DESCPTN UTM: Universal Transverse Mercator
185 ** DATUM World Geodetic System 1984
186 ** DTMRGN Global Definition
187 ** UNITS m
188 ** ZONE 10
189 ** ZONEINX 0
190 **
191
```

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1  **
2  *****
3  ** AERMOD Control Pathway
4  *****
5  **
6  **
7  CO STARTING
8  TITLEONE EBMUD Walnut Creek Water Treatment Plant - HRA
9  MODELOPT DFAULT CONC
10 AVERTIME ANNUAL
11 POLLUTID PM_2.5
12 FLAGPOLE 1.50
13 RUNORNOT RUN
14 ERRORFIL EBMUD_WALNUT_CREEK_[RESIDENTIAL, WORKER]_PM25.err
15 CO FINISHED
16 **
17 *****
18 ** AERMOD Source Pathway
19 *****
20 **
21 **
22 SO STARTING
23 ** Source Location **
24 ** Source ID - Type - X Coord. - Y Coord. **
25 LOCATION PAREA1 AREAPOLY 580377.310 4196723.885 92.380
26 LOCATION PAREA2 AREAPOLY 580508.333 4196753.128 95.010
27 LOCATION PAREA3 AREAPOLY 580541.958 4196521.209 115.740
28 LOCATION PAREA4 AREAPOLY 580515.775 4196686.123 102.960
29 LOCATION PAREA5 AREAPOLY 580659.975 4196664.956 112.890
30 ** Source Parameters **
31 SRCPARAM PAREA1 3.5264E-07 5.000 9
32 AREAVERT PAREA1 580377.310 4196723.885 580444.852 4196744.234
33 AREAVERT PAREA1 580478.320 4196646.798 580386.999 4196550.195
34 AREAVERT PAREA1 580249.687 4196609.788 580224.948 4196625.215
35 AREAVERT PAREA1 580173.424 4196677.832 580208.051 4196711.961
36 AREAVERT PAREA1 580380.534 4196653.207
37 SRCPARAM PAREA2 3.5264E-07 5.000 4
38 AREAVERT PAREA2 580508.333 4196753.128 580521.274 4196729.800
39 AREAVERT PAREA2 580548.256 4196744.088 580534.973 4196766.713
40 SRCPARAM PAREA3 3.5264E-07 5.000 4
41 AREAVERT PAREA3 580541.958 4196521.209 580567.422 4196534.412
42 AREAVERT PAREA3 580589.114 4196494.330 580562.707 4196481.127
43 SRCPARAM PAREA4 3.5264E-07 5.000 6
44 AREAVERT PAREA4 580515.775 4196686.123 580557.747 4196618.685
45 AREAVERT PAREA4 580586.986 4196634.720 580573.782 4196656.413
46 AREAVERT PAREA4 580616.697 4196680.464 580588.401 4196725.266
47 SRCPARAM PAREA5 3.5264E-07 5.000 4
48 AREAVERT PAREA5 580659.975 4196664.956 580640.343 4196653.516
49 AREAVERT PAREA5 580657.133 4196623.051 580677.061 4196634.786
50
51 ** Variable Emissions Type: "By Hour / Day (HRDOW)"
52 ** Variable Emission Scenario: "M-F 7a-6p"
53 ** WeekDays:
54 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
55 EMISFACT PAREA1 HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
56 EMISFACT PAREA1 HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
57 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
58 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
59 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
60 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
61 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
62 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
63 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
64 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
65 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
66 ** Saturday:
67 ** Sunday:
68 ** WeekDays:
69 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

```

```

70      EMISFACT PAREA2      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
71      EMISFACT PAREA2      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
72      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
73      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
74      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
75      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
76      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
77      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
78      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
79      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
80      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
81      ** Saturday:
82      ** Sunday:
83      ** WeekDays:
84      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
85      EMISFACT PAREA3      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
86      EMISFACT PAREA3      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
87      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
88      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
89      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
90      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
91      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
92      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
93      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
94      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
95      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
96      ** Saturday:
97      ** Sunday:
98      ** WeekDays:
99      EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
100     EMISFACT PAREA4      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
101     EMISFACT PAREA4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
102     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
103     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
104     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
105     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
106     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
107     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
108     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
109     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
110     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
111     ** Saturday:
112     ** Sunday:
113     ** WeekDays:
114     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
115     EMISFACT PAREA5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
116     EMISFACT PAREA5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
117     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
118     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
119     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
120     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
121     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
122     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
123     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
124     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
125     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
126     ** Saturday:
127     ** Sunday:
128     SRCGROUP PAREA1      PAREA1
129     SRCGROUP PAREA2      PAREA2
130     SRCGROUP PAREA3      PAREA3
131     SRCGROUP PAREA4      PAREA4
132     SRCGROUP PAREA5      PAREA5
133     SRCGROUP ALL
134     SO FINISHED
135     **
136     *****
137     ** AERMOD Receptor Pathway
138     *****

```

```
139 **
140 **
141 RE STARTING
142   INCLUDED ..\..\EBMUD_WALNUT_CREEK_[RESIDENTIAL, WORKER].ROU
143 RE FINISHED
144 **
145 *****
146 ** AERMOD Meteorology Pathway
147 *****
148 **
149 **
150 ME STARTING
151   SURFFILE ..\..\724930.SFC
152   PROFFILE ..\..\724930.PFL
153   SURFDATA 23230 2009 OAKLAND/WSO_AP
154   UAIRDATA 23230 2009 OAKLAND/WSO_AP
155   PROFBASE 1.8 METERS
156 ME FINISHED
157 **
158 *****
159 ** AERMOD Output Pathway
160 *****
161 **
162 **
163 OU STARTING
164 ** Maximum Annual Average POST files for Each Met Year
165   POSTFILE ANNUAL ALL PLOT ANNUAL_G001.PLT 31
166   POSTFILE ANNUAL PAREA1 PLOT ANNUAL_G002.PLT 32
167   POSTFILE ANNUAL PAREA2 PLOT ANNUAL_G003.PLT 33
168   POSTFILE ANNUAL PAREA3 PLOT ANNUAL_G004.PLT 34
169   POSTFILE ANNUAL PAREA4 PLOT ANNUAL_G005.PLT 35
170   POSTFILE ANNUAL PAREA5 PLOT ANNUAL_G006.PLT 36
171   PLOTFILE ANNUAL ALL ANNALL.PLT 37
172   FILEFORM EXP
173   SUMMFILE EBMUD_WALNUT_CREEK_[RESIDENTIAL, WORKER]_PM25.sum
174 OU FINISHED
175 **
176 *****
177 ** Project Parameters
178 *****
179 ** PROJCTN CoordinateSystemUTM
180 ** DESCPTN UTM: Universal Transverse Mercator
181 ** DATUM World Geodetic System 1984
182 ** DTMRGN Global Definition
183 ** UNITS m
184 ** ZONE 10
185 ** ZONEINX 0
186 **
187
```

```

1  **
2  *****
3  ** AERMOD Control Pathway
4  *****
5  **
6  **
7  CO STARTING
8  TITLEONE EBMUD Walnut Creek Water Treatment Plant - HRA
9  MODELOPT DFAULT CONC
10 AVERTIME ANNUAL
11 POLLUTID PM_2.5
12 FLAGPOLE 1.50
13 RUNORNOT RUN
14 ERRORFIL EBMUD_WALNUT_CREEK_[RESIDENTIAL, WORKER]_PM25_UNMIT.err
15 CO FINISHED
16 **
17 *****
18 ** AERMOD Source Pathway
19 *****
20 **
21 **
22 SO STARTING
23 ** Source Location **
24 ** Source ID - Type - X Coord. - Y Coord. **
25 LOCATION PAREA1 AREAPOLY 580377.310 4196723.885 92.380
26 LOCATION PAREA2 AREAPOLY 580508.333 4196753.128 95.010
27 LOCATION PAREA3 AREAPOLY 580541.958 4196521.209 115.740
28 LOCATION PAREA4 AREAPOLY 580515.775 4196686.123 102.960
29 LOCATION PAREA5 AREAPOLY 580659.975 4196664.956 112.890
30 ** Source Parameters **
31 SRCPARAM PAREA1 4.4668E-07 5.000 9
32 AREAVERT PAREA1 580377.310 4196723.885 580444.852 4196744.234
33 AREAVERT PAREA1 580478.320 4196646.798 580386.999 4196550.195
34 AREAVERT PAREA1 580249.687 4196609.788 580224.948 4196625.215
35 AREAVERT PAREA1 580173.424 4196677.832 580208.051 4196711.961
36 AREAVERT PAREA1 580380.534 4196653.207
37 SRCPARAM PAREA2 4.4668E-07 5.000 4
38 AREAVERT PAREA2 580508.333 4196753.128 580521.274 4196729.800
39 AREAVERT PAREA2 580548.256 4196744.088 580534.973 4196766.713
40 SRCPARAM PAREA3 4.4668E-07 5.000 4
41 AREAVERT PAREA3 580541.958 4196521.209 580567.422 4196534.412
42 AREAVERT PAREA3 580589.114 4196494.330 580562.707 4196481.127
43 SRCPARAM PAREA4 4.4668E-07 5.000 6
44 AREAVERT PAREA4 580515.775 4196686.123 580557.747 4196618.685
45 AREAVERT PAREA4 580586.986 4196634.720 580573.782 4196656.413
46 AREAVERT PAREA4 580616.697 4196680.464 580588.401 4196725.266
47 SRCPARAM PAREA5 4.4668E-07 5.000 4
48 AREAVERT PAREA5 580659.975 4196664.956 580640.343 4196653.516
49 AREAVERT PAREA5 580657.133 4196623.051 580677.061 4196634.786
50
51 ** Variable Emissions Type: "By Hour / Day (HRDOW)"
52 ** Variable Emission Scenario: "M-F 7a-6p"
53 ** WeekDays:
54 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
55 EMISFACT PAREA1 HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
56 EMISFACT PAREA1 HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
57 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
58 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
59 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
60 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
61 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
62 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
63 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
64 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
65 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
66 ** Saturday:
67 ** Sunday:
68 ** WeekDays:
69 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0

```

```

70      EMISFACT PAREA2      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
71      EMISFACT PAREA2      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
72      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
73      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
74      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
75      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
76      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
77      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
78      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
79      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
80      EMISFACT PAREA2      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
81      ** Saturday:
82      ** Sunday:
83      ** WeekDays:
84      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
85      EMISFACT PAREA3      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
86      EMISFACT PAREA3      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
87      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
88      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
89      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
90      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
91      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
92      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
93      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
94      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
95      EMISFACT PAREA3      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
96      ** Saturday:
97      ** Sunday:
98      ** WeekDays:
99      EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
100     EMISFACT PAREA4      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
101     EMISFACT PAREA4      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
102     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
103     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
104     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
105     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
106     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
107     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
108     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
109     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
110     EMISFACT PAREA4      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
111     ** Saturday:
112     ** Sunday:
113     ** WeekDays:
114     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
115     EMISFACT PAREA5      HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
116     EMISFACT PAREA5      HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
117     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
118     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
119     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
120     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
121     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
122     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
123     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
124     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
125     EMISFACT PAREA5      HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
126     ** Saturday:
127     ** Sunday:
128     SRCGROUP PAREA1      PAREA1
129     SRCGROUP PAREA2      PAREA2
130     SRCGROUP PAREA3      PAREA3
131     SRCGROUP PAREA4      PAREA4
132     SRCGROUP PAREA5      PAREA5
133     SRCGROUP ALL
134     SO FINISHED
135     **
136     *****
137     ** AERMOD Receptor Pathway
138     *****

```

```
139 **
140 **
141 RE STARTING
142   INCLUDED ..\..\EBMUD_WALNUT_CREEK_[RESIDENTIAL, WORKER].ROU
143 RE FINISHED
144 **
145 *****
146 ** AERMOD Meteorology Pathway
147 *****
148 **
149 **
150 ME STARTING
151   SURFFILE ..\..\724930.SFC
152   PROFFILE ..\..\724930.PFL
153   SURFDATA 23230 2009 OAKLAND/WSO_AP
154   UAIRDATA 23230 2009 OAKLAND/WSO_AP
155   PROFBASE 1.8 METERS
156 ME FINISHED
157 **
158 *****
159 ** AERMOD Output Pathway
160 *****
161 **
162 **
163 OU STARTING
164 ** Maximum Annual Average POST files for Each Met Year
165   POSTFILE ANNUAL ALL PLOT ANNUAL_G001.PLT 31
166   POSTFILE ANNUAL PAREA1 PLOT ANNUAL_G002.PLT 32
167   POSTFILE ANNUAL PAREA2 PLOT ANNUAL_G003.PLT 33
168   POSTFILE ANNUAL PAREA3 PLOT ANNUAL_G004.PLT 34
169   POSTFILE ANNUAL PAREA4 PLOT ANNUAL_G005.PLT 35
170   POSTFILE ANNUAL PAREA5 PLOT ANNUAL_G006.PLT 36
171   PLOTFILE ANNUAL ALL ANNALL.PLT 37
172   FILEFORM EXP
173   SUMMFILE EBMUD_WALNUT_CREEK_MPI_[RESIDENTIAL, WORKER]_PM25_UNMIT.sum
174 OU FINISHED
175 **
176 *****
177 ** Project Parameters
178 *****
179 ** PROJCTN  CoordinateSystemUTM
180 ** DESCPTN  UTM: Universal Transverse Mercator
181 ** DATUM    World Geodetic System 1984
182 ** DTMRGN  Global Definition
183 ** UNITS    m
184 ** ZONE     10
185 ** ZONEINX  0
186 **
187
```



```

1  ** AERMAP - VERSION 18081
2  **
3  ** Project: EBMUD_WALNUT_CREEK_MPI_WORKER
4  **
5  ** A total of      2  NED files were used
6  ** A total of    137  receptors were processed
7  ** No user-specified DOMAIN; all available data used
8  ** ANCHORXY  0.00  0.00  0.00  0.00  10 3
9  ** TERRHGT5  EXTRACT

```

10

11 RE ELEVUNIT METERS

12	DISCCART	580370.90	4196514.50	118.12	239.60	1.50
13	DISCCART	580570.90	4196389.50	150.64	239.60	1.50
14	DISCCART	580702.80	4196904.00	84.43	239.60	1.50
15	DISCCART	580716.40	4196892.00	79.50	239.60	1.50
16	DISCCART	580715.30	4196891.00	79.82	239.60	1.50
17	DISCCART	580699.10	4196872.00	86.15	239.60	1.50
18	DISCCART	580674.10	4196843.00	89.36	239.60	1.50
19	DISCCART	580647.80	4196813.00	90.05	239.60	1.50
20	DISCCART	580646.90	4196812.00	90.12	239.60	1.50
21	DISCCART	580667.30	4196780.00	86.81	239.60	1.50
22	DISCCART	580687.60	4196748.00	87.53	239.60	1.50
23	DISCCART	580700.90	4196726.00	89.23	239.60	1.50
24	DISCCART	580713.80	4196706.00	91.62	239.60	1.50
25	DISCCART	580727.80	4196684.00	94.21	239.60	1.50
26	DISCCART	580740.00	4196665.00	97.76	239.60	1.50
27	DISCCART	580753.30	4196644.00	101.96	239.60	1.50
28	DISCCART	580766.40	4196623.00	104.17	239.60	1.50
29	DISCCART	580779.40	4196602.00	101.86	239.60	1.50
30	DISCCART	580780.20	4196602.00	101.55	239.60	1.50
31	DISCCART	580798.20	4196585.00	94.87	239.60	1.50
32	DISCCART	580816.40	4196569.00	88.74	239.60	1.50
33	DISCCART	580832.40	4196554.00	86.42	239.60	1.50
34	DISCCART	580846.60	4196541.00	85.99	239.60	1.50
35	DISCCART	580849.70	4196538.00	86.09	239.60	1.50
36	DISCCART	580845.60	4196534.00	87.35	239.60	1.50
37	DISCCART	580764.90	4196445.00	114.38	239.60	1.50
38	DISCCART	580620.20	4196375.00	153.91	239.60	1.50
39	DISCCART	580534.60	4196401.00	146.24	239.60	1.50
40	DISCCART	580507.00	4196475.00	121.00	239.60	1.50
41	DISCCART	580468.90	4196486.00	114.04	239.60	1.50
42	DISCCART	580454.40	4196491.00	118.59	239.60	1.50
43	DISCCART	580194.30	4196566.00	142.00	239.60	1.50
44	DISCCART	580049.60	4196543.00	129.71	239.60	1.50
45	DISCCART	580048.60	4196543.00	129.81	239.60	1.50
46	DISCCART	580063.40	4196568.00	123.34	239.60	1.50
47	DISCCART	580278.70	4196788.00	92.36	239.60	1.50
48	DISCCART	580294.30	4196751.00	91.46	239.60	1.50
49	DISCCART	580337.50	4196749.00	80.13	239.60	1.50
50	DISCCART	580363.70	4196782.00	82.54	239.60	1.50
51	DISCCART	580397.30	4196783.00	89.91	239.60	1.50
52	DISCCART	580554.80	4196852.00	90.51	239.60	1.50
53	DISCCART	580678.80	4196912.00	93.42	239.60	1.50
54	DISCCART	580707.20	4196881.50	82.39	239.60	1.50
55	DISCCART	580686.60	4196857.50	88.98	239.60	1.50
56	DISCCART	580660.95	4196828.00	90.22	239.60	1.50
57	DISCCART	580657.10	4196796.00	87.41	239.60	1.50
58	DISCCART	580677.45	4196764.00	87.17	239.60	1.50
59	DISCCART	580694.25	4196737.00	88.13	239.60	1.50
60	DISCCART	580707.35	4196716.00	90.28	239.60	1.50
61	DISCCART	580720.80	4196695.00	92.83	239.60	1.50
62	DISCCART	580733.90	4196674.50	95.70	239.60	1.50
63	DISCCART	580746.65	4196654.50	100.12	239.60	1.50
64	DISCCART	580759.85	4196633.50	103.45	239.60	1.50
65	DISCCART	580772.90	4196612.50	103.64	239.60	1.50
66	DISCCART	580789.20	4196593.50	98.16	239.60	1.50
67	DISCCART	580807.30	4196577.00	91.54	239.60	1.50
68	DISCCART	580824.40	4196561.50	87.03	239.60	1.50
69	DISCCART	580834.07	4196521.29	91.43	239.60	1.50

70	DISCCART	580822.54	4196508.57	96.09	239.60	1.50
71	DISCCART	580811.01	4196495.86	102.02	239.60	1.50
72	DISCCART	580799.49	4196483.14	106.95	239.60	1.50
73	DISCCART	580787.96	4196470.43	110.21	239.60	1.50
74	DISCCART	580776.43	4196457.71	113.67	239.60	1.50
75	DISCCART	580748.82	4196437.22	116.30	239.60	1.50
76	DISCCART	580732.74	4196429.44	120.34	239.60	1.50
77	DISCCART	580716.67	4196421.67	123.96	239.60	1.50
78	DISCCART	580700.59	4196413.89	124.65	239.60	1.50
79	DISCCART	580684.51	4196406.11	126.64	239.60	1.50
80	DISCCART	580668.43	4196398.33	131.40	239.60	1.50
81	DISCCART	580652.36	4196390.56	138.51	239.60	1.50
82	DISCCART	580636.28	4196382.78	147.65	239.60	1.50
83	DISCCART	580603.08	4196380.20	153.89	239.60	1.50
84	DISCCART	580585.96	4196385.40	149.57	239.60	1.50
85	DISCCART	580568.84	4196390.60	150.72	239.60	1.50
86	DISCCART	580551.72	4196395.80	150.38	239.60	1.50
87	DISCCART	580527.70	4196419.50	142.35	239.60	1.50
88	DISCCART	580520.80	4196438.00	134.87	239.60	1.50
89	DISCCART	580513.90	4196456.50	127.10	239.60	1.50
90	DISCCART	580487.95	4196480.50	115.43	239.60	1.50
91	DISCCART	580435.82	4196496.36	123.33	239.60	1.50
92	DISCCART	580417.24	4196501.71	125.55	239.60	1.50
93	DISCCART	580398.66	4196507.07	125.55	239.60	1.50
94	DISCCART	580380.09	4196512.43	121.95	239.60	1.50
95	DISCCART	580361.51	4196517.79	113.72	239.60	1.50
96	DISCCART	580342.93	4196523.14	111.21	239.60	1.50
97	DISCCART	580324.35	4196528.50	117.97	239.60	1.50
98	DISCCART	580305.77	4196533.86	127.87	239.60	1.50
99	DISCCART	580287.19	4196539.21	135.59	239.60	1.50
100	DISCCART	580268.61	4196544.57	138.15	239.60	1.50
101	DISCCART	580250.04	4196549.93	135.24	239.60	1.50
102	DISCCART	580231.46	4196555.29	133.22	239.60	1.50
103	DISCCART	580212.88	4196560.64	135.98	239.60	1.50
104	DISCCART	580176.21	4196563.13	146.11	239.60	1.50
105	DISCCART	580158.13	4196560.25	143.97	239.60	1.50
106	DISCCART	580140.04	4196557.38	140.00	239.60	1.50
107	DISCCART	580121.95	4196554.50	136.61	239.60	1.50
108	DISCCART	580103.86	4196551.63	131.61	239.60	1.50
109	DISCCART	580085.78	4196548.75	124.98	239.60	1.50
110	DISCCART	580067.69	4196545.88	127.02	239.60	1.50
111	DISCCART	580056.00	4196555.50	127.01	239.60	1.50
112	DISCCART	580076.86	4196581.75	121.41	239.60	1.50
113	DISCCART	580090.31	4196595.50	118.92	239.60	1.50
114	DISCCART	580103.77	4196609.25	112.85	239.60	1.50
115	DISCCART	580117.23	4196623.00	107.75	239.60	1.50
116	DISCCART	580130.68	4196636.75	106.50	239.60	1.50
117	DISCCART	580144.14	4196650.50	107.10	239.60	1.50
118	DISCCART	580157.59	4196664.25	107.07	239.60	1.50
119	DISCCART	580171.05	4196678.00	106.38	239.60	1.50
120	DISCCART	580184.51	4196691.75	104.88	239.60	1.50
121	DISCCART	580197.96	4196705.50	104.86	239.60	1.50
122	DISCCART	580211.42	4196719.25	104.03	239.60	1.50
123	DISCCART	580224.88	4196733.00	102.85	239.60	1.50
124	DISCCART	580238.33	4196746.75	101.43	239.60	1.50
125	DISCCART	580251.79	4196760.50	99.01	239.60	1.50
126	DISCCART	580265.24	4196774.25	95.45	239.60	1.50
127	DISCCART	580283.90	4196775.67	92.30	239.60	1.50
128	DISCCART	580289.10	4196763.33	92.16	239.60	1.50
129	DISCCART	580308.70	4196750.33	88.43	239.60	1.50
130	DISCCART	580323.10	4196749.67	84.32	239.60	1.50
131	DISCCART	580346.23	4196760.00	80.33	239.60	1.50
132	DISCCART	580354.97	4196771.00	80.96	239.60	1.50
133	DISCCART	580380.50	4196782.50	88.83	239.60	1.50
134	DISCCART	580414.80	4196790.67	88.22	239.60	1.50
135	DISCCART	580432.30	4196798.33	84.07	239.60	1.50
136	DISCCART	580449.80	4196806.00	77.68	239.60	1.50
137	DISCCART	580467.30	4196813.67	84.38	239.60	1.50
138	DISCCART	580484.80	4196821.33	87.97	239.60	1.50

04 - AERMOD INPUT - RECEPTOR FILE - WBMUD_WALNUT_CREEK_WORKER.ROU

139	DISCCART	580502.30	4196829.00	89.47	239.60	1.50
140	DISCCART	580519.80	4196836.67	90.13	239.60	1.50
141	DISCCART	580537.30	4196844.33	90.57	239.60	1.50
142	DISCCART	580572.51	4196860.57	89.41	239.60	1.50
143	DISCCART	580590.23	4196869.14	90.69	239.60	1.50
144	DISCCART	580607.94	4196877.71	95.53	239.60	1.50
145	DISCCART	580625.66	4196886.29	100.11	239.60	1.50
146	DISCCART	580643.37	4196894.86	103.27	239.60	1.50
147	DISCCART	580661.09	4196903.43	101.15	239.60	1.50
148	DISCCART	580690.80	4196908.00	89.24	239.60	1.50
149						

1 ** AERMAP - VERSION 18081
 2 **
 3 ** Project: EBMUD_WALNUT_CREEK_MPI_RESIDENTIAL
 4 **
 5 ** A total of 2 NED files were used
 6 ** A total of 4315 receptors were processed
 7 ** No user-specified DOMAIN; all available data used
 8 ** ANCHORXY 0.00 0.00 0.00 0.00 10 3
 9 ** TERRHGT5 EXTRACT

10

11 RE ELEVUNIT METERS

12	DISCCART	580695.90	4196739.50	87.56	239.60	1.50
13	DISCCART	580745.90	4196664.50	97.26	239.60	1.50
14	DISCCART	580720.90	4196714.50	90.69	239.60	1.50
15	DISCCART	580670.90	4196789.50	84.50	239.60	1.50
16	DISCCART	580520.90	4196839.50	89.67	239.60	1.50
17	DISCCART	580745.90	4196689.50	93.61	239.60	1.50
18	DISCCART	580770.90	4196639.50	97.73	239.60	1.50
19	DISCCART	580695.90	4196764.50	84.05	239.60	1.50
20	DISCCART	580720.90	4196739.50	87.96	239.60	1.50
21	DISCCART	580795.90	4196589.50	95.74	239.60	1.50
22	DISCCART	580770.90	4196664.50	94.40	239.60	1.50
23	DISCCART	580795.90	4196614.50	94.09	239.60	1.50
24	DISCCART	580745.90	4196714.50	91.60	239.60	1.50
25	DISCCART	580670.90	4196814.50	85.34	239.60	1.50
26	DISCCART	580795.90	4196639.50	93.54	239.60	1.50
27	DISCCART	580770.90	4196689.50	93.48	239.60	1.50
28	DISCCART	580695.90	4196789.50	82.72	239.60	1.50
29	DISCCART	580720.90	4196764.50	84.55	239.60	1.50
30	DISCCART	580745.90	4196739.50	88.33	239.60	1.50
31	DISCCART	580820.90	4196589.50	88.91	239.60	1.50
32	DISCCART	580795.90	4196664.50	93.63	239.60	1.50
33	DISCCART	580395.90	4196789.50	89.44	239.60	1.50
34	DISCCART	580495.90	4196839.50	86.91	239.60	1.50
35	DISCCART	580820.90	4196614.50	91.13	239.60	1.50
36	DISCCART	580770.90	4196714.50	92.39	239.60	1.50
37	DISCCART	580820.90	4196489.50	100.14	239.60	1.50
38	DISCCART	580445.90	4196814.50	78.25	239.60	1.50
39	DISCCART	580820.90	4196639.50	91.88	239.60	1.50
40	DISCCART	580795.90	4196689.50	94.10	239.60	1.50
41	DISCCART	580745.90	4196764.50	86.25	239.60	1.50
42	DISCCART	580795.90	4196464.50	106.55	239.60	1.50
43	DISCCART	580720.90	4196789.50	81.73	239.60	1.50
44	DISCCART	580770.90	4196739.50	91.40	239.60	1.50
45	DISCCART	580845.90	4196564.50	85.48	239.60	1.50
46	DISCCART	580820.90	4196664.50	93.50	239.60	1.50
47	DISCCART	580845.90	4196514.50	89.35	239.60	1.50
48	DISCCART	580695.90	4196814.50	81.00	239.60	1.50
49	DISCCART	580820.90	4196464.50	96.01	239.60	1.50
50	DISCCART	580845.90	4196589.50	86.32	239.60	1.50
51	DISCCART	580795.90	4196714.50	93.88	239.60	1.50
52	DISCCART	580570.90	4196864.50	88.81	239.60	1.50
53	DISCCART	580845.90	4196614.50	88.56	239.60	1.50
54	DISCCART	580845.90	4196489.50	88.98	239.60	1.50
55	DISCCART	580820.90	4196689.50	93.54	239.60	1.50
56	DISCCART	580845.90	4196639.50	90.82	239.60	1.50
57	DISCCART	580545.90	4196864.50	87.11	239.60	1.50
58	DISCCART	580770.90	4196764.50	88.51	239.60	1.50
59	DISCCART	580745.90	4196789.50	84.00	239.60	1.50
60	DISCCART	580795.90	4196739.50	91.90	239.60	1.50
61	DISCCART	580420.90	4196814.50	85.71	239.60	1.50
62	DISCCART	580870.90	4196539.50	85.72	239.60	1.50
63	DISCCART	580845.90	4196664.50	90.38	239.60	1.50
64	DISCCART	580870.90	4196514.50	89.28	239.60	1.50
65	DISCCART	580870.90	4196564.50	82.68	239.60	1.50
66	DISCCART	580845.90	4196464.50	89.81	239.60	1.50
67	DISCCART	580870.90	4196589.50	83.95	239.60	1.50
68	DISCCART	580795.90	4196439.50	104.74	239.60	1.50
69	DISCCART	580470.90	4196839.50	80.36	239.60	1.50

70	DISCCART	580820.90	4196714.50	90.10	239.60	1.50
71	DISCCART	580720.90	4196814.50	79.53	239.60	1.50
72	DISCCART	580870.90	4196614.50	86.75	239.60	1.50
73	DISCCART	580820.90	4196439.50	93.45	239.60	1.50
74	DISCCART	580870.90	4196489.50	91.09	239.60	1.50
75	DISCCART	580870.90	4196639.50	85.87	239.60	1.50
76	DISCCART	580845.90	4196689.50	84.69	239.60	1.50
77	DISCCART	580520.90	4196864.50	85.45	239.60	1.50
78	DISCCART	580695.90	4196839.50	81.47	239.60	1.50
79	DISCCART	580770.90	4196439.50	112.57	239.60	1.50
80	DISCCART	580795.90	4196764.50	85.07	239.60	1.50
81	DISCCART	580895.90	4196539.50	85.22	239.60	1.50
82	DISCCART	580770.90	4196789.50	82.68	239.60	1.50
83	DISCCART	580870.90	4196464.50	97.54	239.60	1.50
84	DISCCART	580895.90	4196514.50	90.14	239.60	1.50
85	DISCCART	580895.90	4196564.50	82.30	239.60	1.50
86	DISCCART	580845.90	4196439.50	95.26	239.60	1.50
87	DISCCART	580820.90	4196739.50	84.19	239.60	1.50
88	DISCCART	580895.90	4196589.50	81.29	239.60	1.50
89	DISCCART	580870.90	4196664.50	80.94	239.60	1.50
90	DISCCART	580895.90	4196489.50	94.69	239.60	1.50
91	DISCCART	580745.90	4196814.50	79.52	239.60	1.50
92	DISCCART	580845.90	4196714.50	79.79	239.60	1.50
93	DISCCART	580370.90	4196789.50	85.52	239.60	1.50
94	DISCCART	580795.90	4196414.50	99.63	239.60	1.50
95	DISCCART	580895.90	4196614.50	79.05	239.60	1.50
96	DISCCART	580495.90	4196864.50	84.40	239.60	1.50
97	DISCCART	580395.90	4196814.50	86.82	239.60	1.50
98	DISCCART	580445.90	4196839.50	77.77	239.60	1.50
99	DISCCART	580920.90	4196539.50	87.58	239.60	1.50
100	DISCCART	580895.90	4196639.50	76.73	239.60	1.50
101	DISCCART	580870.90	4196689.50	77.44	239.60	1.50
102	DISCCART	580720.90	4196839.50	77.97	239.60	1.50
103	DISCCART	580820.90	4196414.50	97.82	239.60	1.50
104	DISCCART	580895.90	4196464.50	98.30	239.60	1.50
105	DISCCART	580920.90	4196514.50	90.75	239.60	1.50
106	DISCCART	580920.90	4196564.50	83.23	239.60	1.50
107	DISCCART	580770.90	4196414.50	107.70	239.60	1.50
108	DISCCART	580870.90	4196439.50	104.45	239.60	1.50
109	DISCCART	580820.90	4196764.50	77.35	239.60	1.50
110	DISCCART	580920.90	4196489.50	95.23	239.60	1.50
111	DISCCART	580920.90	4196589.50	77.53	239.60	1.50
112	DISCCART	580895.90	4196664.50	76.75	239.60	1.50
113	DISCCART	580795.90	4196789.50	76.58	239.60	1.50
114	DISCCART	580595.90	4196889.50	94.21	239.60	1.50
115	DISCCART	580845.90	4196739.50	75.77	239.60	1.50
116	DISCCART	580695.90	4196864.50	86.90	239.60	1.50
117	DISCCART	580920.90	4196614.50	75.73	239.60	1.50
118	DISCCART	580870.90	4196714.50	76.61	239.60	1.50
119	DISCCART	580770.90	4196814.50	75.44	239.60	1.50
120	DISCCART	580570.90	4196889.50	88.53	239.60	1.50
121	DISCCART	580845.90	4196414.50	104.05	239.60	1.50
122	DISCCART	580945.90	4196539.50	90.33	239.60	1.50
123	DISCCART	580920.90	4196464.50	98.69	239.60	1.50
124	DISCCART	580895.90	4196689.50	76.74	239.60	1.50
125	DISCCART	580420.90	4196839.50	84.02	239.60	1.50
126	DISCCART	580945.90	4196514.50	95.50	239.60	1.50
127	DISCCART	580920.90	4196639.50	75.09	239.60	1.50
128	DISCCART	580345.90	4196764.50	80.03	239.60	1.50
129	DISCCART	580895.90	4196439.50	103.26	239.60	1.50
130	DISCCART	580745.90	4196414.50	113.41	239.60	1.50
131	DISCCART	580945.90	4196564.50	80.67	239.60	1.50
132	DISCCART	580745.90	4196839.50	75.90	239.60	1.50
133	DISCCART	580470.90	4196864.50	80.39	239.60	1.50
134	DISCCART	580945.90	4196489.50	97.52	239.60	1.50
135	DISCCART	580945.90	4196589.50	77.44	239.60	1.50
136	DISCCART	580545.90	4196889.50	84.82	239.60	1.50
137	DISCCART	580920.90	4196664.50	75.69	239.60	1.50
138	DISCCART	580870.90	4196739.50	75.25	239.60	1.50

05 - AERMOD INPUT - RECEPTOR FILE - EBMUD_WALNUT_CREEK_RESIDENTIAL

139	DISCCART	580845.90	4196764.50	74.31	239.60	1.50
140	DISCCART	580820.90	4196789.50	74.21	239.60	1.50
141	DISCCART	580895.90	4196714.50	76.57	239.60	1.50
142	DISCCART	580770.90	4196389.50	102.55	239.60	1.50
143	DISCCART	580620.90	4196889.50	99.56	239.60	1.50
144	DISCCART	580945.90	4196614.50	73.80	239.60	1.50
145	DISCCART	580795.90	4196814.50	74.21	239.60	1.50
146	DISCCART	580970.90	4196539.50	93.06	239.60	1.50
147	DISCCART	580795.90	4196389.50	103.98	239.60	1.50
148	DISCCART	580920.90	4196689.50	76.98	239.60	1.50
149	DISCCART	580945.90	4196464.50	100.13	239.60	1.50
150	DISCCART	580945.90	4196639.50	74.65	239.60	1.50
151	DISCCART	580720.90	4196864.50	77.33	239.60	1.50
152	DISCCART	580920.90	4196439.50	105.74	239.60	1.50
153	DISCCART	580970.90	4196514.50	98.70	239.60	1.50
154	DISCCART	580970.90	4196564.50	81.50	239.60	1.50
155	DISCCART	580520.90	4196889.50	82.93	239.60	1.50
156	DISCCART	580745.90	4196389.50	105.23	239.60	1.50
157	DISCCART	580870.90	4196414.50	111.01	239.60	1.50
158	DISCCART	580820.90	4196389.50	105.81	239.60	1.50
159	DISCCART	580770.90	4196839.50	74.87	239.60	1.50
160	DISCCART	580320.90	4196764.50	85.78	239.60	1.50
161	DISCCART	580970.90	4196589.50	75.61	239.60	1.50
162	DISCCART	580945.90	4196664.50	75.62	239.60	1.50
163	DISCCART	580895.90	4196739.50	76.17	239.60	1.50
164	DISCCART	580870.90	4196764.50	73.90	239.60	1.50
165	DISCCART	580370.90	4196814.50	80.50	239.60	1.50
166	DISCCART	580970.90	4196489.50	101.58	239.60	1.50
167	DISCCART	580920.90	4196714.50	76.90	239.60	1.50
168	DISCCART	580845.90	4196789.50	73.48	239.60	1.50
169	DISCCART	580345.90	4196789.50	81.31	239.60	1.50
170	DISCCART	580395.90	4196839.50	82.85	239.60	1.50
171	DISCCART	580895.90	4196414.50	109.69	239.60	1.50
172	DISCCART	580970.90	4196614.50	73.11	239.60	1.50
173	DISCCART	580720.90	4196414.50	121.77	239.60	1.50
174	DISCCART	580995.90	4196539.50	91.06	239.60	1.50
175	DISCCART	580820.90	4196814.50	73.74	239.60	1.50
176	DISCCART	580945.90	4196439.50	104.44	239.60	1.50
177	DISCCART	580495.90	4196889.50	82.44	239.60	1.50
178	DISCCART	580995.90	4196564.50	81.29	239.60	1.50
179	DISCCART	580945.90	4196689.50	72.82	239.60	1.50
180	DISCCART	580745.90	4196864.50	74.81	239.60	1.50
181	DISCCART	580995.90	4196514.50	99.56	239.60	1.50
182	DISCCART	580970.90	4196639.50	70.49	239.60	1.50
183	DISCCART	580445.90	4196864.50	72.79	239.60	1.50
184	DISCCART	580970.90	4196464.50	105.20	239.60	1.50
185	DISCCART	580795.90	4196839.50	73.97	239.60	1.50
186	DISCCART	580920.90	4196414.50	109.25	239.60	1.50
187	DISCCART	580295.90	4196764.50	90.97	239.60	1.50
188	DISCCART	580995.90	4196589.50	74.69	239.60	1.50
189	DISCCART	580895.90	4196764.50	74.15	239.60	1.50
190	DISCCART	580920.90	4196739.50	72.89	239.60	1.50
191	DISCCART	580870.90	4196789.50	72.88	239.60	1.50
192	DISCCART	580995.90	4196489.50	102.98	239.60	1.50
193	DISCCART	580970.90	4196664.50	69.23	239.60	1.50
194	DISCCART	580995.90	4196614.50	72.28	239.60	1.50
195	DISCCART	580845.90	4196814.50	73.93	239.60	1.50
196	DISCCART	580595.90	4196914.50	94.62	239.60	1.50
197	DISCCART	580720.90	4196389.50	112.89	239.60	1.50
198	DISCCART	580845.90	4196389.50	117.60	239.60	1.50
199	DISCCART	580945.90	4196714.50	68.60	239.60	1.50
200	DISCCART	580570.90	4196914.50	88.86	239.60	1.50
201	DISCCART	581020.90	4196514.50	88.73	239.60	1.50
202	DISCCART	581020.90	4196539.50	83.95	239.60	1.50
203	DISCCART	580470.90	4196889.50	80.50	239.60	1.50
204	DISCCART	580970.90	4196439.50	107.63	239.60	1.50
205	DISCCART	580770.90	4196864.50	74.16	239.60	1.50
206	DISCCART	580945.90	4196414.50	108.11	239.60	1.50
207	DISCCART	580420.90	4196864.50	78.09	239.60	1.50

05 - AERMOD INPUT - RECEPTOR FILE - EBMUD_WALNUT_CREEK_RESIDENTIAL

208	DISCCART	580320.90	4196789.50	86.58	239.60	1.50
209	DISCCART	581020.90	4196489.50	94.04	239.60	1.50
210	DISCCART	580820.90	4196839.50	74.42	239.60	1.50
211	DISCCART	580995.90	4196639.50	70.05	239.60	1.50
212	DISCCART	580995.90	4196464.50	105.56	239.60	1.50
213	DISCCART	581020.90	4196564.50	77.82	239.60	1.50
214	DISCCART	580720.90	4196889.50	78.05	239.60	1.50
215	DISCCART	580970.90	4196689.50	68.84	239.60	1.50
216	DISCCART	580545.90	4196914.50	86.02	239.60	1.50
217	DISCCART	581020.90	4196589.50	74.92	239.60	1.50
218	DISCCART	581020.90	4196464.50	96.52	239.60	1.50
219	DISCCART	580920.90	4196764.50	70.11	239.60	1.50
220	DISCCART	580895.90	4196789.50	70.72	239.60	1.50
221	DISCCART	580870.90	4196389.50	120.46	239.60	1.50
222	DISCCART	580995.90	4196439.50	105.34	239.60	1.50
223	DISCCART	580995.90	4196664.50	67.25	239.60	1.50
224	DISCCART	580345.90	4196814.50	78.68	239.60	1.50
225	DISCCART	580895.90	4196389.50	116.94	239.60	1.50
226	DISCCART	581020.90	4196614.50	71.90	239.60	1.50
227	DISCCART	580870.90	4196814.50	72.99	239.60	1.50
228	DISCCART	580945.90	4196739.50	67.61	239.60	1.50
229	DISCCART	580620.90	4196914.50	99.38	239.60	1.50
230	DISCCART	580970.90	4196414.50	107.77	239.60	1.50
231	DISCCART	580795.90	4196864.50	74.57	239.60	1.50
232	DISCCART	580670.90	4196914.50	95.47	239.60	1.50
233	DISCCART	580970.90	4196714.50	66.64	239.60	1.50
234	DISCCART	580920.90	4196389.50	114.53	239.60	1.50
235	DISCCART	580845.90	4196839.50	74.14	239.60	1.50
236	DISCCART	580370.90	4196839.50	75.99	239.60	1.50
237	DISCCART	581045.90	4196514.50	81.89	239.60	1.50
238	DISCCART	581045.90	4196539.50	78.63	239.60	1.50
239	DISCCART	581045.90	4196489.50	87.62	239.60	1.50
240	DISCCART	580745.90	4196889.50	74.91	239.60	1.50
241	DISCCART	580520.90	4196914.50	81.31	239.60	1.50
242	DISCCART	581020.90	4196439.50	100.41	239.60	1.50
243	DISCCART	581045.90	4196564.50	76.87	239.60	1.50
244	DISCCART	581020.90	4196639.50	68.47	239.60	1.50
245	DISCCART	580495.90	4196464.50	120.28	239.60	1.50
246	DISCCART	580770.90	4196364.50	111.84	239.60	1.50
247	DISCCART	580820.90	4196364.50	114.45	239.60	1.50
248	DISCCART	580645.90	4196914.50	100.72	239.60	1.50
249	DISCCART	580995.90	4196689.50	65.85	239.60	1.50
250	DISCCART	580795.90	4196364.50	114.02	239.60	1.50
251	DISCCART	580945.90	4196389.50	110.98	239.60	1.50
252	DISCCART	580995.90	4196414.50	104.75	239.60	1.50
253	DISCCART	580195.90	4196714.50	104.95	239.60	1.50
254	DISCCART	581045.90	4196464.50	93.75	239.60	1.50
255	DISCCART	581045.90	4196589.50	73.24	239.60	1.50
256	DISCCART	580695.90	4196914.50	85.81	239.60	1.50
257	DISCCART	580745.90	4196364.50	111.17	239.60	1.50
258	DISCCART	580295.90	4196789.50	89.84	239.60	1.50
259	DISCCART	580395.90	4196864.50	77.05	239.60	1.50
260	DISCCART	580445.90	4196489.50	121.95	239.60	1.50
261	DISCCART	580945.90	4196764.50	67.28	239.60	1.50
262	DISCCART	581020.90	4196664.50	67.56	239.60	1.50
263	DISCCART	580920.90	4196789.50	68.55	239.60	1.50
264	DISCCART	580970.90	4196389.50	107.95	239.60	1.50
265	DISCCART	581045.90	4196614.50	71.39	239.60	1.50
266	DISCCART	580970.90	4196739.50	66.03	239.60	1.50
267	DISCCART	580895.90	4196814.50	70.69	239.60	1.50
268	DISCCART	580820.90	4196864.50	73.64	239.60	1.50
269	DISCCART	580445.90	4196889.50	71.95	239.60	1.50
270	DISCCART	580695.90	4196389.50	120.58	239.60	1.50
271	DISCCART	580495.90	4196914.50	80.58	239.60	1.50
272	DISCCART	581020.90	4196414.50	100.95	239.60	1.50
273	DISCCART	581045.90	4196439.50	94.84	239.60	1.50
274	DISCCART	580220.90	4196739.50	103.04	239.60	1.50
275	DISCCART	580995.90	4196714.50	65.32	239.60	1.50
276	DISCCART	580770.90	4196889.50	72.73	239.60	1.50

277	DISCCART	580320.90	4196814.50	84.31	239.60	1.50
278	DISCCART	581045.90	4196639.50	69.99	239.60	1.50
279	DISCCART	580995.90	4196389.50	104.29	239.60	1.50
280	DISCCART	581070.90	4196514.50	79.53	239.60	1.50
281	DISCCART	580345.90	4196839.50	83.44	239.60	1.50
282	DISCCART	581070.90	4196564.50	76.12	239.60	1.50
283	DISCCART	581020.90	4196689.50	67.51	239.60	1.50
284	DISCCART	580720.90	4196364.50	111.77	239.60	1.50
285	DISCCART	580870.90	4196839.50	69.96	239.60	1.50
286	DISCCART	581070.90	4196464.50	85.14	239.60	1.50
287	DISCCART	581045.90	4196414.50	95.56	239.60	1.50
288	DISCCART	580720.90	4196914.50	78.68	239.60	1.50
289	DISCCART	580845.90	4196864.50	75.22	239.60	1.50
290	DISCCART	580845.90	4196364.50	124.14	239.60	1.50
291	DISCCART	581045.90	4196664.50	68.44	239.60	1.50
292	DISCCART	581020.90	4196389.50	100.18	239.60	1.50
293	DISCCART	580970.90	4196764.50	66.55	239.60	1.50
294	DISCCART	580945.90	4196789.50	67.57	239.60	1.50
295	DISCCART	581070.90	4196614.50	72.32	239.60	1.50
296	DISCCART	580595.90	4196939.50	90.00	239.60	1.50
297	DISCCART	580995.90	4196739.50	65.64	239.60	1.50
298	DISCCART	580245.90	4196764.50	99.09	239.60	1.50
299	DISCCART	580920.90	4196814.50	69.25	239.60	1.50
300	DISCCART	580620.90	4196939.50	92.27	239.60	1.50
301	DISCCART	580795.90	4196889.50	72.84	239.60	1.50
302	DISCCART	580470.90	4196464.50	116.60	239.60	1.50
303	DISCCART	580470.90	4196914.50	77.30	239.60	1.50
304	DISCCART	581020.90	4196714.50	65.93	239.60	1.50
305	DISCCART	580420.90	4196889.50	72.22	239.60	1.50
306	DISCCART	580370.90	4196864.50	78.67	239.60	1.50
307	DISCCART	580570.90	4196939.50	86.19	239.60	1.50
308	DISCCART	580270.90	4196789.50	93.16	239.60	1.50
309	DISCCART	580870.90	4196364.50	126.18	239.60	1.50
310	DISCCART	580970.90	4196364.50	110.25	239.60	1.50
311	DISCCART	580645.90	4196939.50	91.16	239.60	1.50
312	DISCCART	581045.90	4196689.50	67.63	239.60	1.50
313	DISCCART	580545.90	4196939.50	86.02	239.60	1.50
314	DISCCART	580945.90	4196364.50	117.90	239.60	1.50
315	DISCCART	581045.90	4196389.50	96.98	239.60	1.50
316	DISCCART	580895.90	4196364.50	126.76	239.60	1.50
317	DISCCART	581070.90	4196414.50	90.83	239.60	1.50
318	DISCCART	580895.90	4196839.50	65.95	239.60	1.50
319	DISCCART	580745.90	4196914.50	74.53	239.60	1.50
320	DISCCART	580995.90	4196364.50	107.90	239.60	1.50
321	DISCCART	580295.90	4196814.50	89.16	239.60	1.50
322	DISCCART	580870.90	4196864.50	74.17	239.60	1.50
323	DISCCART	580970.90	4196789.50	67.46	239.60	1.50
324	DISCCART	580995.90	4196764.50	65.15	239.60	1.50
325	DISCCART	580670.90	4196939.50	86.29	239.60	1.50
326	DISCCART	580320.90	4196839.50	86.22	239.60	1.50
327	DISCCART	581070.90	4196664.50	65.72	239.60	1.50
328	DISCCART	580945.90	4196814.50	68.83	239.60	1.50
329	DISCCART	580820.90	4196889.50	70.76	239.60	1.50
330	DISCCART	580920.90	4196364.50	127.54	239.60	1.50
331	DISCCART	580345.90	4196864.50	87.25	239.60	1.50
332	DISCCART	581020.90	4196739.50	63.44	239.60	1.50
333	DISCCART	581045.90	4196714.50	66.31	239.60	1.50
334	DISCCART	581020.90	4196364.50	105.31	239.60	1.50
335	DISCCART	580520.90	4196939.50	80.59	239.60	1.50
336	DISCCART	581120.90	4196514.50	79.48	239.60	1.50
337	DISCCART	580695.90	4196364.50	117.62	239.60	1.50
338	DISCCART	580395.90	4196889.50	72.65	239.60	1.50
339	DISCCART	580770.90	4196914.50	72.80	239.60	1.50
340	DISCCART	580920.90	4196839.50	65.70	239.60	1.50
341	DISCCART	580845.90	4196889.50	74.56	239.60	1.50
342	DISCCART	581120.90	4196564.50	70.19	239.60	1.50
343	DISCCART	581120.90	4196464.50	81.55	239.60	1.50
344	DISCCART	581045.90	4196364.50	102.52	239.60	1.50
345	DISCCART	580670.90	4196389.50	129.74	239.60	1.50

346	DISCCART	580445.90	4196914.50	70.26	239.60	1.50
347	DISCCART	580695.90	4196939.50	80.23	239.60	1.50
348	DISCCART	580245.90	4196789.50	94.48	239.60	1.50
349	DISCCART	580895.90	4196864.50	70.13	239.60	1.50
350	DISCCART	580220.90	4196764.50	100.20	239.60	1.50
351	DISCCART	580820.90	4196339.50	123.19	239.60	1.50
352	DISCCART	580195.90	4196739.50	103.99	239.60	1.50
353	DISCCART	580970.90	4196339.50	115.09	239.60	1.50
354	DISCCART	581045.90	4196739.50	63.68	239.60	1.50
355	DISCCART	581020.90	4196764.50	61.95	239.60	1.50
356	DISCCART	580995.90	4196789.50	62.62	239.60	1.50
357	DISCCART	580495.90	4196939.50	77.57	239.60	1.50
358	DISCCART	580970.90	4196814.50	65.78	239.60	1.50
359	DISCCART	581070.90	4196714.50	65.93	239.60	1.50
360	DISCCART	581120.90	4196614.50	65.91	239.60	1.50
361	DISCCART	580795.90	4196339.50	122.54	239.60	1.50
362	DISCCART	580370.90	4196889.50	79.62	239.60	1.50
363	DISCCART	581070.90	4196364.50	99.93	239.60	1.50
364	DISCCART	580795.90	4196914.50	70.06	239.60	1.50
365	DISCCART	580270.90	4196814.50	90.45	239.60	1.50
366	DISCCART	581120.90	4196414.50	85.64	239.60	1.50
367	DISCCART	580720.90	4196939.50	77.44	239.60	1.50
368	DISCCART	580945.90	4196339.50	122.58	239.60	1.50
369	DISCCART	580870.90	4196889.50	75.31	239.60	1.50
370	DISCCART	580845.90	4196339.50	128.20	239.60	1.50
371	DISCCART	580770.90	4196339.50	120.69	239.60	1.50
372	DISCCART	580945.90	4196839.50	65.40	239.60	1.50
373	DISCCART	580295.90	4196839.50	87.33	239.60	1.50
374	DISCCART	580995.90	4196339.50	116.64	239.60	1.50
375	DISCCART	580420.90	4196914.50	70.16	239.60	1.50
376	DISCCART	580170.90	4196689.50	104.79	239.60	1.50
377	DISCCART	580320.90	4196864.50	85.36	239.60	1.50
378	DISCCART	580920.90	4196864.50	66.51	239.60	1.50
379	DISCCART	581045.90	4196764.50	61.63	239.60	1.50
380	DISCCART	580745.90	4196939.50	75.61	239.60	1.50
381	DISCCART	580745.90	4196339.50	120.20	239.60	1.50
382	DISCCART	581020.90	4196789.50	60.87	239.60	1.50
383	DISCCART	581120.90	4196664.50	62.81	239.60	1.50
384	DISCCART	580820.90	4196914.50	69.01	239.60	1.50
385	DISCCART	580470.90	4196939.50	72.57	239.60	1.50
386	DISCCART	581020.90	4196339.50	116.07	239.60	1.50
387	DISCCART	580895.90	4196889.50	74.14	239.60	1.50
388	DISCCART	580595.90	4196964.50	81.63	239.60	1.50
389	DISCCART	580995.90	4196814.50	59.99	239.60	1.50
390	DISCCART	580570.90	4196964.50	82.23	239.60	1.50
391	DISCCART	580920.90	4196339.50	133.40	239.60	1.50
392	DISCCART	580870.90	4196339.50	135.57	239.60	1.50
393	DISCCART	580345.90	4196889.50	83.06	239.60	1.50
394	DISCCART	580620.90	4196964.50	81.97	239.60	1.50
395	DISCCART	580170.90	4196714.50	104.26	239.60	1.50
396	DISCCART	581170.90	4196514.50	72.16	239.60	1.50
397	DISCCART	581045.90	4196339.50	111.61	239.60	1.50
398	DISCCART	580545.90	4196964.50	83.22	239.60	1.50
399	DISCCART	580895.90	4196339.50	136.28	239.60	1.50
400	DISCCART	580220.90	4196789.50	93.81	239.60	1.50
401	DISCCART	580770.90	4196939.50	76.60	239.60	1.50
402	DISCCART	581170.90	4196564.50	70.76	239.60	1.50
403	DISCCART	580395.90	4196914.50	73.80	239.60	1.50
404	DISCCART	580970.90	4196839.50	60.32	239.60	1.50
405	DISCCART	581120.90	4196364.50	89.60	239.60	1.50
406	DISCCART	581170.90	4196464.50	75.40	239.60	1.50
407	DISCCART	580645.90	4196964.50	80.66	239.60	1.50
408	DISCCART	581070.90	4196764.50	65.93	239.60	1.50
409	DISCCART	580845.90	4196914.50	68.79	239.60	1.50
410	DISCCART	580195.90	4196764.50	99.89	239.60	1.50
411	DISCCART	580945.90	4196864.50	64.25	239.60	1.50
412	DISCCART	580720.90	4196339.50	120.23	239.60	1.50
413	DISCCART	581045.90	4196789.50	60.66	239.60	1.50
414	DISCCART	580245.90	4196814.50	91.00	239.60	1.50

415	DISCCART	580670.90	4196964.50	78.55	239.60	1.50
416	DISCCART	581170.90	4196614.50	66.52	239.60	1.50
417	DISCCART	581170.90	4196414.50	82.32	239.60	1.50
418	DISCCART	581120.90	4196714.50	65.12	239.60	1.50
419	DISCCART	580420.90	4196489.50	129.22	239.60	1.50
420	DISCCART	580270.90	4196839.50	88.81	239.60	1.50
421	DISCCART	581020.90	4196814.50	59.51	239.60	1.50
422	DISCCART	580445.90	4196939.50	68.96	239.60	1.50
423	DISCCART	580520.90	4196964.50	77.03	239.60	1.50
424	DISCCART	580920.90	4196889.50	69.59	239.60	1.50
425	DISCCART	580795.90	4196939.50	72.20	239.60	1.50
426	DISCCART	580870.90	4196914.50	70.89	239.60	1.50
427	DISCCART	580370.90	4196914.50	77.25	239.60	1.50
428	DISCCART	580945.90	4196314.50	127.67	239.60	1.50
429	DISCCART	580670.90	4196364.50	127.53	239.60	1.50
430	DISCCART	580695.90	4196964.50	76.49	239.60	1.50
431	DISCCART	581070.90	4196314.50	105.37	239.60	1.50
432	DISCCART	581045.90	4196314.50	111.96	239.60	1.50
433	DISCCART	580995.90	4196839.50	59.13	239.60	1.50
434	DISCCART	580295.90	4196864.50	84.07	239.60	1.50
435	DISCCART	580345.90	4196514.50	114.69	239.60	1.50
436	DISCCART	580495.90	4196439.50	125.22	239.60	1.50
437	DISCCART	580970.90	4196314.50	127.27	239.60	1.50
438	DISCCART	581020.90	4196314.50	120.42	239.60	1.50
439	DISCCART	580320.90	4196889.50	81.60	239.60	1.50
440	DISCCART	580495.90	4196964.50	74.22	239.60	1.50
441	DISCCART	580420.90	4196939.50	70.60	239.60	1.50
442	DISCCART	580720.90	4196964.50	74.78	239.60	1.50
443	DISCCART	581170.90	4196664.50	62.45	239.60	1.50
444	DISCCART	580170.90	4196739.50	103.64	239.60	1.50
445	DISCCART	580995.90	4196314.50	126.69	239.60	1.50
446	DISCCART	580970.90	4196864.50	58.20	239.60	1.50
447	DISCCART	581045.90	4196814.50	59.23	239.60	1.50
448	DISCCART	581170.90	4196364.50	86.85	239.60	1.50
449	DISCCART	580895.90	4196914.50	69.71	239.60	1.50
450	DISCCART	581220.90	4196514.50	72.48	239.60	1.50
451	DISCCART	580820.90	4196939.50	67.74	239.60	1.50
452	DISCCART	580745.90	4196964.50	77.87	239.60	1.50
453	DISCCART	581120.90	4196764.50	75.16	239.60	1.50
454	DISCCART	580920.90	4196314.50	135.80	239.60	1.50
455	DISCCART	581120.90	4196314.50	96.21	239.60	1.50
456	DISCCART	581220.90	4196464.50	76.56	239.60	1.50
457	DISCCART	580695.90	4196339.50	122.47	239.60	1.50
458	DISCCART	581020.90	4196839.50	58.36	239.60	1.50
459	DISCCART	580945.90	4196889.50	63.77	239.60	1.50
460	DISCCART	580195.90	4196789.50	94.15	239.60	1.50
461	DISCCART	580770.90	4196964.50	81.63	239.60	1.50
462	DISCCART	581220.90	4196564.50	65.55	239.60	1.50
463	DISCCART	581045.90	4196289.50	111.17	239.60	1.50
464	DISCCART	580220.90	4196814.50	92.27	239.60	1.50
465	DISCCART	580845.90	4196314.50	135.46	239.60	1.50
466	DISCCART	580445.90	4196464.50	127.04	239.60	1.50
467	DISCCART	580820.90	4196314.50	132.54	239.60	1.50
468	DISCCART	580345.90	4196914.50	77.60	239.60	1.50
469	DISCCART	580395.90	4196939.50	73.27	239.60	1.50
470	DISCCART	581070.90	4196814.50	64.14	239.60	1.50
471	DISCCART	580470.90	4196964.50	70.20	239.60	1.50
472	DISCCART	581220.90	4196414.50	80.61	239.60	1.50
473	DISCCART	580245.90	4196839.50	89.43	239.60	1.50
474	DISCCART	580470.90	4196439.50	120.54	239.60	1.50
475	DISCCART	580845.90	4196939.50	67.15	239.60	1.50
476	DISCCART	580270.90	4196864.50	86.69	239.60	1.50
477	DISCCART	580995.90	4196864.50	57.37	239.60	1.50
478	DISCCART	580795.90	4196314.50	130.44	239.60	1.50
479	DISCCART	581170.90	4196714.50	65.20	239.60	1.50
480	DISCCART	581020.90	4196289.50	119.12	239.60	1.50
481	DISCCART	581220.90	4196614.50	65.33	239.60	1.50
482	DISCCART	580920.90	4196914.50	68.16	239.60	1.50
483	DISCCART	580570.90	4196989.50	78.12	239.60	1.50

05 - AERMOD INPUT - RECEPTOR FILE - EBMUD_WALNUT_CREEK_RESIDENTIAL

484	DISCCART	580170.90	4196764.50	99.95	239.60	1.50
485	DISCCART	580895.90	4196314.50	143.44	239.60	1.50
486	DISCCART	580795.90	4196964.50	78.15	239.60	1.50
487	DISCCART	580595.90	4196989.50	76.30	239.60	1.50
488	DISCCART	581045.90	4196839.50	58.44	239.60	1.50
489	DISCCART	580295.90	4196889.50	82.20	239.60	1.50
490	DISCCART	580870.90	4196314.50	143.12	239.60	1.50
491	DISCCART	580620.90	4196989.50	74.89	239.60	1.50
492	DISCCART	580545.90	4196989.50	77.55	239.60	1.50
493	DISCCART	580970.90	4196889.50	57.78	239.60	1.50
494	DISCCART	581170.90	4196314.50	94.86	239.60	1.50
495	DISCCART	580995.90	4196289.50	127.73	239.60	1.50
496	DISCCART	580870.90	4196939.50	65.84	239.60	1.50
497	DISCCART	581220.90	4196364.50	86.37	239.60	1.50
498	DISCCART	580370.90	4196939.50	74.85	239.60	1.50
499	DISCCART	580445.90	4196964.50	67.74	239.60	1.50
500	DISCCART	580770.90	4196314.50	129.93	239.60	1.50
501	DISCCART	580645.90	4196989.50	72.91	239.60	1.50
502	DISCCART	581020.90	4196864.50	56.37	239.60	1.50
503	DISCCART	580670.90	4196989.50	74.39	239.60	1.50
504	DISCCART	580320.90	4196914.50	79.25	239.60	1.50
505	DISCCART	581270.90	4196514.50	79.30	239.60	1.50
506	DISCCART	580145.90	4196714.50	100.97	239.60	1.50
507	DISCCART	581270.90	4196464.50	82.50	239.60	1.50
508	DISCCART	581220.90	4196664.50	62.43	239.60	1.50
509	DISCCART	580520.90	4196989.50	74.86	239.60	1.50
510	DISCCART	581070.90	4196264.50	107.25	239.60	1.50
511	DISCCART	581045.90	4196264.50	111.78	239.60	1.50
512	DISCCART	581170.90	4196764.50	79.67	239.60	1.50
513	DISCCART	580945.90	4196914.50	62.17	239.60	1.50
514	DISCCART	581120.90	4196814.50	73.91	239.60	1.50
515	DISCCART	580695.90	4196989.50	72.82	239.60	1.50
516	DISCCART	580945.90	4196289.50	136.27	239.60	1.50
517	DISCCART	580420.90	4196964.50	69.96	239.60	1.50
518	DISCCART	580970.90	4196289.50	135.52	239.60	1.50
519	DISCCART	580145.90	4196739.50	98.94	239.60	1.50
520	DISCCART	580895.90	4196939.50	65.72	239.60	1.50
521	DISCCART	580820.90	4196964.50	69.70	239.60	1.50
522	DISCCART	581270.90	4196564.50	68.60	239.60	1.50
523	DISCCART	581270.90	4196414.50	82.01	239.60	1.50
524	DISCCART	580995.90	4196889.50	55.89	239.60	1.50
525	DISCCART	580220.90	4196839.50	90.85	239.60	1.50
526	DISCCART	580195.90	4196814.50	93.60	239.60	1.50
527	DISCCART	580245.90	4196864.50	88.15	239.60	1.50
528	DISCCART	580495.90	4196989.50	72.29	239.60	1.50
529	DISCCART	580720.90	4196989.50	72.94	239.60	1.50
530	DISCCART	581045.90	4196864.50	56.52	239.60	1.50
531	DISCCART	580745.90	4196989.50	77.72	239.60	1.50
532	DISCCART	580345.90	4196939.50	76.05	239.60	1.50
533	DISCCART	580170.90	4196789.50	94.80	239.60	1.50
534	DISCCART	581020.90	4196264.50	121.96	239.60	1.50
535	DISCCART	580745.90	4196314.50	130.61	239.60	1.50
536	DISCCART	580270.90	4196889.50	83.52	239.60	1.50
537	DISCCART	580920.90	4196289.50	140.81	239.60	1.50
538	DISCCART	581120.90	4196264.50	106.26	239.60	1.50
539	DISCCART	580770.90	4196989.50	82.26	239.60	1.50
540	DISCCART	581220.90	4196314.50	92.34	239.60	1.50
541	DISCCART	580395.90	4196964.50	72.31	239.60	1.50
542	DISCCART	581270.90	4196614.50	62.11	239.60	1.50
543	DISCCART	580920.90	4196939.50	63.81	239.60	1.50
544	DISCCART	580845.90	4196964.50	65.35	239.60	1.50
545	DISCCART	580295.90	4196914.50	80.73	239.60	1.50
546	DISCCART	581220.90	4196714.50	59.17	239.60	1.50
547	DISCCART	581070.90	4196864.50	62.68	239.60	1.50
548	DISCCART	580670.90	4196339.50	129.18	239.60	1.50
549	DISCCART	580970.90	4196914.50	56.95	239.60	1.50
550	DISCCART	581270.90	4196364.50	83.74	239.60	1.50
551	DISCCART	581020.90	4196889.50	54.88	239.60	1.50
552	DISCCART	580995.90	4196264.50	128.72	239.60	1.50

553	DISCCART	580470.90	4196989.50	68.00	239.60	1.50
554	DISCCART	580145.90	4196689.50	103.51	239.60	1.50
555	DISCCART	580795.90	4196989.50	78.23	239.60	1.50
556	DISCCART	580395.90	4196489.50	133.41	239.60	1.50
557	DISCCART	581320.90	4196464.50	85.67	239.60	1.50
558	DISCCART	581320.90	4196514.50	81.31	239.60	1.50
559	DISCCART	580145.90	4196764.50	97.29	239.60	1.50
560	DISCCART	581170.90	4196264.50	102.17	239.60	1.50
561	DISCCART	581045.90	4196239.50	115.82	239.60	1.50
562	DISCCART	580320.90	4196939.50	77.82	239.60	1.50
563	DISCCART	580870.90	4196964.50	63.67	239.60	1.50
564	DISCCART	581170.90	4196814.50	79.60	239.60	1.50
565	DISCCART	580895.90	4196289.50	147.00	239.60	1.50
566	DISCCART	580645.90	4196364.50	142.06	239.60	1.50
567	DISCCART	580370.90	4196964.50	72.61	239.60	1.50
568	DISCCART	581270.90	4196664.50	60.89	239.60	1.50
569	DISCCART	580945.90	4196939.50	61.57	239.60	1.50
570	DISCCART	580595.90	4197014.50	74.46	239.60	1.50
571	DISCCART	580445.90	4196989.50	67.78	239.60	1.50
572	DISCCART	580995.90	4196914.50	54.76	239.60	1.50
573	DISCCART	580570.90	4197014.50	73.76	239.60	1.50
574	DISCCART	580620.90	4197014.50	73.58	239.60	1.50
575	DISCCART	580245.90	4196889.50	87.43	239.60	1.50
576	DISCCART	581045.90	4196889.50	55.16	239.60	1.50
577	DISCCART	581320.90	4196564.50	72.43	239.60	1.50
578	DISCCART	580220.90	4196864.50	89.49	239.60	1.50
579	DISCCART	580545.90	4197014.50	74.16	239.60	1.50
580	DISCCART	581320.90	4196414.50	78.32	239.60	1.50
581	DISCCART	581220.90	4196764.50	68.75	239.60	1.50
582	DISCCART	580195.90	4196839.50	93.04	239.60	1.50
583	DISCCART	580970.90	4196264.50	137.39	239.60	1.50
584	DISCCART	580845.90	4196289.50	143.55	239.60	1.50
585	DISCCART	580870.90	4196289.50	147.59	239.60	1.50
586	DISCCART	580645.90	4197014.50	71.80	239.60	1.50
587	DISCCART	580720.90	4196314.50	132.32	239.60	1.50
588	DISCCART	580820.90	4196989.50	71.78	239.60	1.50
589	DISCCART	580270.90	4196914.50	82.82	239.60	1.50
590	DISCCART	581120.90	4196864.50	72.97	239.60	1.50
591	DISCCART	580670.90	4197014.50	71.99	239.60	1.50
592	DISCCART	581270.90	4196314.50	83.11	239.60	1.50
593	DISCCART	581020.90	4196239.50	123.57	239.60	1.50
594	DISCCART	580895.90	4196964.50	61.29	239.60	1.50
595	DISCCART	580520.90	4197014.50	73.22	239.60	1.50
596	DISCCART	580170.90	4196814.50	94.29	239.60	1.50
597	DISCCART	580420.90	4196989.50	68.72	239.60	1.50
598	DISCCART	580820.90	4196289.50	141.28	239.60	1.50
599	DISCCART	581220.90	4196264.50	96.79	239.60	1.50
600	DISCCART	580695.90	4197014.50	71.91	239.60	1.50
601	DISCCART	580795.90	4196289.50	136.75	239.60	1.50
602	DISCCART	580345.90	4196964.50	74.53	239.60	1.50
603	DISCCART	580320.90	4196514.50	120.40	239.60	1.50
604	DISCCART	581020.90	4196914.50	53.28	239.60	1.50
605	DISCCART	580295.90	4196939.50	80.36	239.60	1.50
606	DISCCART	580970.90	4196939.50	55.55	239.60	1.50
607	DISCCART	581320.90	4196614.50	61.86	239.60	1.50
608	DISCCART	580995.90	4196239.50	128.60	239.60	1.50
609	DISCCART	580720.90	4197014.50	71.98	239.60	1.50
610	DISCCART	581320.90	4196364.50	76.61	239.60	1.50
611	DISCCART	580945.90	4196264.50	143.17	239.60	1.50
612	DISCCART	580495.90	4197014.50	71.33	239.60	1.50
613	DISCCART	581270.90	4196714.50	56.47	239.60	1.50
614	DISCCART	580495.90	4196414.50	128.73	239.60	1.50
615	DISCCART	580145.90	4196789.50	94.19	239.60	1.50
616	DISCCART	580745.90	4197014.50	74.46	239.60	1.50
617	DISCCART	580920.90	4196964.50	59.42	239.60	1.50
618	DISCCART	580395.90	4196989.50	69.99	239.60	1.50
619	DISCCART	580845.90	4196989.50	64.82	239.60	1.50
620	DISCCART	580520.90	4196414.50	140.60	239.60	1.50
621	DISCCART	580770.90	4197014.50	78.23	239.60	1.50

622	DISCCART	580920.90	4196264.50	145.66	239.60	1.50
623	DISCCART	580970.90	4196239.50	133.03	239.60	1.50
624	DISCCART	581045.90	4196914.50	53.95	239.60	1.50
625	DISCCART	581370.90	4196464.50	75.89	239.60	1.50
626	DISCCART	580220.90	4196889.50	88.46	239.60	1.50
627	DISCCART	580245.90	4196914.50	86.71	239.60	1.50
628	DISCCART	581370.90	4196514.50	74.66	239.60	1.50
629	DISCCART	580145.90	4196664.50	105.29	239.60	1.50
630	DISCCART	580320.90	4196964.50	77.00	239.60	1.50
631	DISCCART	580995.90	4196939.50	53.57	239.60	1.50
632	DISCCART	581045.90	4196214.50	119.65	239.60	1.50
633	DISCCART	580470.90	4197014.50	67.48	239.60	1.50
634	DISCCART	581220.90	4196814.50	73.16	239.60	1.50
635	DISCCART	580195.90	4196864.50	91.57	239.60	1.50
636	DISCCART	580945.90	4196964.50	58.90	239.60	1.50
637	DISCCART	581270.90	4196264.50	88.93	239.60	1.50
638	DISCCART	581320.90	4196664.50	57.64	239.60	1.50
639	DISCCART	580370.90	4196989.50	72.56	239.60	1.50
640	DISCCART	581320.90	4196314.50	82.08	239.60	1.50
641	DISCCART	580420.90	4196464.50	136.08	239.60	1.50
642	DISCCART	580270.90	4196939.50	83.34	239.60	1.50
643	DISCCART	580870.90	4196989.50	62.21	239.60	1.50
644	DISCCART	580795.90	4197014.50	75.40	239.60	1.50
645	DISCCART	581070.90	4196214.50	119.60	239.60	1.50
646	DISCCART	581170.90	4196864.50	77.95	239.60	1.50
647	DISCCART	581070.90	4196914.50	60.84	239.60	1.50
648	DISCCART	580120.90	4196739.50	98.67	239.60	1.50
649	DISCCART	580695.90	4196314.50	134.12	239.60	1.50
650	DISCCART	581370.90	4196414.50	70.64	239.60	1.50
651	DISCCART	581370.90	4196564.50	68.22	239.60	1.50
652	DISCCART	580170.90	4196839.50	94.35	239.60	1.50
653	DISCCART	581020.90	4196214.50	124.00	239.60	1.50
654	DISCCART	580120.90	4196714.50	99.31	239.60	1.50
655	DISCCART	580445.90	4197014.50	67.98	239.60	1.50
656	DISCCART	580770.90	4196289.50	139.39	239.60	1.50
657	DISCCART	581170.90	4196214.50	108.98	239.60	1.50
658	DISCCART	580445.90	4196439.50	130.05	239.60	1.50
659	DISCCART	580295.90	4196964.50	83.36	239.60	1.50
660	DISCCART	580470.90	4196414.50	124.33	239.60	1.50
661	DISCCART	581270.90	4196764.50	58.23	239.60	1.50
662	DISCCART	580370.90	4196489.50	132.06	239.60	1.50
663	DISCCART	581020.90	4196939.50	52.12	239.60	1.50
664	DISCCART	580570.90	4197039.50	71.84	239.60	1.50
665	DISCCART	580595.90	4197039.50	71.35	239.60	1.50
666	DISCCART	580120.90	4196764.50	94.87	239.60	1.50
667	DISCCART	580620.90	4197039.50	70.92	239.60	1.50
668	DISCCART	581220.90	4196214.50	99.75	239.60	1.50
669	DISCCART	580895.90	4196264.50	151.65	239.60	1.50
670	DISCCART	581370.90	4196364.50	72.89	239.60	1.50
671	DISCCART	580995.90	4196214.50	128.18	239.60	1.50
672	DISCCART	580345.90	4196989.50	74.31	239.60	1.50
673	DISCCART	580820.90	4197014.50	68.91	239.60	1.50
674	DISCCART	580145.90	4196814.50	93.83	239.60	1.50
675	DISCCART	580895.90	4196989.50	57.43	239.60	1.50
676	DISCCART	580420.90	4197014.50	68.89	239.60	1.50
677	DISCCART	580545.90	4197039.50	71.78	239.60	1.50
678	DISCCART	580120.90	4196689.50	100.00	239.60	1.50
679	DISCCART	580970.90	4196964.50	54.02	239.60	1.50
680	DISCCART	580645.90	4197039.50	69.81	239.60	1.50
681	DISCCART	580945.90	4196239.50	141.99	239.60	1.50
682	DISCCART	581370.90	4196614.50	58.03	239.60	1.50
683	DISCCART	580645.90	4196339.50	138.94	239.60	1.50
684	DISCCART	580670.90	4197039.50	69.87	239.60	1.50
685	DISCCART	581120.90	4196214.50	123.11	239.60	1.50
686	DISCCART	580245.90	4196939.50	88.80	239.60	1.50
687	DISCCART	581320.90	4196714.50	54.21	239.60	1.50
688	DISCCART	580220.90	4196914.50	89.16	239.60	1.50
689	DISCCART	581320.90	4196264.50	93.59	239.60	1.50
690	DISCCART	580520.90	4197039.50	70.30	239.60	1.50

691	DISCCART	581120.90	4196914.50	69.29	239.60	1.50
692	DISCCART	581045.90	4196939.50	52.96	239.60	1.50
693	DISCCART	580695.90	4197039.50	70.22	239.60	1.50
694	DISCCART	580270.90	4196964.50	88.52	239.60	1.50
695	DISCCART	580195.90	4196889.50	89.57	239.60	1.50
696	DISCCART	580395.90	4197014.50	70.48	239.60	1.50
697	DISCCART	581370.90	4196314.50	82.84	239.60	1.50
698	DISCCART	580970.90	4196214.50	132.03	239.60	1.50
699	DISCCART	580320.90	4196989.50	78.52	239.60	1.50
700	DISCCART	580920.90	4196989.50	55.35	239.60	1.50
701	DISCCART	580720.90	4197039.50	70.62	239.60	1.50
702	DISCCART	580845.90	4197014.50	63.98	239.60	1.50
703	DISCCART	580995.90	4196964.50	52.77	239.60	1.50
704	DISCCART	580870.90	4196264.50	154.10	239.60	1.50
705	DISCCART	580620.90	4196364.50	153.27	239.60	1.50
706	DISCCART	580120.90	4196664.50	100.81	239.60	1.50
707	DISCCART	580745.90	4196289.50	140.14	239.60	1.50
708	DISCCART	580170.90	4196864.50	93.03	239.60	1.50
709	DISCCART	581270.90	4196214.50	95.29	239.60	1.50
710	DISCCART	580495.90	4197039.50	67.42	239.60	1.50
711	DISCCART	580745.90	4197039.50	70.90	239.60	1.50
712	DISCCART	581370.90	4196664.50	56.52	239.60	1.50
713	DISCCART	580920.90	4196239.50	146.37	239.60	1.50
714	DISCCART	581270.90	4196814.50	62.68	239.60	1.50
715	DISCCART	581220.90	4196864.50	70.30	239.60	1.50
716	DISCCART	580120.90	4196789.50	92.66	239.60	1.50
717	DISCCART	580370.90	4197014.50	73.29	239.60	1.50
718	DISCCART	580295.90	4196989.50	84.38	239.60	1.50
719	DISCCART	580770.90	4197039.50	71.72	239.60	1.50
720	DISCCART	581045.90	4196189.50	124.92	239.60	1.50
721	DISCCART	580945.90	4196989.50	54.11	239.60	1.50
722	DISCCART	580870.90	4197014.50	61.67	239.60	1.50
723	DISCCART	581020.90	4196189.50	125.53	239.60	1.50
724	DISCCART	580470.90	4197039.50	66.85	239.60	1.50
725	DISCCART	580145.90	4196839.50	93.73	239.60	1.50
726	DISCCART	581020.90	4196964.50	51.18	239.60	1.50
727	DISCCART	580345.90	4196489.50	128.02	239.60	1.50
728	DISCCART	581320.90	4196764.50	53.41	239.60	1.50
729	DISCCART	580845.90	4196264.50	154.45	239.60	1.50
730	DISCCART	580220.90	4196939.50	90.13	239.60	1.50
731	DISCCART	581370.90	4196264.50	89.96	239.60	1.50
732	DISCCART	580345.90	4197014.50	77.12	239.60	1.50
733	DISCCART	580445.90	4197039.50	68.02	239.60	1.50
734	DISCCART	580795.90	4197039.50	69.70	239.60	1.50
735	DISCCART	580245.90	4196964.50	88.93	239.60	1.50
736	DISCCART	580995.90	4196189.50	128.22	239.60	1.50
737	DISCCART	580195.90	4196914.50	90.32	239.60	1.50
738	DISCCART	580970.90	4196989.50	53.15	239.60	1.50
739	DISCCART	581170.90	4196914.50	68.98	239.60	1.50
740	DISCCART	580795.90	4196264.50	143.46	239.60	1.50
741	DISCCART	581320.90	4196214.50	93.79	239.60	1.50
742	DISCCART	580945.90	4196214.50	139.95	239.60	1.50
743	DISCCART	580820.90	4196264.50	150.62	239.60	1.50
744	DISCCART	580895.90	4197014.50	58.04	239.60	1.50
745	DISCCART	581045.90	4196964.50	51.62	239.60	1.50
746	DISCCART	580420.90	4197039.50	69.48	239.60	1.50
747	DISCCART	581370.90	4196714.50	53.28	239.60	1.50
748	DISCCART	580270.90	4196989.50	88.47	239.60	1.50
749	DISCCART	580595.90	4197064.50	69.91	239.60	1.50
750	DISCCART	580620.90	4197064.50	70.03	239.60	1.50
751	DISCCART	581170.90	4196164.50	112.57	239.60	1.50
752	DISCCART	580170.90	4196889.50	90.70	239.60	1.50
753	DISCCART	581220.90	4196164.50	105.10	239.60	1.50
754	DISCCART	580320.90	4197014.50	80.84	239.60	1.50
755	DISCCART	580570.90	4197064.50	69.63	239.60	1.50
756	DISCCART	580120.90	4196814.50	92.75	239.60	1.50
757	DISCCART	580820.90	4197039.50	65.27	239.60	1.50
758	DISCCART	580645.90	4197064.50	69.03	239.60	1.50
759	DISCCART	581070.90	4196964.50	57.54	239.60	1.50

760	DISCCART	580670.90	4196314.50	141.36	239.60	1.50
761	DISCCART	580120.90	4196639.50	103.50	239.60	1.50
762	DISCCART	580395.90	4197039.50	72.19	239.60	1.50
763	DISCCART	580320.90	4196489.50	123.06	239.60	1.50
764	DISCCART	580995.90	4196989.50	51.91	239.60	1.50
765	DISCCART	580545.90	4197064.50	68.84	239.60	1.50
766	DISCCART	580670.90	4197064.50	68.43	239.60	1.50
767	DISCCART	580970.90	4196189.50	132.06	239.60	1.50
768	DISCCART	580920.90	4197014.50	55.50	239.60	1.50
769	DISCCART	580145.90	4196864.50	93.22	239.60	1.50
770	DISCCART	580695.90	4197064.50	68.69	239.60	1.50
771	DISCCART	581470.90	4196464.50	59.66	239.60	1.50
772	DISCCART	580845.90	4197039.50	64.11	239.60	1.50
773	DISCCART	580895.90	4196239.50	155.86	239.60	1.50
774	DISCCART	580545.90	4196389.50	151.61	239.60	1.50
775	DISCCART	581270.90	4196164.50	99.14	239.60	1.50
776	DISCCART	580520.90	4197064.50	66.03	239.60	1.50
777	DISCCART	580720.90	4197064.50	69.31	239.60	1.50
778	DISCCART	581120.90	4196164.50	123.08	239.60	1.50
779	DISCCART	580720.90	4196289.50	143.90	239.60	1.50
780	DISCCART	580370.90	4197039.50	74.13	239.60	1.50
781	DISCCART	581270.90	4196864.50	61.43	239.60	1.50
782	DISCCART	580095.90	4196764.50	95.68	239.60	1.50
783	DISCCART	580195.90	4196939.50	91.01	239.60	1.50
784	DISCCART	580220.90	4196964.50	89.11	239.60	1.50
785	DISCCART	580295.90	4197014.50	83.07	239.60	1.50
786	DISCCART	581370.90	4196214.50	85.42	239.60	1.50
787	DISCCART	581320.90	4196814.50	53.25	239.60	1.50
788	DISCCART	581020.90	4196989.50	50.68	239.60	1.50
789	DISCCART	580945.90	4197014.50	54.12	239.60	1.50
790	DISCCART	580495.90	4197064.50	66.39	239.60	1.50
791	DISCCART	580745.90	4197064.50	68.01	239.60	1.50
792	DISCCART	581470.90	4196364.50	63.26	239.60	1.50
793	DISCCART	581470.90	4196564.50	53.70	239.60	1.50
794	DISCCART	581020.90	4196164.50	127.18	239.60	1.50
795	DISCCART	581045.90	4196164.50	127.62	239.60	1.50
796	DISCCART	580495.90	4196389.50	130.47	239.60	1.50
797	DISCCART	580095.90	4196739.50	99.28	239.60	1.50
798	DISCCART	580245.90	4196989.50	88.07	239.60	1.50
799	DISCCART	580870.90	4197039.50	62.03	239.60	1.50
800	DISCCART	581070.90	4196164.50	128.05	239.60	1.50
801	DISCCART	580170.90	4196914.50	91.49	239.60	1.50
802	DISCCART	581370.90	4196764.50	50.87	239.60	1.50
803	DISCCART	581120.90	4196964.50	64.82	239.60	1.50
804	DISCCART	580920.90	4196214.50	147.84	239.60	1.50
805	DISCCART	580520.90	4196389.50	140.99	239.60	1.50
806	DISCCART	580120.90	4196839.50	92.44	239.60	1.50
807	DISCCART	580470.90	4197064.50	66.59	239.60	1.50
808	DISCCART	580345.90	4197039.50	76.51	239.60	1.50
809	DISCCART	581220.90	4196914.50	64.58	239.60	1.50
810	DISCCART	580770.90	4197064.50	66.97	239.60	1.50
811	DISCCART	580395.90	4196464.50	143.25	239.60	1.50
812	DISCCART	580095.90	4196789.50	92.98	239.60	1.50
813	DISCCART	581045.90	4196989.50	50.79	239.60	1.50
814	DISCCART	580970.90	4197014.50	53.06	239.60	1.50
815	DISCCART	581320.90	4196164.50	93.24	239.60	1.50
816	DISCCART	580995.90	4196164.50	129.27	239.60	1.50
817	DISCCART	580445.90	4197064.50	67.94	239.60	1.50
818	DISCCART	580095.90	4196714.50	100.49	239.60	1.50
819	DISCCART	580145.90	4196889.50	92.25	239.60	1.50
820	DISCCART	580270.90	4197014.50	85.35	239.60	1.50
821	DISCCART	580895.90	4197039.50	59.56	239.60	1.50
822	DISCCART	580945.90	4196189.50	138.56	239.60	1.50
823	DISCCART	580595.90	4196364.50	160.11	239.60	1.50
824	DISCCART	580795.90	4197064.50	65.60	239.60	1.50
825	DISCCART	580320.90	4197039.50	79.54	239.60	1.50
826	DISCCART	580420.90	4197064.50	69.25	239.60	1.50
827	DISCCART	580870.90	4196239.50	161.76	239.60	1.50
828	DISCCART	580770.90	4196264.50	150.21	239.60	1.50

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829	DISCCART	580195.90	4196964.50	90.78	239.60	1.50
830	DISCCART	580995.90	4197014.50	51.81	239.60	1.50
831	DISCCART	580095.90	4196689.50	100.96	239.60	1.50
832	DISCCART	580820.90	4197064.50	65.22	239.60	1.50
833	DISCCART	581470.90	4196264.50	80.06	239.60	1.50
834	DISCCART	580220.90	4196989.50	88.27	239.60	1.50
835	DISCCART	580920.90	4197039.50	56.78	239.60	1.50
836	DISCCART	580620.90	4197089.50	67.92	239.60	1.50
837	DISCCART	580620.90	4196339.50	150.90	239.60	1.50
838	DISCCART	580095.90	4196664.50	100.79	239.60	1.50
839	DISCCART	580170.90	4196939.50	91.89	239.60	1.50
840	DISCCART	580395.90	4197064.50	71.09	239.60	1.50
841	DISCCART	580595.90	4197089.50	67.37	239.60	1.50
842	DISCCART	580120.90	4196864.50	92.47	239.60	1.50
843	DISCCART	580645.90	4197089.50	67.95	239.60	1.50
844	DISCCART	581470.90	4196664.50	51.87	239.60	1.50
845	DISCCART	580695.90	4196289.50	144.03	239.60	1.50
846	DISCCART	580420.90	4196439.50	139.55	239.60	1.50
847	DISCCART	580095.90	4196814.50	92.62	239.60	1.50
848	DISCCART	580570.90	4197089.50	66.31	239.60	1.50
849	DISCCART	581170.90	4196964.50	66.07	239.60	1.50
850	DISCCART	580845.90	4197064.50	64.80	239.60	1.50
851	DISCCART	580670.90	4197089.50	67.26	239.60	1.50
852	DISCCART	581370.90	4196164.50	87.97	239.60	1.50
853	DISCCART	580970.90	4196164.50	133.40	239.60	1.50
854	DISCCART	580245.90	4197014.50	86.74	239.60	1.50
855	DISCCART	580295.90	4197039.50	81.89	239.60	1.50
856	DISCCART	581370.90	4196814.50	49.34	239.60	1.50
857	DISCCART	580695.90	4197089.50	67.55	239.60	1.50
858	DISCCART	581320.90	4196864.50	51.79	239.60	1.50
859	DISCCART	581020.90	4197014.50	50.35	239.60	1.50
860	DISCCART	580545.90	4197089.50	64.47	239.60	1.50
861	DISCCART	580145.90	4196914.50	92.90	239.60	1.50
862	DISCCART	580945.90	4197039.50	55.19	239.60	1.50
863	DISCCART	580370.90	4197064.50	72.90	239.60	1.50
864	DISCCART	581270.90	4196114.50	102.59	239.60	1.50
865	DISCCART	580645.90	4196314.50	145.20	239.60	1.50
866	DISCCART	580520.90	4197089.50	64.40	239.60	1.50
867	DISCCART	580720.90	4197089.50	67.29	239.60	1.50
868	DISCCART	581220.90	4196114.50	113.41	239.60	1.50
869	DISCCART	581270.90	4196914.50	57.73	239.60	1.50
870	DISCCART	580445.90	4196414.50	135.36	239.60	1.50
871	DISCCART	580870.90	4197064.50	61.36	239.60	1.50
872	DISCCART	580895.90	4196214.50	157.08	239.60	1.50
873	DISCCART	580495.90	4197089.50	65.07	239.60	1.50
874	DISCCART	580845.90	4196239.50	163.30	239.60	1.50
875	DISCCART	580470.90	4196389.50	129.98	239.60	1.50
876	DISCCART	581045.90	4197014.50	49.85	239.60	1.50
877	DISCCART	580295.90	4196514.50	133.32	239.60	1.50
878	DISCCART	580095.90	4196639.50	102.98	239.60	1.50
879	DISCCART	580270.90	4197039.50	84.36	239.60	1.50
880	DISCCART	580970.90	4197039.50	54.08	239.60	1.50
881	DISCCART	580345.90	4197064.50	75.37	239.60	1.50
882	DISCCART	580470.90	4197089.50	66.58	239.60	1.50
883	DISCCART	580745.90	4197089.50	64.67	239.60	1.50
884	DISCCART	580920.90	4196189.50	146.48	239.60	1.50
885	DISCCART	580095.90	4196839.50	91.83	239.60	1.50
886	DISCCART	580120.90	4196889.50	92.57	239.60	1.50
887	DISCCART	581320.90	4196114.50	96.79	239.60	1.50
888	DISCCART	580170.90	4196964.50	93.25	239.60	1.50
889	DISCCART	580195.90	4196989.50	88.46	239.60	1.50
890	DISCCART	581170.90	4196114.50	120.84	239.60	1.50
891	DISCCART	580745.90	4196264.50	150.70	239.60	1.50
892	DISCCART	580895.90	4197064.50	58.91	239.60	1.50
893	DISCCART	580445.90	4197089.50	67.85	239.60	1.50
894	DISCCART	580770.90	4197089.50	63.74	239.60	1.50
895	DISCCART	581070.90	4197014.50	52.97	239.60	1.50
896	DISCCART	580220.90	4197014.50	87.33	239.60	1.50
897	DISCCART	581570.90	4196464.50	55.33	239.60	1.50

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898	DISCCART	580945.90	4196164.50	138.30	239.60	1.50
899	DISCCART	580820.90	4196239.50	159.41	239.60	1.50
900	DISCCART	580145.90	4196939.50	93.33	239.60	1.50
901	DISCCART	580995.90	4197039.50	52.21	239.60	1.50
902	DISCCART	580320.90	4197064.50	78.11	239.60	1.50
903	DISCCART	580420.90	4197089.50	69.11	239.60	1.50
904	DISCCART	580795.90	4197089.50	64.13	239.60	1.50
905	DISCCART	581220.90	4196964.50	58.72	239.60	1.50
906	DISCCART	581570.90	4196364.50	58.54	239.60	1.50
907	DISCCART	580245.90	4197039.50	86.13	239.60	1.50
908	DISCCART	580920.90	4197064.50	56.75	239.60	1.50
909	DISCCART	581120.90	4196114.50	127.00	239.60	1.50
910	DISCCART	580820.90	4197089.50	64.64	239.60	1.50
911	DISCCART	580570.90	4196364.50	161.71	239.60	1.50
912	DISCCART	580095.90	4196864.50	92.57	239.60	1.50
913	DISCCART	580295.90	4197064.50	81.33	239.60	1.50
914	DISCCART	580395.90	4197089.50	70.67	239.60	1.50
915	DISCCART	581370.90	4196114.50	91.27	239.60	1.50
916	DISCCART	581370.90	4196864.50	48.76	239.60	1.50
917	DISCCART	580370.90	4196464.50	143.34	239.60	1.50
918	DISCCART	580270.90	4196539.50	139.33	239.60	1.50
919	DISCCART	580070.90	4196789.50	97.20	239.60	1.50
920	DISCCART	580120.90	4196914.50	94.39	239.60	1.50
921	DISCCART	581570.90	4196564.50	50.85	239.60	1.50
922	DISCCART	580795.90	4196239.50	155.08	239.60	1.50
923	DISCCART	580495.90	4196364.50	128.64	239.60	1.50
924	DISCCART	581020.90	4197039.50	49.69	239.60	1.50
925	DISCCART	581470.90	4196764.50	50.11	239.60	1.50
926	DISCCART	580620.90	4197114.50	65.06	239.60	1.50
927	DISCCART	580645.90	4197114.50	65.79	239.60	1.50
928	DISCCART	581120.90	4197014.50	56.88	239.60	1.50
929	DISCCART	580945.90	4197064.50	55.21	239.60	1.50
930	DISCCART	580370.90	4197089.50	73.31	239.60	1.50
931	DISCCART	580845.90	4197089.50	62.32	239.60	1.50
932	DISCCART	580595.90	4197114.50	63.86	239.60	1.50
933	DISCCART	580570.90	4197114.50	63.21	239.60	1.50
934	DISCCART	580670.90	4197114.50	65.99	239.60	1.50
935	DISCCART	581320.90	4196914.50	49.37	239.60	1.50
936	DISCCART	581470.90	4196164.50	80.54	239.60	1.50
937	DISCCART	580070.90	4196814.50	92.58	326.41	1.50
938	DISCCART	580170.90	4196989.50	91.22	239.60	1.50
939	DISCCART	580195.90	4197014.50	87.55	239.60	1.50
940	DISCCART	580545.90	4197114.50	62.90	239.60	1.50
941	DISCCART	580695.90	4197114.50	64.97	239.60	1.50
942	DISCCART	580145.90	4196964.50	93.68	239.60	1.50
943	DISCCART	580270.90	4197064.50	84.38	239.60	1.50
944	DISCCART	581045.90	4197039.50	49.21	239.60	1.50
945	DISCCART	580520.90	4197114.50	63.28	239.60	1.50
946	DISCCART	580895.90	4196189.50	153.09	239.60	1.50
947	DISCCART	580870.90	4196214.50	165.13	239.60	1.50
948	DISCCART	580220.90	4197039.50	87.26	239.60	1.50
949	DISCCART	580970.90	4197064.50	54.21	239.60	1.50
950	DISCCART	580345.90	4197089.50	74.76	239.60	1.50
951	DISCCART	580870.90	4197089.50	60.00	239.60	1.50
952	DISCCART	580720.90	4197114.50	64.62	239.60	1.50
953	DISCCART	581270.90	4196064.50	105.84	239.60	1.50
954	DISCCART	581070.90	4196114.50	132.91	239.60	1.50
955	DISCCART	580095.90	4196889.50	94.28	239.60	1.50
956	DISCCART	580495.90	4197114.50	65.04	239.60	1.50
957	DISCCART	581570.90	4196264.50	66.36	239.60	1.50
958	DISCCART	580345.90	4196464.50	135.69	239.60	1.50
959	DISCCART	580070.90	4196764.50	103.36	239.60	1.50
960	DISCCART	580470.90	4197114.50	66.47	239.60	1.50
961	DISCCART	580920.90	4196164.50	144.64	239.60	1.50
962	DISCCART	580120.90	4196939.50	96.35	239.60	1.50
963	DISCCART	581220.90	4196064.50	113.43	239.60	1.50
964	DISCCART	581320.90	4196064.50	99.11	239.60	1.50
965	DISCCART	581270.90	4196964.50	54.05	239.60	1.50
966	DISCCART	580520.90	4196364.50	140.69	239.60	1.50

967	DISCCART	580070.90	4196839.50	93.18	239.60	1.50
968	DISCCART	580895.90	4197089.50	58.27	239.60	1.50
969	DISCCART	580445.90	4197114.50	68.70	239.60	1.50
970	DISCCART	580745.90	4197114.50	61.24	239.60	1.50
971	DISCCART	580995.90	4197064.50	52.33	239.60	1.50
972	DISCCART	580320.90	4197089.50	76.77	239.60	1.50
973	DISCCART	580295.90	4196489.50	130.68	239.60	1.50
974	DISCCART	580545.90	4196364.50	154.19	239.60	1.50
975	DISCCART	580245.90	4197064.50	85.71	239.60	1.50
976	DISCCART	580770.90	4197114.50	61.72	239.60	1.50
977	DISCCART	581570.90	4196664.50	48.87	239.60	1.50
978	DISCCART	580670.90	4196289.50	152.10	239.60	1.50
979	DISCCART	580420.90	4197114.50	70.25	239.60	1.50
980	DISCCART	581170.90	4197014.50	54.42	239.60	1.50
981	DISCCART	580795.90	4197114.50	62.33	239.60	1.50
982	DISCCART	580720.90	4196264.50	155.34	239.60	1.50
983	DISCCART	580145.90	4196989.50	94.00	239.60	1.50
984	DISCCART	580170.90	4197014.50	88.86	239.60	1.50
985	DISCCART	580920.90	4197089.50	56.35	239.60	1.50
986	DISCCART	580095.90	4196914.50	96.28	239.60	1.50
987	DISCCART	580195.90	4197039.50	87.73	239.60	1.50
988	DISCCART	580395.90	4197114.50	71.35	239.60	1.50
989	DISCCART	580820.90	4197114.50	63.06	239.60	1.50
990	DISCCART	581020.90	4196114.50	136.41	239.60	1.50
991	DISCCART	581370.90	4196914.50	48.30	239.60	1.50
992	DISCCART	580845.90	4196214.50	165.63	239.60	1.50
993	DISCCART	580070.90	4196864.50	93.47	239.60	1.50
994	DISCCART	581020.90	4197064.50	49.18	239.60	1.50
995	DISCCART	580295.90	4197089.50	77.73	239.60	1.50
996	DISCCART	581370.90	4196064.50	92.27	239.60	1.50
997	DISCCART	580120.90	4196964.50	94.80	239.60	1.50
998	DISCCART	581170.90	4196064.50	122.08	239.60	1.50
999	DISCCART	580945.90	4197089.50	54.88	239.60	1.50
1000	DISCCART	580370.90	4197114.50	72.85	239.60	1.50
1001	DISCCART	580220.90	4197064.50	86.42	239.60	1.50
1002	DISCCART	580770.90	4196239.50	160.38	239.60	1.50
1003	DISCCART	580595.90	4196339.50	164.42	239.60	1.50
1004	DISCCART	581045.90	4197064.50	48.35	239.60	1.50
1005	DISCCART	580845.90	4197114.50	59.31	239.60	1.50
1006	DISCCART	580595.90	4197139.50	61.60	239.60	1.50
1007	DISCCART	580620.90	4197139.50	62.02	239.60	1.50
1008	DISCCART	580645.90	4197139.50	63.65	239.60	1.50
1009	DISCCART	580620.90	4196314.50	154.20	239.60	1.50
1010	DISCCART	580570.90	4197139.50	62.21	239.60	1.50
1011	DISCCART	580670.90	4197139.50	63.99	239.60	1.50
1012	DISCCART	580070.90	4196739.50	106.75	239.60	1.50
1013	DISCCART	580270.90	4197089.50	79.05	239.60	1.50
1014	DISCCART	580970.90	4197089.50	53.88	239.60	1.50
1015	DISCCART	580545.90	4197139.50	62.29	239.60	1.50
1016	DISCCART	580695.90	4197139.50	63.98	239.60	1.50
1017	DISCCART	580520.90	4197139.50	63.20	239.60	1.50
1018	DISCCART	581320.90	4196964.50	47.23	239.60	1.50
1019	DISCCART	581220.90	4197014.50	51.24	239.60	1.50
1020	DISCCART	581670.90	4196464.50	50.65	239.60	1.50
1021	DISCCART	580870.90	4196189.50	160.48	239.60	1.50
1022	DISCCART	580420.90	4196414.50	141.61	239.60	1.50
1023	DISCCART	580395.90	4196439.50	149.83	239.60	1.50
1024	DISCCART	580070.90	4196889.50	95.17	239.60	1.50
1025	DISCCART	580095.90	4196939.50	97.03	239.60	1.50
1026	DISCCART	580345.90	4197114.50	72.77	239.60	1.50
1027	DISCCART	580870.90	4197114.50	58.67	239.60	1.50
1028	DISCCART	580495.90	4197139.50	65.79	239.60	1.50
1029	DISCCART	581670.90	4196364.50	54.87	239.60	1.50
1030	DISCCART	580320.90	4196464.50	133.85	239.60	1.50
1031	DISCCART	580895.90	4196164.50	150.37	239.60	1.50
1032	DISCCART	580470.90	4197139.50	68.26	239.60	1.50
1033	DISCCART	581270.90	4196014.50	103.96	239.60	1.50
1034	DISCCART	581070.90	4197064.50	48.40	239.60	1.50
1035	DISCCART	581570.90	4196164.50	69.11	239.60	1.50

1036	DISCCART	580145.90	4197014.50	90.20	239.60	1.50
1037	DISCCART	580720.90	4197139.50	61.01	239.60	1.50
1038	DISCCART	581470.90	4196864.50	46.94	239.60	1.50
1039	DISCCART	580170.90	4197039.50	87.63	239.60	1.50
1040	DISCCART	580995.90	4197089.50	52.36	239.60	1.50
1041	DISCCART	580895.90	4197114.50	57.85	239.60	1.50
1042	DISCCART	580445.90	4197139.50	70.44	239.60	1.50
1043	DISCCART	580970.90	4196114.50	137.11	239.60	1.50
1044	DISCCART	580120.90	4196989.50	93.55	239.60	1.50
1045	DISCCART	580245.90	4197089.50	81.04	239.60	1.50
1046	DISCCART	580745.90	4197139.50	59.94	239.60	1.50
1047	DISCCART	580195.90	4197064.50	86.42	239.60	1.50
1048	DISCCART	580320.90	4197114.50	73.80	239.60	1.50
1049	DISCCART	580420.90	4197139.50	71.62	239.60	1.50
1050	DISCCART	581570.90	4196764.50	48.78	239.60	1.50
1051	DISCCART	580045.90	4196814.50	99.18	239.60	1.50
1052	DISCCART	580045.90	4196839.50	94.33	326.32	1.50
1053	DISCCART	580770.90	4197139.50	60.20	239.60	1.50
1054	DISCCART	581470.90	4196064.50	87.37	239.60	1.50
1055	DISCCART	581670.90	4196564.50	47.07	239.60	1.50
1056	DISCCART	580820.90	4196214.50	167.18	239.60	1.50
1057	DISCCART	580695.90	4196264.50	154.65	239.60	1.50
1058	DISCCART	581320.90	4196014.50	98.42	239.60	1.50
1059	DISCCART	581120.90	4196064.50	130.81	239.60	1.50
1060	DISCCART	580245.90	4196539.50	138.94	239.60	1.50
1061	DISCCART	580920.90	4197114.50	56.42	239.60	1.50
1062	DISCCART	580795.90	4197139.50	61.17	239.60	1.50
1063	DISCCART	580070.90	4196914.50	97.90	239.60	1.50
1064	DISCCART	580095.90	4196964.50	96.08	239.60	1.50
1065	DISCCART	581020.90	4197089.50	49.88	239.60	1.50
1066	DISCCART	580395.90	4197139.50	71.96	239.60	1.50
1067	DISCCART	581220.90	4196014.50	114.04	239.60	1.50
1068	DISCCART	581670.90	4196264.50	58.26	239.60	1.50
1069	DISCCART	580070.90	4196714.50	108.10	239.60	1.50
1070	DISCCART	580295.90	4197114.50	75.51	239.60	1.50
1071	DISCCART	581120.90	4197064.50	48.48	239.60	1.50
1072	DISCCART	580220.90	4197089.50	83.90	239.60	1.50
1073	DISCCART	580820.90	4197139.50	60.81	239.60	1.50
1074	DISCCART	580045.90	4196864.50	94.23	322.69	1.50
1075	DISCCART	580945.90	4197114.50	53.98	239.60	1.50
1076	DISCCART	581370.90	4196014.50	94.05	239.60	1.50
1077	DISCCART	581370.90	4196964.50	47.48	239.60	1.50
1078	DISCCART	581270.90	4197014.50	48.87	239.60	1.50
1079	DISCCART	581045.90	4197089.50	48.27	239.60	1.50
1080	DISCCART	580370.90	4197139.50	72.32	239.60	1.50
1081	DISCCART	580745.90	4196239.50	161.37	239.60	1.50
1082	DISCCART	580120.90	4197014.50	91.63	239.60	1.50
1083	DISCCART	580145.90	4197039.50	88.10	239.60	1.50
1084	DISCCART	580095.90	4196614.50	112.01	239.60	1.50
1085	DISCCART	580270.90	4197114.50	77.25	239.60	1.50
1086	DISCCART	580845.90	4197139.50	58.86	239.60	1.50
1087	DISCCART	580070.90	4196939.50	98.04	239.60	1.50
1088	DISCCART	580170.90	4197064.50	85.94	239.60	1.50
1089	DISCCART	580970.90	4197114.50	53.23	239.60	1.50
1090	DISCCART	580570.90	4197164.50	61.03	239.60	1.50
1091	DISCCART	580845.90	4196189.50	163.90	239.60	1.50
1092	DISCCART	580795.90	4196214.50	164.08	239.60	1.50
1093	DISCCART	580645.90	4196289.50	156.69	239.60	1.50
1094	DISCCART	580470.90	4196364.50	135.66	239.60	1.50
1095	DISCCART	580095.90	4196989.50	95.22	239.60	1.50
1096	DISCCART	580345.90	4197139.50	72.58	239.60	1.50
1097	DISCCART	580520.90	4197164.50	64.86	239.60	1.50
1098	DISCCART	580620.90	4197164.50	59.89	239.60	1.50
1099	DISCCART	580670.90	4197164.50	62.20	239.60	1.50
1100	DISCCART	580270.90	4196514.50	142.94	239.60	1.50
1101	DISCCART	580520.90	4196339.50	138.63	239.60	1.50
1102	DISCCART	580570.90	4196339.50	162.45	239.60	1.50
1103	DISCCART	580445.90	4196389.50	142.03	239.60	1.50
1104	DISCCART	580870.90	4197139.50	58.01	239.60	1.50

1105	DISCCART	581670.90	4196664.50	46.97	239.60	1.50
1106	DISCCART	580870.90	4196164.50	155.43	239.60	1.50
1107	DISCCART	580495.90	4196339.50	131.54	239.60	1.50
1108	DISCCART	580045.90	4196889.50	97.21	239.60	1.50
1109	DISCCART	581170.90	4196014.50	120.50	239.60	1.50
1110	DISCCART	580470.90	4197164.50	68.90	239.60	1.50
1111	DISCCART	580070.90	4196689.50	109.11	239.60	1.50
1112	DISCCART	580195.90	4197089.50	83.78	239.60	1.50
1113	DISCCART	580245.90	4197114.50	79.69	239.60	1.50
1114	DISCCART	580995.90	4197114.50	52.61	239.60	1.50
1115	DISCCART	581170.90	4197064.50	47.59	239.60	1.50
1116	DISCCART	580045.90	4196789.50	106.43	239.60	1.50
1117	DISCCART	580320.90	4197139.50	73.20	239.60	1.50
1118	DISCCART	580895.90	4197139.50	57.32	239.60	1.50
1119	DISCCART	580720.90	4197164.50	59.23	239.60	1.50
1120	DISCCART	581270.90	4195964.50	102.64	239.60	1.50
1121	DISCCART	581070.90	4196064.50	137.67	239.60	1.50
1122	DISCCART	580545.90	4196339.50	151.47	239.60	1.50
1123	DISCCART	580070.90	4196964.50	96.78	239.60	1.50
1124	DISCCART	581320.90	4197014.50	45.89	239.60	1.50
1125	DISCCART	580420.90	4197164.50	71.14	239.60	1.50
1126	DISCCART	580295.90	4196464.50	134.04	239.60	1.50
1127	DISCCART	580070.90	4196639.50	109.34	239.60	1.50
1128	DISCCART	580120.90	4197039.50	90.13	239.60	1.50
1129	DISCCART	580920.90	4197139.50	55.77	239.60	1.50
1130	DISCCART	580770.90	4197164.50	59.08	239.60	1.50
1131	DISCCART	581570.90	4196064.50	75.49	239.60	1.50
1132	DISCCART	581670.90	4196164.50	61.64	239.60	1.50
1133	DISCCART	580070.90	4196664.50	109.52	239.60	1.50
1134	DISCCART	580145.90	4197064.50	88.20	239.60	1.50
1135	DISCCART	580220.90	4197114.50	82.23	239.60	1.50
1136	DISCCART	581020.90	4197114.50	49.71	239.60	1.50
1137	DISCCART	580295.90	4197139.50	74.61	239.60	1.50
1138	DISCCART	580920.90	4196114.50	141.44	239.60	1.50
1139	DISCCART	580045.90	4196914.50	99.76	239.60	1.50
1140	DISCCART	580095.90	4197014.50	95.97	239.60	1.50
1141	DISCCART	581220.90	4195964.50	109.86	239.60	1.50
1142	DISCCART	581770.90	4196364.50	53.63	239.60	1.50
1143	DISCCART	581770.90	4196464.50	51.38	239.60	1.50
1144	DISCCART	580370.90	4196439.50	152.00	239.60	1.50
1145	DISCCART	580020.90	4196839.50	97.88	239.60	1.50
1146	DISCCART	580170.90	4197089.50	84.66	239.60	1.50
1147	DISCCART	581045.90	4197114.50	48.36	239.60	1.50
1148	DISCCART	580945.90	4197139.50	53.84	239.60	1.50
1149	DISCCART	581320.90	4195964.50	98.04	239.60	1.50
1150	DISCCART	580820.90	4197164.50	59.24	239.60	1.50
1151	DISCCART	580270.90	4197139.50	76.65	434.73	1.50
1152	DISCCART	581220.90	4197064.50	45.25	239.60	1.50
1153	DISCCART	580370.90	4197164.50	71.97	239.60	1.50
1154	DISCCART	581570.90	4196864.50	47.03	239.60	1.50
1155	DISCCART	580820.90	4196189.50	164.62	239.60	1.50
1156	DISCCART	580770.90	4196214.50	163.25	239.60	1.50
1157	DISCCART	580070.90	4196989.50	97.01	239.60	1.50
1158	DISCCART	580345.90	4196439.50	141.93	239.60	1.50
1159	DISCCART	580045.90	4196939.50	99.43	239.60	1.50
1160	DISCCART	581370.90	4195964.50	95.26	239.60	1.50
1161	DISCCART	581120.90	4196014.50	126.49	239.60	1.50
1162	DISCCART	580845.90	4196164.50	157.08	239.60	1.50
1163	DISCCART	580020.90	4196864.50	98.16	239.60	1.50
1164	DISCCART	580195.90	4197114.50	82.64	239.60	1.50
1165	DISCCART	580970.90	4197139.50	52.49	239.60	1.50
1166	DISCCART	581070.90	4197114.50	46.96	239.60	1.50
1167	DISCCART	581770.90	4196564.50	47.48	239.60	1.50
1168	DISCCART	580720.90	4196239.50	163.06	239.60	1.50
1169	DISCCART	580245.90	4197139.50	79.06	239.60	1.50
1170	DISCCART	581370.90	4197014.50	46.30	239.60	1.50
1171	DISCCART	580870.90	4197164.50	57.59	239.60	1.50
1172	DISCCART	581770.90	4196264.50	53.89	239.60	1.50
1173	DISCCART	581670.90	4196764.50	45.36	239.60	1.50

1174	DISCCART	580595.90	4196314.50	163.69	239.60	1.50
1175	DISCCART	580095.90	4197039.50	93.82	239.60	1.50
1176	DISCCART	580120.90	4197064.50	89.60	239.60	1.50
1177	DISCCART	581470.90	4196964.50	46.67	239.60	1.50
1178	DISCCART	580220.90	4196539.50	139.44	239.60	1.50
1179	DISCCART	580670.90	4196264.50	160.50	239.60	1.50
1180	DISCCART	580145.90	4197089.50	87.33	239.60	1.50
1181	DISCCART	580995.90	4197139.50	51.89	239.60	1.50
1182	DISCCART	580045.90	4196764.50	110.74	239.60	1.50
1183	DISCCART	580320.90	4197164.50	72.72	434.73	1.50
1184	DISCCART	580020.90	4196889.50	99.20	239.60	1.50
1185	DISCCART	580045.90	4196964.50	98.43	239.60	1.50
1186	DISCCART	580070.90	4197014.50	97.57	239.60	1.50
1187	DISCCART	580170.90	4197114.50	87.17	239.60	1.50
1188	DISCCART	581270.90	4197064.50	44.18	239.60	1.50
1189	DISCCART	580020.90	4196814.50	104.62	239.60	1.50
1190	DISCCART	580220.90	4197139.50	80.46	434.73	1.50
1191	DISCCART	581020.90	4197139.50	50.12	239.60	1.50
1192	DISCCART	580270.90	4196489.50	141.07	239.60	1.50
1193	DISCCART	580620.90	4196289.50	158.60	239.60	1.50
1194	DISCCART	581120.90	4197114.50	46.71	239.60	1.50
1195	DISCCART	580920.90	4197164.50	55.01	239.60	1.50
1196	DISCCART	581470.90	4195964.50	86.71	239.60	1.50
1197	DISCCART	580395.90	4196414.50	151.34	239.60	1.50
1198	DISCCART	581270.90	4195914.50	99.72	239.60	1.50
1199	DISCCART	581170.90	4195964.50	118.19	239.60	1.50
1200	DISCCART	580195.90	4196564.50	141.82	239.60	1.50
1201	DISCCART	580795.90	4196189.50	163.49	239.60	1.50
1202	DISCCART	580270.90	4197164.50	77.31	434.73	1.50
1203	DISCCART	580045.90	4196989.50	98.76	239.60	1.50
1204	DISCCART	580095.90	4197064.50	91.39	239.60	1.50
1205	DISCCART	580120.90	4197089.50	89.70	239.60	1.50
1206	DISCCART	581045.90	4197139.50	48.52	239.60	1.50
1207	DISCCART	581220.90	4195914.50	106.41	239.60	1.50
1208	DISCCART	581670.90	4196064.50	63.68	239.60	1.50
1209	DISCCART	581770.90	4196664.50	46.05	239.60	1.50
1210	DISCCART	580745.90	4196214.50	162.87	239.60	1.50
1211	DISCCART	580020.90	4196914.50	101.91	239.60	1.50
1212	DISCCART	580195.90	4197139.50	82.07	434.73	1.50
1213	DISCCART	581070.90	4196014.50	130.89	239.60	1.50
1214	DISCCART	580970.90	4196064.50	138.15	239.60	1.50
1215	DISCCART	581020.90	4196064.50	147.51	239.60	1.50
1216	DISCCART	581770.90	4196164.50	55.14	239.60	1.50
1217	DISCCART	580820.90	4196164.50	157.28	239.60	1.50
1218	DISCCART	580070.90	4197039.50	95.51	239.60	1.50
1219	DISCCART	580145.90	4197114.50	88.10	239.60	1.50
1220	DISCCART	581320.90	4195914.50	94.27	239.60	1.50
1221	DISCCART	581320.90	4197064.50	44.15	239.60	1.50
1222	DISCCART	580970.90	4197164.50	52.36	239.60	1.50
1223	DISCCART	580520.90	4196314.50	137.63	239.60	1.50
1224	DISCCART	580020.90	4196939.50	100.92	239.60	1.50
1225	DISCCART	581170.90	4197114.50	45.80	239.60	1.50
1226	DISCCART	580520.90	4197214.50	66.18	239.60	1.50
1227	DISCCART	580570.90	4197214.50	62.36	239.60	1.50
1228	DISCCART	580620.90	4197214.50	61.46	239.60	1.50
1229	DISCCART	580045.90	4197014.50	99.30	239.60	1.50
1230	DISCCART	580870.90	4196114.50	143.40	239.60	1.50
1231	DISCCART	580470.90	4197214.50	71.17	239.60	1.50
1232	DISCCART	580695.90	4196239.50	163.24	239.60	1.50
1233	DISCCART	580420.90	4196389.50	148.62	239.60	1.50
1234	DISCCART	580170.90	4197139.50	85.38	434.73	1.50
1235	DISCCART	581370.90	4195914.50	89.18	239.60	1.50
1236	DISCCART	580670.90	4197214.50	59.91	239.60	1.50
1237	DISCCART	581870.90	4196364.50	49.62	239.60	1.50
1238	DISCCART	581870.90	4196464.50	49.93	239.60	1.50
1239	DISCCART	580245.90	4196514.50	148.17	239.60	1.50
1240	DISCCART	580570.90	4196314.50	160.61	239.60	1.50
1241	DISCCART	580045.90	4196739.50	113.21	239.60	1.50
1242	DISCCART	580020.90	4196964.50	100.59	239.60	1.50

05 - AERMOD INPUT - RECEPTOR FILE - EBMUD_WALNUT_CREEK_RESIDENTIAL

1243	DISCCART	580220.90	4197164.50	79.68	434.73	1.50
1244	DISCCART	580095.90	4197089.50	91.04	239.60	1.50
1245	DISCCART	581020.90	4197164.50	50.12	239.60	1.50
1246	DISCCART	580420.90	4197214.50	74.13	239.60	1.50
1247	DISCCART	580720.90	4197214.50	57.65	239.60	1.50
1248	DISCCART	581570.90	4195964.50	72.41	239.60	1.50
1249	DISCCART	580545.90	4196314.50	149.15	239.60	1.50
1250	DISCCART	580320.90	4196439.50	143.53	239.60	1.50
1251	DISCCART	580070.90	4197064.50	91.52	239.60	1.50
1252	DISCCART	580120.90	4197114.50	89.07	239.60	1.50
1253	DISCCART	581120.90	4195964.50	122.64	239.60	1.50
1254	DISCCART	581670.90	4196864.50	44.93	239.60	1.50
1255	DISCCART	581370.90	4197064.50	45.02	239.60	1.50
1256	DISCCART	581220.90	4197114.50	43.61	239.60	1.50
1257	DISCCART	580770.90	4197214.50	57.91	239.60	1.50
1258	DISCCART	581870.90	4196264.50	49.66	239.60	1.50
1259	DISCCART	580270.90	4196464.50	139.23	239.60	1.50
1260	DISCCART	580770.90	4196189.50	163.40	239.60	1.50
1261	DISCCART	579995.90	4196839.50	103.02	239.60	1.50
1262	DISCCART	580020.90	4196989.50	100.13	239.60	1.50
1263	DISCCART	580045.90	4197039.50	93.92	239.60	1.50
1264	DISCCART	580145.90	4197139.50	89.00	239.60	1.50
1265	DISCCART	580370.90	4197214.50	75.17	239.60	1.50
1266	DISCCART	581870.90	4196564.50	49.00	239.60	1.50
1267	DISCCART	580645.90	4196264.50	162.68	239.60	1.50
1268	DISCCART	581170.90	4195914.50	114.11	239.60	1.50
1269	DISCCART	580920.90	4196064.50	135.70	239.60	1.50
1270	DISCCART	581570.90	4196964.50	42.75	239.60	1.50
1271	DISCCART	580795.90	4196164.50	157.31	239.60	1.50
1272	DISCCART	579995.90	4196864.50	104.00	239.60	1.50
1273	DISCCART	580820.90	4197214.50	58.53	239.60	1.50
1274	DISCCART	581770.90	4196764.50	42.49	239.60	1.50
1275	DISCCART	580720.90	4196214.50	162.65	239.60	1.50
1276	DISCCART	579995.90	4196889.50	103.75	239.60	1.50
1277	DISCCART	581070.90	4197164.50	49.11	239.60	1.50
1278	DISCCART	581770.90	4196064.50	58.33	239.60	1.50
1279	DISCCART	580020.90	4197014.50	99.94	239.60	1.50
1280	DISCCART	581270.90	4195864.50	101.98	239.60	1.50
1281	DISCCART	581020.90	4196014.50	134.57	239.60	1.50
1282	DISCCART	579995.90	4196914.50	103.27	239.60	1.50
1283	DISCCART	580070.90	4197089.50	90.29	434.73	1.50
1284	DISCCART	580095.90	4197114.50	89.10	434.73	1.50
1285	DISCCART	581270.90	4197114.50	43.47	239.60	1.50
1286	DISCCART	580170.90	4197164.50	82.10	434.73	1.50
1287	DISCCART	580320.90	4197214.50	75.88	239.60	1.50
1288	DISCCART	580870.90	4197214.50	57.17	239.60	1.50
1289	DISCCART	580070.90	4196614.50	117.69	239.60	1.50
1290	DISCCART	579995.90	4196939.50	102.25	239.60	1.50
1291	DISCCART	580045.90	4197064.50	91.71	434.73	1.50
1292	DISCCART	580120.90	4197139.50	88.90	434.73	1.50
1293	DISCCART	581870.90	4196164.50	57.51	239.60	1.50
1294	DISCCART	580470.90	4196339.50	142.22	239.60	1.50
1295	DISCCART	581070.90	4195964.50	124.77	239.60	1.50
1296	DISCCART	580495.90	4196314.50	138.20	239.60	1.50
1297	DISCCART	580445.90	4196364.50	149.57	239.60	1.50
1298	DISCCART	579995.90	4196964.50	100.73	239.60	1.50
1299	DISCCART	581320.90	4195864.50	95.65	239.60	1.50
1300	DISCCART	581120.90	4197164.50	45.87	239.60	1.50
1301	DISCCART	581670.90	4195964.50	65.48	239.60	1.50
1302	DISCCART	580595.90	4196289.50	163.22	239.60	1.50
1303	DISCCART	580370.90	4196414.50	155.97	239.60	1.50
1304	DISCCART	580020.90	4197039.50	93.44	434.73	1.50
1305	DISCCART	581370.90	4195864.50	91.26	239.60	1.50
1306	DISCCART	580270.90	4197214.50	78.27	434.73	1.50
1307	DISCCART	580920.90	4197214.50	54.64	239.60	1.50
1308	DISCCART	581870.90	4196664.50	47.82	239.60	1.50
1309	DISCCART	580670.90	4196239.50	163.36	239.60	1.50
1310	DISCCART	579995.90	4196989.50	100.47	239.60	1.50
1311	DISCCART	580345.90	4196414.50	147.54	239.60	1.50

1312	DISCCART	580045.90	4196639.50	114.54	239.60	1.50
1313	DISCCART	580020.90	4196789.50	114.84	239.60	1.50
1314	DISCCART	580070.90	4197114.50	89.73	434.73	1.50
1315	DISCCART	581320.90	4197114.50	42.55	239.60	1.50
1316	DISCCART	580745.90	4196189.50	163.24	239.60	1.50
1317	DISCCART	580045.90	4196664.50	115.09	239.60	1.50
1318	DISCCART	580045.90	4197089.50	91.15	434.73	1.50
1319	DISCCART	580095.90	4197139.50	89.27	434.73	1.50
1320	DISCCART	581220.90	4195864.50	111.06	239.60	1.50
1321	DISCCART	580620.90	4197264.50	71.67	239.60	1.50
1322	DISCCART	581970.90	4196364.50	51.62	239.60	1.50
1323	DISCCART	581470.90	4197064.50	45.22	239.60	1.50
1324	DISCCART	580195.90	4196539.50	147.55	239.60	1.50
1325	DISCCART	580045.90	4196714.50	117.37	239.60	1.50
1326	DISCCART	580970.90	4196014.50	132.74	239.60	1.50
1327	DISCCART	581170.90	4197164.50	44.42	239.60	1.50
1328	DISCCART	580970.90	4197214.50	53.02	239.60	1.50
1329	DISCCART	580520.90	4197264.50	73.92	239.60	1.50
1330	DISCCART	580570.90	4197264.50	68.32	239.60	1.50
1331	DISCCART	581970.90	4196464.50	49.69	239.60	1.50
1332	DISCCART	580245.90	4196489.50	149.08	239.60	1.50
1333	DISCCART	580220.90	4196514.50	149.71	239.60	1.50
1334	DISCCART	580770.90	4196164.50	158.05	239.60	1.50
1335	DISCCART	580295.90	4196439.50	145.17	239.60	1.50
1336	DISCCART	579995.90	4197014.50	100.49	239.60	1.50
1337	DISCCART	580020.90	4197064.50	92.29	434.73	1.50
1338	DISCCART	580470.90	4197264.50	78.70	239.60	1.50
1339	DISCCART	581470.90	4195864.50	82.87	239.60	1.50
1340	DISCCART	580045.90	4196614.50	115.83	239.60	1.50
1341	DISCCART	579995.90	4196814.50	110.52	239.60	1.50
1342	DISCCART	580820.90	4196114.50	145.06	239.60	1.50
1343	DISCCART	580120.90	4197164.50	83.52	434.73	1.50
1344	DISCCART	580220.90	4197214.50	77.89	434.73	1.50
1345	DISCCART	581870.90	4196064.50	62.94	239.60	1.50
1346	DISCCART	581970.90	4196264.50	48.19	239.60	1.50
1347	DISCCART	581770.90	4196864.50	40.94	239.60	1.50
1348	DISCCART	580695.90	4196214.50	162.65	239.60	1.50
1349	DISCCART	580620.90	4196264.50	162.74	239.60	1.50
1350	DISCCART	580395.90	4196389.50	154.27	239.60	1.50
1351	DISCCART	579970.90	4196939.50	101.75	239.60	1.50
1352	DISCCART	581370.90	4197114.50	42.79	239.60	1.50
1353	DISCCART	580670.90	4197264.50	64.64	239.60	1.50
1354	DISCCART	581670.90	4196964.50	43.97	239.60	1.50
1355	DISCCART	580270.90	4196439.50	141.00	239.60	1.50
1356	DISCCART	579970.90	4196889.50	104.97	239.60	1.50
1357	DISCCART	579970.90	4196964.50	100.13	239.60	1.50
1358	DISCCART	579995.90	4197039.50	96.81	239.60	1.50
1359	DISCCART	580045.90	4197114.50	90.96	434.73	1.50
1360	DISCCART	581120.90	4195914.50	121.17	239.60	1.50
1361	DISCCART	581020.90	4197214.50	51.64	239.60	1.50
1362	DISCCART	580420.90	4197264.50	78.18	239.60	1.50
1363	DISCCART	581970.90	4196564.50	48.14	239.60	1.50
1364	DISCCART	580520.90	4196289.50	139.41	239.60	1.50
1365	DISCCART	579970.90	4196839.50	105.71	239.60	1.50
1366	DISCCART	579970.90	4196864.50	105.91	239.60	1.50
1367	DISCCART	579970.90	4196914.50	104.90	239.60	1.50
1368	DISCCART	580020.90	4197089.50	92.02	434.73	1.50
1369	DISCCART	580070.90	4197139.50	87.81	434.73	1.50
1370	DISCCART	581020.90	4195964.50	125.87	239.60	1.50
1371	DISCCART	581220.90	4197164.50	43.47	239.60	1.50
1372	DISCCART	580720.90	4197264.50	59.72	239.60	1.50
1373	DISCCART	581770.90	4195964.50	58.57	239.60	1.50
1374	DISCCART	581870.90	4196764.50	46.79	239.60	1.50
1375	DISCCART	580070.90	4196589.50	121.67	239.60	1.50
1376	DISCCART	580370.90	4197264.50	80.04	239.60	1.50
1377	DISCCART	579970.90	4196989.50	99.97	239.60	1.50
1378	DISCCART	581570.90	4195864.50	74.23	239.60	1.50
1379	DISCCART	581970.90	4196164.50	50.35	239.60	1.50
1380	DISCCART	580570.90	4196289.50	160.48	239.60	1.50

1381	DISCCART	580045.90	4196689.50	119.15	239.60	1.50
1382	DISCCART	579995.90	4197064.50	96.14	434.73	1.50
1383	DISCCART	581070.90	4197214.50	50.60	239.60	1.50
1384	DISCCART	580770.90	4197264.50	54.45	239.60	1.50
1385	DISCCART	580645.90	4196239.50	161.94	239.60	1.50
1386	DISCCART	580545.90	4196289.50	150.37	239.60	1.50
1387	DISCCART	579970.90	4197014.50	100.02	239.60	1.50
1388	DISCCART	580870.90	4196064.50	139.36	239.60	1.50
1389	DISCCART	581270.90	4197164.50	42.81	239.60	1.50
1390	DISCCART	580170.90	4197214.50	78.87	434.73	1.50
1391	DISCCART	580320.90	4197264.50	80.30	239.60	1.50
1392	DISCCART	580720.90	4196189.50	163.06	239.60	1.50
1393	DISCCART	580020.90	4197114.50	91.41	434.73	1.50
1394	DISCCART	580045.90	4197139.50	88.79	434.73	1.50
1395	DISCCART	580070.90	4197164.50	87.98	434.73	1.50
1396	DISCCART	580820.90	4197264.50	54.53	239.60	1.50
1397	DISCCART	580745.90	4196164.50	158.26	239.60	1.50
1398	DISCCART	581170.90	4195864.50	117.46	239.60	1.50
1399	DISCCART	580870.90	4197264.50	55.83	239.60	1.50
1400	DISCCART	581570.90	4197064.50	42.36	239.60	1.50
1401	DISCCART	580020.90	4196764.50	119.67	239.60	1.50
1402	DISCCART	579970.90	4197039.50	98.38	434.73	1.50
1403	DISCCART	579995.90	4197089.50	95.29	434.73	1.50
1404	DISCCART	581970.90	4196664.50	43.55	239.60	1.50
1405	DISCCART	580320.90	4196414.50	150.83	239.60	1.50
1406	DISCCART	579945.90	4196939.50	101.74	239.60	1.50
1407	DISCCART	579945.90	4196964.50	99.55	239.60	1.50
1408	DISCCART	580920.90	4196014.50	133.12	239.60	1.50
1409	DISCCART	581120.90	4197214.50	46.82	239.60	1.50
1410	DISCCART	580270.90	4197264.50	78.97	434.73	1.50
1411	DISCCART	581670.90	4195864.50	66.02	239.60	1.50
1412	DISCCART	581870.90	4195964.50	63.56	239.60	1.50
1413	DISCCART	582070.90	4196364.50	45.24	198.92	1.50
1414	DISCCART	580245.90	4196464.50	149.54	239.60	1.50
1415	DISCCART	581320.90	4197164.50	41.86	239.60	1.50
1416	DISCCART	580920.90	4197264.50	54.23	239.60	1.50
1417	DISCCART	581970.90	4196064.50	52.89	239.60	1.50
1418	DISCCART	582070.90	4196264.50	50.95	198.92	1.50
1419	DISCCART	580670.90	4196214.50	163.06	239.60	1.50
1420	DISCCART	580045.90	4196589.50	120.21	239.60	1.50
1421	DISCCART	579970.90	4196814.50	110.53	239.60	1.50
1422	DISCCART	579945.90	4196989.50	99.24	239.60	1.50
1423	DISCCART	579970.90	4197064.50	96.71	434.73	1.50
1424	DISCCART	580020.90	4197139.50	89.76	434.73	1.50
1425	DISCCART	580120.90	4197214.50	80.97	434.73	1.50
1426	DISCCART	582070.90	4196464.50	43.06	239.60	1.50
1427	DISCCART	580595.90	4196264.50	162.28	239.60	1.50
1428	DISCCART	579995.90	4197114.50	94.94	434.73	1.50
1429	DISCCART	581070.90	4195914.50	125.38	239.60	1.50
1430	DISCCART	580620.90	4197314.50	76.86	239.60	1.50
1431	DISCCART	580670.90	4197314.50	84.63	239.60	1.50
1432	DISCCART	581870.90	4196864.50	45.57	239.60	1.50
1433	DISCCART	580420.90	4196364.50	158.21	239.60	1.50
1434	DISCCART	579945.90	4196914.50	106.30	239.60	1.50
1435	DISCCART	579945.90	4197014.50	99.80	239.60	1.50
1436	DISCCART	580970.90	4195964.50	127.27	239.60	1.50
1437	DISCCART	581170.90	4197214.50	43.63	239.60	1.50
1438	DISCCART	580520.90	4197314.50	78.36	239.60	1.50
1439	DISCCART	580570.90	4197314.50	74.28	239.60	1.50
1440	DISCCART	581770.90	4196964.50	39.14	239.60	1.50
1441	DISCCART	579945.90	4196889.50	106.52	239.60	1.50
1442	DISCCART	580970.90	4197264.50	51.99	239.60	1.50
1443	DISCCART	580220.90	4197264.50	76.98	434.73	1.50
1444	DISCCART	580170.90	4196539.50	151.99	239.60	1.50
1445	DISCCART	581370.90	4197164.50	40.92	239.60	1.50
1446	DISCCART	580495.90	4196289.50	140.75	239.60	1.50
1447	DISCCART	580470.90	4197314.50	79.58	239.60	1.50
1448	DISCCART	579945.90	4196864.50	107.22	239.60	1.50
1449	DISCCART	579970.90	4197089.50	96.23	434.73	1.50

1450	DISCCART	580095.90	4196539.50	130.34	239.60	1.50
1451	DISCCART	582070.90	4196164.50	48.96	198.92	1.50
1452	DISCCART	582070.90	4196564.50	44.21	44.21	1.50
1453	DISCCART	579945.90	4196839.50	106.96	239.60	1.50
1454	DISCCART	581770.90	4195864.50	64.56	239.60	1.50
1455	DISCCART	580195.90	4196514.50	155.18	239.60	1.50
1456	DISCCART	579995.90	4196789.50	118.26	239.60	1.50
1457	DISCCART	581970.90	4196764.50	42.41	239.60	1.50
1458	DISCCART	580220.90	4196489.50	155.72	239.60	1.50
1459	DISCCART	579945.90	4197039.50	98.19	434.73	1.50
1460	DISCCART	580020.90	4197164.50	90.12	434.73	1.50
1461	DISCCART	580370.90	4196389.50	160.78	239.60	1.50
1462	DISCCART	580695.90	4196189.50	162.54	239.60	1.50
1463	DISCCART	579995.90	4197139.50	94.77	434.73	1.50
1464	DISCCART	581370.90	4195764.50	92.15	239.60	1.50
1465	DISCCART	580720.90	4197314.50	68.90	239.60	1.50
1466	DISCCART	581020.90	4197264.50	50.60	239.60	1.50
1467	DISCCART	581220.90	4197214.50	42.60	239.60	1.50
1468	DISCCART	580470.90	4196314.50	147.57	239.60	1.50
1469	DISCCART	580420.90	4197314.50	77.13	239.60	1.50
1470	DISCCART	580620.90	4196239.50	162.52	239.60	1.50
1471	DISCCART	580070.90	4197214.50	88.30	434.73	1.50
1472	DISCCART	579920.90	4196939.50	100.82	326.41	1.50
1473	DISCCART	579920.90	4196964.50	99.17	434.73	1.50
1474	DISCCART	581270.90	4195764.50	107.94	239.60	1.50
1475	DISCCART	581670.90	4197064.50	39.08	239.60	1.50
1476	DISCCART	579970.90	4197114.50	96.60	434.73	1.50
1477	DISCCART	580070.90	4196539.50	127.15	239.60	1.50
1478	DISCCART	579945.90	4197064.50	97.31	434.73	1.50
1479	DISCCART	581470.90	4195764.50	80.77	239.60	1.50
1480	DISCCART	580345.90	4196389.50	153.79	239.60	1.50
1481	DISCCART	580720.90	4196164.50	159.57	239.60	1.50
1482	DISCCART	580145.90	4196539.50	145.78	239.60	1.50
1483	DISCCART	580170.90	4197264.50	77.62	434.73	1.50
1484	DISCCART	580570.90	4196264.50	157.17	239.60	1.50
1485	DISCCART	580445.90	4196339.50	155.77	239.60	1.50
1486	DISCCART	580370.90	4197314.50	78.44	239.60	1.50
1487	DISCCART	579920.90	4196989.50	98.64	434.73	1.50
1488	DISCCART	581970.90	4195964.50	49.88	239.60	1.50
1489	DISCCART	581070.90	4197264.50	49.67	239.60	1.50
1490	DISCCART	580770.90	4196114.50	149.57	239.60	1.50
1491	DISCCART	581270.90	4197214.50	42.53	239.60	1.50
1492	DISCCART	579945.90	4196814.50	109.32	239.60	1.50
1493	DISCCART	580020.90	4196739.50	123.95	239.60	1.50
1494	DISCCART	579920.90	4197014.50	99.07	434.73	1.50
1495	DISCCART	579945.90	4197089.50	99.54	434.73	1.50
1496	DISCCART	580770.90	4197314.50	56.36	239.60	1.50
1497	DISCCART	582070.90	4196064.50	49.50	198.92	1.50
1498	DISCCART	582070.90	4196664.50	41.63	42.68	1.50
1499	DISCCART	580320.90	4197314.50	80.20	239.60	1.50
1500	DISCCART	580120.90	4196539.50	139.63	239.60	1.50
1501	DISCCART	580270.90	4196414.50	147.47	239.60	1.50
1502	DISCCART	580295.90	4196414.50	154.03	239.60	1.50
1503	DISCCART	580645.90	4196214.50	161.62	239.60	1.50
1504	DISCCART	581570.90	4195764.50	76.89	239.60	1.50
1505	DISCCART	582170.90	4196364.50	45.12	192.37	1.50
1506	DISCCART	581470.90	4197164.50	41.72	239.60	1.50
1507	DISCCART	580120.90	4197264.50	88.93	434.73	1.50
1508	DISCCART	579970.90	4197139.50	98.05	434.73	1.50
1509	DISCCART	580245.90	4196439.50	150.28	239.60	1.50
1510	DISCCART	579920.90	4197039.50	99.25	434.73	1.50
1511	DISCCART	581870.90	4195864.50	56.36	239.60	1.50
1512	DISCCART	582170.90	4196264.50	46.40	198.92	1.50
1513	DISCCART	580545.90	4196264.50	150.21	239.60	1.50
1514	DISCCART	580820.90	4197314.50	52.34	239.60	1.50
1515	DISCCART	581120.90	4195864.50	125.22	239.60	1.50
1516	DISCCART	581120.90	4197264.50	47.42	239.60	1.50
1517	DISCCART	582170.90	4196464.50	42.94	42.94	1.50
1518	DISCCART	580270.90	4197314.50	79.66	434.73	1.50

1519	DISCCART	580870.90	4197314.50	53.64	239.60	1.50
1520	DISCCART	580045.90	4196564.50	125.59	239.60	1.50
1521	DISCCART	579920.90	4196914.50	107.36	239.60	1.50
1522	DISCCART	581870.90	4196964.50	44.13	239.60	1.50
1523	DISCCART	581320.90	4197214.50	42.10	239.60	1.50
1524	DISCCART	580520.90	4196264.50	143.33	239.60	1.50
1525	DISCCART	580395.90	4196364.50	160.70	239.60	1.50
1526	DISCCART	581970.90	4196864.50	45.05	45.05	1.50
1527	DISCCART	579945.90	4197114.50	102.56	434.73	1.50
1528	DISCCART	579920.90	4196889.50	108.13	239.60	1.50
1529	DISCCART	579920.90	4196814.50	106.01	326.41	1.50
1530	DISCCART	579970.90	4197164.50	100.66	434.73	1.50
1531	DISCCART	579920.90	4197064.50	98.78	434.73	1.50
1532	DISCCART	580020.90	4197214.50	89.85	434.73	1.50
1533	DISCCART	580920.90	4197314.50	53.21	239.60	1.50
1534	DISCCART	582170.90	4196164.50	46.17	198.92	1.50
1535	DISCCART	580670.90	4196189.50	161.26	239.60	1.50
1536	DISCCART	579920.90	4196864.50	107.92	239.60	1.50
1537	DISCCART	580620.90	4197364.50	87.64	239.60	1.50
1538	DISCCART	580170.90	4196514.50	154.86	239.60	1.50
1539	DISCCART	579895.90	4196964.50	99.15	434.73	1.50
1540	DISCCART	579895.90	4196939.50	100.58	326.41	1.50
1541	DISCCART	580570.90	4197364.50	80.94	239.60	1.50
1542	DISCCART	580070.90	4196514.50	129.98	239.60	1.50
1543	DISCCART	580095.90	4196514.50	134.73	239.60	1.50
1544	DISCCART	581670.90	4195764.50	64.63	239.60	1.50
1545	DISCCART	579920.90	4196839.50	107.66	239.60	1.50
1546	DISCCART	579920.90	4197089.50	99.44	434.73	1.50
1547	DISCCART	581170.90	4197264.50	45.53	239.60	1.50
1548	DISCCART	580595.90	4196239.50	160.38	239.60	1.50
1549	DISCCART	579970.90	4196789.50	117.80	239.60	1.50
1550	DISCCART	579895.90	4196989.50	98.60	434.73	1.50
1551	DISCCART	580670.90	4197364.50	88.26	239.60	1.50
1552	DISCCART	582170.90	4196564.50	41.64	41.64	1.50
1553	DISCCART	581370.90	4197214.50	40.34	239.60	1.50
1554	DISCCART	581020.90	4195914.50	130.99	239.60	1.50
1555	DISCCART	580220.90	4197314.50	76.76	434.73	1.50
1556	DISCCART	579895.90	4197014.50	98.96	434.73	1.50
1557	DISCCART	580970.90	4197314.50	51.20	239.60	1.50
1558	DISCCART	582070.90	4196764.50	40.33	40.33	1.50
1559	DISCCART	581770.90	4197064.50	37.58	239.60	1.50
1560	DISCCART	580070.90	4197264.50	88.54	434.73	1.50
1561	DISCCART	582070.90	4195964.50	49.96	198.92	1.50
1562	DISCCART	580145.90	4196514.50	148.03	239.60	1.50
1563	DISCCART	580320.90	4196389.50	156.10	239.60	1.50
1564	DISCCART	580920.90	4195964.50	130.38	239.60	1.50
1565	DISCCART	580520.90	4197364.50	73.38	239.60	1.50
1566	DISCCART	581570.90	4197164.50	42.95	239.60	1.50
1567	DISCCART	580720.90	4197364.50	83.81	239.60	1.50
1568	DISCCART	581970.90	4195864.50	54.37	198.92	1.50
1569	DISCCART	580020.90	4196639.50	124.03	239.60	1.50
1570	DISCCART	580695.90	4196164.50	160.52	239.60	1.50
1571	DISCCART	580120.90	4196514.50	142.14	239.60	1.50
1572	DISCCART	579945.90	4197139.50	105.57	434.73	1.50
1573	DISCCART	579895.90	4197039.50	100.67	434.73	1.50
1574	DISCCART	579920.90	4197114.50	102.04	434.73	1.50
1575	DISCCART	580220.90	4196464.50	160.18	239.60	1.50
1576	DISCCART	580820.90	4196064.50	149.57	239.60	1.50
1577	DISCCART	580470.90	4197364.50	73.76	239.60	1.50
1578	DISCCART	581220.90	4197264.50	41.95	239.60	1.50
1579	DISCCART	581020.90	4197314.50	49.45	239.60	1.50
1580	DISCCART	582170.90	4196064.50	45.92	198.92	1.50
1581	DISCCART	579895.90	4196914.50	106.04	239.60	1.50
1582	DISCCART	580195.90	4196489.50	161.80	239.60	1.50
1583	DISCCART	581770.90	4195764.50	59.27	239.60	1.50
1584	DISCCART	579895.90	4197064.50	100.42	434.73	1.50
1585	DISCCART	580245.90	4196414.50	149.82	239.60	1.50
1586	DISCCART	580170.90	4197314.50	76.15	434.73	1.50
1587	DISCCART	580570.90	4196239.50	154.77	239.60	1.50

1588	DISCCART	580870.90	4196014.50	141.60	239.60	1.50
1589	DISCCART	580020.90	4196664.50	125.98	239.60	1.50
1590	DISCCART	582170.90	4196664.50	40.33	40.33	1.50
1591	DISCCART	580495.90	4196264.50	143.09	239.60	1.50
1592	DISCCART	579895.90	4196814.50	104.38	326.41	1.50
1593	DISCCART	582270.90	4196364.50	42.02	47.19	1.50
1594	DISCCART	580620.90	4196214.50	161.97	239.60	1.50
1595	DISCCART	582270.90	4196264.50	44.22	44.22	1.50
1596	DISCCART	580420.90	4197364.50	71.62	434.73	1.50
1597	DISCCART	579895.90	4197089.50	100.59	434.73	1.50
1598	DISCCART	580120.90	4197314.50	88.24	434.73	1.50
1599	DISCCART	580770.90	4197364.50	65.18	239.60	1.50
1600	DISCCART	580020.90	4196614.50	125.99	239.60	1.50
1601	DISCCART	579970.90	4197214.50	92.82	434.73	1.50
1602	DISCCART	581270.90	4197264.50	41.70	239.60	1.50
1603	DISCCART	581070.90	4197314.50	48.14	239.60	1.50
1604	DISCCART	580470.90	4196289.50	148.87	239.60	1.50
1605	DISCCART	580370.90	4197364.50	76.15	434.73	1.50
1606	DISCCART	579870.90	4196989.50	99.13	434.73	1.50
1607	DISCCART	579870.90	4196964.50	100.40	434.73	1.50
1608	DISCCART	579920.90	4197139.50	104.75	434.73	1.50
1609	DISCCART	581970.90	4196964.50	42.41	42.41	1.50
1610	DISCCART	582270.90	4196464.50	41.64	45.61	1.50
1611	DISCCART	580045.90	4196539.50	130.56	239.60	1.50
1612	DISCCART	580020.90	4197264.50	88.75	434.73	1.50
1613	DISCCART	579895.90	4196889.50	108.56	239.60	1.50
1614	DISCCART	580320.90	4197364.50	80.26	434.73	1.50
1615	DISCCART	582270.90	4196164.50	45.60	192.37	1.50
1616	DISCCART	579995.90	4196764.50	127.76	239.60	1.50
1617	DISCCART	579870.90	4196939.50	102.68	326.41	1.50
1618	DISCCART	579870.90	4197014.50	98.89	434.73	1.50
1619	DISCCART	581070.90	4195864.50	130.20	239.60	1.50
1620	DISCCART	581870.90	4195764.50	55.76	239.60	1.50
1621	DISCCART	579895.90	4197114.50	102.33	434.73	1.50
1622	DISCCART	582070.90	4195864.50	52.96	198.92	1.50
1623	DISCCART	582070.90	4196864.50	38.05	38.05	1.50
1624	DISCCART	580420.90	4196339.50	165.32	239.60	1.50
1625	DISCCART	579895.90	4196864.50	108.50	239.60	1.50
1626	DISCCART	579870.90	4197039.50	100.01	434.73	1.50
1627	DISCCART	581320.90	4197264.50	42.65	239.60	1.50
1628	DISCCART	580645.90	4196189.50	161.66	239.60	1.50
1629	DISCCART	581120.90	4197314.50	45.99	239.60	1.50
1630	DISCCART	581470.90	4195664.50	87.95	239.60	1.50
1631	DISCCART	580370.90	4196364.50	166.55	239.60	1.50
1632	DISCCART	580020.90	4196589.50	127.47	239.60	1.50
1633	DISCCART	582170.90	4195964.50	47.88	198.92	1.50
1634	DISCCART	580270.90	4197364.50	79.54	434.73	1.50
1635	DISCCART	580820.90	4197364.50	51.98	239.60	1.50
1636	DISCCART	581670.90	4197164.50	40.87	239.60	1.50
1637	DISCCART	580970.90	4195914.50	130.31	239.60	1.50
1638	DISCCART	581870.90	4197064.50	38.80	239.60	1.50
1639	DISCCART	580445.90	4196314.50	157.67	239.60	1.50
1640	DISCCART	580070.90	4196489.50	134.32	239.60	1.50
1641	DISCCART	580095.90	4196489.50	139.07	239.60	1.50
1642	DISCCART	580270.90	4196389.50	152.82	239.60	1.50
1643	DISCCART	581370.90	4195664.50	95.56	239.60	1.50
1644	DISCCART	580295.90	4196389.50	159.01	239.60	1.50
1645	DISCCART	579895.90	4196839.50	108.61	322.69	1.50
1646	DISCCART	580870.90	4197364.50	50.80	239.60	1.50
1647	DISCCART	579870.90	4197064.50	101.64	434.73	1.50
1648	DISCCART	582270.90	4196564.50	42.28	42.28	1.50
1649	DISCCART	580170.90	4196489.50	159.66	239.60	1.50
1650	DISCCART	579920.90	4197164.50	106.40	434.73	1.50
1651	DISCCART	580070.90	4197314.50	87.58	434.73	1.50
1652	DISCCART	580345.90	4196364.50	160.14	239.60	1.50
1653	DISCCART	580920.90	4197364.50	52.36	239.60	1.50
1654	DISCCART	581570.90	4195664.50	75.99	239.60	1.50
1655	DISCCART	582170.90	4196764.50	42.84	42.84	1.50
1656	DISCCART	580595.90	4196214.50	157.29	239.60	1.50

1657	DISCCART	580020.90	4196714.50	132.23	239.60	1.50
1658	DISCCART	579945.90	4196789.50	118.32	239.60	1.50
1659	DISCCART	580670.90	4196164.50	160.17	239.60	1.50
1660	DISCCART	580145.90	4196489.50	152.13	239.60	1.50
1661	DISCCART	579895.90	4197139.50	104.26	434.73	1.50
1662	DISCCART	581370.90	4197264.50	41.89	239.60	1.50
1663	DISCCART	582270.90	4196064.50	48.20	192.37	1.50
1664	DISCCART	580620.90	4197414.50	86.49	239.60	1.50
1665	DISCCART	579870.90	4197089.50	101.57	434.73	1.50
1666	DISCCART	581170.90	4197314.50	44.17	239.60	1.50
1667	DISCCART	580120.90	4196489.50	146.03	239.60	1.50
1668	DISCCART	580545.90	4196239.50	152.61	239.60	1.50
1669	DISCCART	580020.90	4196564.50	128.98	239.60	1.50
1670	DISCCART	580220.90	4197364.50	75.24	434.73	1.50
1671	DISCCART	579870.90	4196914.50	107.02	326.32	1.50
1672	DISCCART	581970.90	4195764.50	54.51	198.92	1.50
1673	DISCCART	579895.90	4196789.50	109.00	326.41	1.50
1674	DISCCART	580970.90	4197364.50	50.82	239.60	1.50
1675	DISCCART	580670.90	4197414.50	87.21	239.60	1.50
1676	DISCCART	580570.90	4197414.50	74.74	239.60	1.50
1677	DISCCART	580220.90	4196439.50	161.73	239.60	1.50
1678	DISCCART	579870.90	4197114.50	100.73	434.73	1.50
1679	DISCCART	581670.90	4195664.50	67.02	239.60	1.50
1680	DISCCART	582370.90	4196264.50	46.44	46.44	1.50
1681	DISCCART	580395.90	4196339.50	163.63	239.60	1.50
1682	DISCCART	581220.90	4197314.50	43.24	239.60	1.50
1683	DISCCART	582370.90	4196364.50	43.39	51.07	1.50
1684	DISCCART	579920.90	4196789.50	114.98	239.60	1.50
1685	DISCCART	580720.90	4196114.50	155.56	239.60	1.50
1686	DISCCART	581020.90	4197364.50	49.21	239.60	1.50
1687	DISCCART	580720.90	4197414.50	81.40	239.60	1.50
1688	DISCCART	579870.90	4196889.50	108.16	326.32	1.50
1689	DISCCART	580520.90	4197414.50	67.41	239.60	1.50
1690	DISCCART	582270.90	4196664.50	38.32	41.80	1.50
1691	DISCCART	580045.90	4196514.50	134.24	239.60	1.50
1692	DISCCART	579970.90	4197264.50	81.14	434.73	1.50
1693	DISCCART	580470.90	4196264.50	145.44	239.60	1.50
1694	DISCCART	582170.90	4195864.50	50.49	198.92	1.50
1695	DISCCART	579920.90	4197214.50	104.84	434.73	1.50
1696	DISCCART	580020.90	4196689.50	133.34	239.60	1.50
1697	DISCCART	580170.90	4197364.50	72.07	434.73	1.50
1698	DISCCART	582370.90	4196164.50	50.38	50.38	1.50
1699	DISCCART	579870.90	4197139.50	98.30	434.73	1.50
1700	DISCCART	579970.90	4196764.50	126.15	239.60	1.50
1701	DISCCART	580020.90	4197314.50	87.63	434.73	1.50
1702	DISCCART	582370.90	4196464.50	45.26	45.26	1.50
1703	DISCCART	580245.90	4196389.50	153.58	239.60	1.50
1704	DISCCART	581270.90	4195664.50	108.77	239.60	1.50
1705	DISCCART	582270.90	4195964.50	49.46	198.92	1.50
1706	DISCCART	582070.90	4196964.50	41.26	44.61	1.50
1707	DISCCART	581170.90	4195764.50	122.66	239.60	1.50
1708	DISCCART	581770.90	4197164.50	37.00	239.60	1.50
1709	DISCCART	580195.90	4196464.50	168.69	239.60	1.50
1710	DISCCART	580570.90	4196214.50	153.34	239.60	1.50
1711	DISCCART	580470.90	4197414.50	67.40	434.73	1.50
1712	DISCCART	580620.90	4196189.50	159.96	239.60	1.50
1713	DISCCART	579870.90	4197164.50	99.14	434.73	1.50
1714	DISCCART	581470.90	4197264.50	39.62	239.60	1.50
1715	DISCCART	581070.90	4197364.50	48.02	239.60	1.50
1716	DISCCART	581270.90	4197314.50	41.03	239.60	1.50
1717	DISCCART	581970.90	4197064.50	44.22	44.22	1.50
1718	DISCCART	582070.90	4195764.50	53.67	198.92	1.50
1719	DISCCART	580320.90	4196364.50	161.95	239.60	1.50
1720	DISCCART	581770.90	4195664.50	59.10	239.60	1.50
1721	DISCCART	580770.90	4197414.50	67.47	239.60	1.50
1722	DISCCART	580120.90	4197364.50	75.86	434.73	1.50
1723	DISCCART	582170.90	4196864.50	33.76	45.07	1.50
1724	DISCCART	580070.90	4196464.50	137.74	239.60	1.50
1725	DISCCART	580420.90	4197414.50	67.81	434.73	1.50

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1726	DISCCART	580095.90	4196464.50	142.38	239.60	1.50
1727	DISCCART	580370.90	4197414.50	75.09	434.73	1.50
1728	DISCCART	582370.90	4196064.50	51.27	51.27	1.50
1729	DISCCART	579870.90	4196864.50	110.30	239.60	1.50
1730	DISCCART	580320.90	4197414.50	78.83	434.73	1.50
1731	DISCCART	582370.90	4196564.50	40.64	43.19	1.50
1732	DISCCART	580220.90	4196414.50	159.74	239.60	1.50
1733	DISCCART	581320.90	4197314.50	40.98	239.60	1.50
1734	DISCCART	581120.90	4197364.50	46.33	239.60	1.50
1735	DISCCART	579820.90	4197014.50	93.27	434.73	1.50
1736	DISCCART	580520.90	4196239.50	152.00	239.60	1.50
1737	DISCCART	580020.90	4196539.50	133.40	239.60	1.50
1738	DISCCART	580645.90	4196164.50	160.53	239.60	1.50
1739	DISCCART	580445.90	4196289.50	155.30	239.60	1.50
1740	DISCCART	580870.90	4195964.50	136.66	239.60	1.50
1741	DISCCART	580820.90	4197414.50	54.72	239.60	1.50
1742	DISCCART	580370.90	4196339.50	164.55	239.60	1.50
1743	DISCCART	582270.90	4196764.50	36.28	36.28	1.50
1744	DISCCART	580270.90	4197414.50	77.30	434.73	1.50
1745	DISCCART	581870.90	4195664.50	52.68	239.60	1.50
1746	DISCCART	579820.90	4196964.50	101.75	434.73	1.50
1747	DISCCART	579920.90	4197264.50	84.62	434.73	1.50
1748	DISCCART	580595.90	4196189.50	155.23	239.60	1.50
1749	DISCCART	580170.90	4196464.50	165.23	239.60	1.50
1750	DISCCART	580420.90	4196314.50	164.00	239.60	1.50
1751	DISCCART	580920.90	4195914.50	131.65	239.60	1.50
1752	DISCCART	581370.90	4197314.50	42.33	239.60	1.50
1753	DISCCART	580870.90	4197414.50	49.67	239.60	1.50
1754	DISCCART	582270.90	4195864.50	49.74	198.92	1.50
1755	DISCCART	580070.90	4197364.50	75.45	434.73	1.50
1756	DISCCART	579820.90	4197064.50	86.16	434.73	1.50
1757	DISCCART	582470.90	4196264.50	50.42	50.42	1.50
1758	DISCCART	581570.90	4197264.50	38.82	239.60	1.50
1759	DISCCART	580120.90	4196464.50	150.99	239.60	1.50
1760	DISCCART	581170.90	4197364.50	43.96	239.60	1.50
1761	DISCCART	579870.90	4197214.50	96.41	434.73	1.50
1762	DISCCART	580920.90	4197414.50	51.03	239.60	1.50
1763	DISCCART	581020.90	4195864.50	136.13	239.60	1.50
1764	DISCCART	582470.90	4196364.50	49.13	50.42	1.50
1765	DISCCART	580145.90	4196464.50	157.98	239.60	1.50
1766	DISCCART	582170.90	4195764.50	49.87	198.92	1.50
1767	DISCCART	581870.90	4197164.50	38.50	239.60	1.50
1768	DISCCART	580295.90	4196364.50	163.10	239.60	1.50
1769	DISCCART	580220.90	4197414.50	73.00	434.73	1.50
1770	DISCCART	580770.90	4196064.50	157.24	239.60	1.50
1771	DISCCART	580620.90	4197464.50	81.46	239.60	1.50
1772	DISCCART	582370.90	4195964.50	49.01	192.37	1.50
1773	DISCCART	582470.90	4196164.50	50.59	50.59	1.50
1774	DISCCART	579970.90	4197314.50	77.05	434.73	1.50
1775	DISCCART	580970.90	4197414.50	50.81	239.60	1.50
1776	DISCCART	580045.90	4196489.50	138.58	239.60	1.50
1777	DISCCART	579995.90	4196739.50	136.71	239.60	1.50
1778	DISCCART	582370.90	4196664.50	38.25	38.25	1.50
1779	DISCCART	579820.90	4197114.50	88.27	434.73	1.50
1780	DISCCART	580545.90	4196214.50	152.60	239.60	1.50
1781	DISCCART	580570.90	4197464.50	72.75	239.60	1.50
1782	DISCCART	581970.90	4195664.50	52.09	198.92	1.50
1783	DISCCART	580095.90	4196439.50	143.92	239.60	1.50
1784	DISCCART	580670.90	4197464.50	83.01	239.60	1.50
1785	DISCCART	581220.90	4197364.50	41.96	239.60	1.50
1786	DISCCART	581570.90	4195564.50	83.40	239.60	1.50
1787	DISCCART	582470.90	4196464.50	42.49	49.84	1.50
1788	DISCCART	580270.90	4196364.50	159.51	239.60	1.50
1789	DISCCART	582070.90	4197064.50	44.88	44.88	1.50
1790	DISCCART	581020.90	4197414.50	48.90	239.60	1.50
1791	DISCCART	582170.90	4196964.50	34.02	44.70	1.50
1792	DISCCART	581470.90	4195564.50	95.38	198.92	1.50
1793	DISCCART	580195.90	4196439.50	170.55	239.60	1.50
1794	DISCCART	580520.90	4197464.50	68.92	239.60	1.50

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1795	DISCCART	579820.90	4196914.50	105.55	326.41	1.50
1796	DISCCART	580495.90	4196239.50	150.61	239.60	1.50
1797	DISCCART	579870.90	4196789.50	112.48	326.32	1.50
1798	DISCCART	582470.90	4196064.50	48.27	48.27	1.50
1799	DISCCART	580020.90	4197364.50	75.24	434.73	1.50
1800	DISCCART	580170.90	4197414.50	66.76	434.73	1.50
1801	DISCCART	580820.90	4196014.50	151.84	239.60	1.50
1802	DISCCART	580395.90	4196314.50	163.45	239.60	1.50
1803	DISCCART	582270.90	4196864.50	33.73	33.73	1.50
1804	DISCCART	580345.90	4196339.50	166.39	239.60	1.50
1805	DISCCART	580070.90	4196439.50	141.54	239.60	1.50
1806	DISCCART	581070.90	4197414.50	47.58	239.60	1.50
1807	DISCCART	581670.90	4197264.50	39.56	239.60	1.50
1808	DISCCART	580620.90	4196164.50	158.31	239.60	1.50
1809	DISCCART	580220.90	4196389.50	160.03	239.60	1.50
1810	DISCCART	579870.90	4196839.50	114.63	239.60	1.50
1811	DISCCART	579820.90	4197164.50	86.68	434.73	1.50
1812	DISCCART	581270.90	4197364.50	40.70	239.60	1.50
1813	DISCCART	580120.90	4196439.50	151.35	239.60	1.50
1814	DISCCART	580020.90	4196514.50	137.24	239.60	1.50
1815	DISCCART	581670.90	4195564.50	67.58	239.60	1.50
1816	DISCCART	580720.90	4197464.50	68.25	239.60	1.50
1817	DISCCART	579995.90	4196564.50	133.67	239.60	1.50
1818	DISCCART	579870.90	4196814.50	113.91	239.60	1.50
1819	DISCCART	580470.90	4197464.50	63.84	434.73	1.50
1820	DISCCART	582070.90	4195664.50	48.98	198.92	1.50
1821	DISCCART	580570.90	4196189.50	153.25	239.60	1.50
1822	DISCCART	582370.90	4195864.50	50.43	192.37	1.50
1823	DISCCART	582470.90	4196564.50	38.54	40.60	1.50
1824	DISCCART	582270.90	4195764.50	48.19	198.92	1.50
1825	DISCCART	580445.90	4196264.50	151.79	239.60	1.50
1826	DISCCART	580145.90	4196439.50	157.86	239.60	1.50
1827	DISCCART	580120.90	4197414.50	69.10	434.73	1.50
1828	DISCCART	581970.90	4197164.50	46.14	46.14	1.50
1829	DISCCART	580170.90	4196439.50	165.90	239.60	1.50
1830	DISCCART	579945.90	4196764.50	129.24	239.60	1.50
1831	DISCCART	579995.90	4196589.50	134.78	239.60	1.50
1832	DISCCART	582370.90	4196764.50	36.63	36.63	1.50
1833	DISCCART	581120.90	4197414.50	46.73	239.60	1.50
1834	DISCCART	580420.90	4197464.50	64.80	434.73	1.50
1835	DISCCART	580770.90	4197464.50	62.98	239.60	1.50
1836	DISCCART	579870.90	4197264.50	78.90	437.57	1.50
1837	DISCCART	581770.90	4195564.50	64.09	239.60	1.50
1838	DISCCART	580470.90	4196239.50	148.25	239.60	1.50
1839	DISCCART	581320.90	4197364.50	39.30	239.60	1.50
1840	DISCCART	580370.90	4197464.50	72.24	434.73	1.50
1841	DISCCART	582570.90	4196264.50	50.58	50.58	1.50
1842	DISCCART	580420.90	4196289.50	159.61	239.60	1.50
1843	DISCCART	579920.90	4197314.50	73.25	437.57	1.50
1844	DISCCART	582470.90	4195964.50	45.56	45.56	1.50
1845	DISCCART	580320.90	4197464.50	74.72	434.73	1.50
1846	DISCCART	582570.90	4196164.50	51.21	51.21	1.50
1847	DISCCART	582570.90	4196364.50	43.20	51.09	1.50
1848	DISCCART	580245.90	4196364.50	161.80	239.60	1.50
1849	DISCCART	580070.90	4197414.50	71.26	434.73	1.50
1850	DISCCART	580520.90	4196214.50	152.33	239.60	1.50
1851	DISCCART	579995.90	4196614.50	136.65	239.60	1.50
1852	DISCCART	581170.90	4197414.50	45.84	239.60	1.50
1853	DISCCART	582170.90	4195664.50	48.74	198.92	1.50
1854	DISCCART	580595.90	4196164.50	154.16	239.60	1.50
1855	DISCCART	580045.90	4196464.50	142.65	239.60	1.50
1856	DISCCART	581370.90	4197364.50	40.13	239.60	1.50
1857	DISCCART	580820.90	4197464.50	52.40	239.60	1.50
1858	DISCCART	580670.90	4196114.50	157.39	239.60	1.50
1859	DISCCART	580370.90	4196314.50	164.26	239.60	1.50
1860	DISCCART	580270.90	4197464.50	73.19	434.73	1.50
1861	DISCCART	579770.90	4197014.50	99.38	434.73	1.50
1862	DISCCART	579770.90	4197064.50	92.57	434.73	1.50
1863	DISCCART	579970.90	4197364.50	70.42	437.57	1.50

1864	DISCCART	582470.90	4196664.50	37.54	37.54	1.50
1865	DISCCART	579970.90	4196739.50	136.03	239.60	1.50
1866	DISCCART	580095.90	4196414.50	147.05	239.60	1.50
1867	DISCCART	581770.90	4197264.50	35.86	239.60	1.50
1868	DISCCART	579820.90	4197214.50	78.19	437.57	1.50
1869	DISCCART	582170.90	4197064.50	42.00	42.00	1.50
1870	DISCCART	580195.90	4196414.50	170.28	239.60	1.50
1871	DISCCART	580870.90	4197464.50	48.52	239.60	1.50
1872	DISCCART	580920.90	4197464.50	49.70	239.60	1.50
1873	DISCCART	581870.90	4195564.50	54.06	239.60	1.50
1874	DISCCART	580320.90	4196339.50	169.61	239.60	1.50
1875	DISCCART	579995.90	4196539.50	136.88	239.60	1.50
1876	DISCCART	582570.90	4196064.50	48.11	48.11	1.50
1877	DISCCART	580220.90	4197464.50	71.76	434.73	1.50
1878	DISCCART	582570.90	4196464.50	37.23	49.84	1.50
1879	DISCCART	582270.90	4196964.50	32.96	32.96	1.50
1880	DISCCART	580445.90	4196239.50	146.69	239.60	1.50
1881	DISCCART	580970.90	4197464.50	49.80	239.60	1.50
1882	DISCCART	579770.90	4197114.50	91.93	434.73	1.50
1883	DISCCART	581220.90	4197414.50	44.92	239.60	1.50
1884	DISCCART	582370.90	4195764.50	46.92	192.37	1.50
1885	DISCCART	579995.90	4196639.50	138.76	239.60	1.50
1886	DISCCART	581370.90	4195564.50	114.77	198.92	1.50
1887	DISCCART	581020.90	4197464.50	48.65	239.60	1.50
1888	DISCCART	582370.90	4196864.50	35.96	35.96	1.50
1889	DISCCART	582470.90	4195864.50	45.68	45.68	1.50
1890	DISCCART	580020.90	4197414.50	71.10	437.57	1.50
1891	DISCCART	580020.90	4196489.50	141.62	239.60	1.50
1892	DISCCART	580545.90	4196189.50	152.81	239.60	1.50
1893	DISCCART	580120.90	4196414.50	153.93	239.60	1.50
1894	DISCCART	579995.90	4196664.50	140.18	239.60	1.50
1895	DISCCART	582070.90	4197164.50	46.16	46.16	1.50
1896	DISCCART	581970.90	4195564.50	53.01	198.92	1.50
1897	DISCCART	579870.90	4196764.50	117.82	239.60	1.50
1898	DISCCART	581070.90	4195764.50	127.65	239.60	1.50
1899	DISCCART	582270.90	4195664.50	46.63	198.92	1.50
1900	DISCCART	580070.90	4196414.50	145.69	239.60	1.50
1901	DISCCART	579995.90	4196714.50	143.99	239.60	1.50
1902	DISCCART	581470.90	4197364.50	40.18	239.60	1.50
1903	DISCCART	582570.90	4196564.50	36.65	36.65	1.50
1904	DISCCART	579870.90	4197314.50	72.95	452.04	1.50
1905	DISCCART	581270.90	4197414.50	43.18	239.60	1.50
1906	DISCCART	581070.90	4197464.50	47.68	239.60	1.50
1907	DISCCART	580820.90	4195964.50	140.79	239.60	1.50
1908	DISCCART	580170.90	4197464.50	63.32	434.73	1.50
1909	DISCCART	580145.90	4196414.50	160.84	239.60	1.50
1910	DISCCART	580970.90	4195864.50	140.74	239.60	1.50
1911	DISCCART	580870.90	4195914.50	135.29	239.60	1.50
1912	DISCCART	582570.90	4195964.50	44.98	47.69	1.50
1913	DISCCART	579820.90	4197264.50	77.30	452.04	1.50
1914	DISCCART	580720.90	4196064.50	156.57	239.60	1.50
1915	DISCCART	579770.90	4197164.50	81.91	437.57	1.50
1916	DISCCART	582470.90	4196764.50	35.79	35.79	1.50
1917	DISCCART	581870.90	4197264.50	38.19	43.82	1.50
1918	DISCCART	580295.90	4196339.50	170.44	239.60	1.50
1919	DISCCART	579920.90	4197364.50	69.30	452.04	1.50
1920	DISCCART	580395.90	4196289.50	162.96	239.60	1.50
1921	DISCCART	579995.90	4196689.50	143.31	239.60	1.50
1922	DISCCART	579920.90	4196764.50	129.45	239.60	1.50
1923	DISCCART	579895.90	4196764.50	123.93	239.60	1.50
1924	DISCCART	582670.90	4196264.50	44.00	44.64	1.50
1925	DISCCART	580170.90	4196414.50	169.48	239.60	1.50
1926	DISCCART	580770.90	4196014.50	149.76	239.60	1.50
1927	DISCCART	580120.90	4197464.50	64.66	437.57	1.50
1928	DISCCART	581120.90	4197464.50	47.01	239.60	1.50
1929	DISCCART	582670.90	4196164.50	45.32	45.32	1.50
1930	DISCCART	580420.90	4196264.50	157.05	239.60	1.50
1931	DISCCART	582070.90	4195564.50	47.73	198.92	1.50
1932	DISCCART	580570.90	4196164.50	153.48	239.60	1.50

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1933	DISCCART	580495.90	4196214.50	152.89	239.60	1.50
1934	DISCCART	579820.90	4196864.50	113.53	326.32	1.50
1935	DISCCART	579770.90	4196964.50	108.10	434.73	1.50
1936	DISCCART	581320.90	4197414.50	39.46	239.60	1.50
1937	DISCCART	579995.90	4196514.50	140.29	239.60	1.50
1938	DISCCART	582670.90	4196364.50	35.96	51.10	1.50
1939	DISCCART	581570.90	4195464.50	86.70	198.92	1.50
1940	DISCCART	581470.90	4195464.50	98.98	198.92	1.50
1941	DISCCART	580220.90	4196364.50	166.72	239.60	1.50
1942	DISCCART	580195.90	4196389.50	169.95	239.60	1.50
1943	DISCCART	579970.90	4197414.50	67.70	452.04	1.50
1944	DISCCART	582470.90	4195764.50	42.82	192.37	1.50
1945	DISCCART	582570.90	4196664.50	38.25	38.25	1.50
1946	DISCCART	580270.90	4196339.50	168.60	239.60	1.50
1947	DISCCART	580045.90	4196439.50	147.18	239.60	1.50
1948	DISCCART	581670.90	4195464.50	70.53	239.60	1.50
1949	DISCCART	582670.90	4196064.50	44.55	44.55	1.50
1950	DISCCART	581170.90	4197464.50	46.09	239.60	1.50
1951	DISCCART	579770.90	4197214.50	79.46	452.04	1.50
1952	DISCCART	582370.90	4195664.50	44.26	198.92	1.50
1953	DISCCART	582270.90	4197064.50	33.08	42.25	1.50
1954	DISCCART	581570.90	4197364.50	35.36	239.60	1.50
1955	DISCCART	580070.90	4197464.50	64.75	452.04	1.50
1956	DISCCART	582370.90	4196964.50	33.09	33.09	1.50
1957	DISCCART	581370.90	4197414.50	38.19	239.60	1.50
1958	DISCCART	582670.90	4196464.50	35.86	35.86	1.50
1959	DISCCART	582570.90	4195864.50	41.44	41.44	1.50
1960	DISCCART	580345.90	4196314.50	172.13	239.60	1.50
1961	DISCCART	579820.90	4197314.50	79.15	452.04	1.50
1962	DISCCART	580095.90	4196389.50	150.95	239.60	1.50
1963	DISCCART	579870.90	4197364.50	75.74	452.04	1.50
1964	DISCCART	582170.90	4195564.50	45.12	198.92	1.50
1965	DISCCART	580420.90	4196239.50	150.18	239.60	1.50
1966	DISCCART	581770.90	4195464.50	62.40	198.92	1.50
1967	DISCCART	581170.90	4195664.50	122.69	239.60	1.50
1968	DISCCART	582170.90	4197164.50	41.88	44.54	1.50
1969	DISCCART	581970.90	4197264.50	44.05	44.05	1.50
1970	DISCCART	580520.90	4196189.50	152.78	239.60	1.50
1971	DISCCART	579770.90	4197264.50	88.85	437.34	1.50
1972	DISCCART	581220.90	4197464.50	45.63	239.60	1.50
1973	DISCCART	582470.90	4196864.50	33.44	33.44	1.50
1974	DISCCART	580020.90	4196464.50	146.21	239.60	1.50
1975	DISCCART	579945.90	4196739.50	137.80	239.60	1.50
1976	DISCCART	582670.90	4195964.50	43.66	43.66	1.50
1977	DISCCART	579720.90	4197114.50	94.65	434.73	1.50
1978	DISCCART	580020.90	4197464.50	66.56	452.04	1.50
1979	DISCCART	580395.90	4196264.50	158.11	239.60	1.50
1980	DISCCART	582670.90	4196564.50	35.97	35.97	1.50
1981	DISCCART	579920.90	4197414.50	69.21	452.04	1.50
1982	DISCCART	580620.90	4196114.50	153.66	239.60	1.50
1983	DISCCART	581870.90	4195464.50	54.58	198.92	1.50
1984	DISCCART	581670.90	4197364.50	37.56	239.60	1.50
1985	DISCCART	580570.90	4197564.50	68.18	239.60	1.50
1986	DISCCART	580245.90	4196339.50	169.57	239.60	1.50
1987	DISCCART	580120.90	4196389.50	158.18	239.60	1.50
1988	DISCCART	582570.90	4196764.50	38.08	38.08	1.50
1989	DISCCART	579970.90	4196564.50	140.42	239.60	1.50
1990	DISCCART	581270.90	4197464.50	44.24	239.60	1.50
1991	DISCCART	580370.90	4196289.50	167.13	239.60	1.50
1992	DISCCART	582270.90	4195564.50	43.22	198.92	1.50
1993	DISCCART	580920.90	4195864.50	137.63	239.60	1.50
1994	DISCCART	582470.90	4195664.50	44.63	192.37	1.50
1995	DISCCART	582770.90	4196264.50	36.55	36.55	1.50
1996	DISCCART	580545.90	4196164.50	152.77	239.60	1.50
1997	DISCCART	580320.90	4196314.50	173.36	239.60	1.50
1998	DISCCART	582770.90	4196164.50	38.91	42.28	1.50
1999	DISCCART	579720.90	4197164.50	85.21	437.57	1.50
2000	DISCCART	580470.90	4196214.50	153.98	239.60	1.50
2001	DISCCART	582570.90	4195764.50	41.33	41.33	1.50

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2002	DISCCART	580070.90	4196389.50	150.88	239.60	1.50
2003	DISCCART	582770.90	4196364.50	36.08	36.08	1.50
2004	DISCCART	580670.90	4197564.50	64.42	239.60	1.50
2005	DISCCART	579995.90	4196489.50	145.19	239.60	1.50
2006	DISCCART	579970.90	4196539.50	141.22	239.60	1.50
2007	DISCCART	579720.90	4197064.50	106.97	434.73	1.50
2008	DISCCART	579820.90	4197364.50	79.31	452.04	1.50
2009	DISCCART	579970.90	4196714.50	145.79	239.60	1.50
2010	DISCCART	581970.90	4195464.50	50.01	198.92	1.50
2011	DISCCART	582770.90	4196064.50	42.75	42.75	1.50
2012	DISCCART	580395.90	4196239.50	151.81	239.60	1.50
2013	DISCCART	582670.90	4195864.50	44.07	44.07	1.50
2014	DISCCART	579770.90	4197314.50	83.62	452.04	1.50
2015	DISCCART	579970.90	4197464.50	65.94	452.04	1.50
2016	DISCCART	582070.90	4197264.50	44.15	44.15	1.50
2017	DISCCART	580145.90	4196389.50	167.03	239.60	1.50
2018	DISCCART	579970.90	4196589.50	142.77	239.60	1.50
2019	DISCCART	581320.90	4197464.50	39.97	239.60	1.50
2020	DISCCART	580170.90	4196389.50	174.54	239.60	1.50
2021	DISCCART	582670.90	4196664.50	34.27	34.27	1.50
2022	DISCCART	582370.90	4197064.50	32.06	32.83	1.50
2023	DISCCART	580470.90	4197564.50	58.86	434.73	1.50
2024	DISCCART	579720.90	4197214.50	83.18	452.04	1.50
2025	DISCCART	579870.90	4197414.50	71.98	452.04	1.50
2026	DISCCART	582770.90	4196464.50	35.00	35.00	1.50
2027	DISCCART	582470.90	4196964.50	31.25	31.25	1.50
2028	DISCCART	582370.90	4195564.50	41.77	198.92	1.50
2029	DISCCART	580670.90	4196064.50	153.09	239.60	1.50
2030	DISCCART	582070.90	4195464.50	51.66	198.92	1.50
2031	DISCCART	581770.90	4197364.50	34.07	239.60	1.50
2032	DISCCART	582270.90	4197164.50	32.70	44.18	1.50
2033	DISCCART	580495.90	4196189.50	153.29	239.60	1.50
2034	DISCCART	579970.90	4196614.50	144.49	239.60	1.50
2035	DISCCART	579770.90	4196914.50	113.99	326.41	1.50
2036	DISCCART	580195.90	4196364.50	174.42	239.60	1.50
2037	DISCCART	582770.90	4195964.50	43.16	43.16	1.50
2038	DISCCART	580370.90	4196264.50	160.77	239.60	1.50
2039	DISCCART	580045.90	4196414.50	153.10	239.60	1.50
2040	DISCCART	580020.90	4196439.50	150.40	239.60	1.50
2041	DISCCART	581370.90	4197464.50	37.88	239.60	1.50
2042	DISCCART	582570.90	4196864.50	32.30	32.30	1.50
2043	DISCCART	580445.90	4196214.50	153.13	239.60	1.50
2044	DISCCART	579720.90	4197264.50	90.30	437.57	1.50
2045	DISCCART	580295.90	4196314.50	176.19	239.60	1.50
2046	DISCCART	579920.90	4197464.50	70.88	452.04	1.50
2047	DISCCART	582570.90	4195664.50	41.24	41.24	1.50
2048	DISCCART	580370.90	4197564.50	64.17	434.73	1.50
2049	DISCCART	580720.90	4196014.50	149.49	239.60	1.50
2050	DISCCART	581570.90	4195364.50	100.15	198.92	1.50
2051	DISCCART	580345.90	4196289.50	171.46	239.60	1.50
2052	DISCCART	582770.90	4196564.50	33.43	33.43	1.50
2053	DISCCART	580770.90	4197564.50	49.14	239.60	1.50
2054	DISCCART	579970.90	4196639.50	146.56	239.60	1.50
2055	DISCCART	580770.90	4195964.50	143.86	239.60	1.50
2056	DISCCART	582670.90	4195764.50	41.76	44.36	1.50
2057	DISCCART	582170.90	4195464.50	45.30	198.92	1.50
2058	DISCCART	580370.90	4196239.50	153.93	239.60	1.50
2059	DISCCART	582470.90	4195564.50	43.74	192.37	1.50
2060	DISCCART	582670.90	4196764.50	33.46	33.46	1.50
2061	DISCCART	580095.90	4196364.50	156.44	239.60	1.50
2062	DISCCART	579970.90	4196514.50	145.14	239.60	1.50
2063	DISCCART	582870.90	4196164.50	37.12	37.12	1.50
2064	DISCCART	582870.90	4196264.50	36.30	36.30	1.50
2065	DISCCART	580520.90	4196164.50	153.19	239.60	1.50
2066	DISCCART	580220.90	4196339.50	175.07	239.60	1.50
2067	DISCCART	579770.90	4197364.50	80.92	452.04	1.50
2068	DISCCART	579820.90	4197414.50	77.61	452.04	1.50
2069	DISCCART	581870.90	4197364.50	39.36	39.36	1.50
2070	DISCCART	582170.90	4197264.50	43.81	43.81	1.50

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2071	DISCCART	580270.90	4197564.50	65.23	434.73	1.50
2072	DISCCART	581670.90	4195364.50	74.54	198.92	1.50
2073	DISCCART	580870.90	4197564.50	46.76	239.60	1.50
2074	DISCCART	580970.90	4197564.50	46.98	239.60	1.50
2075	DISCCART	582770.90	4195864.50	44.18	44.18	1.50
2076	DISCCART	579670.90	4197114.50	93.57	434.73	1.50
2077	DISCCART	582870.90	4196364.50	35.63	35.63	1.50
2078	DISCCART	579970.90	4196664.50	149.14	239.60	1.50
2079	DISCCART	581270.90	4195564.50	123.15	198.92	1.50
2080	DISCCART	582870.90	4196064.50	37.25	37.25	1.50
2081	DISCCART	579970.90	4196689.50	150.47	239.60	1.50
2082	DISCCART	581470.90	4197464.50	36.45	239.60	1.50
2083	DISCCART	579670.90	4197064.50	98.25	434.73	1.50
2084	DISCCART	579720.90	4197314.50	86.49	452.04	1.50
2085	DISCCART	581070.90	4197564.50	46.62	239.60	1.50
2086	DISCCART	579995.90	4196464.50	150.47	239.60	1.50
2087	DISCCART	579870.90	4196739.50	129.71	239.60	1.50
2088	DISCCART	579920.90	4196739.50	140.32	239.60	1.50
2089	DISCCART	581770.90	4195364.50	61.13	198.92	1.50
2090	DISCCART	580420.90	4196214.50	153.07	239.60	1.50
2091	DISCCART	579670.90	4197164.50	95.25	434.73	1.50
2092	DISCCART	579870.90	4197464.50	73.55	452.04	1.50
2093	DISCCART	580120.90	4196364.50	163.07	239.60	1.50
2094	DISCCART	580820.90	4195914.50	141.27	239.60	1.50
2095	DISCCART	579770.90	4196864.50	115.09	326.41	1.50
2096	DISCCART	582270.90	4195464.50	42.16	198.92	1.50
2097	DISCCART	582470.90	4197064.50	30.62	30.62	1.50
2098	DISCCART	582770.90	4196664.50	33.24	33.24	1.50
2099	DISCCART	580345.90	4196264.50	164.17	239.60	1.50
2100	DISCCART	580270.90	4196314.50	178.92	239.60	1.50
2101	DISCCART	580320.90	4196289.50	173.51	239.60	1.50
2102	DISCCART	582870.90	4196464.50	35.28	35.28	1.50
2103	DISCCART	580170.90	4197564.50	59.16	452.04	1.50
2104	DISCCART	580470.90	4196189.50	153.97	239.60	1.50
2105	DISCCART	582570.90	4196964.50	31.75	31.75	1.50
2106	DISCCART	582370.90	4197164.50	32.05	34.81	1.50
2107	DISCCART	579670.90	4197214.50	93.23	437.57	1.50
2108	DISCCART	581870.90	4195364.50	53.75	198.92	1.50
2109	DISCCART	579945.90	4196714.50	146.47	239.60	1.50
2110	DISCCART	582870.90	4195964.50	39.22	39.22	1.50
2111	DISCCART	582670.90	4195664.50	40.13	40.13	1.50
2112	DISCCART	579895.90	4196739.50	136.15	239.60	1.50
2113	DISCCART	582570.90	4195564.50	43.75	43.75	1.50
2114	DISCCART	580070.90	4196364.50	156.31	239.60	1.50
2115	DISCCART	581970.90	4197364.50	42.62	42.62	1.50
2116	DISCCART	580070.90	4197564.50	65.70	452.04	1.50
2117	DISCCART	579770.90	4197414.50	85.58	452.04	1.50
2118	DISCCART	582770.90	4195764.50	44.64	44.64	1.50
2119	DISCCART	581970.90	4195364.50	54.65	198.92	1.50
2120	DISCCART	581170.90	4197564.50	45.16	239.60	1.50
2121	DISCCART	582670.90	4196864.50	32.72	32.72	1.50
2122	DISCCART	580145.90	4196364.50	172.45	239.60	1.50
2123	DISCCART	580170.90	4196364.50	179.97	239.60	1.50
2124	DISCCART	582370.90	4195464.50	41.79	198.92	1.50
2125	DISCCART	581470.90	4195364.50	102.21	198.92	1.50
2126	DISCCART	581570.90	4197464.50	34.99	239.60	1.50
2127	DISCCART	580295.90	4196289.50	173.85	239.60	1.50
2128	DISCCART	579670.90	4197264.50	94.49	437.57	1.50
2129	DISCCART	580345.90	4196239.50	157.72	239.60	1.50
2130	DISCCART	579970.90	4196489.50	149.11	239.60	1.50
2131	DISCCART	580570.90	4196114.50	153.18	239.60	1.50
2132	DISCCART	579720.90	4197364.50	86.66	452.04	1.50
2133	DISCCART	579820.90	4197464.50	77.97	452.04	1.50
2134	DISCCART	582870.90	4196564.50	35.21	35.21	1.50
2135	DISCCART	582270.90	4197264.50	41.80	41.80	1.50
2136	DISCCART	580045.90	4196389.50	157.88	239.60	1.50
2137	DISCCART	580020.90	4196414.50	156.07	239.60	1.50
2138	DISCCART	580320.90	4196264.50	166.30	239.60	1.50
2139	DISCCART	579970.90	4197564.50	79.29	437.57	1.50

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2140	DISCCART	579945.90	4196564.50	146.25	239.60	1.50
2141	DISCCART	579720.90	4197014.50	117.19	434.73	1.50
2142	DISCCART	582870.90	4195864.50	39.18	39.18	1.50
2143	DISCCART	582770.90	4196764.50	33.23	33.23	1.50
2144	DISCCART	580395.90	4196214.50	154.92	239.60	1.50
2145	DISCCART	580245.90	4196314.50	180.31	239.60	1.50
2146	DISCCART	582070.90	4195364.50	50.60	198.92	1.50
2147	DISCCART	580495.90	4196164.50	154.43	239.60	1.50
2148	DISCCART	579945.90	4196539.50	146.23	239.60	1.50
2149	DISCCART	580445.90	4196189.50	153.79	239.60	1.50
2150	DISCCART	582470.90	4195464.50	41.15	192.37	1.50
2151	DISCCART	579670.90	4197314.50	91.35	452.04	1.50
2152	DISCCART	582070.90	4197364.50	40.98	40.98	1.50
2153	DISCCART	582670.90	4195564.50	39.77	39.77	1.50
2154	DISCCART	579995.90	4196439.50	155.39	239.60	1.50
2155	DISCCART	580870.90	4195864.50	142.17	239.60	1.50
2156	DISCCART	582570.90	4197064.50	31.25	31.25	1.50
2157	DISCCART	581670.90	4197464.50	34.08	239.60	1.50
2158	DISCCART	581270.90	4197564.50	43.22	239.60	1.50
2159	DISCCART	579770.90	4197464.50	89.94	452.04	1.50
2160	DISCCART	582170.90	4195364.50	48.35	198.92	1.50
2161	DISCCART	582470.90	4197164.50	30.66	30.66	1.50
2162	DISCCART	580295.90	4196264.50	167.56	239.60	1.50
2163	DISCCART	582770.90	4195664.50	34.61	44.68	1.50
2164	DISCCART	582870.90	4196664.50	34.35	34.35	1.50
2165	DISCCART	580620.90	4196064.50	152.53	239.60	1.50
2166	DISCCART	580195.90	4196339.50	185.10	239.60	1.50
2167	DISCCART	582670.90	4196964.50	32.25	32.25	1.50
2168	DISCCART	579945.90	4196589.50	149.43	239.60	1.50
2169	DISCCART	579920.90	4196714.50	145.59	239.60	1.50
2170	DISCCART	579720.90	4197414.50	87.28	452.04	1.50
2171	DISCCART	579620.90	4197164.50	99.99	434.73	1.50
2172	DISCCART	582870.90	4195764.50	36.42	45.28	1.50
2173	DISCCART	580270.90	4196289.50	178.16	239.60	1.50
2174	DISCCART	580120.90	4196339.50	167.34	239.60	1.50
2175	DISCCART	580320.90	4196239.50	161.62	239.60	1.50
2176	DISCCART	582570.90	4195464.50	41.32	41.32	1.50
2177	DISCCART	580570.90	4197664.50	55.22	434.73	1.50
2178	DISCCART	579620.90	4197214.50	102.92	434.73	1.50
2179	DISCCART	582770.90	4196864.50	33.24	33.24	1.50
2180	DISCCART	579670.90	4197014.50	111.77	434.73	1.50
2181	DISCCART	582370.90	4197264.50	34.21	41.78	1.50
2182	DISCCART	579895.90	4196714.50	141.10	239.60	1.50
2183	DISCCART	579670.90	4197364.50	89.66	452.04	1.50
2184	DISCCART	582270.90	4195364.50	43.64	198.92	1.50
2185	DISCCART	580370.90	4196214.50	157.61	239.60	1.50
2186	DISCCART	579945.90	4196689.50	153.57	239.60	1.50
2187	DISCCART	580420.90	4196189.50	154.44	239.60	1.50
2188	DISCCART	581770.90	4197464.50	34.85	36.58	1.50
2189	DISCCART	580470.90	4196164.50	154.26	239.60	1.50
2190	DISCCART	579970.90	4196464.50	154.51	239.60	1.50
2191	DISCCART	579870.90	4196714.50	136.60	239.60	1.50
2192	DISCCART	582170.90	4197364.50	43.42	43.42	1.50
2193	DISCCART	581370.90	4197564.50	38.61	239.60	1.50
2194	DISCCART	579945.90	4196514.50	150.82	239.60	1.50
2195	DISCCART	580720.90	4195964.50	146.08	239.60	1.50
2196	DISCCART	582770.90	4195564.50	40.17	44.59	1.50
2197	DISCCART	580970.90	4195764.50	137.12	239.60	1.50
2198	DISCCART	582870.90	4196764.50	33.82	33.82	1.50
2199	DISCCART	580470.90	4197664.50	55.36	434.73	1.50
2200	DISCCART	580670.90	4197664.50	50.63	434.73	1.50
2201	DISCCART	580220.90	4196314.50	186.27	239.60	1.50
2202	DISCCART	580095.90	4196339.50	165.85	239.60	1.50
2203	DISCCART	579945.90	4196614.50	153.55	239.60	1.50
2204	DISCCART	579620.90	4197264.50	98.29	437.57	1.50
2205	DISCCART	581870.90	4195264.50	58.76	198.92	1.50
2206	DISCCART	580045.90	4196364.50	162.13	239.60	1.50
2207	DISCCART	582870.90	4195664.50	41.46	41.46	1.50
2208	DISCCART	580670.90	4196014.50	153.01	239.60	1.50

2209	DISCCART	579820.90	4196814.50	132.26	239.60	1.50
2210	DISCCART	579720.90	4197464.50	91.11	452.04	1.50
2211	DISCCART	581770.90	4195264.50	58.99	198.92	1.50
2212	DISCCART	582370.90	4195364.50	41.62	198.92	1.50
2213	DISCCART	580070.90	4196339.50	162.53	239.60	1.50
2214	DISCCART	581970.90	4195264.50	56.43	198.92	1.50
2215	DISCCART	582670.90	4195464.50	40.60	40.60	1.50
2216	DISCCART	580020.90	4196389.50	161.71	239.60	1.50
2217	DISCCART	579870.90	4197564.50	71.19	452.04	1.50
2218	DISCCART	580270.90	4196264.50	172.48	239.60	1.50
2219	DISCCART	582670.90	4197064.50	31.51	31.51	1.50
2220	DISCCART	582570.90	4197164.50	31.02	31.02	1.50
2221	DISCCART	579945.90	4196664.50	156.21	239.60	1.50
2222	DISCCART	579920.90	4196689.50	149.51	239.60	1.50
2223	DISCCART	579620.90	4197314.50	94.39	452.04	1.50
2224	DISCCART	579670.90	4197414.50	90.77	452.04	1.50
2225	DISCCART	581870.90	4197464.50	38.01	38.01	1.50
2226	DISCCART	580145.90	4196339.50	180.30	239.60	1.50
2227	DISCCART	581670.90	4195264.50	65.55	198.92	1.50
2228	DISCCART	580245.90	4196289.50	182.35	239.60	1.50
2229	DISCCART	580170.90	4196339.50	188.73	239.60	1.50
2230	DISCCART	579945.90	4196639.50	156.22	239.60	1.50
2231	DISCCART	579895.90	4196689.50	143.68	239.60	1.50
2232	DISCCART	580345.90	4196214.50	159.98	239.60	1.50
2233	DISCCART	579995.90	4196414.50	161.00	239.60	1.50
2234	DISCCART	582770.90	4196964.50	32.03	32.03	1.50
2235	DISCCART	580445.90	4196164.50	153.93	239.60	1.50
2236	DISCCART	582070.90	4195264.50	51.09	198.92	1.50
2237	DISCCART	582470.90	4195364.50	41.90	192.37	1.50
2238	DISCCART	580370.90	4197664.50	58.96	434.73	1.50
2239	DISCCART	581570.90	4195264.50	90.34	198.92	1.50
2240	DISCCART	580770.90	4197664.50	46.71	434.73	1.50
2241	DISCCART	582270.90	4197364.50	40.28	43.41	1.50
2242	DISCCART	582470.90	4197264.50	30.11	30.11	1.50
2243	DISCCART	581470.90	4197564.50	35.05	239.60	1.50
2244	DISCCART	579945.90	4196489.50	154.04	239.60	1.50
2245	DISCCART	579870.90	4196689.50	139.88	239.60	1.50
2246	DISCCART	580770.90	4195914.50	145.30	239.60	1.50
2247	DISCCART	582870.90	4195564.50	43.05	43.05	1.50
2248	DISCCART	582870.90	4196864.50	32.98	32.98	1.50
2249	DISCCART	580395.90	4196189.50	157.60	239.60	1.50
2250	DISCCART	579620.90	4197364.50	93.18	452.04	1.50
2251	DISCCART	580295.90	4196239.50	168.65	239.60	1.50
2252	DISCCART	582770.90	4195464.50	40.32	57.44	1.50
2253	DISCCART	581070.90	4197664.50	45.51	239.60	1.50
2254	DISCCART	581970.90	4197464.50	40.21	40.21	1.50
2255	DISCCART	580870.90	4197664.50	44.83	239.60	1.50
2256	DISCCART	580970.90	4197664.50	44.86	239.60	1.50
2257	DISCCART	582170.90	4195264.50	47.32	198.92	1.50
2258	DISCCART	580270.90	4197664.50	60.33	437.57	1.50
2259	DISCCART	579720.90	4196964.50	125.20	239.60	1.50
2260	DISCCART	582570.90	4195364.50	41.22	41.22	1.50
2261	DISCCART	579820.90	4196764.50	134.01	239.60	1.50
2262	DISCCART	580520.90	4196114.50	154.78	239.60	1.50
2263	DISCCART	579970.90	4196439.50	160.47	239.60	1.50
2264	DISCCART	579670.90	4197464.50	92.78	452.04	1.50
2265	DISCCART	580070.90	4197664.50	66.16	452.04	1.50
2266	DISCCART	580170.90	4197664.50	59.72	452.04	1.50
2267	DISCCART	581370.90	4195364.50	111.02	198.92	1.50
2268	DISCCART	581170.90	4197664.50	43.28	239.60	1.50
2269	DISCCART	581070.90	4195664.50	135.76	198.92	1.50
2270	DISCCART	579970.90	4197664.50	79.13	452.04	1.50
2271	DISCCART	579570.90	4197264.50	102.32	437.57	1.50
2272	DISCCART	579895.90	4196664.50	147.53	239.60	1.50
2273	DISCCART	581570.90	4197564.50	34.37	239.60	1.50
2274	DISCCART	579920.90	4196564.50	153.19	239.60	1.50
2275	DISCCART	579920.90	4196664.50	154.35	239.60	1.50
2276	DISCCART	579620.90	4197114.50	114.36	434.73	1.50
2277	DISCCART	582670.90	4197164.50	31.40	31.40	1.50

2278	DISCCART	582270.90	4195264.50	44.08	198.92	1.50
2279	DISCCART	582770.90	4197064.50	32.28	32.28	1.50
2280	DISCCART	580195.90	4196314.50	195.52	239.60	1.50
2281	DISCCART	579920.90	4196539.50	153.22	239.60	1.50
2282	DISCCART	579620.90	4197414.50	94.24	452.04	1.50
2283	DISCCART	579920.90	4196589.50	154.44	239.60	1.50
2284	DISCCART	582670.90	4195364.50	41.61	41.61	1.50
2285	DISCCART	580420.90	4196164.50	155.79	239.60	1.50
2286	DISCCART	580245.90	4196264.50	179.25	239.60	1.50
2287	DISCCART	580045.90	4196339.50	166.47	239.60	1.50
2288	DISCCART	582370.90	4197364.50	33.57	41.65	1.50
2289	DISCCART	579770.90	4197564.50	76.12	452.04	1.50
2290	DISCCART	580320.90	4196214.50	165.24	239.60	1.50
2291	DISCCART	580020.90	4196364.50	166.11	239.60	1.50
2292	DISCCART	582070.90	4197464.50	39.49	39.49	1.50
2293	DISCCART	579870.90	4196664.50	143.63	239.60	1.50
2294	DISCCART	582870.90	4195464.50	41.65	57.61	1.50
2295	DISCCART	580220.90	4196289.50	189.43	239.60	1.50
2296	DISCCART	582870.90	4196964.50	32.74	32.74	1.50
2297	DISCCART	582570.90	4197264.50	30.69	30.69	1.50
2298	DISCCART	579945.90	4196464.50	158.50	239.60	1.50
2299	DISCCART	579570.90	4197314.50	96.53	452.04	1.50
2300	DISCCART	580370.90	4196189.50	160.59	239.60	1.50
2301	DISCCART	580570.90	4196064.50	154.07	239.60	1.50
2302	DISCCART	579570.90	4197214.50	109.06	434.73	1.50
2303	DISCCART	582370.90	4195264.50	42.24	198.92	1.50
2304	DISCCART	581270.90	4197664.50	40.03	239.60	1.50
2305	DISCCART	579995.90	4196389.50	165.87	239.60	1.50
2306	DISCCART	580120.90	4196314.50	178.07	239.60	1.50
2307	DISCCART	581670.90	4197564.50	32.23	238.89	1.50
2308	DISCCART	579920.90	4196514.50	155.16	239.60	1.50
2309	DISCCART	579920.90	4196614.50	157.79	239.60	1.50
2310	DISCCART	581370.90	4195464.50	136.32	198.92	1.50
2311	DISCCART	581470.90	4195264.50	104.59	198.92	1.50
2312	DISCCART	582770.90	4195364.50	39.49	57.61	1.50
2313	DISCCART	580095.90	4196314.50	174.39	239.60	1.50
2314	DISCCART	579570.90	4197364.50	96.40	452.04	1.50
2315	DISCCART	581970.90	4195164.50	55.70	198.92	1.50
2316	DISCCART	580145.90	4196314.50	186.98	239.60	1.50
2317	DISCCART	579920.90	4196639.50	158.83	239.60	1.50
2318	DISCCART	579620.90	4197464.50	93.85	452.04	1.50
2319	DISCCART	581870.90	4195164.50	58.99	198.92	1.50
2320	DISCCART	582170.90	4197464.50	42.05	42.05	1.50
2321	DISCCART	580270.90	4196239.50	175.90	239.60	1.50
2322	DISCCART	582470.90	4195264.50	41.77	192.37	1.50
2323	DISCCART	580070.90	4196314.50	170.70	239.60	1.50
2324	DISCCART	580345.90	4196189.50	162.17	239.60	1.50
2325	DISCCART	580170.90	4196314.50	196.76	239.60	1.50
2326	DISCCART	579970.90	4196414.50	165.41	239.60	1.50
2327	DISCCART	582070.90	4195164.50	51.78	198.92	1.50
2328	DISCCART	582470.90	4197364.50	31.51	31.51	1.50
2329	DISCCART	581770.90	4195164.50	63.49	198.92	1.50
2330	DISCCART	582870.90	4195364.50	53.21	56.14	1.50
2331	DISCCART	582770.90	4197164.50	32.06	32.06	1.50
2332	DISCCART	579895.90	4196639.50	153.68	239.60	1.50
2333	DISCCART	579820.90	4196714.50	138.12	239.60	1.50
2334	DISCCART	581770.90	4197564.50	32.50	32.50	1.50
2335	DISCCART	582870.90	4197064.50	32.50	32.50	1.50
2336	DISCCART	580620.90	4196014.50	154.24	239.60	1.50
2337	DISCCART	579770.90	4196814.50	132.55	239.60	1.50
2338	DISCCART	582570.90	4195264.50	42.04	42.04	1.50
2339	DISCCART	581370.90	4197664.50	35.11	239.60	1.50
2340	DISCCART	580570.90	4197764.50	49.44	434.73	1.50
2341	DISCCART	579570.90	4197414.50	96.36	452.04	1.50
2342	DISCCART	582670.90	4197264.50	31.40	31.40	1.50
2343	DISCCART	579620.90	4197064.50	118.54	434.73	1.50
2344	DISCCART	579870.90	4197664.50	65.48	452.04	1.50
2345	DISCCART	579870.90	4196639.50	149.06	239.60	1.50
2346	DISCCART	582170.90	4195164.50	45.52	198.92	1.50

2347	DISCCART	582270.90	4197464.50	39.92	39.92	1.50
2348	DISCCART	580020.90	4196339.50	169.98	239.60	1.50
2349	DISCCART	580470.90	4196114.50	154.34	239.60	1.50
2350	DISCCART	579670.90	4197564.50	88.27	452.04	1.50
2351	DISCCART	580470.90	4197764.50	54.30	434.73	1.50
2352	DISCCART	580820.90	4195864.50	152.88	239.60	1.50
2353	DISCCART	579570.90	4197164.50	114.51	434.73	1.50
2354	DISCCART	580670.90	4197764.50	46.87	434.73	1.50
2355	DISCCART	579945.90	4196439.50	164.85	239.60	1.50
2356	DISCCART	582270.90	4195164.50	46.55	198.92	1.50
2357	DISCCART	582670.90	4195264.50	41.85	41.85	1.50
2358	DISCCART	580395.90	4196164.50	161.39	239.60	1.50
2359	DISCCART	580220.90	4196264.50	189.04	239.60	1.50
2360	DISCCART	581670.90	4195164.50	65.02	198.92	1.50
2361	DISCCART	581870.90	4197564.50	35.24	35.24	1.50
2362	DISCCART	580195.90	4196289.50	199.27	239.60	1.50
2363	DISCCART	580045.90	4196314.50	171.52	239.60	1.50
2364	DISCCART	579920.90	4196489.50	160.41	239.60	1.50
2365	DISCCART	581270.90	4195464.50	129.17	198.92	1.50
2366	DISCCART	580295.90	4196214.50	173.76	239.60	1.50
2367	DISCCART	579995.90	4196364.50	170.57	239.60	1.50
2368	DISCCART	579895.90	4196614.50	157.36	239.60	1.50
2369	DISCCART	580320.90	4196189.50	165.97	239.60	1.50
2370	DISCCART	579570.90	4197464.50	94.56	452.04	1.50
2371	DISCCART	582570.90	4197364.50	30.36	30.36	1.50
2372	DISCCART	579720.90	4195864.50	111.52	326.41	1.50
2373	DISCCART	581470.90	4197664.50	37.43	239.60	1.50
2374	DISCCART	580245.90	4196239.50	182.31	239.60	1.50
2375	DISCCART	579670.90	4195864.50	112.20	326.41	1.50
2376	DISCCART	580670.90	4195964.50	154.30	239.60	1.50
2377	DISCCART	579895.90	4196589.50	158.70	239.60	1.50
2378	DISCCART	579720.90	4195914.50	115.34	326.41	1.50
2379	DISCCART	582370.90	4195164.50	42.77	198.92	1.50
2380	DISCCART	582770.90	4195264.50	41.70	57.61	1.50
2381	DISCCART	580720.90	4195914.50	149.46	239.60	1.50
2382	DISCCART	581570.90	4195164.50	100.06	198.92	1.50
2383	DISCCART	582870.90	4197164.50	31.57	31.57	1.50
2384	DISCCART	579670.90	4195914.50	115.43	326.41	1.50
2385	DISCCART	579970.90	4196389.50	170.93	239.60	1.50
2386	DISCCART	582770.90	4197264.50	31.45	31.45	1.50
2387	DISCCART	581970.90	4197564.50	36.22	36.22	1.50
2388	DISCCART	580370.90	4197764.50	55.98	436.72	1.50
2389	DISCCART	580770.90	4197764.50	43.58	434.73	1.50
2390	DISCCART	582370.90	4197464.50	31.61	31.61	1.50
2391	DISCCART	579870.90	4196614.50	154.03	239.60	1.50
2392	DISCCART	582870.90	4195264.50	54.43	56.36	1.50
2393	DISCCART	582470.90	4195164.50	42.21	192.37	1.50
2394	DISCCART	579895.90	4196564.50	160.61	239.60	1.50
2395	DISCCART	579770.90	4197664.50	65.98	452.04	1.50
2396	DISCCART	581070.90	4197764.50	43.80	239.60	1.50
2397	DISCCART	581170.90	4197764.50	42.76	239.60	1.50
2398	DISCCART	580170.90	4196289.50	202.69	239.60	1.50
2399	DISCCART	579920.90	4196464.50	165.11	239.60	1.50
2400	DISCCART	579895.90	4196539.50	160.67	239.60	1.50
2401	DISCCART	581570.90	4197664.50	33.61	33.61	1.50
2402	DISCCART	580870.90	4197764.50	42.96	239.60	1.50
2403	DISCCART	580370.90	4196164.50	165.40	239.60	1.50
2404	DISCCART	582670.90	4197364.50	30.67	30.67	1.50
2405	DISCCART	582070.90	4197564.50	39.81	39.81	1.50
2406	DISCCART	580970.90	4197764.50	43.50	239.60	1.50
2407	DISCCART	580120.90	4196289.50	188.51	239.60	1.50
2408	DISCCART	580145.90	4196289.50	195.65	239.60	1.50
2409	DISCCART	579945.90	4196414.50	170.23	239.60	1.50
2410	DISCCART	580020.90	4196314.50	173.83	239.60	1.50
2411	DISCCART	579620.90	4195914.50	116.20	326.41	1.50
2412	DISCCART	580520.90	4196064.50	155.34	239.60	1.50
2413	DISCCART	582570.90	4195164.50	42.20	42.20	1.50
2414	DISCCART	579470.90	4195964.50	110.68	340.58	1.50
2415	DISCCART	580070.90	4197764.50	58.73	452.04	1.50

2416	DISCCART	580270.90	4197764.50	54.99	452.04	1.50
2417	DISCCART	580295.90	4196189.50	171.31	239.60	1.50
2418	DISCCART	579895.90	4196514.50	161.15	239.60	1.50
2419	DISCCART	581970.90	4195064.50	52.98	198.92	1.50
2420	DISCCART	582470.90	4197464.50	35.11	35.11	1.50
2421	DISCCART	580170.90	4197764.50	57.22	452.04	1.50
2422	DISCCART	579770.90	4195864.50	112.85	326.41	1.50
2423	DISCCART	582070.90	4195064.50	48.63	198.92	1.50
2424	DISCCART	581270.90	4197764.50	39.58	239.60	1.50
2425	DISCCART	580095.90	4196289.50	185.06	239.60	1.50
2426	DISCCART	579995.90	4196339.50	174.53	239.60	1.50
2427	DISCCART	582170.90	4195064.50	46.68	198.92	1.50
2428	DISCCART	580270.90	4196214.50	181.74	239.60	1.50
2429	DISCCART	579570.90	4197114.50	119.91	434.73	1.50
2430	DISCCART	581870.90	4195064.50	56.77	198.92	1.50
2431	DISCCART	579470.90	4197364.50	101.91	452.04	1.50
2432	DISCCART	580220.90	4196239.50	189.95	239.60	1.50
2433	DISCCART	579970.90	4197764.50	58.33	452.04	1.50
2434	DISCCART	580070.90	4196289.50	181.39	239.60	1.50
2435	DISCCART	582870.90	4197264.50	31.23	31.23	1.50
2436	DISCCART	581670.90	4197664.50	32.04	32.04	1.50
2437	DISCCART	580195.90	4196264.50	201.34	239.60	1.50
2438	DISCCART	579870.90	4196589.50	159.13	239.60	1.50
2439	DISCCART	582170.90	4197564.50	40.90	40.90	1.50
2440	DISCCART	580345.90	4196164.50	167.37	239.60	1.50
2441	DISCCART	582270.90	4195064.50	45.20	198.92	1.50
2442	DISCCART	582670.90	4195164.50	35.80	53.07	1.50
2443	DISCCART	579720.90	4196914.50	139.25	239.60	1.50
2444	DISCCART	581170.90	4195564.50	146.83	198.92	1.50
2445	DISCCART	579770.90	4195914.50	117.53	326.41	1.50
2446	DISCCART	579720.90	4195964.50	120.56	326.41	1.50
2447	DISCCART	579570.90	4197564.50	84.73	452.04	1.50
2448	DISCCART	581770.90	4195064.50	62.86	198.92	1.50
2449	DISCCART	579470.90	4195864.50	112.21	337.91	1.50
2450	DISCCART	579970.90	4196364.50	176.86	239.60	1.50
2451	DISCCART	579920.90	4196439.50	169.98	239.60	1.50
2452	DISCCART	582770.90	4195164.50	42.02	53.23	1.50
2453	DISCCART	582770.90	4197364.50	31.22	31.22	1.50
2454	DISCCART	581370.90	4197764.50	36.02	239.60	1.50
2455	DISCCART	580570.90	4196014.50	155.82	239.60	1.50
2456	DISCCART	582370.90	4195064.50	42.65	192.37	1.50
2457	DISCCART	582570.90	4197464.50	30.02	30.02	1.50
2458	DISCCART	579870.90	4197764.50	63.67	452.04	1.50
2459	DISCCART	580045.90	4196289.50	180.16	239.60	1.50
2460	DISCCART	579820.90	4195914.50	117.59	326.41	1.50
2461	DISCCART	580320.90	4196164.50	168.90	239.60	1.50
2462	DISCCART	579670.90	4195964.50	120.64	326.41	1.50
2463	DISCCART	579470.90	4195764.50	109.72	337.91	1.50
2464	DISCCART	581770.90	4197664.50	31.37	31.37	1.50
2465	DISCCART	580420.90	4196114.50	159.81	239.60	1.50
2466	DISCCART	579370.90	4195764.50	103.54	340.58	1.50
2467	DISCCART	582270.90	4197564.50	38.67	38.67	1.50
2468	DISCCART	579670.90	4197664.50	72.26	452.04	1.50
2469	DISCCART	582870.90	4195164.50	46.09	56.41	1.50
2470	DISCCART	579670.90	4195764.50	107.67	326.41	1.50
2471	DISCCART	580570.90	4197864.50	49.45	434.73	1.50
2472	DISCCART	580270.90	4196189.50	177.81	239.60	1.50
2473	DISCCART	580245.90	4196214.50	187.39	239.60	1.50
2474	DISCCART	579945.90	4196389.50	176.32	239.60	1.50
2475	DISCCART	579895.90	4196489.50	166.95	239.60	1.50
2476	DISCCART	579820.90	4196664.50	150.40	239.60	1.50
2477	DISCCART	582470.90	4195064.50	42.71	192.37	1.50
2478	DISCCART	579720.90	4196864.50	137.73	239.60	1.50
2479	DISCCART	579470.90	4197464.50	98.68	452.04	1.50
2480	DISCCART	580620.90	4195964.50	155.31	239.60	1.50
2481	DISCCART	579370.90	4195864.50	107.13	340.58	1.50
2482	DISCCART	581870.90	4197664.50	32.64	34.79	1.50
2483	DISCCART	579670.90	4196964.50	137.06	239.60	1.50
2484	DISCCART	580470.90	4197864.50	51.10	434.73	1.50

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2485	DISCCART	580670.90	4197864.50	44.26	434.73	1.50
2486	DISCCART	579995.90	4196314.50	179.27	239.60	1.50
2487	DISCCART	579870.90	4196564.50	165.22	239.60	1.50
2488	DISCCART	579770.90	4196764.50	143.98	239.60	1.50
2489	DISCCART	579620.90	4197014.50	130.59	239.60	1.50
2490	DISCCART	582570.90	4195064.50	42.81	42.81	1.50
2491	DISCCART	582670.90	4197464.50	30.48	30.48	1.50
2492	DISCCART	581470.90	4197764.50	34.57	34.57	1.50
2493	DISCCART	580295.90	4196164.50	172.11	239.60	1.50
2494	DISCCART	582870.90	4197364.50	30.67	30.67	1.50
2495	DISCCART	579770.90	4197764.50	71.07	452.04	1.50
2496	DISCCART	580170.90	4196264.50	210.45	239.60	1.50
2497	DISCCART	582370.90	4197564.50	31.65	38.95	1.50
2498	DISCCART	579720.90	4196814.50	137.28	239.60	1.50
2499	DISCCART	581670.90	4195064.50	62.80	198.92	1.50
2500	DISCCART	579720.90	4196014.50	126.12	326.41	1.50
2501	DISCCART	580195.90	4196239.50	201.72	239.60	1.50
2502	DISCCART	580020.90	4196289.50	182.20	239.60	1.50
2503	DISCCART	580470.90	4196064.50	155.59	239.60	1.50
2504	DISCCART	579820.90	4195864.50	115.57	326.41	1.50
2505	DISCCART	580770.90	4195864.50	160.59	239.60	1.50
2506	DISCCART	582070.90	4194964.50	51.23	198.92	1.50
2507	DISCCART	582670.90	4195064.50	42.14	42.14	1.50
2508	DISCCART	581970.90	4197664.50	34.38	35.41	1.50
2509	DISCCART	582170.90	4194964.50	46.92	198.92	1.50
2510	DISCCART	579470.90	4195664.50	101.06	340.58	1.50
2511	DISCCART	579620.90	4195964.50	121.71	326.41	1.50
2512	DISCCART	580145.90	4196264.50	207.62	239.60	1.50
2513	DISCCART	582270.90	4194964.50	46.81	198.42	1.50
2514	DISCCART	579920.90	4196414.50	177.77	239.60	1.50
2515	DISCCART	582770.90	4195064.50	48.05	53.94	1.50
2516	DISCCART	579370.90	4195664.50	100.43	340.58	1.50
2517	DISCCART	579370.90	4195964.50	108.05	340.58	1.50
2518	DISCCART	582470.90	4197564.50	35.21	35.21	1.50
2519	DISCCART	580770.90	4197864.50	44.07	434.73	1.50
2520	DISCCART	580220.90	4196214.50	194.57	239.60	1.50
2521	DISCCART	579870.90	4196539.50	168.66	239.60	1.50
2522	DISCCART	579570.90	4195964.50	120.48	326.41	1.50
2523	DISCCART	581970.90	4194964.50	51.56	198.92	1.50
2524	DISCCART	579570.90	4197664.50	83.96	452.04	1.50
2525	DISCCART	581570.90	4197764.50	34.89	34.89	1.50
2526	DISCCART	580245.90	4196189.50	184.79	239.60	1.50
2527	DISCCART	580120.90	4196264.50	202.23	239.60	1.50
2528	DISCCART	579970.90	4196339.50	183.77	239.60	1.50
2529	DISCCART	582770.90	4197464.50	30.35	30.35	1.50
2530	DISCCART	580370.90	4197864.50	51.98	452.04	1.50
2531	DISCCART	580095.90	4196264.50	196.31	239.60	1.50
2532	DISCCART	579895.90	4196464.50	173.58	239.60	1.50
2533	DISCCART	579470.90	4197564.50	94.95	452.04	1.50
2534	DISCCART	582370.90	4194964.50	43.16	192.37	1.50
2535	DISCCART	582070.90	4197664.50	35.41	35.41	1.50
2536	DISCCART	580070.90	4196264.50	191.60	239.60	1.50
2537	DISCCART	581570.90	4195064.50	82.18	198.92	1.50
2538	DISCCART	582870.90	4195064.50	51.48	53.00	1.50
2539	DISCCART	580270.90	4196164.50	177.32	239.60	1.50
2540	DISCCART	579870.90	4196514.50	169.52	239.60	1.50
2541	DISCCART	581170.90	4197864.50	39.11	239.60	1.50
2542	DISCCART	579570.90	4196014.50	121.99	326.41	1.50
2543	DISCCART	579945.90	4196364.50	184.34	239.60	1.50
2544	DISCCART	582470.90	4194964.50	43.16	43.16	1.50
2545	DISCCART	579970.90	4197864.50	62.82	452.04	1.50
2546	DISCCART	581070.90	4197864.50	42.02	239.60	1.50
2547	DISCCART	581270.90	4197864.50	35.95	238.89	1.50
2548	DISCCART	581870.90	4194964.50	54.60	198.92	1.50
2549	DISCCART	579670.90	4197764.50	76.20	452.04	1.50
2550	DISCCART	580870.90	4197864.50	40.84	434.73	1.50
2551	DISCCART	579570.90	4197064.50	130.09	434.73	1.50
2552	DISCCART	582570.90	4197564.50	29.07	33.64	1.50
2553	DISCCART	580070.90	4197864.50	58.98	452.04	1.50

2554	DISCCART	580270.90	4197864.50	55.59	452.04	1.50
2555	DISCCART	579995.90	4196289.50	184.13	239.60	1.50
2556	DISCCART	580670.90	4195914.50	159.67	239.60	1.50
2557	DISCCART	580520.90	4196014.50	155.97	239.60	1.50
2558	DISCCART	581070.90	4195564.50	138.97	198.92	1.50
2559	DISCCART	582170.90	4197664.50	37.55	37.55	1.50
2560	DISCCART	581670.90	4197764.50	32.20	32.20	1.50
2561	DISCCART	580970.90	4197864.50	40.13	239.60	1.50
2562	DISCCART	579570.90	4195914.50	120.80	326.41	1.50
2563	DISCCART	580170.90	4197864.50	57.38	452.04	1.50
2564	DISCCART	579770.90	4196714.50	148.67	239.60	1.50
2565	DISCCART	582570.90	4194964.50	43.57	43.57	1.50
2566	DISCCART	582870.90	4197464.50	30.09	30.09	1.50
2567	DISCCART	581370.90	4197864.50	36.93	36.93	1.50
2568	DISCCART	580045.90	4196264.50	190.97	239.60	1.50
2569	DISCCART	579870.90	4196489.50	171.76	239.60	1.50
2570	DISCCART	579870.90	4197864.50	64.10	452.04	1.50
2571	DISCCART	579895.90	4196439.50	178.06	239.60	1.50
2572	DISCCART	579770.90	4195764.50	109.95	326.41	1.50
2573	DISCCART	579820.90	4196614.50	162.35	239.60	1.50
2574	DISCCART	579270.90	4195764.50	104.41	340.58	1.50
2575	DISCCART	582670.90	4194964.50	44.02	44.02	1.50
2576	DISCCART	581270.90	4195364.50	130.00	198.92	1.50
2577	DISCCART	579270.90	4195664.50	103.14	340.58	1.50
2578	DISCCART	579370.90	4197464.50	103.95	452.04	1.50
2579	DISCCART	580170.90	4196239.50	216.73	239.60	1.50
2580	DISCCART	581770.90	4194964.50	60.58	198.92	1.50
2581	DISCCART	582670.90	4197564.50	30.20	30.20	1.50
2582	DISCCART	582270.90	4197664.50	35.17	35.17	1.50
2583	DISCCART	581770.90	4197764.50	30.80	30.80	1.50
2584	DISCCART	579920.90	4196389.50	185.86	239.60	1.50
2585	DISCCART	581170.90	4195464.50	136.49	198.92	1.50
2586	DISCCART	580245.90	4196164.50	183.49	239.60	1.50
2587	DISCCART	580195.90	4196214.50	205.12	239.60	1.50
2588	DISCCART	579620.90	4196014.50	126.77	326.41	1.50
2589	DISCCART	582170.90	4194864.50	51.05	198.92	1.50
2590	DISCCART	582770.90	4194964.50	44.99	53.42	1.50
2591	DISCCART	582270.90	4194864.50	47.00	192.37	1.50
2592	DISCCART	580870.90	4195764.50	160.54	198.92	1.50
2593	DISCCART	581470.90	4197864.50	34.10	37.02	1.50
2594	DISCCART	580570.90	4197964.50	46.28	434.73	1.50
2595	DISCCART	580220.90	4196189.50	196.55	239.60	1.50
2596	DISCCART	580720.90	4195864.50	160.62	239.60	1.50
2597	DISCCART	579670.90	4196014.50	129.87	326.41	1.50
2598	DISCCART	579620.90	4196964.50	137.39	239.60	1.50
2599	DISCCART	579670.90	4195664.50	100.78	337.89	1.50
2600	DISCCART	579470.90	4197664.50	86.15	452.04	1.50
2601	DISCCART	579570.90	4196064.50	125.51	326.41	1.50
2602	DISCCART	582370.90	4194864.50	44.19	192.37	1.50
2603	DISCCART	581870.90	4197764.50	30.65	30.65	1.50
2604	DISCCART	579970.90	4196314.50	192.81	239.60	1.50
2605	DISCCART	580570.90	4195964.50	158.66	239.60	1.50
2606	DISCCART	579620.90	4196064.50	129.25	326.41	1.50
2607	DISCCART	582070.90	4194864.50	50.26	198.92	1.50
2608	DISCCART	582770.90	4197564.50	30.44	30.44	1.50
2609	DISCCART	582370.90	4197664.50	29.84	32.38	1.50
2610	DISCCART	579770.90	4197864.50	63.25	452.04	1.50
2611	DISCCART	579770.90	4195964.50	129.44	326.41	1.50
2612	DISCCART	582870.90	4194964.50	45.44	53.44	1.50
2613	DISCCART	579570.90	4197764.50	78.11	452.04	1.50
2614	DISCCART	580670.90	4197964.50	42.86	434.73	1.50
2615	DISCCART	580020.90	4196264.50	194.63	239.60	1.50
2616	DISCCART	579670.90	4196914.50	145.40	239.60	1.50
2617	DISCCART	582470.90	4194864.50	43.77	43.77	1.50
2618	DISCCART	579370.90	4197364.50	113.46	452.04	1.50
2619	DISCCART	580145.90	4196239.50	220.74	239.60	1.50
2620	DISCCART	579895.90	4196414.50	184.45	239.60	1.50
2621	DISCCART	579720.90	4196064.50	135.85	326.41	1.50
2622	DISCCART	580370.90	4196114.50	173.79	239.60	1.50

2623	DISCCART	579270.90	4195864.50	106.49	340.58	1.50
2624	DISCCART	580470.90	4197964.50	47.34	437.57	1.50
2625	DISCCART	579945.90	4196339.50	193.70	239.60	1.50
2626	DISCCART	579870.90	4196464.50	179.02	239.60	1.50
2627	DISCCART	579770.90	4195664.50	100.27	326.41	1.50
2628	DISCCART	582470.90	4197664.50	32.84	33.86	1.50
2629	DISCCART	581970.90	4197764.50	33.84	33.84	1.50
2630	DISCCART	580095.90	4196239.50	207.57	239.60	1.50
2631	DISCCART	579720.90	4196764.50	147.24	239.60	1.50
2632	DISCCART	581970.90	4194864.50	53.75	198.92	1.50
2633	DISCCART	582570.90	4194864.50	43.92	43.92	1.50
2634	DISCCART	579370.90	4197564.50	95.20	452.04	1.50
2635	DISCCART	579770.90	4196664.50	156.29	239.60	1.50
2636	DISCCART	581570.90	4197864.50	32.19	32.92	1.50
2637	DISCCART	580070.90	4196239.50	202.97	239.60	1.50
2638	DISCCART	580120.90	4196239.50	217.00	239.60	1.50
2639	DISCCART	579820.90	4196564.50	170.77	239.60	1.50
2640	DISCCART	581670.90	4194964.50	63.89	198.92	1.50
2641	DISCCART	579270.90	4195564.50	101.62	340.58	1.50
2642	DISCCART	579970.90	4196289.50	192.94	239.60	1.50
2643	DISCCART	579370.90	4195564.50	99.19	340.58	1.50
2644	DISCCART	582870.90	4197564.50	29.78	29.78	1.50
2645	DISCCART	582070.90	4197764.50	39.66	39.66	1.50
2646	DISCCART	579995.90	4196264.50	194.77	239.60	1.50
2647	DISCCART	579920.90	4196364.50	193.58	239.60	1.50
2648	DISCCART	582670.90	4194864.50	43.79	43.79	1.50
2649	DISCCART	579570.90	4195664.50	109.86	337.91	1.50
2650	DISCCART	579470.90	4197264.50	131.74	434.73	1.50
2651	DISCCART	580770.90	4197964.50	40.63	434.73	1.50
2652	DISCCART	582570.90	4197664.50	30.73	33.73	1.50
2653	DISCCART	579670.90	4197864.50	67.56	452.04	1.50
2654	DISCCART	580220.90	4196164.50	194.22	239.60	1.50
2655	DISCCART	579970.90	4195764.50	115.66	326.41	1.50
2656	DISCCART	580370.90	4197964.50	47.75	452.04	1.50
2657	DISCCART	580170.90	4196214.50	221.23	239.60	1.50
2658	DISCCART	580420.90	4196064.50	167.18	239.60	1.50
2659	DISCCART	582770.90	4194864.50	43.99	43.99	1.50
2660	DISCCART	579870.90	4195664.50	105.59	326.41	1.50
2661	DISCCART	580970.90	4195664.50	158.52	198.92	1.50
2662	DISCCART	579570.90	4195764.50	118.49	326.41	1.50
2663	DISCCART	580045.90	4196239.50	202.76	239.60	1.50
2664	DISCCART	581870.90	4194864.50	55.68	198.92	1.50
2665	DISCCART	579870.90	4195764.50	113.87	326.41	1.50
2666	DISCCART	582170.90	4197764.50	40.80	40.80	1.50
2667	DISCCART	581670.90	4197864.50	32.07	32.07	1.50
2668	DISCCART	581170.90	4197964.50	39.69	39.69	1.50
2669	DISCCART	581270.90	4197964.50	32.83	36.81	1.50
2670	DISCCART	579870.90	4195914.50	127.34	326.41	1.50
2671	DISCCART	579870.90	4195964.50	133.59	322.92	1.50
2672	DISCCART	579670.90	4196864.50	146.54	239.60	1.50
2673	DISCCART	579270.90	4195964.50	108.70	340.58	1.50
2674	DISCCART	582670.90	4197664.50	29.12	29.12	1.50
2675	DISCCART	579970.90	4197964.50	60.79	452.04	1.50
2676	DISCCART	580870.90	4197964.50	41.09	434.73	1.50
2677	DISCCART	581370.90	4197964.50	33.29	33.29	1.50
2678	DISCCART	580195.90	4196189.50	210.34	239.60	1.50
2679	DISCCART	579670.90	4196064.50	136.77	326.41	1.50
2680	DISCCART	581470.90	4195064.50	107.73	198.92	1.50
2681	DISCCART	579470.90	4195564.50	99.77	340.58	1.50
2682	DISCCART	579970.90	4196264.50	194.30	239.60	1.50
2683	DISCCART	579870.90	4196439.50	186.39	239.60	1.50
2684	DISCCART	582270.90	4194764.50	47.13	192.37	1.50
2685	DISCCART	582370.90	4194764.50	45.81	45.81	1.50
2686	DISCCART	582870.90	4194864.50	44.71	60.25	1.50
2687	DISCCART	581570.90	4194964.50	86.08	198.92	1.50
2688	DISCCART	581170.90	4195164.50	96.57	198.92	1.50
2689	DISCCART	581370.90	4195264.50	134.13	198.92	1.50
2690	DISCCART	579370.90	4197664.50	95.80	452.04	1.50
2691	DISCCART	579870.90	4197964.50	59.57	452.04	1.50

2692	DISCCART	579770.90	4196114.50	146.30	239.60	1.50
2693	DISCCART	582170.90	4194764.50	52.95	192.37	1.50
2694	DISCCART	582470.90	4194764.50	47.31	47.31	1.50
2695	DISCCART	580070.90	4197964.50	59.61	452.04	1.50
2696	DISCCART	580270.90	4197964.50	52.78	452.04	1.50
2697	DISCCART	581070.90	4197964.50	37.73	238.89	1.50
2698	DISCCART	579895.90	4196389.50	194.27	239.60	1.50
2699	DISCCART	580620.90	4195914.50	165.59	239.60	1.50
2700	DISCCART	579920.90	4195964.50	135.26	239.60	1.50
2701	DISCCART	580470.90	4196014.50	162.08	239.60	1.50
2702	DISCCART	581370.90	4195064.50	97.40	198.92	1.50
2703	DISCCART	581470.90	4195164.50	128.50	192.37	1.50
2704	DISCCART	579170.90	4195664.50	105.63	340.58	1.50
2705	DISCCART	579970.90	4195664.50	111.49	326.41	1.50
2706	DISCCART	580070.90	4195664.50	111.91	326.32	1.50
2707	DISCCART	579470.90	4197764.50	75.19	452.04	1.50
2708	DISCCART	582270.90	4197764.50	34.62	34.62	1.50
2709	DISCCART	580970.90	4197964.50	38.39	239.60	1.50
2710	DISCCART	579570.90	4195564.50	98.71	337.91	1.50
2711	DISCCART	579570.90	4197864.50	79.92	452.04	1.50
2712	DISCCART	581770.90	4197864.50	29.40	29.40	1.50
2713	DISCCART	580170.90	4197964.50	58.01	452.04	1.50
2714	DISCCART	582570.90	4194764.50	44.63	44.63	1.50
2715	DISCCART	581470.90	4197964.50	33.82	33.82	1.50
2716	DISCCART	579945.90	4196314.50	203.04	239.60	1.50
2717	DISCCART	579820.90	4195964.50	135.17	326.41	1.50
2718	DISCCART	582770.90	4197664.50	29.32	29.32	1.50
2719	DISCCART	579770.90	4197964.50	64.77	452.04	1.50
2720	DISCCART	579620.90	4195864.50	125.75	326.41	1.50
2721	DISCCART	579945.90	4196264.50	192.17	239.60	1.50
2722	DISCCART	579945.90	4196289.50	198.88	239.60	1.50
2723	DISCCART	579870.90	4195864.50	123.79	326.41	1.50
2724	DISCCART	579970.90	4196014.50	145.03	239.60	1.50
2725	DISCCART	579670.90	4196114.50	140.71	326.41	1.50
2726	DISCCART	582070.90	4194764.50	52.43	198.92	1.50
2727	DISCCART	580020.90	4196239.50	206.21	239.60	1.50
2728	DISCCART	579620.90	4196114.50	136.53	326.41	1.50
2729	DISCCART	580320.90	4196114.50	183.81	239.60	1.50
2730	DISCCART	582670.90	4194764.50	44.33	44.33	1.50
2731	DISCCART	579670.90	4195564.50	97.53	337.91	1.50
2732	DISCCART	582370.90	4197764.50	31.75	31.75	1.50
2733	DISCCART	581870.90	4197864.50	34.49	34.49	1.50
2734	DISCCART	580570.90	4198064.50	43.91	437.57	1.50
2735	DISCCART	580145.90	4196214.50	232.09	239.60	1.50
2736	DISCCART	579920.90	4196339.50	202.89	239.60	1.50
2737	DISCCART	580670.90	4195864.50	164.58	239.60	1.50
2738	DISCCART	579620.90	4196914.50	144.45	239.60	1.50
2739	DISCCART	579270.90	4197564.50	103.66	452.04	1.50
2740	DISCCART	579670.90	4196814.50	148.61	239.60	1.50
2741	DISCCART	581770.90	4194864.50	56.79	198.92	1.50
2742	DISCCART	582870.90	4197664.50	29.87	29.87	1.50
2743	DISCCART	579945.90	4196239.50	189.41	239.60	1.50
2744	DISCCART	579870.90	4196414.50	192.68	239.60	1.50
2745	DISCCART	579720.90	4196114.50	145.66	326.41	1.50
2746	DISCCART	579820.90	4196114.50	152.92	239.60	1.50
2747	DISCCART	580970.90	4195264.50	102.64	239.60	1.50
2748	DISCCART	579170.90	4195764.50	106.49	340.58	1.50
2749	DISCCART	579270.90	4196064.50	111.34	340.58	1.50
2750	DISCCART	580670.90	4198064.50	42.28	434.73	1.50
2751	DISCCART	580095.90	4196214.50	219.91	239.60	1.50
2752	DISCCART	579920.90	4196239.50	184.75	239.60	1.50
2753	DISCCART	579770.90	4196014.50	141.13	326.41	1.50
2754	DISCCART	579820.90	4196514.50	181.21	239.60	1.50
2755	DISCCART	579570.90	4197014.50	144.92	229.99	1.50
2756	DISCCART	582770.90	4194764.50	44.06	44.06	1.50
2757	DISCCART	581970.90	4197864.50	37.28	37.28	1.50
2758	DISCCART	579920.90	4196264.50	190.29	239.60	1.50
2759	DISCCART	582470.90	4197764.50	29.30	29.30	1.50
2760	DISCCART	581570.90	4197964.50	30.79	30.79	1.50

2761	DISCCART	579945.90	4196214.50	185.82	239.60	1.50
2762	DISCCART	580070.90	4196214.50	215.16	239.60	1.50
2763	DISCCART	580120.90	4196214.50	230.10	239.60	1.50
2764	DISCCART	579970.90	4196239.50	197.99	239.60	1.50
2765	DISCCART	579995.90	4196239.50	204.92	239.60	1.50
2766	DISCCART	581070.90	4195164.50	92.13	239.60	1.50
2767	DISCCART	581270.90	4195164.50	106.98	198.92	1.50
2768	DISCCART	579970.90	4195564.50	106.90	326.41	1.50
2769	DISCCART	579470.90	4197164.50	136.44	434.73	1.50
2770	DISCCART	579670.90	4197964.50	72.41	452.04	1.50
2771	DISCCART	580470.90	4198064.50	44.73	452.04	1.50
2772	DISCCART	580195.90	4196164.50	209.57	239.60	1.50
2773	DISCCART	579920.90	4196214.50	181.44	239.60	1.50
2774	DISCCART	579970.90	4196214.50	192.47	239.60	1.50
2775	DISCCART	579570.90	4195864.50	127.13	326.41	1.50
2776	DISCCART	579945.90	4196189.50	181.61	239.60	1.50
2777	DISCCART	580170.90	4196189.50	225.78	239.60	1.50
2778	DISCCART	579895.90	4196214.50	177.54	239.60	1.50
2779	DISCCART	579770.90	4196614.50	171.48	239.60	1.50
2780	DISCCART	581970.90	4194764.50	53.03	198.92	1.50
2781	DISCCART	582870.90	4194764.50	45.37	45.37	1.50
2782	DISCCART	579370.90	4197764.50	91.03	452.04	1.50
2783	DISCCART	579895.90	4196189.50	173.70	239.60	1.50
2784	DISCCART	579895.90	4196239.50	182.10	239.60	1.50
2785	DISCCART	579895.90	4196264.50	187.05	239.60	1.50
2786	DISCCART	579920.90	4196289.50	198.41	239.60	1.50
2787	DISCCART	579820.90	4196164.50	159.85	239.60	1.50
2788	DISCCART	582070.90	4197864.50	38.74	38.74	1.50
2789	DISCCART	579870.90	4196164.50	166.86	239.60	1.50
2790	DISCCART	579870.90	4196189.50	170.25	239.60	1.50
2791	DISCCART	579920.90	4196189.50	178.62	239.60	1.50
2792	DISCCART	579920.90	4196314.50	205.27	239.60	1.50
2793	DISCCART	579895.90	4196364.50	204.42	239.60	1.50
2794	DISCCART	579920.90	4196014.50	147.09	239.60	1.50
2795	DISCCART	580870.90	4195664.50	148.65	239.60	1.50
2796	DISCCART	582570.90	4197764.50	32.18	33.34	1.50
2797	DISCCART	579895.90	4196164.50	170.46	239.60	1.50
2798	DISCCART	579970.90	4196189.50	188.36	239.60	1.50
2799	DISCCART	579870.90	4196214.50	174.72	239.60	1.50
2800	DISCCART	579895.90	4196289.50	192.66	239.60	1.50
2801	DISCCART	582370.90	4194664.50	48.42	48.42	1.50
2802	DISCCART	582470.90	4194664.50	48.44	48.44	1.50
2803	DISCCART	581470.90	4194964.50	82.95	198.92	1.50
2804	DISCCART	581270.90	4195064.50	85.18	198.92	1.50
2805	DISCCART	579270.90	4195464.50	100.02	340.58	1.50
2806	DISCCART	580070.90	4195764.50	122.51	239.60	1.50
2807	DISCCART	579470.90	4197864.50	81.32	452.04	1.50
2808	DISCCART	579870.90	4196239.50	179.08	239.60	1.50
2809	DISCCART	580070.90	4195564.50	106.29	326.41	1.50
2810	DISCCART	580770.90	4198064.50	39.77	434.73	1.50
2811	DISCCART	579920.90	4196164.50	175.15	239.60	1.50
2812	DISCCART	580045.90	4196214.50	215.70	239.60	1.50
2813	DISCCART	579970.90	4196064.50	159.81	239.60	1.50
2814	DISCCART	580270.90	4196114.50	191.02	239.60	1.50
2815	DISCCART	579770.90	4196164.50	156.15	239.60	1.50
2816	DISCCART	579720.90	4196714.50	159.72	239.60	1.50
2817	DISCCART	582270.90	4194664.50	47.67	192.37	1.50
2818	DISCCART	582570.90	4194664.50	46.85	46.85	1.50
2819	DISCCART	580870.90	4195264.50	102.45	239.60	1.50
2820	DISCCART	581670.90	4197964.50	28.88	28.88	1.50
2821	DISCCART	579945.90	4196164.50	180.16	239.60	1.50
2822	DISCCART	579870.90	4196264.50	183.81	239.60	1.50
2823	DISCCART	579895.90	4196314.50	199.41	239.60	1.50
2824	DISCCART	579870.90	4196389.50	199.17	239.60	1.50
2825	DISCCART	579920.90	4195914.50	134.36	239.60	1.50
2826	DISCCART	580520.90	4195964.50	167.62	239.60	1.50
2827	DISCCART	579720.90	4196164.50	151.51	239.60	1.50
2828	DISCCART	581670.90	4194864.50	65.68	198.92	1.50
2829	DISCCART	579170.90	4195564.50	112.17	340.58	1.50

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2830	DISCCART	579270.90	4197664.50	89.13	452.04	1.50
2831	DISCCART	582170.90	4197864.50	40.54	40.54	1.50
2832	DISCCART	579995.90	4196214.50	204.13	239.60	1.50
2833	DISCCART	580020.90	4196214.50	211.13	239.60	1.50
2834	DISCCART	579870.90	4196289.50	188.42	239.60	1.50
2835	DISCCART	579770.90	4196064.50	148.94	239.60	1.50
2836	DISCCART	579570.90	4196114.50	136.01	326.41	1.50
2837	DISCCART	579820.90	4196214.50	168.00	239.60	1.50
2838	DISCCART	582670.90	4194664.50	45.09	45.09	1.50
2839	DISCCART	582670.90	4197764.50	29.05	29.05	1.50
2840	DISCCART	580370.90	4198064.50	48.08	452.04	1.50
2841	DISCCART	579995.90	4196189.50	197.48	239.60	1.50
2842	DISCCART	579895.90	4196339.50	206.17	239.60	1.50
2843	DISCCART	579870.90	4196114.50	162.26	239.60	1.50
2844	DISCCART	579970.90	4196164.50	186.53	239.60	1.50
2845	DISCCART	579870.90	4196314.50	193.63	239.60	1.50
2846	DISCCART	579170.90	4195864.50	108.19	340.58	1.50
2847	DISCCART	581270.90	4198064.50	33.29	33.29	1.50
2848	DISCCART	581370.90	4198064.50	31.04	31.04	1.50
2849	DISCCART	579770.90	4196214.50	161.87	239.60	1.50
2850	DISCCART	582170.90	4194664.50	47.54	192.37	1.50
2851	DISCCART	582770.90	4194664.50	44.78	44.78	1.50
2852	DISCCART	580045.90	4196164.50	200.09	239.60	1.50
2853	DISCCART	580145.90	4196189.50	236.98	239.28	1.50
2854	DISCCART	580020.90	4196114.50	180.01	239.60	1.50
2855	DISCCART	581870.90	4194764.50	55.25	198.92	1.50
2856	DISCCART	579270.90	4197364.50	117.81	452.04	1.50
2857	DISCCART	582770.90	4197764.50	28.78	28.78	1.50
2858	DISCCART	582270.90	4197864.50	36.86	36.86	1.50
2859	DISCCART	579570.90	4197964.50	71.86	452.04	1.50
2860	DISCCART	581770.90	4197964.50	30.72	31.60	1.50
2861	DISCCART	579870.90	4198064.50	57.31	452.04	1.50
2862	DISCCART	581470.90	4198064.50	30.52	30.52	1.50
2863	DISCCART	580020.90	4196164.50	197.02	239.60	1.50
2864	DISCCART	580045.90	4196189.50	211.55	239.60	1.50
2865	DISCCART	580070.90	4196189.50	216.81	239.60	1.50
2866	DISCCART	580370.90	4196064.50	179.28	239.60	1.50
2867	DISCCART	580870.90	4198064.50	38.20	434.73	1.50
2868	DISCCART	581170.90	4198064.50	35.51	35.51	1.50
2869	DISCCART	579995.90	4196164.50	193.12	239.60	1.50
2870	DISCCART	580020.90	4196189.50	206.38	239.60	1.50
2871	DISCCART	579820.90	4196264.50	177.28	239.60	1.50
2872	DISCCART	579370.90	4195464.50	99.22	340.58	1.50
2873	DISCCART	579770.90	4198064.50	63.56	452.04	1.50
2874	DISCCART	579970.90	4198064.50	56.58	452.04	1.50
2875	DISCCART	580095.90	4196189.50	226.36	239.60	1.50
2876	DISCCART	579920.90	4195864.50	130.44	318.15	1.50
2877	DISCCART	579920.90	4196114.50	170.36	239.60	1.50
2878	DISCCART	582870.90	4194664.50	45.38	45.38	1.50
2879	DISCCART	580270.90	4198064.50	55.02	452.04	1.50
2880	DISCCART	579870.90	4196339.50	202.39	239.60	1.50
2881	DISCCART	579970.90	4196114.50	177.22	239.60	1.50
2882	DISCCART	582070.90	4194664.50	54.56	192.37	1.50
2883	DISCCART	579170.90	4195964.50	109.45	340.58	1.50
2884	DISCCART	582870.90	4197764.50	29.12	29.12	1.50
2885	DISCCART	580170.90	4196164.50	226.31	239.60	1.50
2886	DISCCART	580120.90	4196189.50	236.65	239.28	1.50
2887	DISCCART	579970.90	4195964.50	145.86	239.60	1.50
2888	DISCCART	579670.90	4196764.50	155.59	239.60	1.50
2889	DISCCART	579270.90	4197764.50	99.04	452.04	1.50
2890	DISCCART	579370.90	4197864.50	89.43	452.04	1.50
2891	DISCCART	582370.90	4197864.50	32.68	32.68	1.50
2892	DISCCART	581870.90	4197964.50	31.64	31.64	1.50
2893	DISCCART	580070.90	4198064.50	57.17	452.04	1.50
2894	DISCCART	580970.90	4198064.50	38.25	38.25	1.50
2895	DISCCART	581070.90	4198064.50	35.34	35.34	1.50
2896	DISCCART	580070.90	4196164.50	209.13	239.60	1.50
2897	DISCCART	579670.90	4196164.50	149.98	326.41	1.50
2898	DISCCART	579820.90	4196464.50	192.08	239.60	1.50

2899	DISCCART	581170.90	4195064.50	84.62	239.60	1.50
2900	DISCCART	579370.90	4197264.50	132.16	434.73	1.50
2901	DISCCART	581570.90	4198064.50	30.48	30.48	1.50
2902	DISCCART	579620.90	4196864.50	152.15	239.60	1.50
2903	DISCCART	580170.90	4198064.50	54.34	452.04	1.50
2904	DISCCART	580570.90	4198164.50	41.53	452.04	1.50
2905	DISCCART	579870.90	4196364.50	208.48	229.99	1.50
2906	DISCCART	580770.90	4195364.50	112.26	239.60	1.50
2907	DISCCART	582370.90	4194564.50	54.66	54.66	1.50
2908	DISCCART	582470.90	4194564.50	48.44	48.44	1.50
2909	DISCCART	582570.90	4194564.50	46.65	46.65	1.50
2910	DISCCART	581570.90	4194864.50	72.92	198.92	1.50
2911	DISCCART	579470.90	4196064.50	130.55	326.41	1.50
2912	DISCCART	582470.90	4197864.50	30.19	30.19	1.50
2913	DISCCART	579470.90	4197964.50	82.53	452.04	1.50
2914	DISCCART	581970.90	4197964.50	35.41	35.41	1.50
2915	DISCCART	580670.90	4198164.50	41.03	434.73	1.50
2916	DISCCART	580320.90	4196064.50	183.02	239.60	1.50
2917	DISCCART	581370.90	4194964.50	78.22	198.92	1.50
2918	DISCCART	580970.90	4195164.50	100.91	239.60	1.50
2919	DISCCART	581370.90	4195164.50	131.05	198.92	1.50
2920	DISCCART	579870.90	4195464.50	99.68	326.41	1.50
2921	DISCCART	580970.90	4195564.50	149.01	198.92	1.50
2922	DISCCART	579170.90	4196064.50	111.61	340.58	1.50
2923	DISCCART	579670.90	4198064.50	64.90	452.04	1.50
2924	DISCCART	579770.90	4196264.50	171.68	239.60	1.50
2925	DISCCART	579820.90	4196314.50	189.12	239.60	1.50
2926	DISCCART	582670.90	4194564.50	45.86	45.86	1.50
2927	DISCCART	580420.90	4196014.50	174.40	239.60	1.50
2928	DISCCART	579720.90	4196214.50	160.32	239.60	1.50
2929	DISCCART	580470.90	4198164.50	45.29	452.04	1.50
2930	DISCCART	579720.90	4196664.50	171.19	239.60	1.50
2931	DISCCART	582270.90	4194564.50	52.57	55.26	1.50
2932	DISCCART	582770.90	4194564.50	45.44	45.44	1.50
2933	DISCCART	581770.90	4194764.50	56.99	198.92	1.50
2934	DISCCART	579970.90	4195464.50	106.27	326.41	1.50
2935	DISCCART	580170.90	4195764.50	127.66	239.60	1.50
2936	DISCCART	582570.90	4197864.50	29.14	29.14	1.50
2937	DISCCART	582070.90	4197964.50	36.61	36.61	1.50
2938	DISCCART	581670.90	4198064.50	28.60	28.60	1.50
2939	DISCCART	580095.90	4196164.50	223.69	239.60	1.50
2940	DISCCART	580620.90	4195864.50	172.65	239.60	1.50
2941	DISCCART	580570.90	4195914.50	176.26	239.60	1.50
2942	DISCCART	581970.90	4194664.50	54.22	198.92	1.50
2943	DISCCART	579570.90	4195464.50	97.00	337.91	1.50
2944	DISCCART	580145.90	4196164.50	238.36	239.60	1.50
2945	DISCCART	580220.90	4196114.50	208.14	239.60	1.50
2946	DISCCART	579770.90	4196564.50	187.56	229.99	1.50
2947	DISCCART	579570.90	4196964.50	155.19	229.99	1.50
2948	DISCCART	582870.90	4194564.50	45.38	45.38	1.50
2949	DISCCART	579270.90	4197464.50	126.25	452.04	1.50
2950	DISCCART	579170.90	4197664.50	98.66	452.04	1.50
2951	DISCCART	580020.90	4196064.50	176.27	239.60	1.50
2952	DISCCART	579670.90	4195464.50	96.07	337.89	1.50
2953	DISCCART	582170.90	4197964.50	38.44	38.44	1.50
2954	DISCCART	580770.90	4198164.50	39.21	434.73	1.50
2955	DISCCART	582670.90	4197864.50	28.32	33.61	1.50
2956	DISCCART	580120.90	4196164.50	236.13	239.60	1.50
2957	DISCCART	580170.90	4195564.50	109.43	239.60	1.50
2958	DISCCART	579570.90	4198064.50	69.44	452.04	1.50
2959	DISCCART	580020.90	4196014.50	165.01	239.60	1.50
2960	DISCCART	579920.90	4196064.50	169.48	239.60	1.50
2961	DISCCART	579470.90	4195464.50	99.60	340.58	1.50
2962	DISCCART	579270.90	4197864.50	96.39	452.04	1.50
2963	DISCCART	580270.90	4196014.50	173.04	239.60	1.50
2964	DISCCART	580270.90	4196064.50	189.83	239.60	1.50
2965	DISCCART	579770.90	4196314.50	181.05	239.60	1.50
2966	DISCCART	582770.90	4197864.50	28.52	28.52	1.50
2967	DISCCART	579370.90	4197964.50	92.30	452.04	1.50

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2968	DISCCART	582270.90	4197964.50	37.55	38.09	1.50
2969	DISCCART	581770.90	4198064.50	29.01	29.01	1.50
2970	DISCCART	580370.90	4198164.50	46.71	452.04	1.50
2971	DISCCART	582170.90	4194564.50	48.52	192.37	1.50
2972	DISCCART	579370.90	4196064.50	125.59	337.91	1.50
2973	DISCCART	581370.90	4198164.50	30.65	30.65	1.50
2974	DISCCART	581470.90	4198164.50	29.57	29.57	1.50
2975	DISCCART	580470.90	4195964.50	173.34	239.60	1.50
2976	DISCCART	580320.90	4196014.50	175.09	239.60	1.50
2977	DISCCART	579720.90	4196264.50	168.49	239.60	1.50
2978	DISCCART	582870.90	4197864.50	28.91	28.91	1.50
2979	DISCCART	579770.90	4198164.50	60.88	452.04	1.50
2980	DISCCART	580870.90	4198164.50	37.51	434.73	1.50
2981	DISCCART	581270.90	4198164.50	31.98	31.98	1.50
2982	DISCCART	580070.90	4195864.50	142.97	239.60	1.50
2983	DISCCART	579820.90	4196064.50	163.61	239.60	1.50
2984	DISCCART	582570.90	4194464.50	46.47	46.47	1.50
2985	DISCCART	581270.90	4194964.50	77.46	198.92	1.50
2986	DISCCART	579170.90	4197764.50	107.92	452.04	1.50
2987	DISCCART	582370.90	4197964.50	34.34	34.34	1.50
2988	DISCCART	579870.90	4198164.50	56.16	452.04	1.50
2989	DISCCART	581570.90	4198164.50	29.36	29.36	1.50
2990	DISCCART	579820.90	4196414.50	205.54	229.99	1.50
2991	DISCCART	582470.90	4194464.50	47.35	47.35	1.50
2992	DISCCART	582670.90	4194464.50	42.18	46.69	1.50
2993	DISCCART	582770.90	4194464.50	45.93	45.93	1.50
2994	DISCCART	581670.90	4194764.50	64.29	198.92	1.50
2995	DISCCART	580770.90	4195764.50	182.12	190.55	1.50
2996	DISCCART	579470.90	4198064.50	81.62	452.04	1.50
2997	DISCCART	581870.90	4198064.50	33.03	33.03	1.50
2998	DISCCART	580370.90	4196014.50	178.77	239.60	1.50
2999	DISCCART	580070.90	4196114.50	207.01	239.60	1.50
3000	DISCCART	579820.90	4196364.50	205.23	229.99	1.50
3001	DISCCART	581870.90	4194664.50	54.45	198.92	1.50
3002	DISCCART	581470.90	4194864.50	70.20	198.92	1.50
3003	DISCCART	579770.90	4196514.50	194.68	229.99	1.50
3004	DISCCART	579620.90	4196814.50	159.44	229.99	1.50
3005	DISCCART	582870.90	4194464.50	46.27	46.27	1.50
3006	DISCCART	579270.90	4195364.50	100.93	340.58	1.50
3007	DISCCART	579670.90	4198164.50	63.62	452.04	1.50
3008	DISCCART	580270.90	4198164.50	51.61	452.04	1.50
3009	DISCCART	581170.90	4198164.50	34.03	34.03	1.50
3010	DISCCART	579720.90	4196614.50	182.96	229.99	1.50
3011	DISCCART	582370.90	4194464.50	49.01	53.58	1.50
3012	DISCCART	582470.90	4197964.50	32.54	32.54	1.50
3013	DISCCART	581970.90	4198064.50	35.46	35.46	1.50
3014	DISCCART	579970.90	4198164.50	53.21	452.04	1.50
3015	DISCCART	580970.90	4198164.50	35.78	434.73	1.50
3016	DISCCART	580570.90	4198264.50	40.36	452.04	1.50
3017	DISCCART	579870.90	4196014.50	161.39	239.60	1.50
3018	DISCCART	582070.90	4194564.50	48.22	192.37	1.50
3019	DISCCART	581270.90	4195264.50	145.11	198.92	1.50
3020	DISCCART	579770.90	4195464.50	103.97	326.41	1.50
3021	DISCCART	580170.90	4195664.50	122.34	239.60	1.50
3022	DISCCART	579170.90	4196164.50	116.17	340.58	1.50
3023	DISCCART	579270.90	4196164.50	121.73	340.58	1.50
3024	DISCCART	581070.90	4198164.50	35.40	35.40	1.50
3025	DISCCART	580670.90	4198264.50	39.84	437.34	1.50
3026	DISCCART	579870.90	4196064.50	172.22	239.60	1.50
3027	DISCCART	579670.90	4196214.50	161.42	239.60	1.50
3028	DISCCART	579770.90	4195564.50	111.22	326.41	1.50
3029	DISCCART	579870.90	4195564.50	116.13	326.41	1.50
3030	DISCCART	579070.90	4195764.50	112.26	340.58	1.50
3031	DISCCART	579070.90	4195864.50	110.23	340.58	1.50
3032	DISCCART	579070.90	4195964.50	111.13	340.58	1.50
3033	DISCCART	580070.90	4198164.50	55.96	452.04	1.50
3034	DISCCART	581670.90	4198164.50	27.89	27.89	1.50
3035	DISCCART	580270.90	4195964.50	166.19	239.60	1.50
3036	DISCCART	580170.90	4196114.50	224.25	239.60	1.50

3037	DISCCART	579620.90	4196164.50	154.00	326.41	1.50
3038	DISCCART	579670.90	4196714.50	170.46	229.99	1.50
3039	DISCCART	581170.90	4194964.50	86.15	198.92	1.50
3040	DISCCART	581070.90	4195064.50	102.53	198.92	1.50
3041	DISCCART	580170.90	4198164.50	52.28	452.04	1.50
3042	DISCCART	579970.90	4195864.50	142.78	239.60	1.50
3043	DISCCART	580070.90	4196064.50	193.50	239.60	1.50
3044	DISCCART	579720.90	4196314.50	176.54	239.60	1.50
3045	DISCCART	579570.90	4196914.50	160.38	229.99	1.50
3046	DISCCART	582270.90	4194464.50	52.53	53.70	1.50
3047	DISCCART	579170.90	4197864.50	101.51	452.04	1.50
3048	DISCCART	579270.90	4197964.50	95.54	452.04	1.50
3049	DISCCART	582570.90	4197964.50	26.18	26.18	1.50
3050	DISCCART	582070.90	4198064.50	34.56	34.56	1.50
3051	DISCCART	580470.90	4198264.50	42.31	452.04	1.50
3052	DISCCART	580670.90	4195364.50	110.08	239.60	1.50
3053	DISCCART	579820.90	4196014.50	161.20	239.60	1.50
3054	DISCCART	579770.90	4196364.50	194.53	239.60	1.50
3055	DISCCART	581070.90	4195264.50	121.86	198.92	1.50
3056	DISCCART	579370.90	4195364.50	98.85	340.58	1.50
3057	DISCCART	579870.90	4195364.50	96.29	326.41	1.50
3058	DISCCART	579170.90	4196264.50	116.43	432.78	1.50
3059	DISCCART	579170.90	4197564.50	123.80	452.04	1.50
3060	DISCCART	582670.90	4197964.50	33.07	33.07	1.50
3061	DISCCART	582170.90	4198064.50	36.65	36.65	1.50
3062	DISCCART	580570.90	4195864.50	175.88	239.60	1.50
3063	DISCCART	580520.90	4195914.50	177.97	239.60	1.50
3064	DISCCART	579570.90	4198164.50	65.09	452.04	1.50
3065	DISCCART	581770.90	4198164.50	30.19	30.19	1.50
3066	DISCCART	580770.90	4198264.50	38.82	434.73	1.50
3067	DISCCART	580320.90	4195964.50	169.21	239.60	1.50
3068	DISCCART	581770.90	4194664.50	63.49	198.92	1.50
3069	DISCCART	580870.90	4195164.50	112.45	239.60	1.50
3070	DISCCART	580770.90	4195264.50	112.89	239.60	1.50
3071	DISCCART	579770.90	4195364.50	96.41	326.41	1.50
3072	DISCCART	579070.90	4196064.50	113.25	432.78	1.50
3073	DISCCART	580120.90	4195914.50	159.22	239.60	1.50
3074	DISCCART	582670.90	4194364.50	45.79	45.79	1.50
3075	DISCCART	582770.90	4194364.50	46.37	46.37	1.50
3076	DISCCART	581370.90	4194864.50	74.06	198.92	1.50
3077	DISCCART	582770.90	4197964.50	28.37	28.37	1.50
3078	DISCCART	582270.90	4198064.50	36.42	36.42	1.50
3079	DISCCART	580220.90	4196064.50	206.13	239.60	1.50
3080	DISCCART	580120.90	4196114.50	229.90	239.60	1.50
3081	DISCCART	582570.90	4194364.50	46.65	46.65	1.50
3082	DISCCART	582870.90	4194364.50	46.81	46.81	1.50
3083	DISCCART	582170.90	4194464.50	56.07	56.07	1.50
3084	DISCCART	581970.90	4194564.50	51.10	198.92	1.50
3085	DISCCART	579370.90	4198064.50	71.12	452.04	1.50
3086	DISCCART	580020.90	4195964.50	166.31	239.60	1.50
3087	DISCCART	581570.90	4194764.50	61.39	198.92	1.50
3088	DISCCART	579470.90	4197064.50	157.99	229.99	1.50
3089	DISCCART	582870.90	4197964.50	29.69	29.69	1.50
3090	DISCCART	581470.90	4198264.50	28.18	28.18	1.50
3091	DISCCART	580070.90	4196014.50	184.22	239.60	1.50
3092	DISCCART	579720.90	4196564.50	193.25	229.99	1.50
3093	DISCCART	582470.90	4194364.50	47.15	47.15	1.50
3094	DISCCART	579470.90	4195364.50	95.20	340.58	1.50
3095	DISCCART	579470.90	4198164.50	77.26	452.04	1.50
3096	DISCCART	581870.90	4198164.50	31.73	31.73	1.50
3097	DISCCART	580370.90	4198264.50	46.82	452.04	1.50
3098	DISCCART	581570.90	4198264.50	28.05	28.05	1.50
3099	DISCCART	580270.90	4195914.50	160.11	239.60	1.50
3100	DISCCART	580220.90	4196014.50	189.40	239.60	1.50
3101	DISCCART	579670.90	4195364.50	97.49	326.41	1.50
3102	DISCCART	580870.90	4195364.50	127.41	239.60	1.50
3103	DISCCART	580770.90	4195664.50	161.18	198.92	1.50
3104	DISCCART	582370.90	4198064.50	32.89	32.89	1.50
3105	DISCCART	581370.90	4198264.50	29.46	29.46	1.50

3106	DISCCART	580320.90	4195914.50	160.17	239.60	1.50
3107	DISCCART	579620.90	4196764.50	167.42	229.99	1.50
3108	DISCCART	579070.90	4197764.50	111.85	452.04	1.50
3109	DISCCART	579770.90	4198264.50	59.09	452.04	1.50
3110	DISCCART	580870.90	4198264.50	37.23	434.73	1.50
3111	DISCCART	580020.90	4195864.50	149.91	239.60	1.50
3112	DISCCART	580220.90	4195964.50	175.87	239.60	1.50
3113	DISCCART	580420.90	4195964.50	179.60	239.60	1.50
3114	DISCCART	579720.90	4196364.50	187.75	239.60	1.50
3115	DISCCART	579570.90	4195364.50	94.55	337.91	1.50
3116	DISCCART	579170.90	4197964.50	92.29	452.04	1.50
3117	DISCCART	579670.90	4198264.50	61.45	452.04	1.50
3118	DISCCART	581670.90	4198264.50	27.31	27.31	1.50
3119	DISCCART	579070.90	4197864.50	100.17	452.04	1.50
3120	DISCCART	582470.90	4198064.50	30.58	30.58	1.50
3121	DISCCART	581970.90	4198164.50	33.92	33.92	1.50
3122	DISCCART	579870.90	4198264.50	56.85	452.04	1.50
3123	DISCCART	581270.90	4198264.50	30.62	30.62	1.50
3124	DISCCART	580220.90	4195864.50	152.95	239.60	1.50
3125	DISCCART	579570.90	4196864.50	164.34	229.99	1.50
3126	DISCCART	582370.90	4194364.50	48.20	48.20	1.50
3127	DISCCART	581270.90	4194864.50	84.59	198.92	1.50
3128	DISCCART	579270.90	4198064.50	82.22	452.04	1.50
3129	DISCCART	580570.90	4198364.50	39.30	452.04	1.50
3130	DISCCART	580120.90	4195864.50	155.55	239.60	1.50
3131	DISCCART	580520.90	4195864.50	172.17	239.60	1.50
3132	DISCCART	579670.90	4196664.50	183.28	229.99	1.50
3133	DISCCART	579170.90	4195464.50	120.93	340.58	1.50
3134	DISCCART	579070.90	4196164.50	114.84	432.78	1.50
3135	DISCCART	580270.90	4198264.50	49.93	452.04	1.50
3136	DISCCART	580670.90	4198364.50	38.32	437.57	1.50
3137	DISCCART	580370.90	4195964.50	178.51	239.60	1.50
3138	DISCCART	581870.90	4194564.50	60.26	198.42	1.50
3139	DISCCART	582570.90	4198064.50	24.47	31.25	1.50
3140	DISCCART	582070.90	4198164.50	34.23	34.23	1.50
3141	DISCCART	580970.90	4198264.50	35.20	434.73	1.50
3142	DISCCART	581170.90	4198264.50	32.36	32.36	1.50
3143	DISCCART	580220.90	4195914.50	166.51	239.60	1.50
3144	DISCCART	579770.90	4196464.50	211.42	229.99	1.50
3145	DISCCART	581670.90	4194664.50	64.20	198.92	1.50
3146	DISCCART	580670.90	4195764.50	179.27	190.55	1.50
3147	DISCCART	579370.90	4198164.50	99.88	452.04	1.50
3148	DISCCART	579970.90	4198264.50	52.66	452.04	1.50
3149	DISCCART	581770.90	4198264.50	27.50	27.50	1.50
3150	DISCCART	579970.90	4195914.50	159.68	239.60	1.50
3151	DISCCART	580470.90	4195914.50	178.44	239.60	1.50
3152	DISCCART	582070.90	4194464.50	48.49	192.37	1.50
3153	DISCCART	580070.90	4195464.50	115.61	318.15	1.50
3154	DISCCART	580270.90	4195564.50	113.94	239.60	1.50
3155	DISCCART	582670.90	4198064.50	28.44	28.44	1.50
3156	DISCCART	579570.90	4198264.50	60.85	452.04	1.50
3157	DISCCART	581070.90	4198264.50	33.20	33.20	1.50
3158	DISCCART	580470.90	4198364.50	41.83	452.04	1.50
3159	DISCCART	579770.90	4196414.50	211.81	229.99	1.50
3160	DISCCART	582270.90	4194364.50	50.43	54.75	1.50
3161	DISCCART	581470.90	4194764.50	67.51	198.92	1.50
3162	DISCCART	581070.90	4195464.50	170.24	198.92	1.50
3163	DISCCART	582170.90	4198164.50	34.71	34.71	1.50
3164	DISCCART	580370.90	4195914.50	167.50	239.60	1.50
3165	DISCCART	580170.90	4195964.50	182.75	239.60	1.50
3166	DISCCART	580120.90	4196064.50	219.46	239.60	1.50
3167	DISCCART	579570.90	4196164.50	157.06	326.41	1.50
3168	DISCCART	579670.90	4196264.50	177.40	239.60	1.50
3169	DISCCART	581170.90	4194864.50	88.62	198.92	1.50
3170	DISCCART	578970.90	4196064.50	111.96	432.78	1.50
3171	DISCCART	579270.90	4196464.50	135.42	337.91	1.50
3172	DISCCART	580070.90	4198264.50	51.88	452.04	1.50
3173	DISCCART	580170.90	4198264.50	51.06	452.04	1.50
3174	DISCCART	580770.90	4198364.50	37.62	434.73	1.50

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3175	DISCCART	580170.90	4196064.50	223.83	239.60	1.50
3176	DISCCART	582770.90	4198064.50	27.90	27.90	1.50
3177	DISCCART	582270.90	4198164.50	34.35	34.35	1.50
3178	DISCCART	580470.90	4195864.50	167.89	239.60	1.50
3179	DISCCART	579570.90	4196814.50	166.77	229.99	1.50
3180	DISCCART	581170.90	4195364.50	167.37	192.37	1.50
3181	DISCCART	579370.90	4197164.50	155.70	434.73	1.50
3182	DISCCART	579070.90	4197964.50	102.41	452.04	1.50
3183	DISCCART	581870.90	4198264.50	26.94	26.94	1.50
3184	DISCCART	580270.90	4195864.50	156.64	239.60	1.50
3185	DISCCART	580120.90	4195964.50	185.23	239.60	1.50
3186	DISCCART	579770.90	4195264.50	89.86	326.41	1.50
3187	DISCCART	580570.90	4195664.50	142.40	239.60	1.50
3188	DISCCART	580670.90	4195664.50	156.11	239.60	1.50
3189	DISCCART	579170.90	4197464.50	137.57	452.04	1.50
3190	DISCCART	579170.90	4198064.50	106.49	452.04	1.50
3191	DISCCART	582870.90	4198064.50	27.52	27.52	1.50
3192	DISCCART	579470.90	4198264.50	70.29	452.04	1.50
3193	DISCCART	580320.90	4195864.50	156.34	239.60	1.50
3194	DISCCART	580070.90	4195914.50	170.19	239.60	1.50
3195	DISCCART	579870.90	4195264.50	97.67	326.41	1.50
3196	DISCCART	581170.90	4195264.50	142.81	198.92	1.50
3197	DISCCART	580570.90	4195764.50	163.96	239.60	1.50
3198	DISCCART	578970.90	4195964.50	114.91	432.78	1.50
3199	DISCCART	579070.90	4196464.50	124.05	434.73	1.50
3200	DISCCART	579170.90	4197364.50	132.55	452.04	1.50
3201	DISCCART	579070.90	4197664.50	124.54	452.04	1.50
3202	DISCCART	582370.90	4198164.50	30.45	30.45	1.50
3203	DISCCART	581570.90	4198364.50	26.97	26.97	1.50
3204	DISCCART	579620.90	4196214.50	168.92	239.60	1.50
3205	DISCCART	582170.90	4194364.50	55.40	55.40	1.50
3206	DISCCART	581970.90	4194464.50	57.40	192.37	1.50
3207	DISCCART	579070.90	4196264.50	117.48	434.73	1.50
3208	DISCCART	579270.90	4197264.50	145.79	434.73	1.50
3209	DISCCART	581470.90	4198364.50	27.31	27.31	1.50
3210	DISCCART	581670.90	4198364.50	26.33	26.33	1.50
3211	DISCCART	580170.90	4195864.50	162.77	239.60	1.50
3212	DISCCART	580420.90	4195914.50	176.78	239.60	1.50
3213	DISCCART	579720.90	4196414.50	203.10	229.99	1.50
3214	DISCCART	579620.90	4196714.50	180.19	229.99	1.50
3215	DISCCART	580570.90	4195464.50	120.78	239.60	1.50
3216	DISCCART	582470.90	4198164.50	28.95	28.95	1.50
3217	DISCCART	581970.90	4198264.50	31.68	31.68	1.50
3218	DISCCART	579670.90	4198364.50	62.04	452.04	1.50
3219	DISCCART	580370.90	4198364.50	43.66	452.04	1.50
3220	DISCCART	580870.90	4198364.50	36.39	434.73	1.50
3221	DISCCART	581770.90	4194564.50	59.52	198.92	1.50
3222	DISCCART	581370.90	4194764.50	74.67	198.92	1.50
3223	DISCCART	581070.90	4194864.50	95.56	198.92	1.50
3224	DISCCART	579670.90	4195264.50	93.00	326.41	1.50
3225	DISCCART	579070.90	4196364.50	121.16	434.73	1.50
3226	DISCCART	579170.90	4196364.50	128.45	340.58	1.50
3227	DISCCART	578970.90	4197764.50	114.77	452.04	1.50
3228	DISCCART	579770.90	4198364.50	58.07	452.04	1.50
3229	DISCCART	580070.90	4195964.50	187.43	239.60	1.50
3230	DISCCART	580170.90	4196014.50	208.77	239.60	1.50
3231	DISCCART	579170.90	4196464.50	132.01	340.58	1.50
3232	DISCCART	579370.90	4198264.50	88.71	452.04	1.50
3233	DISCCART	581370.90	4198364.50	28.17	28.17	1.50
3234	DISCCART	581770.90	4198364.50	25.98	25.98	1.50
3235	DISCCART	580120.90	4196014.50	208.12	239.60	1.50
3236	DISCCART	581570.90	4194664.50	61.39	198.92	1.50
3237	DISCCART	579370.90	4195264.50	97.50	340.58	1.50
3238	DISCCART	582570.90	4198164.50	24.35	28.29	1.50
3239	DISCCART	579570.90	4198364.50	66.24	452.04	1.50
3240	DISCCART	580570.90	4198464.50	38.30	452.04	1.50
3241	DISCCART	580670.90	4198464.50	36.54	452.04	1.50
3242	DISCCART	580670.90	4195464.50	131.06	239.60	1.50
3243	DISCCART	582070.90	4198264.50	28.82	31.95	1.50

3244	DISCCART	579870.90	4198364.50	55.24	452.04	1.50
3245	DISCCART	580170.90	4195914.50	178.77	239.60	1.50
3246	DISCCART	579270.90	4196264.50	135.53	337.91	1.50
3247	DISCCART	582670.90	4198164.50	30.62	30.62	1.50
3248	DISCCART	580970.90	4198364.50	34.67	434.73	1.50
3249	DISCCART	581270.90	4198364.50	29.59	29.59	1.50
3250	DISCCART	580020.90	4195914.50	175.20	239.60	1.50
3251	DISCCART	579670.90	4196414.50	195.37	229.99	1.50
3252	DISCCART	579720.90	4196514.50	213.85	229.99	1.50
3253	DISCCART	579570.90	4195264.50	91.91	337.91	1.50
3254	DISCCART	579070.90	4198064.50	106.22	452.04	1.50
3255	DISCCART	579270.90	4198164.50	114.09	452.04	1.50
3256	DISCCART	582170.90	4198264.50	31.53	31.53	1.50
3257	DISCCART	580270.90	4198364.50	45.31	452.04	1.50
3258	DISCCART	580420.90	4195864.50	169.13	239.60	1.50
3259	DISCCART	579670.90	4196314.50	192.34	229.99	1.50
3260	DISCCART	579670.90	4196364.50	194.59	229.99	1.50
3261	DISCCART	581270.90	4194764.50	79.42	198.92	1.50
3262	DISCCART	579470.90	4195264.50	93.37	340.58	1.50
3263	DISCCART	579070.90	4197564.50	132.71	452.04	1.50
3264	DISCCART	579170.90	4198164.50	105.92	452.04	1.50
3265	DISCCART	582770.90	4198164.50	28.25	28.25	1.50
3266	DISCCART	581070.90	4198364.50	32.44	32.44	1.50
3267	DISCCART	581170.90	4198364.50	30.96	30.96	1.50
3268	DISCCART	581870.90	4198364.50	26.87	26.87	1.50
3269	DISCCART	580470.90	4198464.50	39.98	452.04	1.50
3270	DISCCART	580770.90	4198464.50	35.35	434.73	1.50
3271	DISCCART	582070.90	4194364.50	53.51	57.99	1.50
3272	DISCCART	580470.90	4195664.50	137.63	239.60	1.50
3273	DISCCART	580470.90	4195764.50	153.86	239.60	1.50
3274	DISCCART	582270.90	4198264.50	31.93	31.93	1.50
3275	DISCCART	579470.90	4198364.50	69.35	452.04	1.50
3276	DISCCART	579670.90	4196614.50	204.20	229.99	1.50
3277	DISCCART	581870.90	4194464.50	58.93	192.37	1.50
3278	DISCCART	580970.90	4194864.50	101.31	198.92	1.50
3279	DISCCART	579270.90	4195264.50	103.98	340.58	1.50
3280	DISCCART	579270.90	4196564.50	142.08	326.41	1.50
3281	DISCCART	582870.90	4198164.50	26.86	26.86	1.50
3282	DISCCART	579970.90	4198364.50	50.78	452.04	1.50
3283	DISCCART	580370.90	4195564.50	120.36	239.60	1.50
3284	DISCCART	578970.90	4195864.50	118.02	340.58	1.50
3285	DISCCART	582370.90	4198264.50	30.26	31.90	1.50
3286	DISCCART	580170.90	4198364.50	45.12	452.04	1.50
3287	DISCCART	581170.90	4194764.50	87.24	198.92	1.50
3288	DISCCART	580070.90	4198364.50	49.97	452.04	1.50
3289	DISCCART	581970.90	4198364.50	27.79	27.79	1.50
3290	DISCCART	581570.90	4198464.50	26.19	26.19	1.50
3291	DISCCART	581670.90	4198464.50	25.48	25.48	1.50
3292	DISCCART	579570.90	4196764.50	180.78	229.99	1.50
3293	DISCCART	581670.90	4194564.50	57.62	198.92	1.50
3294	DISCCART	581470.90	4194664.50	64.60	198.92	1.50
3295	DISCCART	579870.90	4195164.50	98.94	326.41	1.50
3296	DISCCART	580870.90	4195564.50	174.79	198.92	1.50
3297	DISCCART	578970.90	4196164.50	116.95	434.73	1.50
3298	DISCCART	579470.90	4196164.50	154.13	326.41	1.50
3299	DISCCART	579270.90	4198264.50	108.77	452.04	1.50
3300	DISCCART	582470.90	4198264.50	26.87	26.87	1.50
3301	DISCCART	581770.90	4198464.50	24.92	24.92	1.50
3302	DISCCART	579570.90	4196464.50	185.13	229.99	1.50
3303	DISCCART	579620.90	4196464.50	194.78	229.99	1.50
3304	DISCCART	579770.90	4195164.50	90.24	326.41	1.50
3305	DISCCART	579370.90	4196164.50	144.38	326.41	1.50
3306	DISCCART	579070.90	4196564.50	130.60	434.73	1.50
3307	DISCCART	579370.90	4198364.50	76.46	452.04	1.50
3308	DISCCART	579670.90	4198464.50	61.44	452.04	1.50
3309	DISCCART	580870.90	4198464.50	33.80	434.73	1.50
3310	DISCCART	581470.90	4198464.50	26.76	26.76	1.50
3311	DISCCART	579620.90	4196664.50	196.60	229.99	1.50
3312	DISCCART	579170.90	4195264.50	115.32	340.58	1.50

3313	DISCCART	580470.90	4195564.50	129.14	239.60	1.50
3314	DISCCART	578970.90	4196464.50	125.40	434.73	1.50
3315	DISCCART	582570.90	4198264.50	24.18	24.18	1.50
3316	DISCCART	579570.90	4198464.50	64.97	452.04	1.50
3317	DISCCART	580370.90	4198464.50	40.49	452.04	1.50
3318	DISCCART	580370.90	4195864.50	171.04	239.60	1.50
3319	DISCCART	579620.90	4196264.50	185.68	239.60	1.50
3320	DISCCART	579620.90	4196414.50	193.58	229.99	1.50
3321	DISCCART	579570.90	4196514.50	187.04	229.99	1.50
3322	DISCCART	581070.90	4194964.50	116.53	198.92	1.50
3323	DISCCART	579670.90	4195164.50	89.53	326.41	1.50
3324	DISCCART	578970.90	4196364.50	122.37	434.73	1.50
3325	DISCCART	579470.90	4196964.50	175.59	229.99	1.50
3326	DISCCART	578970.90	4197864.50	123.04	452.04	1.50
3327	DISCCART	582070.90	4198364.50	25.83	25.83	1.50
3328	DISCCART	579770.90	4198464.50	59.39	452.04	1.50
3329	DISCCART	580570.90	4198564.50	35.35	452.04	1.50
3330	DISCCART	580670.90	4198564.50	35.36	452.04	1.50
3331	DISCCART	581070.90	4194764.50	85.50	198.92	1.50
3332	DISCCART	579970.90	4195264.50	112.92	326.41	1.50
3333	DISCCART	582670.90	4198264.50	25.85	25.85	1.50
3334	DISCCART	581370.90	4198464.50	28.45	28.45	1.50
3335	DISCCART	581870.90	4198464.50	24.86	24.86	1.50
3336	DISCCART	581370.90	4194664.50	75.21	198.92	1.50
3337	DISCCART	582170.90	4198364.50	27.06	27.06	1.50
3338	DISCCART	580970.90	4198464.50	33.20	434.73	1.50
3339	DISCCART	579570.90	4196414.50	186.96	229.99	1.50
3340	DISCCART	579720.90	4196464.50	225.85	229.99	1.50
3341	DISCCART	581970.90	4194364.50	49.56	192.37	1.50
3342	DISCCART	578970.90	4196264.50	119.68	434.73	1.50
3343	DISCCART	582770.90	4198264.50	27.63	27.63	1.50
3344	DISCCART	579270.90	4198364.50	88.87	452.04	1.50
3345	DISCCART	579470.90	4198464.50	70.36	452.04	1.50
3346	DISCCART	579870.90	4198464.50	61.28	452.04	1.50
3347	DISCCART	580470.90	4198564.50	41.14	452.04	1.50
3348	DISCCART	581770.90	4194464.50	54.38	198.92	1.50
3349	DISCCART	579270.90	4196364.50	145.74	326.41	1.50
3350	DISCCART	579170.90	4196564.50	139.56	340.58	1.50
3351	DISCCART	578970.90	4197664.50	130.91	452.04	1.50
3352	DISCCART	582270.90	4198364.50	26.93	26.93	1.50
3353	DISCCART	580270.90	4198464.50	45.06	452.04	1.50
3354	DISCCART	581270.90	4198464.50	29.04	29.04	1.50
3355	DISCCART	580770.90	4198564.50	31.79	437.57	1.50
3356	DISCCART	579620.90	4196364.50	196.36	229.99	1.50
3357	DISCCART	581570.90	4194564.50	60.30	198.92	1.50
3358	DISCCART	580870.90	4194864.50	93.87	198.92	1.50
3359	DISCCART	579570.90	4195164.50	89.73	337.91	1.50
3360	DISCCART	578970.90	4197964.50	123.08	452.04	1.50
3361	DISCCART	579070.90	4198164.50	116.20	452.04	1.50
3362	DISCCART	582870.90	4198264.50	26.73	26.73	1.50
3363	DISCCART	581070.90	4198464.50	31.57	31.57	1.50
3364	DISCCART	581970.90	4198464.50	24.26	24.26	1.50
3365	DISCCART	579620.90	4196514.50	204.45	229.99	1.50
3366	DISCCART	579670.90	4196564.50	219.31	229.99	1.50
3367	DISCCART	581270.90	4194664.50	81.31	198.92	1.50
3368	DISCCART	580470.90	4195464.50	123.25	239.60	1.50
3369	DISCCART	579470.90	4196464.50	174.95	229.99	1.50
3370	DISCCART	578970.90	4196564.50	128.40	434.73	1.50
3371	DISCCART	582370.90	4198364.50	25.62	25.62	1.50
3372	DISCCART	581170.90	4198464.50	29.94	29.94	1.50
3373	DISCCART	579670.90	4196464.50	216.10	229.99	1.50
3374	DISCCART	578970.90	4198064.50	118.87	452.04	1.50
3375	DISCCART	579170.90	4198264.50	114.08	452.04	1.50
3376	DISCCART	582470.90	4198364.50	25.72	25.72	1.50
3377	DISCCART	579370.90	4198464.50	76.38	452.04	1.50
3378	DISCCART	579970.90	4198464.50	56.93	452.04	1.50
3379	DISCCART	580170.90	4198464.50	50.64	452.04	1.50
3380	DISCCART	581670.90	4198564.50	25.04	25.04	1.50
3381	DISCCART	581770.90	4198564.50	24.72	24.72	1.50

3382	DISCCART	579670.90	4196514.50	220.23	229.99	1.50
3383	DISCCART	580970.90	4195064.50	125.29	198.92	1.50
3384	DISCCART	579370.90	4197064.50	170.40	194.60	1.50
3385	DISCCART	582070.90	4198464.50	24.63	24.63	1.50
3386	DISCCART	581570.90	4198564.50	25.50	25.50	1.50
3387	DISCCART	580970.90	4194764.50	88.00	198.92	1.50
3388	DISCCART	579470.90	4195164.50	91.18	337.91	1.50
3389	DISCCART	580270.90	4195664.50	138.30	239.60	1.50
3390	DISCCART	578870.90	4195964.50	119.78	432.78	1.50
3391	DISCCART	578870.90	4196164.50	114.65	434.73	1.50
3392	DISCCART	578970.90	4197564.50	133.52	452.04	1.50
3393	DISCCART	582570.90	4198364.50	23.89	23.89	1.50
3394	DISCCART	580070.90	4198464.50	54.13	452.04	1.50
3395	DISCCART	580370.90	4198564.50	46.02	452.04	1.50
3396	DISCCART	580870.90	4198564.50	32.99	434.73	1.50
3397	DISCCART	581870.90	4198564.50	24.60	24.60	1.50
3398	DISCCART	579570.90	4196214.50	183.00	229.99	1.50
3399	DISCCART	579620.90	4196564.50	209.93	229.99	1.50
3400	DISCCART	579570.90	4196714.50	196.22	229.99	1.50
3401	DISCCART	581870.90	4194364.50	55.69	192.37	1.50
3402	DISCCART	581170.90	4194664.50	80.54	198.92	1.50
3403	DISCCART	579370.90	4196464.50	162.60	326.41	1.50
3404	DISCCART	582670.90	4198364.50	25.02	25.02	1.50
3405	DISCCART	579570.90	4198564.50	64.50	452.04	1.50
3406	DISCCART	579670.90	4198564.50	62.08	452.04	1.50
3407	DISCCART	580570.90	4198664.50	38.47	452.04	1.50
3408	DISCCART	580670.90	4198664.50	37.12	452.04	1.50
3409	DISCCART	579570.90	4196564.50	197.97	229.99	1.50
3410	DISCCART	578870.90	4196064.50	119.41	432.78	1.50
3411	DISCCART	579170.90	4198364.50	107.57	452.04	1.50
3412	DISCCART	582170.90	4198464.50	25.36	25.36	1.50
3413	DISCCART	579470.90	4198564.50	70.41	452.04	1.50
3414	DISCCART	581470.90	4198564.50	26.18	26.18	1.50
3415	DISCCART	581670.90	4194464.50	56.36	198.92	1.50
3416	DISCCART	581470.90	4194564.50	62.85	198.92	1.50
3417	DISCCART	579670.90	4195064.50	86.98	326.41	1.50
3418	DISCCART	579770.90	4195064.50	85.50	326.41	1.50
3419	DISCCART	580670.90	4195264.50	123.61	239.60	1.50
3420	DISCCART	580970.90	4195464.50	181.24	198.92	1.50
3421	DISCCART	579070.90	4195664.50	132.79	340.58	1.50
3422	DISCCART	582770.90	4198364.50	26.03	26.03	1.50
3423	DISCCART	579270.90	4198464.50	88.05	452.04	1.50
3424	DISCCART	581970.90	4198564.50	23.76	23.76	1.50
3425	DISCCART	582870.90	4198364.50	26.27	26.27	1.50
3426	DISCCART	582270.90	4198464.50	24.27	24.27	1.50
3427	DISCCART	579770.90	4198564.50	60.83	452.04	1.50
3428	DISCCART	580970.90	4198564.50	31.80	434.73	1.50
3429	DISCCART	580770.90	4198664.50	33.76	437.57	1.50
3430	DISCCART	579570.90	4196264.50	189.64	229.99	1.50
3431	DISCCART	580770.90	4194964.50	109.08	198.92	1.50
3432	DISCCART	579070.90	4195364.50	127.83	340.58	1.50
3433	DISCCART	579370.90	4196564.50	163.24	326.41	1.50
3434	DISCCART	579470.90	4196564.50	178.95	229.99	1.50
3435	DISCCART	578870.90	4197764.50	128.87	452.04	1.50
3436	DISCCART	581370.90	4198564.50	27.14	27.14	1.50
3437	DISCCART	580470.90	4198664.50	38.61	452.04	1.50
3438	DISCCART	579620.90	4196314.50	207.32	229.99	1.50
3439	DISCCART	579570.90	4196364.50	197.22	229.99	1.50
3440	DISCCART	580570.90	4195364.50	127.14	239.60	1.50
3441	DISCCART	578870.90	4195864.50	121.45	340.58	1.50
3442	DISCCART	578870.90	4196364.50	124.93	434.73	1.50
3443	DISCCART	578870.90	4196464.50	127.39	434.73	1.50
3444	DISCCART	579070.90	4197464.50	152.00	452.04	1.50
3445	DISCCART	582370.90	4198464.50	23.88	23.88	1.50
3446	DISCCART	580270.90	4198564.50	47.83	452.04	1.50
3447	DISCCART	579620.90	4196614.50	220.07	221.46	1.50
3448	DISCCART	581370.90	4194564.50	66.51	198.92	1.50
3449	DISCCART	581070.90	4194664.50	74.33	198.92	1.50
3450	DISCCART	579570.90	4195064.50	87.20	337.91	1.50

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3451	DISCCART	579870.90	4195064.50	92.10	326.41	1.50
3452	DISCCART	579470.90	4196364.50	180.49	229.99	1.50
3453	DISCCART	579170.90	4197264.50	155.55	434.73	1.50
3454	DISCCART	582470.90	4198464.50	24.32	24.32	1.50
3455	DISCCART	579370.90	4198564.50	72.23	452.04	1.50
3456	DISCCART	581070.90	4198564.50	30.62	434.73	1.50
3457	DISCCART	581270.90	4198564.50	27.99	27.99	1.50
3458	DISCCART	582070.90	4198564.50	23.74	23.74	1.50
3459	DISCCART	581770.90	4198664.50	24.41	24.41	1.50
3460	DISCCART	581070.90	4195364.50	178.45	192.37	1.50
3461	DISCCART	582570.90	4198464.50	23.58	23.58	1.50
3462	DISCCART	579870.90	4198564.50	58.47	452.04	1.50
3463	DISCCART	581170.90	4198564.50	29.23	29.23	1.50
3464	DISCCART	581670.90	4198664.50	25.01	25.01	1.50
3465	DISCCART	581870.90	4198664.50	23.63	23.63	1.50
3466	DISCCART	579570.90	4196664.50	208.42	221.46	1.50
3467	DISCCART	581770.90	4194364.50	54.46	192.37	1.50
3468	DISCCART	580770.90	4194864.50	95.51	239.48	1.50
3469	DISCCART	579970.90	4195164.50	112.03	318.15	1.50
3470	DISCCART	580370.90	4195664.50	144.62	239.60	1.50
3471	DISCCART	579170.90	4198464.50	104.10	452.04	1.50
3472	DISCCART	582670.90	4198464.50	25.95	25.95	1.50
3473	DISCCART	579570.90	4198664.50	71.99	452.04	1.50
3474	DISCCART	580870.90	4198664.50	31.47	434.73	1.50
3475	DISCCART	581570.90	4194464.50	59.03	198.92	1.50
3476	DISCCART	580870.90	4194764.50	89.55	198.92	1.50
3477	DISCCART	580970.90	4195364.50	160.00	198.92	1.50
3478	DISCCART	579370.90	4196364.50	169.08	326.41	1.50
3479	DISCCART	579070.90	4196664.50	136.99	434.73	1.50
3480	DISCCART	579470.90	4196864.50	188.10	221.46	1.50
3481	DISCCART	582770.90	4198464.50	25.41	25.41	1.50
3482	DISCCART	579270.90	4198564.50	87.41	452.04	1.50
3483	DISCCART	580170.90	4198564.50	49.41	452.04	1.50
3484	DISCCART	582170.90	4198564.50	24.38	24.38	1.50
3485	DISCCART	579470.90	4198664.50	71.61	452.04	1.50
3486	DISCCART	580370.90	4198664.50	45.02	452.04	1.50
3487	DISCCART	581570.90	4198664.50	25.87	25.87	1.50
3488	DISCCART	581970.90	4198664.50	23.24	23.24	1.50
3489	DISCCART	580570.90	4198764.50	40.06	452.04	1.50
3490	DISCCART	580670.90	4198764.50	37.64	452.04	1.50
3491	DISCCART	579570.90	4196314.50	200.53	229.99	1.50
3492	DISCCART	581270.90	4194564.50	69.65	198.92	1.50
3493	DISCCART	578570.90	4194864.50	112.15	340.58	1.50
3494	DISCCART	580770.90	4195564.50	187.89	198.92	1.50
3495	DISCCART	579270.90	4197164.50	171.99	186.67	1.50
3496	DISCCART	578870.90	4197664.50	134.44	452.04	1.50
3497	DISCCART	579970.90	4198564.50	50.50	452.04	1.50
3498	DISCCART	579670.90	4198664.50	68.38	452.04	1.50
3499	DISCCART	580870.90	4194964.50	123.31	198.92	1.50
3500	DISCCART	579470.90	4195064.50	89.87	337.91	1.50
3501	DISCCART	578870.90	4196564.50	130.74	434.73	1.50
3502	DISCCART	582870.90	4198464.50	25.80	25.80	1.50
3503	DISCCART	580070.90	4198564.50	48.05	452.04	1.50
3504	DISCCART	582270.90	4198564.50	23.50	23.50	1.50
3505	DISCCART	579570.90	4196614.50	213.65	221.46	1.50
3506	DISCCART	579370.90	4198664.50	74.48	452.04	1.50
3507	DISCCART	580970.90	4198664.50	30.63	434.73	1.50
3508	DISCCART	581470.90	4198664.50	25.90	25.90	1.50
3509	DISCCART	582070.90	4198664.50	22.90	22.90	1.50
3510	DISCCART	580470.90	4198764.50	41.33	452.04	1.50
3511	DISCCART	580770.90	4198764.50	33.90	437.57	1.50
3512	DISCCART	581170.90	4194564.50	70.48	198.92	1.50
3513	DISCCART	580970.90	4194664.50	74.81	198.92	1.50
3514	DISCCART	579670.90	4194964.50	84.79	326.41	1.50
3515	DISCCART	579370.90	4195164.50	99.14	337.91	1.50
3516	DISCCART	580770.90	4195464.50	165.45	198.92	1.50
3517	DISCCART	579470.90	4196664.50	187.22	229.99	1.50
3518	DISCCART	582370.90	4198564.50	23.14	23.14	1.50
3519	DISCCART	581470.90	4194464.50	61.75	198.92	1.50

3520	DISCCART	579570.90	4194964.50	92.93	326.41	1.50
3521	DISCCART	580670.90	4194964.50	99.29	239.60	1.50
3522	DISCCART	580370.90	4195464.50	125.80	239.60	1.50
3523	DISCCART	582470.90	4198564.50	23.70	23.70	1.50
3524	DISCCART	579770.90	4198664.50	59.80	452.04	1.50
3525	DISCCART	581770.90	4198764.50	23.91	23.91	1.50
3526	DISCCART	581870.90	4198764.50	23.18	23.18	1.50
3527	DISCCART	581670.90	4194364.50	56.48	198.92	1.50
3528	DISCCART	579770.90	4194964.50	85.51	326.41	1.50
3529	DISCCART	580570.90	4195564.50	161.68	239.60	1.50
3530	DISCCART	578870.90	4196264.50	127.50	434.73	1.50
3531	DISCCART	579370.90	4196664.50	168.09	229.99	1.50
3532	DISCCART	579470.90	4196764.50	191.40	229.99	1.50
3533	DISCCART	582570.90	4198564.50	23.23	23.23	1.50
3534	DISCCART	580270.90	4198664.50	46.72	452.04	1.50
3535	DISCCART	581070.90	4198664.50	28.96	434.73	1.50
3536	DISCCART	581370.90	4198664.50	25.93	25.93	1.50
3537	DISCCART	582170.90	4198664.50	23.49	23.49	1.50
3538	DISCCART	581970.90	4198764.50	22.98	22.98	1.50
3539	DISCCART	578470.90	4194964.50	117.79	340.58	1.50
3540	DISCCART	578770.90	4196264.50	122.21	434.73	1.50
3541	DISCCART	579370.90	4196264.50	168.33	326.41	1.50
3542	DISCCART	579470.90	4196264.50	184.31	229.99	1.50
3543	DISCCART	578970.90	4198164.50	136.36	452.04	1.50
3544	DISCCART	582670.90	4198564.50	25.82	25.82	1.50
3545	DISCCART	582770.90	4198564.50	24.99	24.99	1.50
3546	DISCCART	579270.90	4198664.50	83.30	452.04	1.50
3547	DISCCART	581170.90	4198664.50	27.65	27.65	1.50
3548	DISCCART	581270.90	4198664.50	25.96	25.96	1.50
3549	DISCCART	579470.90	4198764.50	76.51	452.04	1.50
3550	DISCCART	580870.90	4198764.50	31.31	434.73	1.50
3551	DISCCART	581670.90	4198764.50	24.20	24.20	1.50
3552	DISCCART	580670.90	4198864.50	36.91	452.04	1.50
3553	DISCCART	579370.90	4196964.50	183.74	186.65	1.50
3554	DISCCART	579070.90	4198264.50	130.81	452.04	1.50
3555	DISCCART	580570.90	4198864.50	40.41	452.04	1.50
3556	DISCCART	578570.90	4194764.50	106.79	340.58	1.50
3557	DISCCART	579570.90	4198764.50	70.11	452.04	1.50
3558	DISCCART	579070.90	4195264.50	127.62	340.58	1.50
3559	DISCCART	579170.90	4196664.50	149.36	326.41	1.50
3560	DISCCART	580270.90	4195764.50	172.76	239.60	1.50
3561	DISCCART	582270.90	4198664.50	23.81	23.81	1.50
3562	DISCCART	582070.90	4198764.50	22.62	22.62	1.50
3563	DISCCART	581370.90	4194464.50	64.72	198.92	1.50
3564	DISCCART	579870.90	4198664.50	58.43	452.04	1.50
3565	DISCCART	578670.90	4196364.50	122.61	434.73	1.50
3566	DISCCART	582870.90	4198564.50	24.47	24.47	1.50
3567	DISCCART	581070.90	4194564.50	69.46	198.92	1.50
3568	DISCCART	578970.90	4195764.50	131.21	340.58	1.50
3569	DISCCART	580670.90	4195564.50	182.55	195.81	1.50
3570	DISCCART	578770.90	4196464.50	129.35	434.73	1.50
3571	DISCCART	580370.90	4198764.50	43.40	452.04	1.50
3572	DISCCART	580170.90	4198664.50	49.67	452.04	1.50
3573	DISCCART	578370.90	4194764.50	111.07	340.58	1.50
3574	DISCCART	580070.90	4198664.50	63.60	452.04	1.50
3575	DISCCART	579370.90	4198764.50	78.55	452.04	1.50
3576	DISCCART	579070.90	4197364.50	160.22	434.73	1.50
3577	DISCCART	579970.90	4198664.50	62.31	452.04	1.50
3578	DISCCART	581570.90	4198764.50	24.94	24.94	1.50
3579	DISCCART	579470.90	4194964.50	92.00	337.91	1.50
3580	DISCCART	580370.90	4195764.50	176.75	239.60	1.50
3581	DISCCART	580770.90	4198864.50	33.39	452.04	1.50
3582	DISCCART	580870.90	4195464.50	187.32	198.92	1.50
3583	DISCCART	579870.90	4194964.50	101.46	326.41	1.50
3584	DISCCART	582370.90	4198664.50	23.07	23.07	1.50
3585	DISCCART	580770.90	4195164.50	135.00	198.92	1.50
3586	DISCCART	580970.90	4198764.50	29.17	434.73	1.50
3587	DISCCART	580770.90	4194764.50	88.82	198.92	1.50
3588	DISCCART	582170.90	4198764.50	23.33	23.33	1.50

3589	DISCCART	580470.90	4198864.50	42.91	452.04	1.50
3590	DISCCART	581270.90	4194464.50	66.55	198.92	1.50
3591	DISCCART	578770.90	4196164.50	121.34	434.73	1.50
3592	DISCCART	581570.90	4194364.50	59.08	198.92	1.50
3593	DISCCART	580270.90	4195464.50	127.96	239.60	1.50
3594	DISCCART	578770.90	4197764.50	135.45	452.04	1.50
3595	DISCCART	579670.90	4198764.50	63.47	452.04	1.50
3596	DISCCART	580670.90	4194864.50	97.63	239.60	1.50
3597	DISCCART	578570.90	4196464.50	121.98	437.57	1.50
3598	DISCCART	582470.90	4198664.50	23.23	23.23	1.50
3599	DISCCART	578470.90	4194764.50	113.84	340.58	1.50
3600	DISCCART	580870.90	4194664.50	79.60	198.92	1.50
3601	DISCCART	581870.90	4198864.50	23.03	23.03	1.50
3602	DISCCART	581970.90	4198864.50	22.30	22.30	1.50
3603	DISCCART	581470.90	4198764.50	24.93	24.93	1.50
3604	DISCCART	579570.90	4194864.50	95.26	326.41	1.50
3605	DISCCART	579670.90	4194864.50	93.73	326.41	1.50
3606	DISCCART	582570.90	4198664.50	22.96	22.96	1.50
3607	DISCCART	579370.90	4196864.50	180.98	221.46	1.50
3608	DISCCART	579270.90	4198764.50	81.85	452.04	1.50
3609	DISCCART	579070.90	4195464.50	139.53	337.91	1.50
3610	DISCCART	579370.90	4196764.50	176.56	229.99	1.50
3611	DISCCART	578370.90	4194664.50	105.44	340.58	1.50
3612	DISCCART	582670.90	4198664.50	25.10	28.14	1.50
3613	DISCCART	581770.90	4198864.50	23.35	23.35	1.50
3614	DISCCART	578270.90	4194664.50	104.21	367.29	1.50
3615	DISCCART	578770.90	4195964.50	125.64	432.78	1.50
3616	DISCCART	580870.90	4198864.50	30.65	434.73	1.50
3617	DISCCART	579970.90	4195064.50	110.70	318.15	1.50
3618	DISCCART	581070.90	4198764.50	27.63	434.73	1.50
3619	DISCCART	582270.90	4198764.50	23.32	23.32	1.50
3620	DISCCART	582070.90	4198864.50	21.66	21.66	1.50
3621	DISCCART	578970.90	4197464.50	155.60	452.04	1.50
3622	DISCCART	578770.90	4196064.50	124.56	432.78	1.50
3623	DISCCART	578770.90	4196564.50	132.26	434.73	1.50
3624	DISCCART	579770.90	4198764.50	69.06	452.04	1.50
3625	DISCCART	580270.90	4198764.50	46.24	452.04	1.50
3626	DISCCART	579970.90	4195364.50	137.35	239.60	1.50
3627	DISCCART	582770.90	4198664.50	24.60	24.60	1.50
3628	DISCCART	579270.90	4196664.50	162.85	326.41	1.50
3629	DISCCART	581170.90	4194464.50	66.03	198.92	1.50
3630	DISCCART	580670.90	4198964.50	36.19	452.04	1.50
3631	DISCCART	579170.90	4198664.50	101.62	452.04	1.50
3632	DISCCART	579170.90	4195364.50	134.03	337.91	1.50
3633	DISCCART	578870.90	4197564.50	146.01	452.04	1.50
3634	DISCCART	581370.90	4198764.50	25.33	25.33	1.50
3635	DISCCART	579370.90	4194964.50	95.82	337.91	1.50
3636	DISCCART	582870.90	4198664.50	25.80	25.80	1.50
3637	DISCCART	580570.90	4198964.50	39.44	452.04	1.50
3638	DISCCART	580970.90	4194564.50	70.97	198.92	1.50
3639	DISCCART	579470.90	4198864.50	75.50	452.04	1.50
3640	DISCCART	578670.90	4196264.50	122.84	434.73	1.50
3641	DISCCART	581470.90	4194364.50	61.56	198.92	1.50
3642	DISCCART	580870.90	4195064.50	136.91	198.92	1.50
3643	DISCCART	579070.90	4197264.50	156.70	434.73	1.50
3644	DISCCART	581170.90	4198764.50	26.38	26.38	1.50
3645	DISCCART	578470.90	4194664.50	102.20	340.58	1.50
3646	DISCCART	578670.90	4194764.50	107.33	340.58	1.50
3647	DISCCART	579870.90	4198764.50	79.90	452.04	1.50
3648	DISCCART	580070.90	4198764.50	87.07	452.04	1.50
3649	DISCCART	581270.90	4198764.50	25.52	25.52	1.50
3650	DISCCART	579370.90	4198864.50	77.47	452.04	1.50
3651	DISCCART	581670.90	4198864.50	23.87	23.87	1.50
3652	DISCCART	582170.90	4198864.50	22.92	22.92	1.50
3653	DISCCART	582370.90	4198764.50	23.03	23.03	1.50
3654	DISCCART	579570.90	4198864.50	77.72	452.04	1.50
3655	DISCCART	578170.90	4194764.50	110.58	367.29	1.50
3656	DISCCART	580370.90	4198864.50	45.73	452.04	1.50
3657	DISCCART	579970.90	4198764.50	88.40	452.04	1.50

3658	DISCCART	579770.90	4194864.50	93.85	326.41	1.50
3659	DISCCART	579270.90	4197064.50	183.29	185.18	1.50
3660	DISCCART	580770.90	4198964.50	33.13	452.04	1.50
3661	DISCCART	579470.90	4194864.50	89.33	337.91	1.50
3662	DISCCART	578170.90	4194664.50	101.56	367.29	1.50
3663	DISCCART	580170.90	4198764.50	53.80	452.04	1.50
3664	DISCCART	580970.90	4198864.50	29.13	434.73	1.50
3665	DISCCART	578470.90	4195064.50	123.71	340.58	1.50
3666	DISCCART	578970.90	4195364.50	136.79	340.58	1.50
3667	DISCCART	581070.90	4194464.50	70.69	198.92	1.50
3668	DISCCART	580970.90	4194964.50	135.07	198.92	1.50
3669	DISCCART	582470.90	4198764.50	22.46	22.46	1.50
3670	DISCCART	579170.90	4198564.50	121.86	452.04	1.50
3671	DISCCART	580470.90	4198964.50	42.57	452.04	1.50
3672	DISCCART	581370.90	4194364.50	61.75	198.92	1.50
3673	DISCCART	581570.90	4198864.50	24.16	24.16	1.50
3674	DISCCART	579270.90	4198864.50	81.28	452.04	1.50
3675	DISCCART	582270.90	4198864.50	22.03	22.03	1.50
3676	DISCCART	579070.90	4196764.50	144.20	434.73	1.50
3677	DISCCART	581970.90	4198964.50	21.73	21.73	1.50
3678	DISCCART	582570.90	4198764.50	22.69	22.69	1.50
3679	DISCCART	579170.90	4197164.50	173.49	207.30	1.50
3680	DISCCART	582070.90	4198964.50	20.79	20.79	1.50
3681	DISCCART	581870.90	4198964.50	24.21	24.21	1.50
3682	DISCCART	579170.90	4198764.50	99.54	452.04	1.50
3683	DISCCART	582670.90	4198764.50	27.92	27.92	1.50
3684	DISCCART	579070.90	4198464.50	128.64	452.04	1.50
3685	DISCCART	579670.90	4198864.50	73.88	452.04	1.50
3686	DISCCART	578870.90	4198064.50	156.13	452.04	1.50
3687	DISCCART	580170.90	4195464.50	138.58	239.60	1.50
3688	DISCCART	580870.90	4198964.50	30.69	434.73	1.50
3689	DISCCART	579270.90	4196964.50	177.66	177.66	1.50
3690	DISCCART	581270.90	4194364.50	63.39	198.92	1.50
3691	DISCCART	582770.90	4198764.50	23.81	23.81	1.50
3692	DISCCART	580470.90	4195364.50	136.24	239.60	1.50
3693	DISCCART	581070.90	4198864.50	27.64	434.73	1.50
3694	DISCCART	582170.90	4198964.50	21.89	21.89	1.50
3695	DISCCART	578070.90	4194664.50	105.55	367.29	1.50
3696	DISCCART	578570.90	4196364.50	125.93	434.73	1.50
3697	DISCCART	579570.90	4194764.50	89.28	326.41	1.50
3698	DISCCART	582870.90	4198764.50	23.99	23.99	1.50
3699	DISCCART	581470.90	4198864.50	24.39	24.39	1.50
3700	DISCCART	582370.90	4198864.50	22.04	22.04	1.50
3701	DISCCART	579070.90	4198364.50	139.51	452.04	1.50
3702	DISCCART	581770.90	4198964.50	25.00	25.00	1.50
3703	DISCCART	580270.90	4198864.50	48.76	452.04	1.50
3704	DISCCART	580770.90	4194664.50	89.73	198.92	1.50
3705	DISCCART	578970.90	4196664.50	144.78	434.73	1.50
3706	DISCCART	578770.90	4197864.50	150.39	452.04	1.50
3707	DISCCART	578870.90	4197864.50	166.03	452.04	1.50
3708	DISCCART	579770.90	4198864.50	95.30	452.04	1.50
3709	DISCCART	578770.90	4197664.50	145.74	452.04	1.50
3710	DISCCART	579370.90	4198964.50	77.00	452.04	1.50
3711	DISCCART	579170.90	4198864.50	97.28	452.04	1.50
3712	DISCCART	578570.90	4194664.50	99.41	340.58	1.50
3713	DISCCART	578770.90	4195864.50	129.56	340.58	1.50
3714	DISCCART	578870.90	4196664.50	139.10	434.73	1.50
3715	DISCCART	578970.90	4198264.50	152.47	452.04	1.50
3716	DISCCART	578170.90	4194564.50	99.08	367.29	1.50
3717	DISCCART	580870.90	4194564.50	75.68	198.92	1.50
3718	DISCCART	581170.90	4198864.50	25.69	25.69	1.50
3719	DISCCART	579470.90	4194764.50	88.62	326.41	1.50
3720	DISCCART	578870.90	4198164.50	155.65	452.04	1.50
3721	DISCCART	581370.90	4198864.50	24.70	24.70	1.50
3722	DISCCART	582470.90	4198864.50	24.98	25.96	1.50
3723	DISCCART	579470.90	4198964.50	72.18	452.04	1.50
3724	DISCCART	582270.90	4198964.50	21.45	21.45	1.50
3725	DISCCART	581170.90	4194364.50	65.18	198.92	1.50
3726	DISCCART	578270.90	4194764.50	119.01	340.58	1.50

3727	DISCCART	579870.90	4194864.50	95.66	326.41	1.50
3728	DISCCART	579670.90	4194764.50	86.36	326.41	1.50
3729	DISCCART	578070.90	4194764.50	111.89	367.29	1.50
3730	DISCCART	580370.90	4198964.50	44.53	452.04	1.50
3731	DISCCART	581270.90	4198864.50	25.12	25.12	1.50
3732	DISCCART	578670.90	4196164.50	124.43	434.73	1.50
3733	DISCCART	579270.90	4198964.50	83.53	452.04	1.50
3734	DISCCART	580970.90	4198964.50	27.59	434.73	1.50
3735	DISCCART	581670.90	4198964.50	24.30	24.30	1.50
3736	DISCCART	578670.90	4196564.50	133.39	434.73	1.50
3737	DISCCART	578770.90	4196664.50	134.63	434.73	1.50
3738	DISCCART	580970.90	4194464.50	71.63	198.92	1.50
3739	DISCCART	582570.90	4198864.50	22.44	28.21	1.50
3740	DISCCART	578070.90	4194564.50	99.72	367.29	1.50
3741	DISCCART	580070.90	4198864.50	75.09	452.04	1.50
3742	DISCCART	580170.90	4198864.50	54.24	452.04	1.50
3743	DISCCART	579070.90	4198564.50	127.96	452.04	1.50
3744	DISCCART	578470.90	4194864.50	123.79	340.58	1.50
3745	DISCCART	579070.90	4198664.50	119.42	452.04	1.50
3746	DISCCART	579270.90	4196864.50	177.42	221.46	1.50
3747	DISCCART	578770.90	4194764.50	103.59	340.58	1.50
3748	DISCCART	582670.90	4198864.50	24.78	24.78	1.50
3749	DISCCART	579570.90	4198964.50	69.81	452.04	1.50
3750	DISCCART	582370.90	4198964.50	20.68	20.68	1.50
3751	DISCCART	579170.90	4197064.50	173.35	201.18	1.50
3752	DISCCART	578870.90	4197464.50	154.04	452.04	1.50
3753	DISCCART	579970.90	4198864.50	100.66	452.04	1.50
3754	DISCCART	582770.90	4198864.50	22.88	22.88	1.50
3755	DISCCART	578570.90	4196264.50	127.51	434.73	1.50
3756	DISCCART	581570.90	4198964.50	24.34	24.34	1.50
3757	DISCCART	579270.90	4196764.50	176.29	229.99	1.50
3758	DISCCART	582870.90	4198864.50	23.69	23.69	1.50
3759	DISCCART	581070.90	4198964.50	26.73	434.73	1.50
3760	DISCCART	581070.90	4194364.50	67.36	198.92	1.50
3761	DISCCART	579070.90	4197164.50	163.46	434.73	1.50
3762	DISCCART	579170.90	4198964.50	90.71	452.04	1.50
3763	DISCCART	578270.90	4194564.50	92.16	367.29	1.50
3764	DISCCART	579370.90	4194764.50	95.40	326.41	1.50
3765	DISCCART	579370.90	4194864.50	99.08	337.91	1.50
3766	DISCCART	578870.90	4197964.50	177.35	452.04	1.50
3767	DISCCART	579670.90	4198964.50	84.36	452.04	1.50
3768	DISCCART	578670.90	4194864.50	123.33	340.58	1.50
3769	DISCCART	582470.90	4198964.50	21.03	21.03	1.50
3770	DISCCART	578470.90	4196464.50	127.04	437.57	1.50
3771	DISCCART	579370.90	4195064.50	105.51	337.91	1.50
3772	DISCCART	580270.90	4198964.50	48.97	452.04	1.50
3773	DISCCART	578370.90	4194564.50	96.18	340.58	1.50
3774	DISCCART	579770.90	4194764.50	82.20	326.41	1.50
3775	DISCCART	580570.90	4194964.50	113.57	198.92	1.50
3776	DISCCART	581470.90	4198964.50	24.41	24.41	1.50
3777	DISCCART	578970.90	4197364.50	166.92	434.73	1.50
3778	DISCCART	580570.90	4194864.50	100.22	239.60	1.50
3779	DISCCART	581170.90	4198964.50	25.74	25.74	1.50
3780	DISCCART	579470.90	4194664.50	85.98	326.41	1.50
3781	DISCCART	582570.90	4198964.50	22.20	22.20	1.50
3782	DISCCART	578670.90	4194664.50	93.23	340.58	1.50
3783	DISCCART	579970.90	4194864.50	98.38	326.41	1.50
3784	DISCCART	578470.90	4196564.50	129.06	452.04	1.50
3785	DISCCART	579070.90	4198764.50	114.66	452.04	1.50
3786	DISCCART	579570.90	4194664.50	81.16	326.41	1.50
3787	DISCCART	581370.90	4198964.50	24.09	24.09	1.50
3788	DISCCART	579170.90	4196964.50	171.07	201.18	1.50
3789	DISCCART	581270.90	4198964.50	24.58	24.58	1.50
3790	DISCCART	579870.90	4198864.50	110.34	452.04	1.50
3791	DISCCART	579770.90	4198964.50	88.07	452.04	1.50
3792	DISCCART	579170.90	4196764.50	165.74	326.41	1.50
3793	DISCCART	582670.90	4198964.50	22.10	22.10	1.50
3794	DISCCART	580770.90	4194564.50	93.83	198.92	1.50
3795	DISCCART	578870.90	4195764.50	138.33	340.58	1.50

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3796	DISCCART	580170.90	4198964.50	57.78	452.04	1.50
3797	DISCCART	579070.90	4198964.50	96.61	452.04	1.50
3798	DISCCART	579070.90	4195564.50	154.99	337.91	1.50
3799	DISCCART	582770.90	4198964.50	22.49	22.49	1.50
3800	DISCCART	578470.90	4194564.50	94.86	340.58	1.50
3801	DISCCART	580870.90	4194464.50	74.81	198.92	1.50
3802	DISCCART	579270.90	4195164.50	119.34	337.91	1.50
3803	DISCCART	579170.90	4196864.50	168.83	221.46	1.50
3804	DISCCART	578870.90	4198264.50	166.15	452.04	1.50
3805	DISCCART	582870.90	4198964.50	23.09	23.09	1.50
3806	DISCCART	578670.90	4196064.50	130.28	432.78	1.50
3807	DISCCART	579870.90	4198964.50	97.48	452.04	1.50
3808	DISCCART	579370.90	4194664.50	92.36	326.41	1.50
3809	DISCCART	578670.90	4196664.50	135.54	434.73	1.50
3810	DISCCART	579070.90	4197064.50	163.43	434.73	1.50
3811	DISCCART	579970.90	4198964.50	80.37	452.04	1.50
3812	DISCCART	580970.90	4194364.50	71.77	198.92	1.50
3813	DISCCART	580070.90	4198964.50	66.39	452.04	1.50
3814	DISCCART	578670.90	4197764.50	151.99	452.04	1.50
3815	DISCCART	579270.90	4194764.50	94.54	337.91	1.50
3816	DISCCART	579670.90	4194664.50	79.93	326.41	1.50
3817	DISCCART	578970.90	4194764.50	98.26	340.58	1.50
3818	DISCCART	578170.90	4194464.50	90.50	367.29	1.50
3819	DISCCART	578770.90	4197564.50	157.84	452.04	1.50
3820	DISCCART	578070.90	4194464.50	90.18	367.29	1.50
3821	DISCCART	579970.90	4194964.50	116.56	239.60	1.50
3822	DISCCART	578770.90	4197964.50	175.62	452.04	1.50
3823	DISCCART	580670.90	4194764.50	107.42	198.92	1.50
3824	DISCCART	578770.90	4194664.50	90.33	340.58	1.50
3825	DISCCART	578270.90	4194464.50	87.65	367.29	1.50
3826	DISCCART	578870.90	4194864.50	117.88	340.58	1.50
3827	DISCCART	578970.90	4195564.50	154.15	337.91	1.50
3828	DISCCART	578970.90	4198364.50	165.40	452.04	1.50
3829	DISCCART	578670.90	4195964.50	133.42	432.78	1.50
3830	DISCCART	579470.90	4194564.50	80.67	326.41	1.50
3831	DISCCART	578870.90	4194764.50	101.25	340.58	1.50
3832	DISCCART	580470.90	4194864.50	103.09	239.60	1.50
3833	DISCCART	578570.90	4194564.50	88.30	340.58	1.50
3834	DISCCART	580070.90	4194964.50	110.47	239.60	1.50
3835	DISCCART	579870.90	4194764.50	101.91	326.41	1.50
3836	DISCCART	579370.90	4194564.50	92.62	326.41	1.50
3837	DISCCART	579070.90	4194764.50	98.62	340.58	1.50
3838	DISCCART	578670.90	4197864.50	162.93	452.04	1.50
3839	DISCCART	579370.90	4194464.50	114.19	326.41	1.50
3840	DISCCART	579070.90	4196864.50	161.77	434.73	1.50
3841	DISCCART	578970.90	4198864.50	115.05	452.04	1.50
3842	DISCCART	579270.90	4194664.50	91.16	337.91	1.50
3843	DISCCART	578370.90	4194464.50	87.36	340.58	1.50
3844	DISCCART	579570.90	4194564.50	78.31	326.41	1.50
3845	DISCCART	580670.90	4195164.50	150.05	198.92	1.50
3846	DISCCART	578970.90	4198764.50	127.65	452.04	1.50
3847	DISCCART	578570.90	4196164.50	133.15	434.73	1.50
3848	DISCCART	578670.90	4197964.50	167.51	452.04	1.50
3849	DISCCART	580570.90	4195064.50	132.40	198.92	1.50
3850	DISCCART	579770.90	4194664.50	80.16	326.41	1.50
3851	DISCCART	580070.90	4195364.50	150.45	239.60	1.50
3852	DISCCART	578970.90	4195664.50	156.69	337.91	1.50
3853	DISCCART	579070.90	4196964.50	167.93	434.73	1.50
3854	DISCCART	580470.90	4194964.50	119.24	198.92	1.50
3855	DISCCART	578670.90	4198064.50	167.76	452.04	1.50
3856	DISCCART	580870.90	4194364.50	76.68	198.92	1.50
3857	DISCCART	578370.90	4196564.50	131.51	452.04	1.50
3858	DISCCART	578670.90	4197664.50	157.57	452.04	1.50
3859	DISCCART	579070.90	4198864.50	121.60	452.04	1.50
3860	DISCCART	578970.90	4198964.50	104.64	452.04	1.50
3861	DISCCART	580070.90	4194864.50	101.09	318.15	1.50
3862	DISCCART	578770.90	4196764.50	140.09	434.73	1.50
3863	DISCCART	580770.90	4194464.50	81.79	198.92	1.50
3864	DISCCART	580770.90	4195064.50	150.14	198.92	1.50

3865	DISCCART	578970.90	4197264.50	175.08	434.73	1.50
3866	DISCCART	578070.90	4194364.50	88.72	367.29	1.50
3867	DISCCART	578570.90	4196664.50	136.78	437.57	1.50
3868	DISCCART	579270.90	4194864.50	100.91	337.91	1.50
3869	DISCCART	578870.90	4194664.50	91.59	340.58	1.50
3870	DISCCART	579270.90	4194564.50	94.37	326.41	1.50
3871	DISCCART	580670.90	4195064.50	142.43	198.92	1.50
3872	DISCCART	578970.90	4198464.50	164.11	452.04	1.50
3873	DISCCART	578170.90	4194364.50	86.10	367.29	1.50
3874	DISCCART	578470.90	4196364.50	136.95	434.73	1.50
3875	DISCCART	578770.90	4198064.50	194.95	452.04	1.50
3876	DISCCART	579470.90	4194464.50	87.87	326.41	1.50
3877	DISCCART	578670.90	4194564.50	88.25	340.58	1.50
3878	DISCCART	578170.90	4194864.50	128.32	340.58	1.50
3879	DISCCART	578970.90	4196764.50	157.95	434.73	1.50
3880	DISCCART	578770.90	4198964.50	113.08	452.04	1.50
3881	DISCCART	580370.90	4194864.50	105.57	239.60	1.50
3882	DISCCART	579470.90	4194364.50	108.39	326.41	1.50
3883	DISCCART	578970.90	4198564.50	153.66	452.04	1.50
3884	DISCCART	579670.90	4194564.50	78.37	326.41	1.50
3885	DISCCART	578470.90	4194464.50	86.81	340.58	1.50
3886	DISCCART	579970.90	4194764.50	99.42	318.15	1.50
3887	DISCCART	578770.90	4196364.50	155.35	432.78	1.50
3888	DISCCART	578870.90	4196764.50	150.72	434.73	1.50
3889	DISCCART	578970.90	4198664.50	145.60	452.04	1.50
3890	DISCCART	578670.90	4198164.50	176.18	452.04	1.50
3891	DISCCART	578670.90	4198964.50	113.39	452.04	1.50
3892	DISCCART	578770.90	4198164.50	196.78	452.04	1.50
3893	DISCCART	578870.90	4197364.50	172.58	434.73	1.50
3894	DISCCART	578270.90	4194364.50	84.85	340.58	1.50
3895	DISCCART	579870.90	4194664.50	82.20	326.41	1.50
3896	DISCCART	578970.90	4194664.50	95.47	340.58	1.50
3897	DISCCART	580170.90	4195064.50	119.27	239.60	1.50
3898	DISCCART	580070.90	4195164.50	133.72	239.60	1.50
3899	DISCCART	578670.90	4196764.50	138.63	437.57	1.50
3900	DISCCART	580670.90	4194664.50	108.73	198.92	1.50
3901	DISCCART	580570.90	4195264.50	163.39	176.45	1.50
3902	DISCCART	579370.90	4194364.50	118.47	318.15	1.50
3903	DISCCART	578570.90	4196564.50	144.57	434.73	1.50
3904	DISCCART	579570.90	4194464.50	78.68	326.41	1.50
3905	DISCCART	578870.90	4198364.50	191.96	452.04	1.50
3906	DISCCART	580370.90	4194964.50	119.27	198.92	1.50
3907	DISCCART	578770.90	4197464.50	167.86	452.04	1.50
3908	DISCCART	580170.90	4194864.50	103.95	239.60	1.50
3909	DISCCART	578570.90	4195064.50	139.88	340.58	1.50
3910	DISCCART	580070.90	4195064.50	126.75	239.60	1.50
3911	DISCCART	580270.90	4194864.50	105.73	239.60	1.50
3912	DISCCART	578570.90	4197864.50	169.13	452.04	1.50
3913	DISCCART	580770.90	4194364.50	80.44	198.92	1.50
3914	DISCCART	578770.90	4195764.50	145.79	340.58	1.50
3915	DISCCART	578770.90	4194564.50	87.90	340.58	1.50
3916	DISCCART	578570.90	4198964.50	114.34	452.04	1.50
3917	DISCCART	579770.90	4194564.50	78.62	326.41	1.50
3918	DISCCART	579170.90	4194764.50	99.07	337.91	1.50
3919	DISCCART	578570.90	4194464.50	83.81	340.58	1.50
3920	DISCCART	579970.90	4194664.50	87.41	326.41	1.50
3921	DISCCART	578370.90	4194364.50	83.46	340.58	1.50
3922	DISCCART	580570.90	4195164.50	153.82	198.92	1.50
3923	DISCCART	578770.90	4194864.50	129.48	340.58	1.50
3924	DISCCART	578570.90	4196064.50	139.85	432.78	1.50
3925	DISCCART	578370.90	4196664.50	135.78	452.04	1.50
3926	DISCCART	580370.90	4194764.50	106.32	198.92	1.50
3927	DISCCART	579170.90	4194864.50	104.21	337.91	1.50
3928	DISCCART	578570.90	4195164.50	144.61	340.58	1.50
3929	DISCCART	578670.90	4198264.50	192.95	452.04	1.50
3930	DISCCART	578770.90	4198864.50	132.40	452.04	1.50
3931	DISCCART	578870.90	4198964.50	126.93	452.04	1.50
3932	DISCCART	578770.90	4198264.50	212.94	452.04	1.50
3933	DISCCART	578870.90	4198764.50	145.62	452.04	1.50

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3934	DISCCART	580170.90	4194964.50	116.65	239.60	1.50
3935	DISCCART	580070.90	4195264.50	149.75	239.48	1.50
3936	DISCCART	578670.90	4196464.50	155.42	434.73	1.50
3937	DISCCART	578570.90	4198864.50	123.68	452.04	1.50
3938	DISCCART	580670.90	4194564.50	105.22	184.33	1.50
3939	DISCCART	579670.90	4194464.50	76.87	326.41	1.50
3940	DISCCART	580070.90	4194764.50	104.12	184.33	1.50
3941	DISCCART	578270.90	4196564.50	135.94	452.04	1.50
3942	DISCCART	580270.90	4194964.50	117.31	239.60	1.50
3943	DISCCART	578970.90	4197164.50	187.96	434.73	1.50
3944	DISCCART	578370.90	4198564.50	142.78	452.04	1.50
3945	DISCCART	578870.90	4194564.50	94.83	340.58	1.50
3946	DISCCART	580070.90	4194664.50	98.14	184.33	1.50
3947	DISCCART	579270.90	4194364.50	120.25	326.41	1.50
3948	DISCCART	578470.90	4198864.50	122.07	452.04	1.50
3949	DISCCART	579170.90	4195164.50	136.22	326.41	1.50
3950	DISCCART	578570.90	4196764.50	139.85	452.04	1.50
3951	DISCCART	580470.90	4195064.50	139.66	198.92	1.50
3952	DISCCART	578570.90	4197964.50	185.22	452.04	1.50
3953	DISCCART	578370.90	4198464.50	147.35	452.04	1.50
3954	DISCCART	578970.90	4194864.50	119.42	337.91	1.50
3955	DISCCART	580470.90	4194764.50	118.11	184.33	1.50
3956	DISCCART	580170.90	4195364.50	155.21	239.60	1.50
3957	DISCCART	578670.90	4197564.50	173.33	452.04	1.50
3958	DISCCART	578470.90	4198764.50	135.17	452.04	1.50
3959	DISCCART	579870.90	4194564.50	82.02	326.41	1.50
3960	DISCCART	578370.90	4198664.50	142.70	452.04	1.50
3961	DISCCART	578970.90	4197064.50	182.44	434.73	1.50
3962	DISCCART	578270.90	4196664.50	135.44	452.04	1.50
3963	DISCCART	578470.90	4198564.50	158.27	452.04	1.50
3964	DISCCART	579570.90	4194364.50	79.12	326.41	1.50
3965	DISCCART	580570.90	4194764.50	121.94	184.33	1.50
3966	DISCCART	578670.90	4194464.50	84.70	340.58	1.50
3967	DISCCART	579070.90	4194864.50	111.67	337.91	1.50
3968	DISCCART	578370.90	4196464.50	141.52	434.73	1.50
3969	DISCCART	578570.90	4197764.50	177.07	452.04	1.50
3970	DISCCART	578470.90	4198664.50	150.88	452.04	1.50
3971	DISCCART	578470.90	4194364.50	80.91	340.58	1.50
3972	DISCCART	578370.90	4198364.50	154.91	452.04	1.50
3973	DISCCART	578370.90	4198764.50	138.07	452.04	1.50
3974	DISCCART	578470.90	4198464.50	165.95	452.04	1.50
3975	DISCCART	578870.90	4198864.50	145.88	452.04	1.50
3976	DISCCART	580670.90	4194364.50	96.62	184.33	1.50
3977	DISCCART	578570.90	4198164.50	195.51	452.04	1.50
3978	DISCCART	578570.90	4198264.50	192.79	452.04	1.50
3979	DISCCART	578470.90	4198264.50	175.22	452.04	1.50
3980	DISCCART	578470.90	4198964.50	121.25	452.04	1.50
3981	DISCCART	578870.90	4198664.50	169.51	452.04	1.50
3982	DISCCART	578470.90	4198364.50	174.00	452.04	1.50
3983	DISCCART	578570.90	4197664.50	171.88	452.04	1.50
3984	DISCCART	578570.90	4198764.50	142.45	452.04	1.50
3985	DISCCART	579970.90	4194564.50	94.78	318.15	1.50
3986	DISCCART	578670.90	4196864.50	144.31	437.57	1.50
3987	DISCCART	578870.90	4198464.50	213.69	452.04	1.50
3988	DISCCART	578470.90	4198164.50	180.19	452.04	1.50
3989	DISCCART	579770.90	4194464.50	76.63	326.41	1.50
3990	DISCCART	578470.90	4195164.50	146.88	340.58	1.50
3991	DISCCART	578570.90	4198064.50	201.58	452.04	1.50
3992	DISCCART	578970.90	4196864.50	179.32	326.41	1.50
3993	DISCCART	578770.90	4197364.50	178.48	434.73	1.50
3994	DISCCART	578470.90	4196264.50	152.19	434.73	1.50
3995	DISCCART	578470.90	4196664.50	146.88	434.73	1.50
3996	DISCCART	578370.90	4198264.50	165.49	452.04	1.50
3997	DISCCART	578870.90	4198564.50	192.72	452.04	1.50
3998	DISCCART	580270.90	4194764.50	109.41	184.33	1.50
3999	DISCCART	578370.90	4198864.50	132.65	452.04	1.50
4000	DISCCART	578770.90	4198364.50	229.37	434.73	1.50
4001	DISCCART	578470.90	4198064.50	184.20	452.04	1.50
4002	DISCCART	580370.90	4194664.50	111.98	184.33	1.50

4003	DISCCART	579270.90	4194964.50	118.50	326.41	1.50
4004	DISCCART	578970.90	4196964.50	186.46	201.18	1.50
4005	DISCCART	578570.90	4198564.50	179.53	452.04	1.50
4006	DISCCART	578570.90	4194964.50	143.58	340.58	1.50
4007	DISCCART	578770.90	4194464.50	82.66	340.58	1.50
4008	DISCCART	580270.90	4195364.50	158.24	239.60	1.50
4009	DISCCART	578770.90	4196864.50	157.05	434.73	1.50
4010	DISCCART	578570.90	4195964.50	148.29	340.58	1.50
4011	DISCCART	578870.90	4197264.50	195.18	434.73	1.50
4012	DISCCART	579670.90	4194364.50	75.22	326.41	1.50
4013	DISCCART	578470.90	4197964.50	185.66	452.04	1.50
4014	DISCCART	578370.90	4198164.50	173.06	452.04	1.50
4015	DISCCART	580570.90	4194664.50	120.21	184.33	1.50
4016	DISCCART	578570.90	4198464.50	194.92	452.04	1.50
4017	DISCCART	578570.90	4194364.50	80.09	340.58	1.50
4018	DISCCART	580470.90	4195264.50	174.47	176.36	1.50
4019	DISCCART	580270.90	4194564.50	96.48	184.33	1.50
4020	DISCCART	578870.90	4196864.50	170.58	434.73	1.50
4021	DISCCART	580670.90	4194464.50	107.31	139.52	1.50
4022	DISCCART	580370.90	4195364.50	171.51	177.99	1.50
4023	DISCCART	578470.90	4196764.50	142.41	452.04	1.50
4024	DISCCART	578570.90	4198364.50	205.50	452.04	1.50
4025	DISCCART	578870.90	4194464.50	91.90	340.58	1.50
4026	DISCCART	578970.90	4195264.50	159.17	326.41	1.50
4027	DISCCART	578670.90	4198864.50	146.42	452.04	1.50
4028	DISCCART	578970.90	4195464.50	174.27	326.41	1.50
4029	DISCCART	578770.90	4198764.50	163.68	452.04	1.50
4030	DISCCART	579070.90	4195164.50	148.60	326.41	1.50
4031	DISCCART	579870.90	4194464.50	77.36	326.41	1.50
4032	DISCCART	578370.90	4196364.50	150.37	434.73	1.50
4033	DISCCART	579270.90	4195064.50	127.54	326.41	1.50
4034	DISCCART	578070.90	4194864.50	137.17	340.58	1.50
4035	DISCCART	580570.90	4194364.50	96.29	184.33	1.50
4036	DISCCART	578170.90	4196664.50	138.50	452.04	1.50
4037	DISCCART	578570.90	4196864.50	143.18	452.04	1.50
4038	DISCCART	578670.90	4198364.50	231.75	437.57	1.50
4039	DISCCART	579170.90	4194564.50	112.74	326.41	1.50
4040	DISCCART	580270.90	4194664.50	107.47	184.33	1.50
4041	DISCCART	580370.90	4194564.50	109.45	184.33	1.50
4042	DISCCART	578370.90	4198064.50	180.34	452.04	1.50
4043	DISCCART	578670.90	4196964.50	154.78	437.57	1.50
4044	DISCCART	578570.90	4197064.50	150.26	452.04	1.50
4045	DISCCART	578670.90	4198764.50	164.67	452.04	1.50
4046	DISCCART	580570.90	4194564.50	116.18	184.33	1.50
4047	DISCCART	578570.90	4198664.50	182.62	452.04	1.50
4048	DISCCART	579970.90	4194464.50	86.87	318.15	1.50
4049	DISCCART	578970.90	4194964.50	135.33	337.91	1.50
4050	DISCCART	578270.90	4198264.50	170.57	452.04	1.50
4051	DISCCART	579770.90	4194364.50	75.04	326.41	1.50
4052	DISCCART	578170.90	4196564.50	143.04	452.04	1.50
4053	DISCCART	579070.90	4194664.50	102.83	337.91	1.50
4054	DISCCART	578570.90	4196964.50	146.61	452.04	1.50
4055	DISCCART	578670.90	4194364.50	80.14	340.58	1.50
4056	DISCCART	578870.90	4195664.50	178.33	337.91	1.50
4057	DISCCART	578670.90	4198464.50	231.88	452.04	1.50
4058	DISCCART	580470.90	4194464.50	105.98	184.33	1.50
4059	DISCCART	578770.90	4198464.50	247.64	434.73	1.50
4060	DISCCART	578470.90	4196064.50	152.84	432.78	1.50
4061	DISCCART	578270.90	4198664.50	163.79	452.04	1.50
4062	DISCCART	578270.90	4198164.50	174.29	452.04	1.50
4063	DISCCART	580370.90	4195064.50	145.27	184.33	1.50
4064	DISCCART	578870.90	4197164.50	201.68	201.68	1.50
4065	DISCCART	579170.90	4194664.50	112.87	326.41	1.50
4066	DISCCART	578670.90	4198564.50	217.96	452.04	1.50
4067	DISCCART	579270.90	4194464.50	129.00	326.41	1.50
4068	DISCCART	580570.90	4194464.50	109.60	184.33	1.50
4069	DISCCART	578670.90	4195864.50	157.99	340.58	1.50
4070	DISCCART	578670.90	4198664.50	195.96	452.04	1.50
4071	DISCCART	580270.90	4194464.50	91.89	184.33	1.50

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4072	DISCCART	578270.90	4198564.50	169.92	452.04	1.50
4073	DISCCART	578770.90	4198664.50	204.72	452.04	1.50
4074	DISCCART	580470.90	4194364.50	94.13	184.33	1.50
4075	DISCCART	580470.90	4195164.50	172.62	172.62	1.50
4076	DISCCART	578270.90	4198764.50	164.33	452.04	1.50
4077	DISCCART	580370.90	4194464.50	101.81	184.33	1.50
4078	DISCCART	578870.90	4195464.50	179.37	326.41	1.50
4079	DISCCART	578470.90	4197864.50	201.55	452.04	1.50
4080	DISCCART	578870.90	4194364.50	85.65	340.58	1.50
4081	DISCCART	578870.90	4197064.50	194.39	199.77	1.50
4082	DISCCART	578370.90	4194864.50	145.69	340.58	1.50
4083	DISCCART	578370.90	4198964.50	141.47	452.04	1.50
4084	DISCCART	578270.90	4196464.50	149.80	434.73	1.50
4085	DISCCART	578770.90	4194364.50	78.54	340.58	1.50
4086	DISCCART	578770.90	4195664.50	170.15	340.58	1.50
4087	DISCCART	578370.90	4197964.50	191.40	452.04	1.50
4088	DISCCART	578270.90	4198464.50	177.98	452.04	1.50
4089	DISCCART	578270.90	4198364.50	181.99	452.04	1.50
4090	DISCCART	578770.90	4198564.50	242.00	434.73	1.50
4091	DISCCART	579870.90	4194364.50	75.73	326.41	1.50
4092	DISCCART	578470.90	4196864.50	144.89	452.04	1.50
4093	DISCCART	578870.90	4196964.50	192.97	201.18	1.50
4094	DISCCART	579170.90	4194464.50	122.58	326.41	1.50
4095	DISCCART	579170.90	4194964.50	127.47	326.41	1.50
4096	DISCCART	578270.90	4198864.50	165.13	452.04	1.50
4097	DISCCART	578770.90	4196964.50	178.69	434.73	1.50
4098	DISCCART	578470.90	4197164.50	154.78	452.04	1.50
4099	DISCCART	579970.90	4194364.50	88.53	184.33	1.50
4100	DISCCART	580370.90	4194364.50	97.70	184.33	1.50
4101	DISCCART	578470.90	4196164.50	165.66	432.78	1.50
4102	DISCCART	578470.90	4197764.50	199.98	452.04	1.50
4103	DISCCART	578270.90	4198964.50	152.27	452.04	1.50
4104	DISCCART	578670.90	4197464.50	206.23	434.73	1.50
4105	DISCCART	580470.90	4194564.50	125.27	139.52	1.50
4106	DISCCART	578470.90	4197064.50	152.12	452.04	1.50
4107	DISCCART	578170.90	4198264.50	177.20	452.04	1.50
4108	DISCCART	578870.90	4195364.50	177.50	326.41	1.50
4109	DISCCART	578470.90	4197664.50	187.97	452.04	1.50
4110	DISCCART	578470.90	4196964.50	147.68	452.04	1.50
4111	DISCCART	580370.90	4195264.50	178.96	178.96	1.50
4112	DISCCART	578170.90	4196764.50	139.69	452.04	1.50
4113	DISCCART	578570.90	4197564.50	199.23	437.57	1.50
4114	DISCCART	578270.90	4198064.50	190.74	452.04	1.50
4115	DISCCART	580070.90	4194364.50	95.07	184.33	1.50
4116	DISCCART	578470.90	4195964.50	157.63	340.58	1.50
4117	DISCCART	578570.90	4197164.50	166.14	452.04	1.50
4118	DISCCART	580270.90	4194364.50	85.01	184.33	1.50
4119	DISCCART	580170.90	4194364.50	93.30	184.33	1.50
4120	DISCCART	580470.90	4194664.50	133.58	139.52	1.50
4121	DISCCART	579170.90	4195064.50	141.55	326.41	1.50
4122	DISCCART	580070.90	4194464.50	102.22	184.33	1.50
4123	DISCCART	578170.90	4194964.50	149.75	340.58	1.50
4124	DISCCART	578770.90	4197264.50	209.96	434.73	1.50
4125	DISCCART	578670.90	4197064.50	176.07	434.73	1.50
4126	DISCCART	578870.90	4194964.50	148.58	326.41	1.50
4127	DISCCART	578870.90	4195064.50	156.72	326.41	1.50
4128	DISCCART	578770.90	4197164.50	199.70	434.73	1.50
4129	DISCCART	580070.90	4194564.50	112.27	184.33	1.50
4130	DISCCART	578170.90	4198664.50	179.42	452.04	1.50
4131	DISCCART	578170.90	4198364.50	188.94	452.04	1.50
4132	DISCCART	578370.90	4197864.50	204.01	452.04	1.50
4133	DISCCART	580170.90	4195164.50	154.56	184.33	1.50
4134	DISCCART	578270.90	4196764.50	148.43	452.04	1.50
4135	DISCCART	578770.90	4197064.50	195.21	434.73	1.50
4136	DISCCART	578170.90	4198164.50	187.60	452.04	1.50
4137	DISCCART	580170.90	4194664.50	117.21	184.33	1.50
4138	DISCCART	579070.90	4194964.50	137.47	326.41	1.50
4139	DISCCART	578670.90	4197164.50	183.94	434.73	1.50
4140	DISCCART	580170.90	4194564.50	111.25	184.33	1.50

4141	DISCCART	578870.90	4195564.50	200.26	326.41	1.50
4142	DISCCART	578070.90	4196664.50	148.41	452.04	1.50
4143	DISCCART	578370.90	4197164.50	155.95	452.04	1.50
4144	DISCCART	580370.90	4195164.50	172.53	184.33	1.50
4145	DISCCART	578670.90	4197264.50	196.57	434.73	1.50
4146	DISCCART	579070.90	4194464.50	116.64	326.41	1.50
4147	DISCCART	578670.90	4197364.50	212.89	434.73	1.50
4148	DISCCART	578270.90	4194864.50	154.60	340.58	1.50
4149	DISCCART	578370.90	4197064.50	153.41	452.04	1.50
4150	DISCCART	578370.90	4197264.50	159.03	452.04	1.50
4151	DISCCART	580170.90	4194464.50	107.31	184.33	1.50
4152	DISCCART	580270.90	4195264.50	174.26	183.36	1.50
4153	DISCCART	578070.90	4196764.50	142.32	452.04	1.50
4154	DISCCART	578070.90	4198264.50	184.39	452.04	1.50
4155	DISCCART	578570.90	4197464.50	204.54	434.73	1.50
4156	DISCCART	578070.90	4198964.50	170.89	452.04	1.50
4157	DISCCART	578970.90	4194464.50	104.08	337.91	1.50
4158	DISCCART	578170.90	4198564.50	200.60	452.04	1.50
4159	DISCCART	579070.90	4195064.50	153.33	326.41	1.50
4160	DISCCART	580170.90	4194764.50	125.82	184.33	1.50
4161	DISCCART	578470.90	4197264.50	170.51	452.04	1.50
4162	DISCCART	578470.90	4197564.50	197.19	452.04	1.50
4163	DISCCART	578370.90	4197464.50	169.32	452.04	1.50
4164	DISCCART	578070.90	4198364.50	189.86	452.04	1.50
4165	DISCCART	578370.90	4196264.50	173.88	432.78	1.50
4166	DISCCART	578170.90	4198964.50	179.86	452.04	1.50
4167	DISCCART	578670.90	4194964.50	158.70	337.91	1.50
4168	DISCCART	578370.90	4197364.50	164.66	452.04	1.50
4169	DISCCART	578270.90	4197964.50	211.72	452.04	1.50
4170	DISCCART	580170.90	4195264.50	178.00	182.44	1.50
4171	DISCCART	578570.90	4197264.50	187.36	434.73	1.50
4172	DISCCART	580270.90	4195064.50	153.39	184.33	1.50
4173	DISCCART	580270.90	4195164.50	164.27	184.33	1.50
4174	DISCCART	578370.90	4196764.50	161.01	434.73	1.50
4175	DISCCART	578170.90	4196864.50	140.92	452.04	1.50
4176	DISCCART	578170.90	4198464.50	216.66	452.04	1.50
4177	DISCCART	578170.90	4198764.50	203.11	452.04	1.50
4178	DISCCART	578970.90	4195164.50	169.46	326.41	1.50
4179	DISCCART	578770.90	4195464.50	198.20	326.41	1.50
4180	DISCCART	578470.90	4195264.50	173.28	340.58	1.50
4181	DISCCART	578270.90	4196864.50	150.64	452.04	1.50
4182	DISCCART	578770.90	4195564.50	201.88	326.41	1.50
4183	DISCCART	578570.90	4195264.50	180.38	337.91	1.50
4184	DISCCART	578270.90	4196364.50	169.45	434.73	1.50
4185	DISCCART	579070.90	4194564.50	119.20	326.41	1.50
4186	DISCCART	578270.90	4197864.50	209.78	452.04	1.50
4187	DISCCART	578670.90	4195764.50	178.10	340.58	1.50
4188	DISCCART	578270.90	4197264.50	160.68	452.04	1.50
4189	DISCCART	578370.90	4197764.50	222.97	452.04	1.50
4190	DISCCART	578670.90	4195164.50	176.30	326.41	1.50
4191	DISCCART	578170.90	4198864.50	208.19	452.04	1.50
4192	DISCCART	579070.90	4194364.50	126.46	326.41	1.50
4193	DISCCART	578270.90	4197464.50	167.07	452.04	1.50
4194	DISCCART	578770.90	4195364.50	197.27	326.41	1.50
4195	DISCCART	578170.90	4198064.50	215.57	452.04	1.50
4196	DISCCART	578370.90	4197664.50	206.19	452.04	1.50
4197	DISCCART	578070.90	4198164.50	202.37	452.04	1.50
4198	DISCCART	578270.90	4197364.50	163.77	452.04	1.50
4199	DISCCART	578870.90	4195264.50	185.90	326.41	1.50
4200	DISCCART	578970.90	4194564.50	113.07	326.41	1.50
4201	DISCCART	578070.90	4198864.50	200.57	452.04	1.50
4202	DISCCART	578870.90	4195164.50	175.32	326.41	1.50
4203	DISCCART	578370.90	4196064.50	178.80	340.58	1.50
4204	DISCCART	578170.90	4196464.50	164.27	434.73	1.50
4205	DISCCART	578370.90	4196864.50	163.65	437.57	1.50
4206	DISCCART	578370.90	4197564.50	195.41	452.04	1.50
4207	DISCCART	578170.90	4197064.50	148.48	452.04	1.50
4208	DISCCART	578470.90	4195864.50	170.17	340.58	1.50
4209	DISCCART	578070.90	4198464.50	221.25	452.04	1.50

4210	DISCCART	578570.90	4195864.50	175.60	340.58	1.50
4211	DISCCART	578270.90	4195064.50	168.69	340.58	1.50
4212	DISCCART	578070.90	4196864.50	143.91	452.04	1.50
4213	DISCCART	578570.90	4197364.50	217.88	434.73	1.50
4214	DISCCART	578470.90	4197464.50	207.84	434.73	1.50
4215	DISCCART	578070.90	4198664.50	218.30	452.04	1.50
4216	DISCCART	579170.90	4194364.50	138.66	318.15	1.50
4217	DISCCART	578270.90	4197764.50	205.87	452.04	1.50
4218	DISCCART	578170.90	4197964.50	213.87	452.04	1.50
4219	DISCCART	578070.90	4198564.50	228.80	452.04	1.50
4220	DISCCART	578670.90	4195664.50	191.33	337.91	1.50
4221	DISCCART	578470.90	4197364.50	201.10	434.73	1.50
4222	DISCCART	578370.90	4195164.50	176.69	340.58	1.50
4223	DISCCART	578370.90	4196164.50	190.93	340.58	1.50
4224	DISCCART	578170.90	4197564.50	170.16	452.04	1.50
4225	DISCCART	578370.90	4194964.50	170.02	337.91	1.50
4226	DISCCART	578570.90	4195364.50	193.48	337.89	1.50
4227	DISCCART	578170.90	4197664.50	178.89	452.04	1.50
4228	DISCCART	578770.90	4195164.50	182.16	326.41	1.50
4229	DISCCART	578070.90	4196964.50	144.64	452.04	1.50
4230	DISCCART	578170.90	4197164.50	161.19	452.04	1.50
4231	DISCCART	578970.90	4194364.50	119.18	326.41	1.50
4232	DISCCART	578070.90	4197064.50	147.49	452.04	1.50
4233	DISCCART	578070.90	4197164.50	154.27	452.04	1.50
4234	DISCCART	578170.90	4197464.50	168.99	452.04	1.50
4235	DISCCART	578070.90	4198764.50	233.63	452.04	1.50
4236	DISCCART	578670.90	4195264.50	197.22	326.41	1.50
4237	DISCCART	578370.90	4196964.50	173.94	437.57	1.50
4238	DISCCART	578170.90	4197764.50	196.31	452.04	1.50
4239	DISCCART	578270.90	4197664.50	206.34	452.04	1.50
4240	DISCCART	578170.90	4196964.50	156.37	452.04	1.50
4241	DISCCART	578370.90	4195064.50	179.07	337.91	1.50
4242	DISCCART	578670.90	4195464.50	212.69	326.41	1.50
4243	DISCCART	578270.90	4197564.50	195.72	452.04	1.50
4244	DISCCART	578770.90	4195264.50	201.08	326.41	1.50
4245	DISCCART	578170.90	4197864.50	220.02	452.04	1.50
4246	DISCCART	578970.90	4195064.50	172.39	326.41	1.50
4247	DISCCART	578070.90	4197664.50	175.49	452.04	1.50
4248	DISCCART	578070.90	4198064.50	231.81	452.04	1.50
4249	DISCCART	578070.90	4196564.50	169.58	434.73	1.50
4250	DISCCART	578270.90	4196964.50	169.57	452.04	1.50
4251	DISCCART	578270.90	4197064.50	173.53	452.04	1.50
4252	DISCCART	578370.90	4195864.50	176.98	340.58	1.50
4253	DISCCART	578370.90	4195964.50	188.83	340.58	1.50
4254	DISCCART	578070.90	4197764.50	190.02	452.04	1.50
4255	DISCCART	578070.90	4197964.50	221.96	452.04	1.50
4256	DISCCART	578070.90	4197564.50	173.46	452.04	1.50
4257	DISCCART	578670.90	4195364.50	217.75	326.41	1.50
4258	DISCCART	578270.90	4197164.50	181.11	452.04	1.50
4259	DISCCART	578370.90	4195264.50	192.96	337.91	1.50
4260	DISCCART	578670.90	4195564.50	231.07	326.41	1.50
4261	DISCCART	578170.90	4195064.50	180.64	340.58	1.50
4262	DISCCART	578070.90	4197864.50	219.03	452.04	1.50
4263	DISCCART	578670.90	4195064.50	186.43	326.41	1.50
4264	DISCCART	578070.90	4197264.50	175.60	452.04	1.50
4265	DISCCART	578470.90	4195364.50	210.76	326.41	1.50
4266	DISCCART	578770.90	4194964.50	178.25	326.41	1.50
4267	DISCCART	578170.90	4197364.50	189.56	452.04	1.50
4268	DISCCART	578170.90	4197264.50	185.90	452.04	1.50
4269	DISCCART	578770.90	4195064.50	190.75	326.41	1.50
4270	DISCCART	578270.90	4195164.50	194.53	337.91	1.50
4271	DISCCART	578270.90	4196264.50	209.50	340.58	1.50
4272	DISCCART	578270.90	4195964.50	206.58	340.58	1.50
4273	DISCCART	578570.90	4195464.50	236.59	326.41	1.50
4274	DISCCART	578170.90	4196364.50	200.37	432.78	1.50
4275	DISCCART	578270.90	4196064.50	218.02	340.58	1.50
4276	DISCCART	578570.90	4195764.50	214.14	326.41	1.50
4277	DISCCART	578070.90	4194964.50	186.30	340.58	1.50
4278	DISCCART	578270.90	4194964.50	193.01	326.41	1.50

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4279	DISCCART	578070.90	4197464.50	197.94	452.04	1.50
4280	DISCCART	578170.90	4195164.50	195.60	340.58	1.50
4281	DISCCART	578370.90	4195764.50	193.99	340.58	1.50
4282	DISCCART	578070.90	4197364.50	193.71	452.04	1.50
4283	DISCCART	578370.90	4195364.50	217.82	326.41	1.50
4284	DISCCART	578570.90	4195564.50	247.68	326.41	1.50
4285	DISCCART	578570.90	4195664.50	235.32	326.41	1.50
4286	DISCCART	578470.90	4195464.50	232.38	326.41	1.50
4287	DISCCART	578470.90	4195764.50	211.57	337.91	1.50
4288	DISCCART	578070.90	4196464.50	197.83	432.78	1.50
4289	DISCCART	578270.90	4196164.50	232.42	340.58	1.50
4290	DISCCART	578070.90	4195064.50	200.26	337.91	1.50
4291	DISCCART	578270.90	4195264.50	218.96	326.41	1.50
4292	DISCCART	578070.90	4195164.50	197.75	340.58	1.50
4293	DISCCART	578170.90	4195964.50	227.24	340.58	1.50
4294	DISCCART	578270.90	4195864.50	217.10	340.58	1.50
4295	DISCCART	578170.90	4196064.50	238.94	340.58	1.50
4296	DISCCART	578470.90	4195664.50	242.03	326.41	1.50
4297	DISCCART	578470.90	4195564.50	257.93	326.41	1.50
4298	DISCCART	578170.90	4196264.50	236.06	340.58	1.50
4299	DISCCART	578370.90	4195664.50	225.41	337.89	1.50
4300	DISCCART	578370.90	4195464.50	246.23	326.41	1.50
4301	DISCCART	578270.90	4195364.50	233.96	326.41	1.50
4302	DISCCART	578070.90	4196364.50	233.02	340.58	1.50
4303	DISCCART	578170.90	4195264.50	230.64	326.41	1.50
4304	DISCCART	578270.90	4195764.50	229.13	337.91	1.50
4305	DISCCART	578270.90	4195464.50	250.58	326.41	1.50
4306	DISCCART	578370.90	4195564.50	280.40	318.15	1.50
4307	DISCCART	578070.90	4195264.50	233.36	326.41	1.50
4308	DISCCART	578170.90	4196164.50	270.53	326.41	1.50
4309	DISCCART	578170.90	4195364.50	254.46	326.41	1.50
4310	DISCCART	578270.90	4195664.50	254.84	326.41	1.50
4311	DISCCART	578170.90	4195864.50	266.57	326.41	1.50
4312	DISCCART	578070.90	4196064.50	268.68	326.41	1.50
4313	DISCCART	578070.90	4195964.50	274.03	326.41	1.50
4314	DISCCART	578070.90	4196264.50	266.25	326.41	1.50
4315	DISCCART	578270.90	4195564.50	289.31	318.15	1.50
4316	DISCCART	578070.90	4195364.50	258.32	326.41	1.50
4317	DISCCART	578170.90	4195464.50	277.51	326.41	1.50
4318	DISCCART	578070.90	4195464.50	249.28	326.41	1.50
4319	DISCCART	578070.90	4196164.50	283.79	326.41	1.50
4320	DISCCART	578170.90	4195764.50	281.25	326.41	1.50
4321	DISCCART	578170.90	4195564.50	281.60	326.41	1.50
4322	DISCCART	578170.90	4195664.50	289.58	326.41	1.50
4323	DISCCART	578070.90	4195864.50	307.88	326.41	1.50
4324	DISCCART	578070.90	4195564.50	282.13	326.41	1.50
4325	DISCCART	578070.90	4195764.50	311.37	318.15	1.50
4326	DISCCART	578070.90	4195664.50	313.59	318.15	1.50
4327						

```

1  **
2  *****
3  ** AERMOD Control Pathway
4  *****
5  **
6  **
7  CO STARTING
8  TITLEONE EBMUD Lafayette Water Treatment Plant - HRA
9  MODELOPT DFAULT CONC
10 AVERTIME 1 PERIOD
11 POLLUTID DPM
12 FLAGPOLE 1.50
13 RUNORNOT RUN
14 ERRORFIL EBMUD_LAFAYETTE_[RESIDENTIAL, WORKER].err
15 CO FINISHED
16 **
17 *****
18 ** AERMOD Source Pathway
19 *****
20 **
21 **
22 SO STARTING
23 ** Source Location **
24 ** Source ID - Type - X Coord. - Y Coord. **
25 LOCATION PAREA1 AREAPOLY 575701.935 4193875.593 118.240
26 LOCATION PAREA2 AREAPOLY 575748.062 4193831.998 117.740
27 ** Source Parameters **
28 SRCPARAM PAREA1 0.0015625635 5.000 4
29 AREAVERT PAREA1 575701.935 4193875.593 575737.751 4193850.449
30 AREAVERT PAREA1 575712.246 4193813.910 575675.887 4193840.319
31 SRCPARAM PAREA2 0.0028380784 5.000 8
32 AREAVERT PAREA2 575748.062 4193831.998 575743.901 4193826.029
33 AREAVERT PAREA2 575755.478 4193818.251 575747.129 4193804.182
34 AREAVERT PAREA2 575784.279 4193779.571 575793.930 4193793.690
35 AREAVERT PAREA2 575782.973 4193801.067 575786.493 4193806.077
36
37 ** Variable Emissions Type: "By Hour / Day (HRDOW)"
38 ** Variable Emission Scenario: "M-F 7a-6p"
39 ** WeekDays:
40 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
41 EMISFACT PAREA1 HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
42 EMISFACT PAREA1 HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
43 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
44 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
45 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
46 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
47 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
48 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
49 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
50 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
51 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
52 ** Saturday:
53 ** Sunday:
54 ** WeekDays:
55 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
56 EMISFACT PAREA2 HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
57 EMISFACT PAREA2 HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
58 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
59 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
60 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
61 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
62 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
63 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
64 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
65 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
66 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
67 ** Saturday:
68 ** Sunday:
69 SRCGROUP PAREA1 PAREA1

```

```
70     SRCGROUP PAREA2   PAREA2
71     SRCGROUP ALL
72 SO FINISHED
73 **
74 *****
75 ** AERMOD Receptor Pathway
76 *****
77 **
78 **
79 RE STARTING
80     INCLUDED ..\EBMUD_LAFAYETTE_[RESIDENTIAL, WORKER].ROU
81 RE FINISHED
82 **
83 *****
84 ** AERMOD Meteorology Pathway
85 *****
86 **
87 **
88 ME STARTING
89     SURFFILE ..\724930.SFC
90     PROFFILE ..\724930.PFL
91     SURFDATA 23230 2009 OAKLAND/WSO_AP
92     UAIRDATA 23230 2009 OAKLAND/WSO_AP
93     PROFBASE 1.8 METERS
94 ME FINISHED
95 **
96 *****
97 ** AERMOD Output Pathway
98 *****
99 **
100 **
101 OU STARTING
102     RECTABLE ALLAVE 1ST
103     RECTABLE 1 1ST
104     PLOTFILE PERIOD PAREA1 PE00PAREA1.PLT 31
105     PLOTFILE PERIOD PAREA2 PE00PAREA2.PLT 32
106     PLOTFILE 1 PAREA1 1ST 01HPAREA1.PLT 33
107     PLOTFILE 1 PAREA2 1ST 01HPAREA2.PLT 34
108     FILEFORM EXP
109     SUMMFILE EBMUD_LAFAYETTE_[RESIDENTIAL, WORKER].sum
110 OU FINISHED
111 **
112 *****
113 ** Project Parameters
114 *****
115 ** PROJCTN  CoordinateSystemUTM
116 ** DESCPTN  UTM: Universal Transverse Mercator
117 ** DATUM    World Geodetic System 1984
118 ** DTMRGN   Global Definition
119 ** UNITS    m
120 ** ZONE     10
121 ** ZONEINX  0
122 **
123
```

```

1  **
2  *****
3  ** AERMOD Control Pathway
4  *****
5  **
6  **
7  CO STARTING
8  TITLEONE EBMUD Lafayette Water Treatment Plant - HRA
9  MODELOPT DFAULT CONC
10 AVERTIME ANNUAL
11 POLLUTID PM_2.5
12 FLAGPOLE 1.50
13 RUNORNOT RUN
14 ERRORFIL EBMUD_LAFAYETTE_[RESIDENTIAL, WORKER]_MIT_PM25.err
15 CO FINISHED
16 **
17 *****
18 ** AERMOD Source Pathway
19 *****
20 **
21 **
22 SO STARTING
23 ** Source Location **
24 ** Source ID - Type - X Coord. - Y Coord. **
25 LOCATION PAREA1 AREAPOLY 575701.935 4193875.593 118.240
26 LOCATION PAREA2 AREAPOLY 575748.062 4193831.998 117.740
27 ** Source Parameters **
28 SRCPARAM PAREA1 1.44947E-06 5.000 4
29 AREAVERT PAREA1 575701.935 4193875.593 575737.751 4193850.449
30 AREAVERT PAREA1 575712.246 4193813.910 575675.887 4193840.319
31 SRCPARAM PAREA2 1.44947E-06 5.000 8
32 AREAVERT PAREA2 575748.062 4193831.998 575743.901 4193826.029
33 AREAVERT PAREA2 575755.478 4193818.251 575747.129 4193804.182
34 AREAVERT PAREA2 575784.279 4193779.571 575793.930 4193793.690
35 AREAVERT PAREA2 575782.973 4193801.067 575786.493 4193806.077
36
37 ** Variable Emissions Type: "By Hour / Day (HRDOW)"
38 ** Variable Emission Scenario: "M-F 7a-6p"
39 ** WeekDays:
40 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
41 EMISFACT PAREA1 HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
42 EMISFACT PAREA1 HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
43 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
44 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
45 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
46 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
47 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
48 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
49 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
50 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
51 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
52 ** Saturday:
53 ** Sunday:
54 ** WeekDays:
55 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
56 EMISFACT PAREA2 HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
57 EMISFACT PAREA2 HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
58 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
59 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
60 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
61 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
62 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
63 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
64 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
65 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
66 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
67 ** Saturday:
68 ** Sunday:
69 SRCGROUP PAREA1 PAREA1

```

```
70     SRCGROUP PAREA2   PAREA2
71     SRCGROUP ALL
72 SO FINISHED
73 **
74 *****
75 ** AERMOD Receptor Pathway
76 *****
77 **
78 **
79 RE STARTING
80     INCLUDED ..\..\EBMUD_LAFAYETTE_[RESIDENTIAL, WORKER].ROU
81 RE FINISHED
82 **
83 *****
84 ** AERMOD Meteorology Pathway
85 *****
86 **
87 **
88 ME STARTING
89     SURFFILE ..\..\724930.SFC
90     PROFFILE ..\..\724930.PFL
91     SURFDATA 23230 2009 OAKLAND/WSO_AP
92     UAIRDATA 23230 2009 OAKLAND/WSO_AP
93     PROFBASE 1.8 METERS
94 ME FINISHED
95 **
96 *****
97 ** AERMOD Output Pathway
98 *****
99 **
100 **
101 OU STARTING
102 ** Maximum Annual Average POST files for Each Met Year
103     POSTFILE ANNUAL ALL PLOT ANNUAL_G001.PLT 31
104     POSTFILE ANNUAL PAREA1 PLOT ANNUAL_G002.PLT 32
105     POSTFILE ANNUAL PAREA2 PLOT ANNUAL_G003.PLT 33
106     PLOTFILE ANNUAL PAREA1 ANNALL.PLT 34
107     FILEFORM EXP
108     SUMMFILE EBMUD_LAFAYETTE_[RESIDENTIAL, WORKER]_MIT_PM25.sum
109 OU FINISHED
110 **
111 *****
112 ** Project Parameters
113 *****
114 ** PROJCTN  CoordinateSystemUTM
115 ** DESCPTN  UTM: Universal Transverse Mercator
116 ** DATUM    World Geodetic System 1984
117 ** DTMRGN   Global Definition
118 ** UNITS    m
119 ** ZONE     10
120 ** ZONEINX  0
121 **
122
```

```

1  **
2  *****
3  ** AERMOD Control Pathway
4  *****
5  **
6  **
7  CO STARTING
8  TITLEONE EBMUD Lafayette Water Treatment Plant - HRA
9  MODELOPT DFAULT CONC
10 AVERTIME ANNUAL
11 POLLUTID PM_2.5
12 FLAGPOLE 1.50
13 RUNORNOT RUN
14 ERRORFIL EBMUD_LAFAYETTE_RESIDENTIAL_UNMIT_PM25.err
15 CO FINISHED
16 **
17 *****
18 ** AERMOD Source Pathway
19 *****
20 **
21 **
22 SO STARTING
23 ** Source Location **
24 ** Source ID - Type - X Coord. - Y Coord. **
25 LOCATION PAREA1 AREAPOLY 575701.935 4193875.593 118.240
26 LOCATION PAREA2 AREAPOLY 575748.062 4193831.998 117.740
27 ** Source Parameters **
28 SRCPARAM PAREA1 4.63831E-06 5.000 4
29 AREAVERT PAREA1 575701.935 4193875.593 575737.751 4193850.449
30 AREAVERT PAREA1 575712.246 4193813.910 575675.887 4193840.319
31 SRCPARAM PAREA2 4.63831E-06 5.000 8
32 AREAVERT PAREA2 575748.062 4193831.998 575743.901 4193826.029
33 AREAVERT PAREA2 575755.478 4193818.251 575747.129 4193804.182
34 AREAVERT PAREA2 575784.279 4193779.571 575793.930 4193793.690
35 AREAVERT PAREA2 575782.973 4193801.067 575786.493 4193806.077
36
37 ** Variable Emissions Type: "By Hour / Day (HRDOW)"
38 ** Variable Emission Scenario: "M-F 7a-6p"
39 ** WeekDays:
40 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
41 EMISFACT PAREA1 HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
42 EMISFACT PAREA1 HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
43 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
44 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
45 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
46 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
47 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
48 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
49 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
50 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
51 EMISFACT PAREA1 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
52 ** Saturday:
53 ** Sunday:
54 ** WeekDays:
55 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
56 EMISFACT PAREA2 HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
57 EMISFACT PAREA2 HRDOW 1.0 1.0 1.0 1.0 1.0 1.0
58 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
59 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
60 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
61 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
62 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
63 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
64 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
65 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
66 EMISFACT PAREA2 HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
67 ** Saturday:
68 ** Sunday:
69 SRCGROUP PAREA1 PAREA1

```

```
70     SRCGROUP PAREA2   PAREA2
71     SRCGROUP ALL
72 SO FINISHED
73 **
74 *****
75 ** AERMOD Receptor Pathway
76 *****
77 **
78 **
79 RE STARTING
80     INCLUDED ..\..\EBMUD_LAFAYETTE_RESIDENTIAL.ROU
81 RE FINISHED
82 **
83 *****
84 ** AERMOD Meteorology Pathway
85 *****
86 **
87 **
88 ME STARTING
89     SURFFILE ..\..\724930.SFC
90     PROFFILE ..\..\724930.PFL
91     SURFDATA 23230 2009 OAKLAND/WSO_AP
92     UAIRDATA 23230 2009 OAKLAND/WSO_AP
93     PROFBASE 1.8 METERS
94 ME FINISHED
95 **
96 *****
97 ** AERMOD Output Pathway
98 *****
99 **
100 **
101 OU STARTING
102 ** Maximum Annual Average POST files for Each Met Year
103     POSTFILE ANNUAL ALL PLOT ANNUAL_G001.PLT 31
104     POSTFILE ANNUAL PAREA1 PLOT ANNUAL_G002.PLT 32
105     POSTFILE ANNUAL PAREA2 PLOT ANNUAL_G003.PLT 33
106     PLOTFILE ANNUAL PAREA1 ANNALL.PLT 34
107     FILEFORM EXP
108     SUMMFILE EBMUD_LAFAYETTE_RESIDENTIAL_UNMIT_PM25.sum
109 OU FINISHED
110 **
111 *****
112 ** Project Parameters
113 *****
114 ** PROJCTN  CoordinateSystemUTM
115 ** DESCPTN  UTM: Universal Transverse Mercator
116 ** DATUM    World Geodetic System 1984
117 ** DTMRGN   Global Definition
118 ** UNITS    m
119 ** ZONE     10
120 ** ZONEINX  0
121 **
122
```


1 ** AERMAP - VERSION 18081
 2 **
 3 ** Project: EBMUD_LAFAYETTE_MPI_1BIGGER_11HR
 4 **
 5 ** A total of 1 NED files were used
 6 ** A total of 3354 receptors were processed
 7 ** No user-specified DOMAIN; all available data used
 8 ** ANCHORXY 0.00 0.00 0.00 0.00 10 3
 9 ** TERRHGT5 EXTRACT

10

11 RE ELEVUNIT METERS

12	DISCCART	573313.40	4191775.00	212.69	537.69	1.50
13	DISCCART	573413.40	4191775.00	213.50	313.60	1.50
14	DISCCART	573513.40	4191775.00	207.33	313.60	1.50
15	DISCCART	573613.40	4191775.00	192.09	537.65	1.50
16	DISCCART	573713.40	4191775.00	195.35	353.04	1.50
17	DISCCART	573813.40	4191775.00	198.50	354.73	1.50
18	DISCCART	573913.40	4191775.00	194.53	355.06	1.50
19	DISCCART	574013.40	4191775.00	200.83	355.06	1.50
20	DISCCART	574113.40	4191775.00	201.15	355.06	1.50
21	DISCCART	574213.40	4191775.00	205.38	355.06	1.50
22	DISCCART	574313.40	4191775.00	211.92	355.06	1.50
23	DISCCART	574413.40	4191775.00	216.80	355.06	1.50
24	DISCCART	574513.40	4191775.00	226.30	355.06	1.50
25	DISCCART	574613.40	4191775.00	240.43	354.73	1.50
26	DISCCART	574713.40	4191775.00	260.18	270.98	1.50
27	DISCCART	574813.40	4191775.00	256.88	299.88	1.50
28	DISCCART	574913.40	4191775.00	257.74	316.12	1.50
29	DISCCART	575013.40	4191775.00	233.80	355.06	1.50
30	DISCCART	575113.40	4191775.00	224.83	355.06	1.50
31	DISCCART	575213.40	4191775.00	229.20	355.06	1.50
32	DISCCART	575313.40	4191775.00	220.43	355.44	1.50
33	DISCCART	575413.40	4191775.00	247.79	316.12	1.50
34	DISCCART	575513.40	4191775.00	243.35	316.12	1.50
35	DISCCART	575613.40	4191775.00	234.79	316.12	1.50
36	DISCCART	575713.40	4191775.00	228.79	316.12	1.50
37	DISCCART	575813.40	4191775.00	222.44	316.12	1.50
38	DISCCART	575913.40	4191775.00	221.12	316.12	1.50
39	DISCCART	576013.40	4191775.00	220.38	316.12	1.50
40	DISCCART	576113.40	4191775.00	219.44	316.12	1.50
41	DISCCART	576213.40	4191775.00	218.01	316.12	1.50
42	DISCCART	576313.40	4191775.00	224.96	289.77	1.50
43	DISCCART	576413.40	4191775.00	214.70	293.75	1.50
44	DISCCART	576513.40	4191775.00	199.37	316.12	1.50
45	DISCCART	576613.40	4191775.00	207.43	285.62	1.50
46	DISCCART	576713.40	4191775.00	221.33	232.27	1.50
47	DISCCART	576813.40	4191775.00	225.57	228.85	1.50
48	DISCCART	576913.40	4191775.00	218.00	231.61	1.50
49	DISCCART	577013.40	4191775.00	196.58	262.83	1.50
50	DISCCART	577113.40	4191775.00	199.65	262.83	1.50
51	DISCCART	577213.40	4191775.00	206.77	262.83	1.50
52	DISCCART	577313.40	4191775.00	214.38	262.83	1.50
53	DISCCART	577413.40	4191775.00	234.76	262.83	1.50
54	DISCCART	577513.40	4191775.00	253.07	257.61	1.50
55	DISCCART	577613.40	4191775.00	245.61	259.77	1.50
56	DISCCART	577713.40	4191775.00	232.14	261.30	1.50
57	DISCCART	577813.40	4191775.00	220.27	262.83	1.50
58	DISCCART	577913.40	4191775.00	228.40	259.77	1.50
59	DISCCART	573313.40	4191875.00	233.40	255.81	1.50
60	DISCCART	573413.40	4191875.00	241.39	241.39	1.50
61	DISCCART	573513.40	4191875.00	225.18	253.54	1.50
62	DISCCART	573613.40	4191875.00	195.22	313.60	1.50
63	DISCCART	573713.40	4191875.00	192.52	342.93	1.50
64	DISCCART	573813.40	4191875.00	197.28	343.30	1.50
65	DISCCART	573913.40	4191875.00	203.20	350.66	1.50
66	DISCCART	574013.40	4191875.00	210.04	343.30	1.50
67	DISCCART	574113.40	4191875.00	215.43	343.30	1.50
68	DISCCART	574213.40	4191875.00	211.95	355.06	1.50
69	DISCCART	574313.40	4191875.00	218.38	354.97	1.50

70	DISCCART	574413.40	4191875.00	222.17	354.97	1.50
71	DISCCART	574513.40	4191875.00	209.67	355.06	1.50
72	DISCCART	574613.40	4191875.00	232.00	354.46	1.50
73	DISCCART	574713.40	4191875.00	224.24	355.06	1.50
74	DISCCART	574813.40	4191875.00	216.08	355.06	1.50
75	DISCCART	574913.40	4191875.00	208.52	355.06	1.50
76	DISCCART	575013.40	4191875.00	200.05	355.44	1.50
77	DISCCART	575113.40	4191875.00	198.33	355.44	1.50
78	DISCCART	575213.40	4191875.00	201.32	355.44	1.50
79	DISCCART	575313.40	4191875.00	201.39	355.44	1.50
80	DISCCART	575413.40	4191875.00	233.35	316.12	1.50
81	DISCCART	575513.40	4191875.00	243.77	316.12	1.50
82	DISCCART	575613.40	4191875.00	233.98	316.12	1.50
83	DISCCART	575713.40	4191875.00	231.90	316.12	1.50
84	DISCCART	575813.40	4191875.00	235.79	316.12	1.50
85	DISCCART	575913.40	4191875.00	232.98	316.12	1.50
86	DISCCART	576013.40	4191875.00	238.17	316.12	1.50
87	DISCCART	576113.40	4191875.00	234.91	316.12	1.50
88	DISCCART	576213.40	4191875.00	247.82	280.10	1.50
89	DISCCART	576313.40	4191875.00	241.24	279.71	1.50
90	DISCCART	576413.40	4191875.00	219.02	285.62	1.50
91	DISCCART	576513.40	4191875.00	203.95	289.77	1.50
92	DISCCART	576613.40	4191875.00	218.34	265.78	1.50
93	DISCCART	576713.40	4191875.00	230.32	232.50	1.50
94	DISCCART	576813.40	4191875.00	231.69	231.69	1.50
95	DISCCART	576913.40	4191875.00	215.02	234.44	1.50
96	DISCCART	577013.40	4191875.00	212.31	262.83	1.50
97	DISCCART	577113.40	4191875.00	196.48	262.83	1.50
98	DISCCART	577213.40	4191875.00	204.37	262.83	1.50
99	DISCCART	577313.40	4191875.00	215.15	262.83	1.50
100	DISCCART	577413.40	4191875.00	225.40	262.83	1.50
101	DISCCART	577513.40	4191875.00	239.62	259.77	1.50
102	DISCCART	577613.40	4191875.00	257.91	259.45	1.50
103	DISCCART	577713.40	4191875.00	246.75	259.77	1.50
104	DISCCART	577813.40	4191875.00	228.20	259.77	1.50
105	DISCCART	577913.40	4191875.00	228.40	259.77	1.50
106	DISCCART	573313.40	4191975.00	239.46	253.54	1.50
107	DISCCART	573413.40	4191975.00	217.92	264.34	1.50
108	DISCCART	573513.40	4191975.00	203.82	313.60	1.50
109	DISCCART	573613.40	4191975.00	198.30	313.60	1.50
110	DISCCART	573713.40	4191975.00	194.76	313.60	1.50
111	DISCCART	573813.40	4191975.00	197.82	313.60	1.50
112	DISCCART	573913.40	4191975.00	217.10	313.08	1.50
113	DISCCART	574013.40	4191975.00	231.54	252.36	1.50
114	DISCCART	574113.40	4191975.00	246.52	252.36	1.50
115	DISCCART	574213.40	4191975.00	226.64	297.00	1.50
116	DISCCART	574313.40	4191975.00	225.83	297.66	1.50
117	DISCCART	574413.40	4191975.00	209.09	355.06	1.50
118	DISCCART	574513.40	4191975.00	183.25	355.06	1.50
119	DISCCART	574613.40	4191975.00	188.62	355.06	1.50
120	DISCCART	574713.40	4191975.00	185.05	355.44	1.50
121	DISCCART	574813.40	4191975.00	192.18	355.44	1.50
122	DISCCART	574913.40	4191975.00	181.81	355.44	1.50
123	DISCCART	575013.40	4191975.00	176.17	355.44	1.50
124	DISCCART	575113.40	4191975.00	174.17	355.44	1.50
125	DISCCART	575213.40	4191975.00	177.81	355.44	1.50
126	DISCCART	575313.40	4191975.00	204.47	355.06	1.50
127	DISCCART	575413.40	4191975.00	243.28	316.12	1.50
128	DISCCART	575513.40	4191975.00	259.29	316.12	1.50
129	DISCCART	575613.40	4191975.00	248.82	316.12	1.50
130	DISCCART	575713.40	4191975.00	242.48	316.12	1.50
131	DISCCART	575813.40	4191975.00	267.26	278.97	1.50
132	DISCCART	575913.40	4191975.00	253.54	280.10	1.50
133	DISCCART	576013.40	4191975.00	259.21	280.10	1.50
134	DISCCART	576113.40	4191975.00	265.63	265.63	1.50
135	DISCCART	576213.40	4191975.00	262.71	262.71	1.50
136	DISCCART	576313.40	4191975.00	244.73	280.10	1.50
137	DISCCART	576413.40	4191975.00	212.17	285.62	1.50
138	DISCCART	576513.40	4191975.00	209.41	285.42	1.50

139	DISCCART	576613.40	4191975.00	218.46	266.58	1.50
140	DISCCART	576713.40	4191975.00	231.55	231.55	1.50
141	DISCCART	576813.40	4191975.00	229.53	234.44	1.50
142	DISCCART	576913.40	4191975.00	221.64	233.76	1.50
143	DISCCART	577013.40	4191975.00	205.69	262.83	1.50
144	DISCCART	577113.40	4191975.00	202.91	262.83	1.50
145	DISCCART	577213.40	4191975.00	203.10	262.83	1.50
146	DISCCART	577313.40	4191975.00	206.60	262.83	1.50
147	DISCCART	577413.40	4191975.00	218.59	262.83	1.50
148	DISCCART	577513.40	4191975.00	224.57	262.83	1.50
149	DISCCART	577613.40	4191975.00	240.76	259.77	1.50
150	DISCCART	577713.40	4191975.00	238.07	259.77	1.50
151	DISCCART	577813.40	4191975.00	229.30	259.77	1.50
152	DISCCART	577913.40	4191975.00	237.20	237.20	1.50
153	DISCCART	573313.40	4192075.00	211.61	266.11	1.50
154	DISCCART	573413.40	4192075.00	207.82	266.11	1.50
155	DISCCART	573513.40	4192075.00	215.16	266.11	1.50
156	DISCCART	573613.40	4192075.00	204.50	266.11	1.50
157	DISCCART	573713.40	4192075.00	195.17	313.60	1.50
158	DISCCART	573813.40	4192075.00	198.97	313.60	1.50
159	DISCCART	573913.40	4192075.00	223.08	252.36	1.50
160	DISCCART	574013.40	4192075.00	248.75	248.75	1.50
161	DISCCART	574113.40	4192075.00	244.96	252.36	1.50
162	DISCCART	574213.40	4192075.00	236.89	252.36	1.50
163	DISCCART	574313.40	4192075.00	228.54	252.36	1.50
164	DISCCART	574413.40	4192075.00	202.60	355.06	1.50
165	DISCCART	574513.40	4192075.00	179.56	355.06	1.50
166	DISCCART	574613.40	4192075.00	163.97	355.44	1.50
167	DISCCART	574713.40	4192075.00	164.23	355.44	1.50
168	DISCCART	574813.40	4192075.00	162.96	355.44	1.50
169	DISCCART	574913.40	4192075.00	163.89	355.44	1.50
170	DISCCART	575013.40	4192075.00	157.90	355.44	1.50
171	DISCCART	575113.40	4192075.00	161.74	355.44	1.50
172	DISCCART	575213.40	4192075.00	174.79	355.44	1.50
173	DISCCART	575313.40	4192075.00	188.63	355.44	1.50
174	DISCCART	575413.40	4192075.00	212.84	316.12	1.50
175	DISCCART	575513.40	4192075.00	247.95	316.12	1.50
176	DISCCART	575613.40	4192075.00	273.18	278.60	1.50
177	DISCCART	575713.40	4192075.00	260.91	279.52	1.50
178	DISCCART	575813.40	4192075.00	278.52	278.52	1.50
179	DISCCART	575913.40	4192075.00	275.16	279.71	1.50
180	DISCCART	576013.40	4192075.00	271.66	280.10	1.50
181	DISCCART	576113.40	4192075.00	255.56	280.10	1.50
182	DISCCART	576213.40	4192075.00	254.77	280.10	1.50
183	DISCCART	576313.40	4192075.00	232.44	280.10	1.50
184	DISCCART	576413.40	4192075.00	213.58	280.10	1.50
185	DISCCART	576513.40	4192075.00	220.42	280.10	1.50
186	DISCCART	576613.40	4192075.00	227.40	227.40	1.50
187	DISCCART	576713.40	4192075.00	225.62	234.39	1.50
188	DISCCART	576813.40	4192075.00	223.58	234.45	1.50
189	DISCCART	576913.40	4192075.00	212.24	234.45	1.50
190	DISCCART	577013.40	4192075.00	203.54	262.29	1.50
191	DISCCART	577113.40	4192075.00	206.91	262.83	1.50
192	DISCCART	577213.40	4192075.00	214.45	262.29	1.50
193	DISCCART	577313.40	4192075.00	209.73	262.83	1.50
194	DISCCART	577413.40	4192075.00	208.54	262.83	1.50
195	DISCCART	577513.40	4192075.00	212.25	262.83	1.50
196	DISCCART	577613.40	4192075.00	217.00	259.77	1.50
197	DISCCART	577713.40	4192075.00	224.95	259.77	1.50
198	DISCCART	577813.40	4192075.00	229.94	259.77	1.50
199	DISCCART	577913.40	4192075.00	238.42	238.42	1.50
200	DISCCART	573313.40	4192175.00	226.31	266.11	1.50
201	DISCCART	573413.40	4192175.00	237.81	263.97	1.50
202	DISCCART	573513.40	4192175.00	226.02	265.37	1.50
203	DISCCART	573613.40	4192175.00	203.80	266.11	1.50
204	DISCCART	573713.40	4192175.00	197.05	298.10	1.50
205	DISCCART	573813.40	4192175.00	197.17	312.13	1.50
206	DISCCART	573913.40	4192175.00	213.31	252.36	1.50
207	DISCCART	574013.40	4192175.00	212.53	252.36	1.50

208	DISCCART	574113.40	4192175.00	211.72	262.73	1.50
209	DISCCART	574213.40	4192175.00	217.65	262.73	1.50
210	DISCCART	574313.40	4192175.00	223.65	262.73	1.50
211	DISCCART	574413.40	4192175.00	200.50	352.04	1.50
212	DISCCART	574513.40	4192175.00	179.30	355.06	1.50
213	DISCCART	574613.40	4192175.00	164.38	355.44	1.50
214	DISCCART	574713.40	4192175.00	156.39	355.44	1.50
215	DISCCART	574813.40	4192175.00	151.68	355.44	1.50
216	DISCCART	574913.40	4192175.00	152.03	355.44	1.50
217	DISCCART	575013.40	4192175.00	155.43	355.44	1.50
218	DISCCART	575113.40	4192175.00	163.67	355.44	1.50
219	DISCCART	575213.40	4192175.00	183.03	355.06	1.50
220	DISCCART	575313.40	4192175.00	213.82	316.12	1.50
221	DISCCART	575413.40	4192175.00	240.55	316.12	1.50
222	DISCCART	575513.40	4192175.00	261.77	278.38	1.50
223	DISCCART	575613.40	4192175.00	241.07	316.12	1.50
224	DISCCART	575713.40	4192175.00	253.31	279.71	1.50
225	DISCCART	575813.40	4192175.00	253.85	280.10	1.50
226	DISCCART	575913.40	4192175.00	267.63	280.10	1.50
227	DISCCART	576013.40	4192175.00	263.08	280.10	1.50
228	DISCCART	576113.40	4192175.00	253.38	280.10	1.50
229	DISCCART	576213.40	4192175.00	235.61	280.10	1.50
230	DISCCART	576313.40	4192175.00	221.57	280.10	1.50
231	DISCCART	576413.40	4192175.00	217.49	280.10	1.50
232	DISCCART	576513.40	4192175.00	233.37	248.40	1.50
233	DISCCART	576613.40	4192175.00	234.17	234.17	1.50
234	DISCCART	576713.40	4192175.00	203.99	280.10	1.50
235	DISCCART	576813.40	4192175.00	194.46	280.10	1.50
236	DISCCART	576913.40	4192175.00	205.48	248.04	1.50
237	DISCCART	577013.40	4192175.00	189.52	262.83	1.50
238	DISCCART	577113.40	4192175.00	174.35	262.83	1.50
239	DISCCART	577213.40	4192175.00	185.47	262.83	1.50
240	DISCCART	577313.40	4192175.00	195.21	262.83	1.50
241	DISCCART	577413.40	4192175.00	218.04	259.77	1.50
242	DISCCART	577513.40	4192175.00	216.75	259.77	1.50
243	DISCCART	577613.40	4192175.00	203.99	262.83	1.50
244	DISCCART	577713.40	4192175.00	214.05	259.77	1.50
245	DISCCART	577813.40	4192175.00	220.34	259.77	1.50
246	DISCCART	577913.40	4192175.00	226.10	239.03	1.50
247	DISCCART	573313.40	4192275.00	256.91	263.72	1.50
248	DISCCART	573413.40	4192275.00	236.61	266.11	1.50
249	DISCCART	573513.40	4192275.00	220.67	266.11	1.50
250	DISCCART	573613.40	4192275.00	210.41	298.06	1.50
251	DISCCART	573713.40	4192275.00	198.08	298.26	1.50
252	DISCCART	573813.40	4192275.00	197.75	298.26	1.50
253	DISCCART	573913.40	4192275.00	199.74	263.72	1.50
254	DISCCART	574013.40	4192275.00	205.29	262.73	1.50
255	DISCCART	574113.40	4192275.00	215.83	262.73	1.50
256	DISCCART	574213.40	4192275.00	230.07	262.73	1.50
257	DISCCART	574313.40	4192275.00	249.73	250.27	1.50
258	DISCCART	574413.40	4192275.00	204.72	281.89	1.50
259	DISCCART	574513.40	4192275.00	181.86	355.06	1.50
260	DISCCART	574613.40	4192275.00	167.20	355.06	1.50
261	DISCCART	574713.40	4192275.00	158.25	355.44	1.50
262	DISCCART	574813.40	4192275.00	150.64	355.44	1.50
263	DISCCART	574913.40	4192275.00	150.41	355.44	1.50
264	DISCCART	575013.40	4192275.00	165.35	355.44	1.50
265	DISCCART	575113.40	4192275.00	191.13	355.06	1.50
266	DISCCART	575213.40	4192275.00	202.79	316.12	1.50
267	DISCCART	575313.40	4192275.00	231.67	316.12	1.50
268	DISCCART	575413.40	4192275.00	214.85	316.12	1.50
269	DISCCART	575513.40	4192275.00	221.38	316.12	1.50
270	DISCCART	575613.40	4192275.00	204.70	316.12	1.50
271	DISCCART	575713.40	4192275.00	232.16	316.12	1.50
272	DISCCART	575813.40	4192275.00	224.75	316.12	1.50
273	DISCCART	575913.40	4192275.00	256.20	280.10	1.50
274	DISCCART	576013.40	4192275.00	251.13	280.10	1.50
275	DISCCART	576113.40	4192275.00	244.77	280.10	1.50
276	DISCCART	576213.40	4192275.00	225.33	280.10	1.50

277	DISCCART	576313.40	4192275.00	220.41	280.10	1.50
278	DISCCART	576413.40	4192275.00	226.61	280.10	1.50
279	DISCCART	576513.40	4192275.00	245.04	248.35	1.50
280	DISCCART	576613.40	4192275.00	223.62	248.40	1.50
281	DISCCART	576713.40	4192275.00	204.13	263.06	1.50
282	DISCCART	576813.40	4192275.00	175.28	280.10	1.50
283	DISCCART	576913.40	4192275.00	166.55	280.10	1.50
284	DISCCART	577013.40	4192275.00	152.11	285.62	1.50
285	DISCCART	577113.40	4192275.00	152.18	280.10	1.50
286	DISCCART	577213.40	4192275.00	161.27	262.83	1.50
287	DISCCART	577313.40	4192275.00	180.88	262.83	1.50
288	DISCCART	577413.40	4192275.00	211.39	259.77	1.50
289	DISCCART	577513.40	4192275.00	211.67	259.77	1.50
290	DISCCART	577613.40	4192275.00	191.39	262.83	1.50
291	DISCCART	577713.40	4192275.00	187.83	262.83	1.50
292	DISCCART	577813.40	4192275.00	190.14	259.77	1.50
293	DISCCART	577913.40	4192275.00	190.21	259.77	1.50
294	DISCCART	573313.40	4192375.00	263.28	263.28	1.50
295	DISCCART	573413.40	4192375.00	238.48	266.11	1.50
296	DISCCART	573513.40	4192375.00	226.98	266.11	1.50
297	DISCCART	573613.40	4192375.00	201.72	298.26	1.50
298	DISCCART	573713.40	4192375.00	199.80	298.26	1.50
299	DISCCART	573813.40	4192375.00	199.79	298.26	1.50
300	DISCCART	573913.40	4192375.00	201.80	298.10	1.50
301	DISCCART	574013.40	4192375.00	208.77	262.73	1.50
302	DISCCART	574113.40	4192375.00	230.67	262.73	1.50
303	DISCCART	574213.40	4192375.00	228.84	262.73	1.50
304	DISCCART	574313.40	4192375.00	224.62	262.73	1.50
305	DISCCART	574413.40	4192375.00	195.77	281.89	1.50
306	DISCCART	574513.40	4192375.00	202.19	281.89	1.50
307	DISCCART	574613.40	4192375.00	188.50	316.12	1.50
308	DISCCART	574713.40	4192375.00	179.21	355.06	1.50
309	DISCCART	574813.40	4192375.00	153.26	355.44	1.50
310	DISCCART	574913.40	4192375.00	147.60	355.44	1.50
311	DISCCART	575013.40	4192375.00	176.09	355.06	1.50
312	DISCCART	575113.40	4192375.00	202.18	316.12	1.50
313	DISCCART	575213.40	4192375.00	210.29	316.12	1.50
314	DISCCART	575313.40	4192375.00	200.00	316.12	1.50
315	DISCCART	575413.40	4192375.00	185.67	316.12	1.50
316	DISCCART	575513.40	4192375.00	189.71	316.12	1.50
317	DISCCART	575613.40	4192375.00	181.20	316.12	1.50
318	DISCCART	575713.40	4192375.00	193.01	316.12	1.50
319	DISCCART	575813.40	4192375.00	210.09	316.12	1.50
320	DISCCART	575913.40	4192375.00	235.07	280.10	1.50
321	DISCCART	576013.40	4192375.00	241.06	280.10	1.50
322	DISCCART	576113.40	4192375.00	227.60	280.10	1.50
323	DISCCART	576213.40	4192375.00	225.00	280.10	1.50
324	DISCCART	576313.40	4192375.00	237.54	243.94	1.50
325	DISCCART	576413.40	4192375.00	232.56	248.40	1.50
326	DISCCART	576513.40	4192375.00	228.26	248.40	1.50
327	DISCCART	576613.40	4192375.00	201.93	280.10	1.50
328	DISCCART	576713.40	4192375.00	179.75	280.10	1.50
329	DISCCART	576813.40	4192375.00	166.09	280.10	1.50
330	DISCCART	576913.40	4192375.00	154.83	280.10	1.50
331	DISCCART	577013.40	4192375.00	142.06	285.62	1.50
332	DISCCART	577113.40	4192375.00	137.99	285.62	1.50
333	DISCCART	577213.40	4192375.00	155.74	262.89	1.50
334	DISCCART	577313.40	4192375.00	184.90	262.83	1.50
335	DISCCART	577413.40	4192375.00	199.29	259.77	1.50
336	DISCCART	577513.40	4192375.00	194.98	259.77	1.50
337	DISCCART	577613.40	4192375.00	176.34	262.83	1.50
338	DISCCART	577713.40	4192375.00	157.80	262.83	1.50
339	DISCCART	577813.40	4192375.00	163.26	262.83	1.50
340	DISCCART	577913.40	4192375.00	164.09	262.83	1.50
341	DISCCART	573313.40	4192475.00	234.02	298.10	1.50
342	DISCCART	573413.40	4192475.00	217.47	298.26	1.50
343	DISCCART	573513.40	4192475.00	207.32	298.26	1.50
344	DISCCART	573613.40	4192475.00	206.67	298.26	1.50
345	DISCCART	573713.40	4192475.00	209.91	298.26	1.50

346	DISCCART	573813.40	4192475.00	205.00	298.26	1.50
347	DISCCART	573913.40	4192475.00	205.40	298.26	1.50
348	DISCCART	574013.40	4192475.00	214.02	262.73	1.50
349	DISCCART	574113.40	4192475.00	218.17	262.73	1.50
350	DISCCART	574213.40	4192475.00	227.70	262.73	1.50
351	DISCCART	574313.40	4192475.00	237.68	262.73	1.50
352	DISCCART	574413.40	4192475.00	240.53	262.73	1.50
353	DISCCART	574513.40	4192475.00	240.56	262.73	1.50
354	DISCCART	574613.40	4192475.00	212.30	262.73	1.50
355	DISCCART	574713.40	4192475.00	179.96	316.12	1.50
356	DISCCART	574813.40	4192475.00	156.05	355.06	1.50
357	DISCCART	574913.40	4192475.00	142.91	355.44	1.50
358	DISCCART	575013.40	4192475.00	145.76	355.44	1.50
359	DISCCART	575113.40	4192475.00	163.28	355.06	1.50
360	DISCCART	575213.40	4192475.00	173.37	354.97	1.50
361	DISCCART	575313.40	4192475.00	175.69	316.12	1.50
362	DISCCART	575413.40	4192475.00	162.62	355.06	1.50
363	DISCCART	575513.40	4192475.00	155.50	355.06	1.50
364	DISCCART	575613.40	4192475.00	171.97	316.12	1.50
365	DISCCART	575713.40	4192475.00	188.70	316.12	1.50
366	DISCCART	575813.40	4192475.00	216.33	316.12	1.50
367	DISCCART	575913.40	4192475.00	230.15	280.10	1.50
368	DISCCART	576013.40	4192475.00	230.60	280.10	1.50
369	DISCCART	576113.40	4192475.00	217.85	280.10	1.50
370	DISCCART	576213.40	4192475.00	205.15	280.10	1.50
371	DISCCART	576313.40	4192475.00	193.05	280.10	1.50
372	DISCCART	576413.40	4192475.00	205.47	280.10	1.50
373	DISCCART	576513.40	4192475.00	219.37	248.40	1.50
374	DISCCART	576613.40	4192475.00	209.45	248.40	1.50
375	DISCCART	576713.40	4192475.00	188.80	280.10	1.50
376	DISCCART	576813.40	4192475.00	174.94	280.10	1.50
377	DISCCART	576913.40	4192475.00	164.70	280.10	1.50
378	DISCCART	577013.40	4192475.00	142.78	280.10	1.50
379	DISCCART	577113.40	4192475.00	128.72	285.62	1.50
380	DISCCART	577213.40	4192475.00	148.59	280.10	1.50
381	DISCCART	577313.40	4192475.00	177.06	262.83	1.50
382	DISCCART	577413.40	4192475.00	172.96	262.83	1.50
383	DISCCART	577513.40	4192475.00	175.70	262.83	1.50
384	DISCCART	577613.40	4192475.00	165.47	262.83	1.50
385	DISCCART	577713.40	4192475.00	135.03	262.83	1.50
386	DISCCART	577813.40	4192475.00	131.99	262.83	1.50
387	DISCCART	577913.40	4192475.00	151.37	262.83	1.50
388	DISCCART	573313.40	4192575.00	217.63	298.26	1.50
389	DISCCART	573413.40	4192575.00	214.65	298.26	1.50
390	DISCCART	573513.40	4192575.00	218.66	298.26	1.50
391	DISCCART	573613.40	4192575.00	231.65	298.26	1.50
392	DISCCART	573713.40	4192575.00	217.67	298.26	1.50
393	DISCCART	573813.40	4192575.00	207.11	298.26	1.50
394	DISCCART	573913.40	4192575.00	206.81	298.26	1.50
395	DISCCART	574013.40	4192575.00	222.16	262.73	1.50
396	DISCCART	574113.40	4192575.00	237.97	255.15	1.50
397	DISCCART	574213.40	4192575.00	248.26	251.63	1.50
398	DISCCART	574313.40	4192575.00	256.53	260.29	1.50
399	DISCCART	574413.40	4192575.00	253.57	262.73	1.50
400	DISCCART	574513.40	4192575.00	209.63	262.73	1.50
401	DISCCART	574613.40	4192575.00	179.07	316.12	1.50
402	DISCCART	574713.40	4192575.00	159.51	355.06	1.50
403	DISCCART	574813.40	4192575.00	144.56	355.06	1.50
404	DISCCART	574913.40	4192575.00	139.78	355.06	1.50
405	DISCCART	575013.40	4192575.00	137.83	355.44	1.50
406	DISCCART	575113.40	4192575.00	140.15	355.44	1.50
407	DISCCART	575213.40	4192575.00	159.87	355.06	1.50
408	DISCCART	575313.40	4192575.00	150.21	355.06	1.50
409	DISCCART	575413.40	4192575.00	148.16	355.06	1.50
410	DISCCART	575513.40	4192575.00	142.02	355.44	1.50
411	DISCCART	575613.40	4192575.00	169.91	316.12	1.50
412	DISCCART	575713.40	4192575.00	191.19	316.12	1.50
413	DISCCART	575813.40	4192575.00	217.21	280.10	1.50
414	DISCCART	575913.40	4192575.00	204.59	316.12	1.50

415	DISCCART	576013.40	4192575.00	203.06	280.10	1.50
416	DISCCART	576113.40	4192575.00	191.00	316.12	1.50
417	DISCCART	576213.40	4192575.00	178.71	316.12	1.50
418	DISCCART	576313.40	4192575.00	177.27	316.12	1.50
419	DISCCART	576413.40	4192575.00	196.57	280.10	1.50
420	DISCCART	576513.40	4192575.00	228.69	238.68	1.50
421	DISCCART	576613.40	4192575.00	231.62	238.68	1.50
422	DISCCART	576713.40	4192575.00	214.35	248.30	1.50
423	DISCCART	576813.40	4192575.00	190.24	248.40	1.50
424	DISCCART	576913.40	4192575.00	186.23	248.40	1.50
425	DISCCART	577013.40	4192575.00	162.92	280.10	1.50
426	DISCCART	577113.40	4192575.00	133.43	280.10	1.50
427	DISCCART	577213.40	4192575.00	135.82	280.10	1.50
428	DISCCART	577313.40	4192575.00	153.10	262.83	1.50
429	DISCCART	577413.40	4192575.00	140.50	262.83	1.50
430	DISCCART	577513.40	4192575.00	150.81	262.83	1.50
431	DISCCART	577613.40	4192575.00	138.73	262.83	1.50
432	DISCCART	577713.40	4192575.00	127.31	262.83	1.50
433	DISCCART	577813.40	4192575.00	128.88	262.83	1.50
434	DISCCART	577913.40	4192575.00	135.85	262.83	1.50
435	DISCCART	573313.40	4192675.00	220.36	298.26	1.50
436	DISCCART	573413.40	4192675.00	234.99	298.26	1.50
437	DISCCART	573513.40	4192675.00	245.77	298.26	1.50
438	DISCCART	573613.40	4192675.00	234.70	298.26	1.50
439	DISCCART	573713.40	4192675.00	215.35	298.26	1.50
440	DISCCART	573813.40	4192675.00	213.66	298.26	1.50
441	DISCCART	573913.40	4192675.00	208.25	298.26	1.50
442	DISCCART	574013.40	4192675.00	231.02	241.88	1.50
443	DISCCART	574113.40	4192675.00	229.82	262.73	1.50
444	DISCCART	574213.40	4192675.00	227.66	262.73	1.50
445	DISCCART	574313.40	4192675.00	231.61	262.73	1.50
446	DISCCART	574413.40	4192675.00	242.46	262.73	1.50
447	DISCCART	574513.40	4192675.00	208.89	262.73	1.50
448	DISCCART	574613.40	4192675.00	179.27	316.12	1.50
449	DISCCART	574713.40	4192675.00	155.54	354.46	1.50
450	DISCCART	574813.40	4192675.00	145.07	355.06	1.50
451	DISCCART	574913.40	4192675.00	137.24	355.06	1.50
452	DISCCART	575013.40	4192675.00	134.47	355.06	1.50
453	DISCCART	575113.40	4192675.00	134.47	355.06	1.50
454	DISCCART	575213.40	4192675.00	134.66	355.06	1.50
455	DISCCART	575313.40	4192675.00	135.30	355.06	1.50
456	DISCCART	575413.40	4192675.00	137.82	355.06	1.50
457	DISCCART	575513.40	4192675.00	139.14	355.06	1.50
458	DISCCART	575613.40	4192675.00	158.34	316.12	1.50
459	DISCCART	575713.40	4192675.00	190.44	316.12	1.50
460	DISCCART	575813.40	4192675.00	192.27	316.12	1.50
461	DISCCART	575913.40	4192675.00	167.52	316.12	1.50
462	DISCCART	576013.40	4192675.00	170.41	316.12	1.50
463	DISCCART	576113.40	4192675.00	164.75	316.12	1.50
464	DISCCART	576213.40	4192675.00	159.99	316.12	1.50
465	DISCCART	576313.40	4192675.00	169.00	316.12	1.50
466	DISCCART	576413.40	4192675.00	217.47	238.68	1.50
467	DISCCART	576513.40	4192675.00	223.37	238.68	1.50
468	DISCCART	576613.40	4192675.00	214.30	238.68	1.50
469	DISCCART	576713.40	4192675.00	192.08	248.40	1.50
470	DISCCART	576813.40	4192675.00	179.35	248.40	1.50
471	DISCCART	576913.40	4192675.00	161.86	280.10	1.50
472	DISCCART	577013.40	4192675.00	163.64	248.40	1.50
473	DISCCART	577113.40	4192675.00	132.54	280.10	1.50
474	DISCCART	577213.40	4192675.00	117.50	280.10	1.50
475	DISCCART	577313.40	4192675.00	127.49	280.10	1.50
476	DISCCART	577413.40	4192675.00	125.59	262.83	1.50
477	DISCCART	577513.40	4192675.00	127.60	262.83	1.50
478	DISCCART	577613.40	4192675.00	119.99	262.83	1.50
479	DISCCART	577713.40	4192675.00	119.32	262.83	1.50
480	DISCCART	577813.40	4192675.00	120.83	262.83	1.50
481	DISCCART	577913.40	4192675.00	120.41	262.83	1.50
482	DISCCART	573313.40	4192775.00	222.47	298.26	1.50
483	DISCCART	573413.40	4192775.00	248.96	298.26	1.50

484	DISCCART	573513.40	4192775.00	240.42	298.26	1.50
485	DISCCART	573613.40	4192775.00	226.99	298.26	1.50
486	DISCCART	573713.40	4192775.00	227.36	298.26	1.50
487	DISCCART	573813.40	4192775.00	223.17	298.26	1.50
488	DISCCART	573913.40	4192775.00	213.96	298.26	1.50
489	DISCCART	574013.40	4192775.00	216.87	298.26	1.50
490	DISCCART	574113.40	4192775.00	221.75	262.73	1.50
491	DISCCART	574213.40	4192775.00	229.36	262.73	1.50
492	DISCCART	574313.40	4192775.00	244.42	244.42	1.50
493	DISCCART	574413.40	4192775.00	237.87	262.73	1.50
494	DISCCART	574513.40	4192775.00	215.38	262.73	1.50
495	DISCCART	574613.40	4192775.00	171.06	316.12	1.50
496	DISCCART	574713.40	4192775.00	152.56	316.12	1.50
497	DISCCART	574813.40	4192775.00	156.25	316.12	1.50
498	DISCCART	574913.40	4192775.00	148.61	316.12	1.50
499	DISCCART	575013.40	4192775.00	134.47	355.06	1.50
500	DISCCART	575113.40	4192775.00	134.47	355.06	1.50
501	DISCCART	575213.40	4192775.00	134.47	355.06	1.50
502	DISCCART	575313.40	4192775.00	134.47	355.06	1.50
503	DISCCART	575413.40	4192775.00	134.47	355.06	1.50
504	DISCCART	575513.40	4192775.00	149.09	316.12	1.50
505	DISCCART	575613.40	4192775.00	159.73	316.12	1.50
506	DISCCART	575713.40	4192775.00	177.06	316.12	1.50
507	DISCCART	575813.40	4192775.00	165.16	316.12	1.50
508	DISCCART	575913.40	4192775.00	153.24	316.12	1.50
509	DISCCART	576013.40	4192775.00	154.10	316.12	1.50
510	DISCCART	576113.40	4192775.00	146.03	316.12	1.50
511	DISCCART	576213.40	4192775.00	159.33	316.12	1.50
512	DISCCART	576313.40	4192775.00	184.13	280.10	1.50
513	DISCCART	576413.40	4192775.00	205.00	238.68	1.50
514	DISCCART	576513.40	4192775.00	195.46	248.40	1.50
515	DISCCART	576613.40	4192775.00	188.69	248.40	1.50
516	DISCCART	576713.40	4192775.00	179.32	248.40	1.50
517	DISCCART	576813.40	4192775.00	147.97	280.10	1.50
518	DISCCART	576913.40	4192775.00	133.94	280.10	1.50
519	DISCCART	577013.40	4192775.00	130.12	280.10	1.50
520	DISCCART	577113.40	4192775.00	116.77	280.10	1.50
521	DISCCART	577213.40	4192775.00	113.92	280.10	1.50
522	DISCCART	577313.40	4192775.00	118.91	280.10	1.50
523	DISCCART	577413.40	4192775.00	113.43	280.10	1.50
524	DISCCART	577513.40	4192775.00	111.47	262.83	1.50
525	DISCCART	577613.40	4192775.00	113.78	262.83	1.50
526	DISCCART	577713.40	4192775.00	114.73	262.83	1.50
527	DISCCART	577813.40	4192775.00	117.24	262.83	1.50
528	DISCCART	577913.40	4192775.00	125.17	262.83	1.50
529	DISCCART	573313.40	4192875.00	238.42	298.26	1.50
530	DISCCART	573413.40	4192875.00	265.32	298.26	1.50
531	DISCCART	573513.40	4192875.00	241.44	298.26	1.50
532	DISCCART	573613.40	4192875.00	250.49	298.26	1.50
533	DISCCART	573713.40	4192875.00	248.19	298.26	1.50
534	DISCCART	573813.40	4192875.00	233.66	298.26	1.50
535	DISCCART	573913.40	4192875.00	219.83	298.26	1.50
536	DISCCART	574013.40	4192875.00	222.44	298.26	1.50
537	DISCCART	574113.40	4192875.00	228.33	256.69	1.50
538	DISCCART	574213.40	4192875.00	236.87	256.69	1.50
539	DISCCART	574313.40	4192875.00	248.76	256.60	1.50
540	DISCCART	574413.40	4192875.00	210.43	262.73	1.50
541	DISCCART	574513.40	4192875.00	185.20	262.73	1.50
542	DISCCART	574613.40	4192875.00	168.04	266.36	1.50
543	DISCCART	574713.40	4192875.00	164.62	316.12	1.50
544	DISCCART	574813.40	4192875.00	176.76	262.73	1.50
545	DISCCART	574913.40	4192875.00	147.49	316.12	1.50
546	DISCCART	575013.40	4192875.00	135.07	354.97	1.50
547	DISCCART	575113.40	4192875.00	134.47	354.97	1.50
548	DISCCART	575213.40	4192875.00	134.47	354.73	1.50
549	DISCCART	575313.40	4192875.00	134.47	316.12	1.50
550	DISCCART	575413.40	4192875.00	134.47	316.12	1.50
551	DISCCART	575513.40	4192875.00	136.79	316.12	1.50
552	DISCCART	575613.40	4192875.00	144.89	316.12	1.50

553	DISCCART	575713.40	4192875.00	153.32	316.12	1.50
554	DISCCART	575813.40	4192875.00	144.02	316.12	1.50
555	DISCCART	575913.40	4192875.00	135.34	316.12	1.50
556	DISCCART	576013.40	4192875.00	139.92	316.12	1.50
557	DISCCART	576113.40	4192875.00	135.42	316.12	1.50
558	DISCCART	576213.40	4192875.00	179.01	280.10	1.50
559	DISCCART	576313.40	4192875.00	204.69	205.51	1.50
560	DISCCART	576413.40	4192875.00	187.37	280.10	1.50
561	DISCCART	576513.40	4192875.00	180.98	280.10	1.50
562	DISCCART	576613.40	4192875.00	169.72	280.10	1.50
563	DISCCART	576713.40	4192875.00	170.82	280.10	1.50
564	DISCCART	576813.40	4192875.00	146.13	280.10	1.50
565	DISCCART	576913.40	4192875.00	130.46	280.10	1.50
566	DISCCART	577013.40	4192875.00	120.57	280.10	1.50
567	DISCCART	577113.40	4192875.00	115.26	280.10	1.50
568	DISCCART	577213.40	4192875.00	111.42	280.10	1.50
569	DISCCART	577313.40	4192875.00	109.05	280.10	1.50
570	DISCCART	577413.40	4192875.00	107.35	280.10	1.50
571	DISCCART	577513.40	4192875.00	107.88	262.83	1.50
572	DISCCART	577613.40	4192875.00	110.70	262.83	1.50
573	DISCCART	577713.40	4192875.00	123.94	262.83	1.50
574	DISCCART	577813.40	4192875.00	136.29	259.77	1.50
575	DISCCART	577913.40	4192875.00	141.30	259.77	1.50
576	DISCCART	573313.40	4192975.00	256.04	298.26	1.50
577	DISCCART	573413.40	4192975.00	274.06	298.26	1.50
578	DISCCART	573513.40	4192975.00	261.34	298.26	1.50
579	DISCCART	573613.40	4192975.00	256.28	298.26	1.50
580	DISCCART	573713.40	4192975.00	250.20	298.26	1.50
581	DISCCART	573813.40	4192975.00	230.09	298.26	1.50
582	DISCCART	573913.40	4192975.00	218.01	298.26	1.50
583	DISCCART	574013.40	4192975.00	218.87	298.26	1.50
584	DISCCART	574113.40	4192975.00	235.29	256.69	1.50
585	DISCCART	574213.40	4192975.00	249.85	256.69	1.50
586	DISCCART	574313.40	4192975.00	241.76	256.69	1.50
587	DISCCART	574413.40	4192975.00	204.90	262.73	1.50
588	DISCCART	574513.40	4192975.00	184.41	263.22	1.50
589	DISCCART	574613.40	4192975.00	184.49	262.73	1.50
590	DISCCART	574713.40	4192975.00	188.10	262.73	1.50
591	DISCCART	574813.40	4192975.00	170.53	262.73	1.50
592	DISCCART	574913.40	4192975.00	158.21	316.12	1.50
593	DISCCART	575013.40	4192975.00	135.25	316.12	1.50
594	DISCCART	575113.40	4192975.00	134.47	316.12	1.50
595	DISCCART	575213.40	4192975.00	134.47	316.12	1.50
596	DISCCART	575313.40	4192975.00	134.47	316.12	1.50
597	DISCCART	575413.40	4192975.00	134.47	316.12	1.50
598	DISCCART	575513.40	4192975.00	134.47	316.12	1.50
599	DISCCART	575613.40	4192975.00	139.34	316.12	1.50
600	DISCCART	575713.40	4192975.00	135.77	316.12	1.50
601	DISCCART	575813.40	4192975.00	137.33	316.12	1.50
602	DISCCART	575913.40	4192975.00	134.47	316.12	1.50
603	DISCCART	576013.40	4192975.00	134.47	316.12	1.50
604	DISCCART	576113.40	4192975.00	142.12	316.12	1.50
605	DISCCART	576213.40	4192975.00	159.05	280.10	1.50
606	DISCCART	576313.40	4192975.00	199.71	210.90	1.50
607	DISCCART	576413.40	4192975.00	192.30	238.68	1.50
608	DISCCART	576513.40	4192975.00	180.39	248.40	1.50
609	DISCCART	576613.40	4192975.00	157.96	280.10	1.50
610	DISCCART	576713.40	4192975.00	135.92	280.10	1.50
611	DISCCART	576813.40	4192975.00	146.71	280.10	1.50
612	DISCCART	576913.40	4192975.00	141.12	280.10	1.50
613	DISCCART	577013.40	4192975.00	138.00	280.10	1.50
614	DISCCART	577113.40	4192975.00	136.35	259.77	1.50
615	DISCCART	577213.40	4192975.00	132.61	259.77	1.50
616	DISCCART	577313.40	4192975.00	111.58	280.10	1.50
617	DISCCART	577413.40	4192975.00	105.43	280.10	1.50
618	DISCCART	577513.40	4192975.00	104.71	262.83	1.50
619	DISCCART	577613.40	4192975.00	132.39	259.77	1.50
620	DISCCART	577713.40	4192975.00	130.01	259.77	1.50
621	DISCCART	577813.40	4192975.00	124.42	259.77	1.50

622	DISCCART	577913.40	4192975.00	115.41	262.83	1.50
623	DISCCART	573313.40	4193075.00	294.01	298.10	1.50
624	DISCCART	573413.40	4193075.00	275.01	298.26	1.50
625	DISCCART	573513.40	4193075.00	259.29	298.26	1.50
626	DISCCART	573613.40	4193075.00	255.57	298.26	1.50
627	DISCCART	573713.40	4193075.00	219.67	298.26	1.50
628	DISCCART	573813.40	4193075.00	198.67	298.26	1.50
629	DISCCART	573913.40	4193075.00	192.65	298.26	1.50
630	DISCCART	574013.40	4193075.00	196.71	298.26	1.50
631	DISCCART	574113.40	4193075.00	211.87	298.26	1.50
632	DISCCART	574213.40	4193075.00	227.51	256.69	1.50
633	DISCCART	574313.40	4193075.00	241.94	256.69	1.50
634	DISCCART	574413.40	4193075.00	220.26	256.69	1.50
635	DISCCART	574513.40	4193075.00	213.86	256.69	1.50
636	DISCCART	574613.40	4193075.00	216.49	256.69	1.50
637	DISCCART	574713.40	4193075.00	189.10	262.73	1.50
638	DISCCART	574813.40	4193075.00	173.36	262.73	1.50
639	DISCCART	574913.40	4193075.00	148.09	316.12	1.50
640	DISCCART	575013.40	4193075.00	134.59	316.12	1.50
641	DISCCART	575113.40	4193075.00	134.47	316.12	1.50
642	DISCCART	575213.40	4193075.00	134.79	316.12	1.50
643	DISCCART	575313.40	4193075.00	134.47	316.12	1.50
644	DISCCART	575413.40	4193075.00	134.47	316.12	1.50
645	DISCCART	575513.40	4193075.00	134.47	316.12	1.50
646	DISCCART	575613.40	4193075.00	134.47	316.12	1.50
647	DISCCART	575713.40	4193075.00	134.47	316.12	1.50
648	DISCCART	575813.40	4193075.00	134.47	316.12	1.50
649	DISCCART	575913.40	4193075.00	134.47	316.12	1.50
650	DISCCART	576013.40	4193075.00	136.35	316.12	1.50
651	DISCCART	576113.40	4193075.00	149.00	316.12	1.50
652	DISCCART	576213.40	4193075.00	160.81	280.10	1.50
653	DISCCART	576313.40	4193075.00	193.39	222.16	1.50
654	DISCCART	576413.40	4193075.00	199.99	222.16	1.50
655	DISCCART	576513.40	4193075.00	180.75	238.68	1.50
656	DISCCART	576613.40	4193075.00	158.99	280.10	1.50
657	DISCCART	576713.40	4193075.00	167.70	248.40	1.50
658	DISCCART	576813.40	4193075.00	183.92	212.49	1.50
659	DISCCART	576913.40	4193075.00	181.92	207.15	1.50
660	DISCCART	577013.40	4193075.00	169.02	238.68	1.50
661	DISCCART	577113.40	4193075.00	165.96	207.15	1.50
662	DISCCART	577213.40	4193075.00	137.47	248.40	1.50
663	DISCCART	577313.40	4193075.00	116.50	262.83	1.50
664	DISCCART	577413.40	4193075.00	105.33	262.83	1.50
665	DISCCART	577513.40	4193075.00	100.92	262.83	1.50
666	DISCCART	577613.40	4193075.00	105.96	262.83	1.50
667	DISCCART	577713.40	4193075.00	107.68	262.83	1.50
668	DISCCART	577813.40	4193075.00	101.66	262.83	1.50
669	DISCCART	577913.40	4193075.00	107.03	262.83	1.50
670	DISCCART	573313.40	4193175.00	287.99	298.26	1.50
671	DISCCART	573413.40	4193175.00	278.41	298.26	1.50
672	DISCCART	573513.40	4193175.00	251.61	298.26	1.50
673	DISCCART	573613.40	4193175.00	231.59	298.26	1.50
674	DISCCART	573713.40	4193175.00	216.40	298.26	1.50
675	DISCCART	573813.40	4193175.00	206.88	298.26	1.50
676	DISCCART	573913.40	4193175.00	175.38	298.26	1.50
677	DISCCART	574013.40	4193175.00	186.02	298.26	1.50
678	DISCCART	574113.40	4193175.00	195.56	298.26	1.50
679	DISCCART	574213.40	4193175.00	210.11	256.69	1.50
680	DISCCART	574313.40	4193175.00	233.60	256.69	1.50
681	DISCCART	574413.40	4193175.00	249.90	251.25	1.50
682	DISCCART	574513.40	4193175.00	230.33	251.25	1.50
683	DISCCART	574613.40	4193175.00	208.28	256.69	1.50
684	DISCCART	574713.40	4193175.00	182.34	262.73	1.50
685	DISCCART	574813.40	4193175.00	155.99	262.73	1.50
686	DISCCART	574913.40	4193175.00	143.84	316.12	1.50
687	DISCCART	575013.40	4193175.00	137.04	316.12	1.50
688	DISCCART	575113.40	4193175.00	150.81	316.12	1.50
689	DISCCART	575213.40	4193175.00	151.25	316.12	1.50
690	DISCCART	575313.40	4193175.00	143.97	316.12	1.50

691	DISCCART	575413.40	4193175.00	134.47	316.12	1.50
692	DISCCART	575513.40	4193175.00	134.47	316.12	1.50
693	DISCCART	575613.40	4193175.00	134.47	316.12	1.50
694	DISCCART	575713.40	4193175.00	134.47	316.12	1.50
695	DISCCART	575813.40	4193175.00	134.47	316.12	1.50
696	DISCCART	575913.40	4193175.00	137.71	316.12	1.50
697	DISCCART	576013.40	4193175.00	151.00	280.10	1.50
698	DISCCART	576113.40	4193175.00	154.17	280.10	1.50
699	DISCCART	576213.40	4193175.00	165.51	280.10	1.50
700	DISCCART	576313.40	4193175.00	188.88	222.16	1.50
701	DISCCART	576413.40	4193175.00	204.60	222.16	1.50
702	DISCCART	576513.40	4193175.00	194.57	222.16	1.50
703	DISCCART	576613.40	4193175.00	198.05	222.16	1.50
704	DISCCART	576713.40	4193175.00	188.27	222.16	1.50
705	DISCCART	576813.40	4193175.00	197.40	207.15	1.50
706	DISCCART	576913.40	4193175.00	196.35	207.15	1.50
707	DISCCART	577013.40	4193175.00	169.59	212.49	1.50
708	DISCCART	577113.40	4193175.00	143.39	238.68	1.50
709	DISCCART	577213.40	4193175.00	140.86	238.68	1.50
710	DISCCART	577313.40	4193175.00	130.00	248.27	1.50
711	DISCCART	577413.40	4193175.00	117.66	259.77	1.50
712	DISCCART	577513.40	4193175.00	100.38	262.83	1.50
713	DISCCART	577613.40	4193175.00	98.31	262.83	1.50
714	DISCCART	577713.40	4193175.00	97.75	262.83	1.50
715	DISCCART	577813.40	4193175.00	99.81	262.83	1.50
716	DISCCART	577913.40	4193175.00	106.47	259.77	1.50
717	DISCCART	573313.40	4193275.00	273.80	298.26	1.50
718	DISCCART	573413.40	4193275.00	252.86	298.26	1.50
719	DISCCART	573513.40	4193275.00	235.16	298.26	1.50
720	DISCCART	573613.40	4193275.00	205.93	298.26	1.50
721	DISCCART	573713.40	4193275.00	196.73	298.26	1.50
722	DISCCART	573813.40	4193275.00	178.19	298.26	1.50
723	DISCCART	573913.40	4193275.00	170.24	298.26	1.50
724	DISCCART	574013.40	4193275.00	166.08	298.26	1.50
725	DISCCART	574113.40	4193275.00	175.84	298.26	1.50
726	DISCCART	574213.40	4193275.00	192.57	298.26	1.50
727	DISCCART	574313.40	4193275.00	201.59	256.69	1.50
728	DISCCART	574413.40	4193275.00	219.15	256.69	1.50
729	DISCCART	574513.40	4193275.00	227.39	251.25	1.50
730	DISCCART	574613.40	4193275.00	205.79	256.69	1.50
731	DISCCART	574713.40	4193275.00	178.87	262.73	1.50
732	DISCCART	576413.40	4193275.00	219.50	222.14	1.50
733	DISCCART	576513.40	4193275.00	212.03	222.16	1.50
734	DISCCART	576613.40	4193275.00	201.71	222.16	1.50
735	DISCCART	576713.40	4193275.00	193.25	222.16	1.50
736	DISCCART	576813.40	4193275.00	199.48	207.15	1.50
737	DISCCART	576913.40	4193275.00	197.44	207.15	1.50
738	DISCCART	577013.40	4193275.00	168.79	212.49	1.50
739	DISCCART	577113.40	4193275.00	144.17	238.68	1.50
740	DISCCART	577213.40	4193275.00	137.22	238.68	1.50
741	DISCCART	577313.40	4193275.00	117.45	248.40	1.50
742	DISCCART	577413.40	4193275.00	105.63	259.77	1.50
743	DISCCART	577513.40	4193275.00	100.36	259.77	1.50
744	DISCCART	577613.40	4193275.00	95.85	262.83	1.50
745	DISCCART	577713.40	4193275.00	96.26	259.77	1.50
746	DISCCART	577813.40	4193275.00	102.32	259.77	1.50
747	DISCCART	577913.40	4193275.00	105.53	259.77	1.50
748	DISCCART	573313.40	4193375.00	273.85	298.26	1.50
749	DISCCART	573413.40	4193375.00	269.36	298.26	1.50
750	DISCCART	573513.40	4193375.00	247.20	298.26	1.50
751	DISCCART	573613.40	4193375.00	235.05	298.26	1.50
752	DISCCART	573713.40	4193375.00	211.33	298.26	1.50
753	DISCCART	573813.40	4193375.00	191.03	298.26	1.50
754	DISCCART	573913.40	4193375.00	170.60	298.26	1.50
755	DISCCART	574013.40	4193375.00	162.03	298.26	1.50
756	DISCCART	574113.40	4193375.00	159.15	298.26	1.50
757	DISCCART	574213.40	4193375.00	167.13	298.26	1.50
758	DISCCART	574313.40	4193375.00	177.62	298.26	1.50
759	DISCCART	574413.40	4193375.00	197.55	256.69	1.50

760	DISCCART	574513.40	4193375.00	222.31	251.25	1.50
761	DISCCART	574613.40	4193375.00	205.52	251.25	1.50
762	DISCCART	574713.40	4193375.00	193.33	256.69	1.50
763	DISCCART	576413.40	4193375.00	183.40	222.16	1.50
764	DISCCART	576513.40	4193375.00	171.55	222.16	1.50
765	DISCCART	576613.40	4193375.00	159.17	236.71	1.50
766	DISCCART	576713.40	4193375.00	158.77	222.16	1.50
767	DISCCART	576813.40	4193375.00	161.93	222.16	1.50
768	DISCCART	576913.40	4193375.00	180.89	207.15	1.50
769	DISCCART	577013.40	4193375.00	167.80	212.49	1.50
770	DISCCART	577113.40	4193375.00	157.46	212.49	1.50
771	DISCCART	577213.40	4193375.00	142.98	222.16	1.50
772	DISCCART	577313.40	4193375.00	124.67	238.68	1.50
773	DISCCART	577413.40	4193375.00	104.45	259.77	1.50
774	DISCCART	577513.40	4193375.00	98.28	259.77	1.50
775	DISCCART	577613.40	4193375.00	94.89	259.77	1.50
776	DISCCART	577713.40	4193375.00	94.59	259.77	1.50
777	DISCCART	577813.40	4193375.00	96.37	259.77	1.50
778	DISCCART	577913.40	4193375.00	93.88	259.77	1.50
779	DISCCART	573313.40	4193475.00	268.69	273.99	1.50
780	DISCCART	573413.40	4193475.00	272.40	272.89	1.50
781	DISCCART	573513.40	4193475.00	245.59	298.26	1.50
782	DISCCART	573613.40	4193475.00	223.63	298.26	1.50
783	DISCCART	573713.40	4193475.00	192.14	298.26	1.50
784	DISCCART	573813.40	4193475.00	168.23	305.50	1.50
785	DISCCART	573913.40	4193475.00	163.39	305.50	1.50
786	DISCCART	574013.40	4193475.00	158.81	305.50	1.50
787	DISCCART	574113.40	4193475.00	155.96	305.50	1.50
788	DISCCART	574213.40	4193475.00	157.91	298.26	1.50
789	DISCCART	574313.40	4193475.00	170.97	298.26	1.50
790	DISCCART	574413.40	4193475.00	199.24	256.69	1.50
791	DISCCART	574513.40	4193475.00	218.91	226.01	1.50
792	DISCCART	574613.40	4193475.00	221.80	222.43	1.50
793	DISCCART	574713.40	4193475.00	222.96	223.56	1.50
794	DISCCART	576413.40	4193475.00	145.90	238.68	1.50
795	DISCCART	576513.40	4193475.00	148.79	236.71	1.50
796	DISCCART	576613.40	4193475.00	132.07	248.13	1.50
797	DISCCART	576713.40	4193475.00	131.64	238.68	1.50
798	DISCCART	576813.40	4193475.00	130.87	238.68	1.50
799	DISCCART	576913.40	4193475.00	159.77	222.16	1.50
800	DISCCART	577013.40	4193475.00	149.51	222.16	1.50
801	DISCCART	577113.40	4193475.00	135.69	222.16	1.50
802	DISCCART	577213.40	4193475.00	144.24	212.49	1.50
803	DISCCART	577313.40	4193475.00	120.51	238.68	1.50
804	DISCCART	577413.40	4193475.00	101.91	238.68	1.50
805	DISCCART	577513.40	4193475.00	95.34	259.77	1.50
806	DISCCART	577613.40	4193475.00	93.17	259.77	1.50
807	DISCCART	577713.40	4193475.00	92.18	318.15	1.50
808	DISCCART	577813.40	4193475.00	92.28	318.15	1.50
809	DISCCART	577913.40	4193475.00	91.92	318.15	1.50
810	DISCCART	573313.40	4193575.00	259.01	277.17	1.50
811	DISCCART	573413.40	4193575.00	244.52	298.26	1.50
812	DISCCART	573513.40	4193575.00	224.94	298.26	1.50
813	DISCCART	573613.40	4193575.00	204.67	298.26	1.50
814	DISCCART	573713.40	4193575.00	197.62	298.26	1.50
815	DISCCART	573813.40	4193575.00	188.00	298.26	1.50
816	DISCCART	573913.40	4193575.00	181.71	298.26	1.50
817	DISCCART	574013.40	4193575.00	163.14	322.70	1.50
818	DISCCART	574113.40	4193575.00	153.23	322.70	1.50
819	DISCCART	574213.40	4193575.00	152.55	322.70	1.50
820	DISCCART	574313.40	4193575.00	185.84	298.26	1.50
821	DISCCART	574413.40	4193575.00	200.47	251.25	1.50
822	DISCCART	574513.40	4193575.00	200.35	251.25	1.50
823	DISCCART	574613.40	4193575.00	186.13	256.69	1.50
824	DISCCART	574713.40	4193575.00	184.78	251.25	1.50
825	DISCCART	576413.40	4193575.00	119.95	280.10	1.50
826	DISCCART	576513.40	4193575.00	120.91	279.79	1.50
827	DISCCART	576613.40	4193575.00	116.13	280.10	1.50
828	DISCCART	576713.40	4193575.00	115.08	257.46	1.50

829	DISCCART	576813.40	4193575.00	125.38	238.68	1.50
830	DISCCART	576913.40	4193575.00	126.72	238.68	1.50
831	DISCCART	577013.40	4193575.00	130.97	222.16	1.50
832	DISCCART	577113.40	4193575.00	118.73	238.68	1.50
833	DISCCART	577213.40	4193575.00	120.21	222.16	1.50
834	DISCCART	577313.40	4193575.00	105.53	238.68	1.50
835	DISCCART	577413.40	4193575.00	94.40	318.15	1.50
836	DISCCART	577513.40	4193575.00	91.40	326.41	1.50
837	DISCCART	577613.40	4193575.00	90.60	326.41	1.50
838	DISCCART	577713.40	4193575.00	90.57	326.41	1.50
839	DISCCART	577813.40	4193575.00	90.14	326.41	1.50
840	DISCCART	577913.40	4193575.00	89.94	326.41	1.50
841	DISCCART	573313.40	4193675.00	260.68	281.60	1.50
842	DISCCART	573413.40	4193675.00	256.80	277.17	1.50
843	DISCCART	573513.40	4193675.00	248.46	277.17	1.50
844	DISCCART	573613.40	4193675.00	238.89	277.17	1.50
845	DISCCART	573713.40	4193675.00	222.98	298.26	1.50
846	DISCCART	573813.40	4193675.00	202.95	298.26	1.50
847	DISCCART	573913.40	4193675.00	187.23	305.41	1.50
848	DISCCART	574013.40	4193675.00	173.49	322.67	1.50
849	DISCCART	574113.40	4193675.00	151.55	322.70	1.50
850	DISCCART	574213.40	4193675.00	148.41	322.70	1.50
851	DISCCART	574313.40	4193675.00	148.95	322.70	1.50
852	DISCCART	574413.40	4193675.00	160.84	305.50	1.50
853	DISCCART	574513.40	4193675.00	171.13	256.69	1.50
854	DISCCART	574613.40	4193675.00	167.40	256.69	1.50
855	DISCCART	574713.40	4193675.00	161.62	256.69	1.50
856	DISCCART	574813.40	4193675.00	100.87	280.10	1.50
857	DISCCART	574913.40	4193675.00	99.70	280.10	1.50
858	DISCCART	575013.40	4193675.00	100.46	280.10	1.50
859	DISCCART	575113.40	4193675.00	101.84	280.10	1.50
860	DISCCART	575213.40	4193675.00	104.01	259.10	1.50
861	DISCCART	575313.40	4193675.00	104.92	257.46	1.50
862	DISCCART	575413.40	4193675.00	104.24	256.31	1.50
863	DISCCART	575513.40	4193675.00	108.25	238.68	1.50
864	DISCCART	575613.40	4193675.00	102.09	238.68	1.50
865	DISCCART	575713.40	4193675.00	96.35	326.41	1.50
866	DISCCART	575813.40	4193675.00	91.27	337.91	1.50
867	DISCCART	575913.40	4193675.00	89.44	337.91	1.50
868	DISCCART	576013.40	4193675.00	89.63	337.91	1.50
869	DISCCART	576113.40	4193675.00	89.22	337.91	1.50
870	DISCCART	576213.40	4193675.00	88.85	326.41	1.50
871	DISCCART	576313.40	4193675.00	89.15	326.41	1.50
872	DISCCART	573313.40	4193775.00	271.36	277.17	1.50
873	DISCCART	573413.40	4193775.00	240.48	282.04	1.50
874	DISCCART	573513.40	4193775.00	231.26	298.26	1.50
875	DISCCART	573613.40	4193775.00	232.56	282.04	1.50
876	DISCCART	573713.40	4193775.00	212.01	298.26	1.50
877	DISCCART	573813.40	4193775.00	190.35	322.70	1.50
878	DISCCART	573913.40	4193775.00	175.98	322.70	1.50
879	DISCCART	574013.40	4193775.00	157.34	322.70	1.50
880	DISCCART	574113.40	4193775.00	145.65	322.70	1.50
881	DISCCART	574213.40	4193775.00	145.20	322.70	1.50
882	DISCCART	574313.40	4193775.00	143.69	322.70	1.50
883	DISCCART	574413.40	4193775.00	149.80	322.70	1.50
884	DISCCART	574513.40	4193775.00	155.96	305.50	1.50
885	DISCCART	574613.40	4193775.00	146.81	305.50	1.50
886	DISCCART	574713.40	4193775.00	143.20	305.50	1.50
887	DISCCART	574813.40	4193775.00	100.81	367.29	1.50
888	DISCCART	574913.40	4193775.00	99.20	367.29	1.50
889	DISCCART	575013.40	4193775.00	98.76	367.29	1.50
890	DISCCART	575113.40	4193775.00	97.76	367.29	1.50
891	DISCCART	575213.40	4193775.00	96.66	367.29	1.50
892	DISCCART	575313.40	4193775.00	95.33	367.29	1.50
893	DISCCART	575413.40	4193775.00	94.34	367.29	1.50
894	DISCCART	575513.40	4193775.00	95.01	340.58	1.50
895	DISCCART	575613.40	4193775.00	92.10	340.58	1.50
896	DISCCART	575713.40	4193775.00	91.06	340.58	1.50
897	DISCCART	575813.40	4193775.00	90.48	340.58	1.50

898	DISCCART	577513.40	4193775.00	88.42	340.58	1.50
899	DISCCART	577613.40	4193775.00	88.60	340.58	1.50
900	DISCCART	577713.40	4193775.00	87.75	340.58	1.50
901	DISCCART	577813.40	4193775.00	87.47	340.58	1.50
902	DISCCART	577913.40	4193775.00	85.97	337.91	1.50
903	DISCCART	573313.40	4193875.00	229.48	282.04	1.50
904	DISCCART	573413.40	4193875.00	212.79	322.70	1.50
905	DISCCART	573513.40	4193875.00	201.90	322.70	1.50
906	DISCCART	573613.40	4193875.00	191.16	322.70	1.50
907	DISCCART	573713.40	4193875.00	190.45	322.70	1.50
908	DISCCART	573813.40	4193875.00	171.32	322.70	1.50
909	DISCCART	573913.40	4193875.00	157.58	322.70	1.50
910	DISCCART	574013.40	4193875.00	147.51	322.70	1.50
911	DISCCART	574113.40	4193875.00	145.41	322.70	1.50
912	DISCCART	574213.40	4193875.00	142.64	322.70	1.50
913	DISCCART	574313.40	4193875.00	140.71	322.70	1.50
914	DISCCART	574413.40	4193875.00	138.67	322.70	1.50
915	DISCCART	574513.40	4193875.00	142.93	322.70	1.50
916	DISCCART	574613.40	4193875.00	138.86	322.70	1.50
917	DISCCART	574713.40	4193875.00	138.38	322.70	1.50
918	DISCCART	576413.40	4193875.00	102.56	367.29	1.50
919	DISCCART	576513.40	4193875.00	100.37	367.29	1.50
920	DISCCART	576613.40	4193875.00	99.30	367.29	1.50
921	DISCCART	576713.40	4193875.00	97.62	367.29	1.50
922	DISCCART	576813.40	4193875.00	96.40	367.29	1.50
923	DISCCART	576913.40	4193875.00	95.27	367.29	1.50
924	DISCCART	577013.40	4193875.00	93.70	367.29	1.50
925	DISCCART	577113.40	4193875.00	92.78	367.29	1.50
926	DISCCART	577213.40	4193875.00	91.84	367.29	1.50
927	DISCCART	577313.40	4193875.00	90.41	367.29	1.50
928	DISCCART	577413.40	4193875.00	95.12	340.58	1.50
929	DISCCART	577513.40	4193875.00	87.77	340.58	1.50
930	DISCCART	577613.40	4193875.00	87.29	340.58	1.50
931	DISCCART	577713.40	4193875.00	87.10	340.58	1.50
932	DISCCART	577813.40	4193875.00	85.43	340.58	1.50
933	DISCCART	577913.40	4193875.00	86.99	340.58	1.50
934	DISCCART	573313.40	4193975.00	212.29	322.70	1.50
935	DISCCART	573413.40	4193975.00	197.16	322.70	1.50
936	DISCCART	573513.40	4193975.00	184.75	322.70	1.50
937	DISCCART	573613.40	4193975.00	180.46	322.70	1.50
938	DISCCART	573713.40	4193975.00	167.15	322.70	1.50
939	DISCCART	573813.40	4193975.00	155.80	335.51	1.50
940	DISCCART	573913.40	4193975.00	152.52	335.51	1.50
941	DISCCART	574013.40	4193975.00	146.87	335.51	1.50
942	DISCCART	574113.40	4193975.00	144.38	335.51	1.50
943	DISCCART	574213.40	4193975.00	141.84	335.51	1.50
944	DISCCART	574313.40	4193975.00	138.91	335.51	1.50
945	DISCCART	574413.40	4193975.00	136.65	325.55	1.50
946	DISCCART	574513.40	4193975.00	137.20	322.70	1.50
947	DISCCART	574613.40	4193975.00	131.84	322.70	1.50
948	DISCCART	574713.40	4193975.00	134.29	322.70	1.50
949	DISCCART	576413.40	4193975.00	110.32	367.29	1.50
950	DISCCART	576513.40	4193975.00	104.18	367.29	1.50
951	DISCCART	576613.40	4193975.00	103.83	367.29	1.50
952	DISCCART	576713.40	4193975.00	100.18	367.29	1.50
953	DISCCART	576813.40	4193975.00	98.20	367.29	1.50
954	DISCCART	576913.40	4193975.00	96.75	367.29	1.50
955	DISCCART	577013.40	4193975.00	95.36	367.29	1.50
956	DISCCART	577113.40	4193975.00	94.06	367.29	1.50
957	DISCCART	577213.40	4193975.00	91.95	367.29	1.50
958	DISCCART	577313.40	4193975.00	90.03	367.29	1.50
959	DISCCART	577413.40	4193975.00	87.73	367.29	1.50
960	DISCCART	577513.40	4193975.00	87.31	367.29	1.50
961	DISCCART	577613.40	4193975.00	86.14	367.29	1.50
962	DISCCART	577713.40	4193975.00	86.16	367.29	1.50
963	DISCCART	577813.40	4193975.00	86.05	340.58	1.50
964	DISCCART	577913.40	4193975.00	85.03	340.58	1.50
965	DISCCART	573313.40	4194075.00	216.02	322.70	1.50
966	DISCCART	573413.40	4194075.00	192.95	322.70	1.50

967	DISCCART	573513.40	4194075.00	182.39	322.70	1.50
968	DISCCART	573613.40	4194075.00	173.23	335.51	1.50
969	DISCCART	573713.40	4194075.00	162.50	335.51	1.50
970	DISCCART	573813.40	4194075.00	154.12	335.51	1.50
971	DISCCART	573913.40	4194075.00	149.36	335.51	1.50
972	DISCCART	574013.40	4194075.00	146.83	335.51	1.50
973	DISCCART	574113.40	4194075.00	143.92	335.51	1.50
974	DISCCART	574213.40	4194075.00	142.25	335.51	1.50
975	DISCCART	574313.40	4194075.00	140.36	335.51	1.50
976	DISCCART	574413.40	4194075.00	137.75	335.51	1.50
977	DISCCART	574513.40	4194075.00	139.33	322.70	1.50
978	DISCCART	574613.40	4194075.00	134.84	322.70	1.50
979	DISCCART	574713.40	4194075.00	134.34	322.70	1.50
980	DISCCART	576413.40	4194075.00	122.15	367.29	1.50
981	DISCCART	576513.40	4194075.00	108.42	367.29	1.50
982	DISCCART	576613.40	4194075.00	102.13	413.72	1.50
983	DISCCART	576713.40	4194075.00	105.01	367.29	1.50
984	DISCCART	576813.40	4194075.00	102.22	367.29	1.50
985	DISCCART	576913.40	4194075.00	99.42	367.29	1.50
986	DISCCART	577013.40	4194075.00	96.96	367.29	1.50
987	DISCCART	577113.40	4194075.00	95.46	367.29	1.50
988	DISCCART	577213.40	4194075.00	92.16	367.29	1.50
989	DISCCART	577313.40	4194075.00	90.51	367.29	1.50
990	DISCCART	577413.40	4194075.00	88.95	367.29	1.50
991	DISCCART	577513.40	4194075.00	87.84	367.29	1.50
992	DISCCART	577613.40	4194075.00	86.72	367.29	1.50
993	DISCCART	577713.40	4194075.00	85.10	367.29	1.50
994	DISCCART	577813.40	4194075.00	85.44	367.29	1.50
995	DISCCART	577913.40	4194075.00	84.54	367.14	1.50
996	DISCCART	573313.40	4194175.00	183.83	335.51	1.50
997	DISCCART	573413.40	4194175.00	173.72	335.51	1.50
998	DISCCART	573513.40	4194175.00	166.56	335.51	1.50
999	DISCCART	573613.40	4194175.00	163.90	335.51	1.50
1000	DISCCART	573713.40	4194175.00	157.10	335.51	1.50
1001	DISCCART	573813.40	4194175.00	152.98	335.51	1.50
1002	DISCCART	573913.40	4194175.00	150.86	335.51	1.50
1003	DISCCART	574013.40	4194175.00	149.52	335.51	1.50
1004	DISCCART	574113.40	4194175.00	153.02	335.51	1.50
1005	DISCCART	574213.40	4194175.00	150.24	335.51	1.50
1006	DISCCART	574313.40	4194175.00	147.54	335.51	1.50
1007	DISCCART	574413.40	4194175.00	144.00	335.51	1.50
1008	DISCCART	574513.40	4194175.00	139.82	335.51	1.50
1009	DISCCART	574613.40	4194175.00	131.72	335.51	1.50
1010	DISCCART	574713.40	4194175.00	129.86	357.55	1.50
1011	DISCCART	576413.40	4194175.00	124.60	367.29	1.50
1012	DISCCART	576513.40	4194175.00	121.52	367.29	1.50
1013	DISCCART	576613.40	4194175.00	114.72	367.29	1.50
1014	DISCCART	576713.40	4194175.00	108.67	413.72	1.50
1015	DISCCART	576813.40	4194175.00	109.67	367.29	1.50
1016	DISCCART	576913.40	4194175.00	99.59	413.72	1.50
1017	DISCCART	577013.40	4194175.00	98.19	367.29	1.50
1018	DISCCART	577113.40	4194175.00	96.07	367.29	1.50
1019	DISCCART	577213.40	4194175.00	93.38	367.29	1.50
1020	DISCCART	577313.40	4194175.00	91.01	367.29	1.50
1021	DISCCART	577413.40	4194175.00	90.58	367.29	1.50
1022	DISCCART	577513.40	4194175.00	89.67	367.29	1.50
1023	DISCCART	577613.40	4194175.00	91.00	367.29	1.50
1024	DISCCART	577713.40	4194175.00	87.47	367.29	1.50
1025	DISCCART	577813.40	4194175.00	84.52	367.29	1.50
1026	DISCCART	577913.40	4194175.00	83.74	367.29	1.50
1027	DISCCART	573313.40	4194275.00	186.02	335.51	1.50
1028	DISCCART	573413.40	4194275.00	182.24	335.51	1.50
1029	DISCCART	573513.40	4194275.00	177.55	335.51	1.50
1030	DISCCART	573613.40	4194275.00	173.09	335.51	1.50
1031	DISCCART	573713.40	4194275.00	170.00	335.51	1.50
1032	DISCCART	573813.40	4194275.00	167.75	335.51	1.50
1033	DISCCART	573913.40	4194275.00	164.59	335.51	1.50
1034	DISCCART	574013.40	4194275.00	162.55	335.51	1.50
1035	DISCCART	574113.40	4194275.00	158.65	335.51	1.50

1036	DISCCART	574213.40	4194275.00	150.83	335.51	1.50
1037	DISCCART	574313.40	4194275.00	143.50	335.51	1.50
1038	DISCCART	574413.40	4194275.00	143.50	335.51	1.50
1039	DISCCART	574513.40	4194275.00	141.55	335.51	1.50
1040	DISCCART	574613.40	4194275.00	139.20	357.55	1.50
1041	DISCCART	574713.40	4194275.00	133.90	365.57	1.50
1042	DISCCART	576413.40	4194275.00	147.29	367.29	1.50
1043	DISCCART	576513.40	4194275.00	125.28	413.72	1.50
1044	DISCCART	576613.40	4194275.00	113.02	413.72	1.50
1045	DISCCART	576713.40	4194275.00	116.20	413.72	1.50
1046	DISCCART	576813.40	4194275.00	111.60	413.72	1.50
1047	DISCCART	576913.40	4194275.00	111.38	367.29	1.50
1048	DISCCART	577013.40	4194275.00	101.17	413.72	1.50
1049	DISCCART	577113.40	4194275.00	103.92	367.29	1.50
1050	DISCCART	577213.40	4194275.00	110.87	367.29	1.50
1051	DISCCART	577313.40	4194275.00	96.14	367.29	1.50
1052	DISCCART	577413.40	4194275.00	92.58	367.29	1.50
1053	DISCCART	577513.40	4194275.00	92.33	367.29	1.50
1054	DISCCART	577613.40	4194275.00	92.27	367.29	1.50
1055	DISCCART	577713.40	4194275.00	92.29	367.29	1.50
1056	DISCCART	577813.40	4194275.00	90.92	367.29	1.50
1057	DISCCART	577913.40	4194275.00	87.92	367.29	1.50
1058	DISCCART	573313.40	4194376.00	201.90	335.51	1.50
1059	DISCCART	573413.40	4194376.00	200.36	335.51	1.50
1060	DISCCART	573513.40	4194376.00	198.50	335.51	1.50
1061	DISCCART	573613.40	4194376.00	195.54	335.51	1.50
1062	DISCCART	573713.40	4194376.00	194.34	335.51	1.50
1063	DISCCART	573813.40	4194376.00	202.44	322.70	1.50
1064	DISCCART	573913.40	4194376.00	195.12	335.34	1.50
1065	DISCCART	574013.40	4194376.00	179.34	335.51	1.50
1066	DISCCART	574113.40	4194376.00	175.19	335.51	1.50
1067	DISCCART	574213.40	4194376.00	158.00	335.51	1.50
1068	DISCCART	574313.40	4194376.00	154.68	335.51	1.50
1069	DISCCART	574413.40	4194376.00	141.19	365.57	1.50
1070	DISCCART	574513.40	4194376.00	138.34	365.57	1.50
1071	DISCCART	574613.40	4194376.00	134.32	365.57	1.50
1072	DISCCART	574713.40	4194376.00	130.28	413.72	1.50
1073	DISCCART	576413.40	4194376.00	140.53	367.29	1.50
1074	DISCCART	576513.40	4194376.00	118.49	413.72	1.50
1075	DISCCART	576613.40	4194376.00	119.16	413.72	1.50
1076	DISCCART	576713.40	4194376.00	107.74	413.72	1.50
1077	DISCCART	576813.40	4194376.00	104.14	413.72	1.50
1078	DISCCART	576913.40	4194376.00	106.23	413.72	1.50
1079	DISCCART	577013.40	4194376.00	110.98	413.72	1.50
1080	DISCCART	577113.40	4194376.00	111.36	367.29	1.50
1081	DISCCART	577213.40	4194376.00	109.02	367.29	1.50
1082	DISCCART	577313.40	4194376.00	101.70	367.29	1.50
1083	DISCCART	577413.40	4194376.00	107.51	367.29	1.50
1084	DISCCART	577513.40	4194376.00	95.81	367.29	1.50
1085	DISCCART	577613.40	4194376.00	94.81	367.29	1.50
1086	DISCCART	577713.40	4194376.00	97.82	367.29	1.50
1087	DISCCART	577813.40	4194376.00	96.43	367.29	1.50
1088	DISCCART	577913.40	4194376.00	88.96	367.29	1.50
1089	DISCCART	573313.40	4194476.00	225.38	322.70	1.50
1090	DISCCART	573413.40	4194476.00	213.59	335.51	1.50
1091	DISCCART	573513.40	4194476.00	206.81	335.51	1.50
1092	DISCCART	573613.40	4194476.00	205.65	335.51	1.50
1093	DISCCART	573713.40	4194476.00	218.56	322.70	1.50
1094	DISCCART	573813.40	4194476.00	210.80	322.70	1.50
1095	DISCCART	573913.40	4194476.00	198.29	335.51	1.50
1096	DISCCART	574013.40	4194476.00	171.94	335.51	1.50
1097	DISCCART	574113.40	4194476.00	152.88	357.55	1.50
1098	DISCCART	574213.40	4194476.00	146.37	365.57	1.50
1099	DISCCART	574313.40	4194476.00	145.01	365.57	1.50
1100	DISCCART	574413.40	4194476.00	141.34	365.57	1.50
1101	DISCCART	574513.40	4194476.00	135.75	413.72	1.50
1102	DISCCART	574613.40	4194476.00	136.02	413.72	1.50
1103	DISCCART	574713.40	4194476.00	133.84	413.72	1.50
1104	DISCCART	576413.40	4194476.00	138.45	413.72	1.50

1105	DISCCART	576513.40	4194476.00	119.89	413.72	1.50
1106	DISCCART	576613.40	4194476.00	128.38	413.72	1.50
1107	DISCCART	576713.40	4194476.00	125.71	413.72	1.50
1108	DISCCART	576813.40	4194476.00	105.85	413.72	1.50
1109	DISCCART	576913.40	4194476.00	105.06	413.72	1.50
1110	DISCCART	577013.40	4194476.00	109.75	413.72	1.50
1111	DISCCART	577113.40	4194476.00	112.21	413.72	1.50
1112	DISCCART	577213.40	4194476.00	109.47	413.72	1.50
1113	DISCCART	577313.40	4194476.00	115.38	367.29	1.50
1114	DISCCART	577413.40	4194476.00	110.52	367.29	1.50
1115	DISCCART	577513.40	4194476.00	108.65	367.29	1.50
1116	DISCCART	577613.40	4194476.00	106.18	367.29	1.50
1117	DISCCART	577713.40	4194476.00	104.61	367.29	1.50
1118	DISCCART	577813.40	4194476.00	102.27	367.29	1.50
1119	DISCCART	577913.40	4194476.00	94.69	367.29	1.50
1120	DISCCART	573313.40	4194576.00	249.78	322.70	1.50
1121	DISCCART	573413.40	4194576.00	220.37	335.51	1.50
1122	DISCCART	573513.40	4194576.00	239.22	322.70	1.50
1123	DISCCART	573613.40	4194576.00	232.38	322.70	1.50
1124	DISCCART	573713.40	4194576.00	223.09	322.70	1.50
1125	DISCCART	573813.40	4194576.00	204.28	335.51	1.50
1126	DISCCART	573913.40	4194576.00	169.75	335.51	1.50
1127	DISCCART	574013.40	4194576.00	154.22	357.55	1.50
1128	DISCCART	574113.40	4194576.00	152.71	365.57	1.50
1129	DISCCART	574213.40	4194576.00	149.36	365.57	1.50
1130	DISCCART	574313.40	4194576.00	145.79	365.57	1.50
1131	DISCCART	574413.40	4194576.00	143.46	365.57	1.50
1132	DISCCART	574513.40	4194576.00	145.49	365.57	1.50
1133	DISCCART	574613.40	4194576.00	141.83	413.72	1.50
1134	DISCCART	574713.40	4194576.00	135.33	413.72	1.50
1135	DISCCART	574813.40	4194576.00	132.70	413.72	1.50
1136	DISCCART	574913.40	4194576.00	148.37	413.72	1.50
1137	DISCCART	575013.40	4194576.00	138.39	413.72	1.50
1138	DISCCART	575113.40	4194576.00	146.99	413.72	1.50
1139	DISCCART	575213.40	4194576.00	158.26	413.72	1.50
1140	DISCCART	575313.40	4194576.00	175.70	259.10	1.50
1141	DISCCART	575413.40	4194576.00	166.64	413.72	1.50
1142	DISCCART	575513.40	4194576.00	163.83	413.72	1.50
1143	DISCCART	575613.40	4194576.00	192.44	259.10	1.50
1144	DISCCART	575713.40	4194576.00	218.03	259.10	1.50
1145	DISCCART	575813.40	4194576.00	254.12	255.04	1.50
1146	DISCCART	575913.40	4194576.00	236.37	258.98	1.50
1147	DISCCART	576013.40	4194576.00	217.58	259.10	1.50
1148	DISCCART	576113.40	4194576.00	190.31	259.10	1.50
1149	DISCCART	576213.40	4194576.00	171.26	367.29	1.50
1150	DISCCART	576313.40	4194576.00	160.03	413.72	1.50
1151	DISCCART	576413.40	4194576.00	136.86	413.72	1.50
1152	DISCCART	576513.40	4194576.00	139.91	413.72	1.50
1153	DISCCART	576613.40	4194576.00	132.95	413.72	1.50
1154	DISCCART	576713.40	4194576.00	118.00	413.72	1.50
1155	DISCCART	576813.40	4194576.00	107.61	413.72	1.50
1156	DISCCART	576913.40	4194576.00	105.59	413.72	1.50
1157	DISCCART	577013.40	4194576.00	124.10	413.72	1.50
1158	DISCCART	577113.40	4194576.00	124.47	413.72	1.50
1159	DISCCART	577213.40	4194576.00	123.35	367.29	1.50
1160	DISCCART	577313.40	4194576.00	118.24	367.29	1.50
1161	DISCCART	577413.40	4194576.00	114.25	367.29	1.50
1162	DISCCART	577513.40	4194576.00	108.40	367.29	1.50
1163	DISCCART	577613.40	4194576.00	107.53	367.29	1.50
1164	DISCCART	577713.40	4194576.00	111.07	367.29	1.50
1165	DISCCART	577813.40	4194576.00	110.21	367.29	1.50
1166	DISCCART	577913.40	4194576.00	107.89	367.29	1.50
1167	DISCCART	573313.40	4194676.00	270.46	322.70	1.50
1168	DISCCART	573413.40	4194676.00	231.32	335.51	1.50
1169	DISCCART	573513.40	4194676.00	272.18	322.70	1.50
1170	DISCCART	573613.40	4194676.00	257.05	322.70	1.50
1171	DISCCART	573713.40	4194676.00	228.09	335.51	1.50
1172	DISCCART	573813.40	4194676.00	187.28	335.51	1.50
1173	DISCCART	573913.40	4194676.00	161.29	357.55	1.50

1174	DISCCART	574013.40	4194676.00	159.93	365.57	1.50
1175	DISCCART	574113.40	4194676.00	170.87	357.55	1.50
1176	DISCCART	574213.40	4194676.00	162.46	365.57	1.50
1177	DISCCART	574313.40	4194676.00	154.98	365.57	1.50
1178	DISCCART	574413.40	4194676.00	151.37	365.57	1.50
1179	DISCCART	574513.40	4194676.00	156.61	365.57	1.50
1180	DISCCART	574613.40	4194676.00	150.60	413.72	1.50
1181	DISCCART	574713.40	4194676.00	137.24	413.72	1.50
1182	DISCCART	574813.40	4194676.00	132.97	413.72	1.50
1183	DISCCART	574913.40	4194676.00	153.36	413.72	1.50
1184	DISCCART	575013.40	4194676.00	156.93	413.72	1.50
1185	DISCCART	575113.40	4194676.00	169.55	413.72	1.50
1186	DISCCART	575213.40	4194676.00	186.02	259.10	1.50
1187	DISCCART	575313.40	4194676.00	207.30	259.10	1.50
1188	DISCCART	575413.40	4194676.00	181.73	259.10	1.50
1189	DISCCART	575513.40	4194676.00	184.13	259.10	1.50
1190	DISCCART	575613.40	4194676.00	205.86	259.10	1.50
1191	DISCCART	575713.40	4194676.00	236.08	259.10	1.50
1192	DISCCART	575813.40	4194676.00	249.41	259.04	1.50
1193	DISCCART	575913.40	4194676.00	210.98	259.10	1.50
1194	DISCCART	576013.40	4194676.00	198.38	259.10	1.50
1195	DISCCART	576113.40	4194676.00	179.27	367.29	1.50
1196	DISCCART	576213.40	4194676.00	157.47	413.72	1.50
1197	DISCCART	576313.40	4194676.00	147.89	413.72	1.50
1198	DISCCART	576413.40	4194676.00	141.93	413.72	1.50
1199	DISCCART	576513.40	4194676.00	142.31	413.72	1.50
1200	DISCCART	576613.40	4194676.00	117.25	413.72	1.50
1201	DISCCART	576713.40	4194676.00	110.16	413.72	1.50
1202	DISCCART	576813.40	4194676.00	108.28	413.72	1.50
1203	DISCCART	576913.40	4194676.00	109.90	413.72	1.50
1204	DISCCART	577013.40	4194676.00	117.73	413.72	1.50
1205	DISCCART	577113.40	4194676.00	127.72	413.72	1.50
1206	DISCCART	577213.40	4194676.00	136.65	367.29	1.50
1207	DISCCART	577313.40	4194676.00	120.78	413.72	1.50
1208	DISCCART	577413.40	4194676.00	119.63	367.29	1.50
1209	DISCCART	577513.40	4194676.00	110.50	413.72	1.50
1210	DISCCART	577613.40	4194676.00	113.53	367.29	1.50
1211	DISCCART	577713.40	4194676.00	125.37	367.29	1.50
1212	DISCCART	577813.40	4194676.00	127.95	367.29	1.50
1213	DISCCART	577913.40	4194676.00	106.38	367.29	1.50
1214	DISCCART	573313.40	4194776.00	278.11	322.70	1.50
1215	DISCCART	573413.40	4194776.00	259.25	322.70	1.50
1216	DISCCART	573513.40	4194776.00	303.72	305.41	1.50
1217	DISCCART	573613.40	4194776.00	266.21	322.70	1.50
1218	DISCCART	573713.40	4194776.00	212.59	335.51	1.50
1219	DISCCART	573813.40	4194776.00	176.12	335.51	1.50
1220	DISCCART	573913.40	4194776.00	172.74	357.55	1.50
1221	DISCCART	574013.40	4194776.00	180.43	357.55	1.50
1222	DISCCART	574113.40	4194776.00	187.31	335.51	1.50
1223	DISCCART	574213.40	4194776.00	169.40	365.57	1.50
1224	DISCCART	574313.40	4194776.00	172.31	365.57	1.50
1225	DISCCART	574413.40	4194776.00	165.27	365.57	1.50
1226	DISCCART	574513.40	4194776.00	169.89	365.57	1.50
1227	DISCCART	574613.40	4194776.00	148.08	413.72	1.50
1228	DISCCART	574713.40	4194776.00	139.84	413.72	1.50
1229	DISCCART	574813.40	4194776.00	139.08	413.72	1.50
1230	DISCCART	574913.40	4194776.00	144.86	413.72	1.50
1231	DISCCART	575013.40	4194776.00	160.45	413.72	1.50
1232	DISCCART	575113.40	4194776.00	182.66	413.72	1.50
1233	DISCCART	575213.40	4194776.00	220.98	238.12	1.50
1234	DISCCART	575313.40	4194776.00	199.92	259.10	1.50
1235	DISCCART	575413.40	4194776.00	183.79	413.72	1.50
1236	DISCCART	575513.40	4194776.00	207.88	259.10	1.50
1237	DISCCART	575613.40	4194776.00	233.50	259.10	1.50
1238	DISCCART	575713.40	4194776.00	254.25	259.10	1.50
1239	DISCCART	575813.40	4194776.00	231.08	259.10	1.50
1240	DISCCART	575913.40	4194776.00	203.27	259.10	1.50
1241	DISCCART	576013.40	4194776.00	185.99	413.72	1.50
1242	DISCCART	576113.40	4194776.00	175.39	413.72	1.50

1243	DISCCART	576213.40	4194776.00	151.67	413.72	1.50
1244	DISCCART	576313.40	4194776.00	158.96	413.72	1.50
1245	DISCCART	576413.40	4194776.00	148.65	413.72	1.50
1246	DISCCART	576513.40	4194776.00	133.16	413.72	1.50
1247	DISCCART	576613.40	4194776.00	116.58	413.72	1.50
1248	DISCCART	576713.40	4194776.00	112.54	413.72	1.50
1249	DISCCART	576813.40	4194776.00	113.25	413.72	1.50
1250	DISCCART	576913.40	4194776.00	113.47	413.72	1.50
1251	DISCCART	577013.40	4194776.00	116.85	413.72	1.50
1252	DISCCART	577113.40	4194776.00	134.91	413.72	1.50
1253	DISCCART	577213.40	4194776.00	144.02	367.29	1.50
1254	DISCCART	577313.40	4194776.00	123.77	413.72	1.50
1255	DISCCART	577413.40	4194776.00	123.40	413.72	1.50
1256	DISCCART	577513.40	4194776.00	115.12	413.72	1.50
1257	DISCCART	577613.40	4194776.00	127.93	367.29	1.50
1258	DISCCART	577713.40	4194776.00	133.38	367.29	1.50
1259	DISCCART	577813.40	4194776.00	118.11	367.29	1.50
1260	DISCCART	577913.40	4194776.00	125.03	367.29	1.50
1261	DISCCART	573313.40	4194876.00	298.73	322.70	1.50
1262	DISCCART	573413.40	4194876.00	290.56	322.70	1.50
1263	DISCCART	573513.40	4194876.00	274.19	322.70	1.50
1264	DISCCART	573613.40	4194876.00	252.62	335.51	1.50
1265	DISCCART	573713.40	4194876.00	208.01	335.51	1.50
1266	DISCCART	573813.40	4194876.00	174.55	357.55	1.50
1267	DISCCART	573913.40	4194876.00	191.66	335.51	1.50
1268	DISCCART	574013.40	4194876.00	202.76	335.51	1.50
1269	DISCCART	574113.40	4194876.00	195.17	356.48	1.50
1270	DISCCART	574213.40	4194876.00	179.52	365.57	1.50
1271	DISCCART	574313.40	4194876.00	176.77	365.57	1.50
1272	DISCCART	574413.40	4194876.00	193.76	357.55	1.50
1273	DISCCART	574513.40	4194876.00	170.40	413.72	1.50
1274	DISCCART	574613.40	4194876.00	152.32	413.72	1.50
1275	DISCCART	574713.40	4194876.00	142.44	413.72	1.50
1276	DISCCART	574813.40	4194876.00	141.08	413.72	1.50
1277	DISCCART	574913.40	4194876.00	151.25	413.72	1.50
1278	DISCCART	575013.40	4194876.00	162.30	413.72	1.50
1279	DISCCART	575113.40	4194876.00	190.45	413.72	1.50
1280	DISCCART	575213.40	4194876.00	231.38	237.89	1.50
1281	DISCCART	575313.40	4194876.00	213.86	259.10	1.50
1282	DISCCART	575413.40	4194876.00	216.86	259.10	1.50
1283	DISCCART	575513.40	4194876.00	232.77	259.10	1.50
1284	DISCCART	575613.40	4194876.00	240.87	259.10	1.50
1285	DISCCART	575713.40	4194876.00	231.35	259.10	1.50
1286	DISCCART	575813.40	4194876.00	213.98	259.10	1.50
1287	DISCCART	575913.40	4194876.00	201.40	367.29	1.50
1288	DISCCART	576013.40	4194876.00	194.79	413.72	1.50
1289	DISCCART	576113.40	4194876.00	183.73	413.72	1.50
1290	DISCCART	576213.40	4194876.00	181.26	413.72	1.50
1291	DISCCART	576313.40	4194876.00	176.19	413.72	1.50
1292	DISCCART	576413.40	4194876.00	146.83	413.72	1.50
1293	DISCCART	576513.40	4194876.00	123.33	413.72	1.50
1294	DISCCART	576613.40	4194876.00	117.16	420.30	1.50
1295	DISCCART	576713.40	4194876.00	115.44	420.30	1.50
1296	DISCCART	576813.40	4194876.00	115.64	413.72	1.50
1297	DISCCART	576913.40	4194876.00	116.64	413.72	1.50
1298	DISCCART	577013.40	4194876.00	135.81	413.72	1.50
1299	DISCCART	577113.40	4194876.00	139.08	413.72	1.50
1300	DISCCART	577213.40	4194876.00	145.56	413.72	1.50
1301	DISCCART	577313.40	4194876.00	142.61	367.29	1.50
1302	DISCCART	577413.40	4194876.00	121.78	413.72	1.50
1303	DISCCART	577513.40	4194876.00	122.32	413.72	1.50
1304	DISCCART	577613.40	4194876.00	139.79	367.29	1.50
1305	DISCCART	577713.40	4194876.00	126.50	367.29	1.50
1306	DISCCART	577813.40	4194876.00	128.04	367.29	1.50
1307	DISCCART	577913.40	4194876.00	134.46	367.29	1.50
1308	DISCCART	573313.40	4194976.00	314.41	322.70	1.50
1309	DISCCART	573413.40	4194976.00	291.97	322.70	1.50
1310	DISCCART	573513.40	4194976.00	263.06	335.51	1.50
1311	DISCCART	573613.40	4194976.00	235.08	335.51	1.50

1312	DISCCART	573713.40	4194976.00	198.53	335.51	1.50
1313	DISCCART	573813.40	4194976.00	178.10	357.55	1.50
1314	DISCCART	573913.40	4194976.00	188.73	357.55	1.50
1315	DISCCART	574013.40	4194976.00	222.61	335.51	1.50
1316	DISCCART	574113.40	4194976.00	219.33	335.51	1.50
1317	DISCCART	574213.40	4194976.00	202.42	357.55	1.50
1318	DISCCART	574313.40	4194976.00	198.87	357.55	1.50
1319	DISCCART	574413.40	4194976.00	204.85	357.55	1.50
1320	DISCCART	574513.40	4194976.00	181.79	365.57	1.50
1321	DISCCART	574613.40	4194976.00	156.44	413.72	1.50
1322	DISCCART	574713.40	4194976.00	145.76	413.72	1.50
1323	DISCCART	574813.40	4194976.00	145.05	413.72	1.50
1324	DISCCART	574913.40	4194976.00	154.48	413.72	1.50
1325	DISCCART	575013.40	4194976.00	169.82	413.72	1.50
1326	DISCCART	575113.40	4194976.00	186.90	413.72	1.50
1327	DISCCART	575213.40	4194976.00	226.67	241.70	1.50
1328	DISCCART	575313.40	4194976.00	227.04	238.44	1.50
1329	DISCCART	575413.40	4194976.00	229.25	236.95	1.50
1330	DISCCART	575513.40	4194976.00	219.99	259.10	1.50
1331	DISCCART	575613.40	4194976.00	220.44	259.10	1.50
1332	DISCCART	575713.40	4194976.00	226.20	259.10	1.50
1333	DISCCART	575813.40	4194976.00	217.49	259.10	1.50
1334	DISCCART	575913.40	4194976.00	190.40	413.72	1.50
1335	DISCCART	576013.40	4194976.00	194.26	413.72	1.50
1336	DISCCART	576113.40	4194976.00	194.40	413.72	1.50
1337	DISCCART	576213.40	4194976.00	181.87	413.72	1.50
1338	DISCCART	576313.40	4194976.00	153.18	413.72	1.50
1339	DISCCART	576413.40	4194976.00	131.90	420.30	1.50
1340	DISCCART	576513.40	4194976.00	120.83	426.05	1.50
1341	DISCCART	576613.40	4194976.00	119.33	432.78	1.50
1342	DISCCART	576713.40	4194976.00	117.96	432.78	1.50
1343	DISCCART	576813.40	4194976.00	116.63	432.78	1.50
1344	DISCCART	576913.40	4194976.00	119.01	432.78	1.50
1345	DISCCART	577013.40	4194976.00	125.18	413.72	1.50
1346	DISCCART	577113.40	4194976.00	150.06	413.72	1.50
1347	DISCCART	577213.40	4194976.00	158.54	367.29	1.50
1348	DISCCART	577313.40	4194976.00	153.88	367.29	1.50
1349	DISCCART	577413.40	4194976.00	126.01	413.72	1.50
1350	DISCCART	577513.40	4194976.00	128.51	413.72	1.50
1351	DISCCART	577613.40	4194976.00	142.41	367.29	1.50
1352	DISCCART	577713.40	4194976.00	136.89	367.29	1.50
1353	DISCCART	577813.40	4194976.00	170.78	340.58	1.50
1354	DISCCART	577913.40	4194976.00	172.43	340.58	1.50
1355	DISCCART	573313.40	4195076.00	288.80	322.70	1.50
1356	DISCCART	573413.40	4195076.00	258.82	335.51	1.50
1357	DISCCART	573513.40	4195076.00	250.68	335.51	1.50
1358	DISCCART	573613.40	4195076.00	243.03	335.51	1.50
1359	DISCCART	573713.40	4195076.00	198.25	352.23	1.50
1360	DISCCART	573813.40	4195076.00	202.79	356.43	1.50
1361	DISCCART	573913.40	4195076.00	216.19	335.51	1.50
1362	DISCCART	574013.40	4195076.00	246.99	322.54	1.50
1363	DISCCART	574113.40	4195076.00	238.82	316.92	1.50
1364	DISCCART	574213.40	4195076.00	239.93	316.92	1.50
1365	DISCCART	574313.40	4195076.00	226.29	316.92	1.50
1366	DISCCART	574413.40	4195076.00	208.46	365.57	1.50
1367	DISCCART	574513.40	4195076.00	188.90	413.72	1.50
1368	DISCCART	574613.40	4195076.00	156.37	413.72	1.50
1369	DISCCART	574713.40	4195076.00	149.11	413.72	1.50
1370	DISCCART	574813.40	4195076.00	150.11	413.72	1.50
1371	DISCCART	574913.40	4195076.00	156.39	413.72	1.50
1372	DISCCART	575013.40	4195076.00	181.10	413.72	1.50
1373	DISCCART	575113.40	4195076.00	207.69	413.72	1.50
1374	DISCCART	575213.40	4195076.00	237.89	241.70	1.50
1375	DISCCART	575313.40	4195076.00	215.47	413.72	1.50
1376	DISCCART	575413.40	4195076.00	196.77	413.72	1.50
1377	DISCCART	575513.40	4195076.00	196.33	413.72	1.50
1378	DISCCART	575613.40	4195076.00	193.10	413.72	1.50
1379	DISCCART	575713.40	4195076.00	202.33	413.72	1.50
1380	DISCCART	575813.40	4195076.00	196.02	413.72	1.50

1381	DISCCART	575913.40	4195076.00	170.53	413.72	1.50
1382	DISCCART	576013.40	4195076.00	157.28	413.72	1.50
1383	DISCCART	576113.40	4195076.00	150.77	413.72	1.50
1384	DISCCART	576213.40	4195076.00	151.61	413.72	1.50
1385	DISCCART	576313.40	4195076.00	138.56	420.76	1.50
1386	DISCCART	576413.40	4195076.00	126.42	432.78	1.50
1387	DISCCART	576513.40	4195076.00	123.58	432.78	1.50
1388	DISCCART	576613.40	4195076.00	122.70	432.78	1.50
1389	DISCCART	576713.40	4195076.00	123.22	432.78	1.50
1390	DISCCART	576813.40	4195076.00	137.69	413.72	1.50
1391	DISCCART	576913.40	4195076.00	122.69	432.78	1.50
1392	DISCCART	577013.40	4195076.00	124.87	432.78	1.50
1393	DISCCART	577113.40	4195076.00	130.41	413.72	1.50
1394	DISCCART	577213.40	4195076.00	152.19	413.72	1.50
1395	DISCCART	577313.40	4195076.00	141.95	413.72	1.50
1396	DISCCART	577413.40	4195076.00	130.88	413.72	1.50
1397	DISCCART	577513.40	4195076.00	135.72	413.72	1.50
1398	DISCCART	577613.40	4195076.00	150.86	367.29	1.50
1399	DISCCART	577713.40	4195076.00	166.77	367.29	1.50
1400	DISCCART	577813.40	4195076.00	181.57	340.58	1.50
1401	DISCCART	577913.40	4195076.00	192.24	340.58	1.50
1402	DISCCART	573313.40	4195176.00	285.20	335.51	1.50
1403	DISCCART	573413.40	4195176.00	258.33	335.51	1.50
1404	DISCCART	573513.40	4195176.00	246.15	335.51	1.50
1405	DISCCART	573613.40	4195176.00	219.17	335.51	1.50
1406	DISCCART	573713.40	4195176.00	233.12	335.51	1.50
1407	DISCCART	573813.40	4195176.00	246.77	335.51	1.50
1408	DISCCART	573913.40	4195176.00	238.71	335.51	1.50
1409	DISCCART	574013.40	4195176.00	251.04	326.41	1.50
1410	DISCCART	574113.40	4195176.00	223.28	356.48	1.50
1411	DISCCART	574213.40	4195176.00	197.32	365.57	1.50
1412	DISCCART	574313.40	4195176.00	202.82	365.57	1.50
1413	DISCCART	574413.40	4195176.00	196.19	365.57	1.50
1414	DISCCART	574513.40	4195176.00	172.26	413.72	1.50
1415	DISCCART	574613.40	4195176.00	155.24	413.72	1.50
1416	DISCCART	574713.40	4195176.00	151.85	413.72	1.50
1417	DISCCART	574813.40	4195176.00	163.30	413.72	1.50
1418	DISCCART	574913.40	4195176.00	175.06	413.72	1.50
1419	DISCCART	575013.40	4195176.00	185.89	413.72	1.50
1420	DISCCART	575113.40	4195176.00	227.43	241.70	1.50
1421	DISCCART	575213.40	4195176.00	222.49	413.72	1.50
1422	DISCCART	575313.40	4195176.00	203.33	413.72	1.50
1423	DISCCART	575413.40	4195176.00	178.30	413.72	1.50
1424	DISCCART	575513.40	4195176.00	169.99	413.72	1.50
1425	DISCCART	575613.40	4195176.00	170.46	413.72	1.50
1426	DISCCART	575713.40	4195176.00	166.18	413.72	1.50
1427	DISCCART	575813.40	4195176.00	163.17	413.72	1.50
1428	DISCCART	575913.40	4195176.00	157.58	420.30	1.50
1429	DISCCART	576013.40	4195176.00	146.06	420.84	1.50
1430	DISCCART	576113.40	4195176.00	131.13	432.78	1.50
1431	DISCCART	576213.40	4195176.00	132.06	432.78	1.50
1432	DISCCART	576313.40	4195176.00	128.03	432.78	1.50
1433	DISCCART	576413.40	4195176.00	124.56	432.78	1.50
1434	DISCCART	576513.40	4195176.00	127.51	432.78	1.50
1435	DISCCART	576613.40	4195176.00	127.11	432.78	1.50
1436	DISCCART	576713.40	4195176.00	124.75	432.78	1.50
1437	DISCCART	576813.40	4195176.00	131.98	432.78	1.50
1438	DISCCART	576913.40	4195176.00	137.65	432.78	1.50
1439	DISCCART	577013.40	4195176.00	129.34	432.78	1.50
1440	DISCCART	577113.40	4195176.00	132.13	432.78	1.50
1441	DISCCART	577213.40	4195176.00	145.67	413.72	1.50
1442	DISCCART	577313.40	4195176.00	164.92	367.29	1.50
1443	DISCCART	577413.40	4195176.00	147.77	413.72	1.50
1444	DISCCART	577513.40	4195176.00	173.25	367.29	1.50
1445	DISCCART	577613.40	4195176.00	156.90	367.29	1.50
1446	DISCCART	577713.40	4195176.00	195.03	340.58	1.50
1447	DISCCART	577813.40	4195176.00	203.52	340.58	1.50
1448	DISCCART	577913.40	4195176.00	179.99	340.58	1.50
1449	DISCCART	573313.40	4195276.00	291.31	335.51	1.50

1450	DISCCART	573413.40	4195276.00	262.08	335.51	1.50
1451	DISCCART	573513.40	4195276.00	261.02	335.51	1.50
1452	DISCCART	573613.40	4195276.00	267.27	335.51	1.50
1453	DISCCART	573713.40	4195276.00	295.18	316.92	1.50
1454	DISCCART	573813.40	4195276.00	281.04	316.92	1.50
1455	DISCCART	573913.40	4195276.00	268.89	316.92	1.50
1456	DISCCART	574013.40	4195276.00	258.64	316.92	1.50
1457	DISCCART	574113.40	4195276.00	244.82	330.52	1.50
1458	DISCCART	574213.40	4195276.00	210.23	365.57	1.50
1459	DISCCART	574313.40	4195276.00	183.80	413.72	1.50
1460	DISCCART	574413.40	4195276.00	177.29	413.72	1.50
1461	DISCCART	574513.40	4195276.00	167.28	413.72	1.50
1462	DISCCART	574613.40	4195276.00	157.28	413.72	1.50
1463	DISCCART	574713.40	4195276.00	154.42	413.72	1.50
1464	DISCCART	574813.40	4195276.00	166.81	413.72	1.50
1465	DISCCART	574913.40	4195276.00	199.32	413.72	1.50
1466	DISCCART	575013.40	4195276.00	196.89	413.72	1.50
1467	DISCCART	575113.40	4195276.00	205.33	413.72	1.50
1468	DISCCART	575213.40	4195276.00	210.38	413.72	1.50
1469	DISCCART	575313.40	4195276.00	182.89	413.72	1.50
1470	DISCCART	575413.40	4195276.00	163.25	420.30	1.50
1471	DISCCART	575513.40	4195276.00	157.74	420.76	1.50
1472	DISCCART	575613.40	4195276.00	151.60	420.76	1.50
1473	DISCCART	575713.40	4195276.00	161.77	420.76	1.50
1474	DISCCART	575813.40	4195276.00	150.45	426.05	1.50
1475	DISCCART	575913.40	4195276.00	137.82	432.78	1.50
1476	DISCCART	576013.40	4195276.00	136.42	432.78	1.50
1477	DISCCART	576113.40	4195276.00	135.29	432.78	1.50
1478	DISCCART	576213.40	4195276.00	133.43	432.78	1.50
1479	DISCCART	576313.40	4195276.00	131.28	432.78	1.50
1480	DISCCART	576413.40	4195276.00	131.02	432.78	1.50
1481	DISCCART	576513.40	4195276.00	132.55	432.78	1.50
1482	DISCCART	576613.40	4195276.00	142.68	432.78	1.50
1483	DISCCART	576713.40	4195276.00	138.85	432.78	1.50
1484	DISCCART	576813.40	4195276.00	147.08	432.78	1.50
1485	DISCCART	576913.40	4195276.00	164.38	413.72	1.50
1486	DISCCART	577013.40	4195276.00	156.78	413.72	1.50
1487	DISCCART	577113.40	4195276.00	137.04	432.78	1.50
1488	DISCCART	577213.40	4195276.00	141.39	432.78	1.50
1489	DISCCART	577313.40	4195276.00	162.68	413.72	1.50
1490	DISCCART	577413.40	4195276.00	174.85	367.29	1.50
1491	DISCCART	577513.40	4195276.00	213.48	340.58	1.50
1492	DISCCART	577613.40	4195276.00	175.85	367.29	1.50
1493	DISCCART	577713.40	4195276.00	193.85	340.58	1.50
1494	DISCCART	577813.40	4195276.00	233.28	337.91	1.50
1495	DISCCART	577913.40	4195276.00	206.01	340.58	1.50
1496	DISCCART	573313.40	4195376.00	288.49	335.51	1.50
1497	DISCCART	573413.40	4195376.00	277.25	335.51	1.50
1498	DISCCART	573513.40	4195376.00	276.49	335.51	1.50
1499	DISCCART	573613.40	4195376.00	308.99	316.92	1.50
1500	DISCCART	573713.40	4195376.00	302.46	316.92	1.50
1501	DISCCART	573813.40	4195376.00	275.14	330.52	1.50
1502	DISCCART	573913.40	4195376.00	247.16	335.51	1.50
1503	DISCCART	574013.40	4195376.00	247.81	335.51	1.50
1504	DISCCART	574113.40	4195376.00	245.96	330.52	1.50
1505	DISCCART	574213.40	4195376.00	211.00	365.57	1.50
1506	DISCCART	574313.40	4195376.00	186.43	413.72	1.50
1507	DISCCART	574413.40	4195376.00	173.01	413.72	1.50
1508	DISCCART	574513.40	4195376.00	163.17	413.72	1.50
1509	DISCCART	574613.40	4195376.00	164.35	413.72	1.50
1510	DISCCART	574713.40	4195376.00	172.16	413.72	1.50
1511	DISCCART	574813.40	4195376.00	189.69	413.72	1.50
1512	DISCCART	574913.40	4195376.00	196.99	413.72	1.50
1513	DISCCART	575013.40	4195376.00	183.40	413.72	1.50
1514	DISCCART	575113.40	4195376.00	170.74	413.72	1.50
1515	DISCCART	575213.40	4195376.00	173.53	413.72	1.50
1516	DISCCART	575313.40	4195376.00	165.31	420.76	1.50
1517	DISCCART	575413.40	4195376.00	157.04	420.76	1.50
1518	DISCCART	575513.40	4195376.00	151.83	426.05	1.50

1519	DISCCART	575613.40	4195376.00	144.54	426.05	1.50
1520	DISCCART	575713.40	4195376.00	140.57	432.78	1.50
1521	DISCCART	575813.40	4195376.00	141.69	432.78	1.50
1522	DISCCART	575913.40	4195376.00	141.14	432.78	1.50
1523	DISCCART	576013.40	4195376.00	140.45	432.78	1.50
1524	DISCCART	576113.40	4195376.00	137.67	432.78	1.50
1525	DISCCART	576213.40	4195376.00	136.03	432.78	1.50
1526	DISCCART	576313.40	4195376.00	133.45	432.78	1.50
1527	DISCCART	576413.40	4195376.00	135.83	432.78	1.50
1528	DISCCART	576513.40	4195376.00	135.72	432.78	1.50
1529	DISCCART	576613.40	4195376.00	155.11	432.78	1.50
1530	DISCCART	576713.40	4195376.00	177.04	413.72	1.50
1531	DISCCART	576813.40	4195376.00	175.87	413.72	1.50
1532	DISCCART	576913.40	4195376.00	198.75	413.72	1.50
1533	DISCCART	577013.40	4195376.00	161.51	413.72	1.50
1534	DISCCART	577113.40	4195376.00	142.89	432.78	1.50
1535	DISCCART	577213.40	4195376.00	153.47	432.78	1.50
1536	DISCCART	577313.40	4195376.00	153.23	413.72	1.50
1537	DISCCART	577413.40	4195376.00	173.74	367.29	1.50
1538	DISCCART	577513.40	4195376.00	207.75	367.29	1.50
1539	DISCCART	577613.40	4195376.00	200.78	367.29	1.50
1540	DISCCART	577713.40	4195376.00	210.75	340.58	1.50
1541	DISCCART	577813.40	4195376.00	226.78	340.58	1.50
1542	DISCCART	577913.40	4195376.00	242.59	337.91	1.50
1543	DISCCART	573313.40	4195476.00	298.43	335.51	1.50
1544	DISCCART	573413.40	4195476.00	302.73	335.51	1.50
1545	DISCCART	573513.40	4195476.00	313.32	313.32	1.50
1546	DISCCART	573613.40	4195476.00	298.97	329.46	1.50
1547	DISCCART	573713.40	4195476.00	284.73	330.52	1.50
1548	DISCCART	573813.40	4195476.00	245.73	335.51	1.50
1549	DISCCART	573913.40	4195476.00	227.83	357.55	1.50
1550	DISCCART	574013.40	4195476.00	229.76	365.57	1.50
1551	DISCCART	574113.40	4195476.00	242.70	357.55	1.50
1552	DISCCART	574213.40	4195476.00	228.33	365.57	1.50
1553	DISCCART	574313.40	4195476.00	205.01	413.72	1.50
1554	DISCCART	574413.40	4195476.00	186.89	413.72	1.50
1555	DISCCART	574513.40	4195476.00	166.97	413.72	1.50
1556	DISCCART	574613.40	4195476.00	175.34	413.72	1.50
1557	DISCCART	574713.40	4195476.00	182.99	413.72	1.50
1558	DISCCART	574813.40	4195476.00	189.17	413.72	1.50
1559	DISCCART	574913.40	4195476.00	194.67	413.72	1.50
1560	DISCCART	575013.40	4195476.00	175.14	413.72	1.50
1561	DISCCART	575113.40	4195476.00	155.38	420.76	1.50
1562	DISCCART	575213.40	4195476.00	152.34	426.05	1.50
1563	DISCCART	575313.40	4195476.00	150.10	426.05	1.50
1564	DISCCART	575413.40	4195476.00	149.29	426.05	1.50
1565	DISCCART	575513.40	4195476.00	147.93	426.05	1.50
1566	DISCCART	575613.40	4195476.00	144.76	432.78	1.50
1567	DISCCART	575713.40	4195476.00	144.24	432.78	1.50
1568	DISCCART	575813.40	4195476.00	144.49	432.78	1.50
1569	DISCCART	575913.40	4195476.00	144.11	432.78	1.50
1570	DISCCART	576013.40	4195476.00	142.24	432.78	1.50
1571	DISCCART	576113.40	4195476.00	144.29	432.78	1.50
1572	DISCCART	576213.40	4195476.00	144.74	432.78	1.50
1573	DISCCART	576313.40	4195476.00	146.79	432.78	1.50
1574	DISCCART	576413.40	4195476.00	171.54	426.05	1.50
1575	DISCCART	576513.40	4195476.00	143.07	432.78	1.50
1576	DISCCART	576613.40	4195476.00	145.19	432.78	1.50
1577	DISCCART	576713.40	4195476.00	177.60	413.72	1.50
1578	DISCCART	576813.40	4195476.00	210.60	413.72	1.50
1579	DISCCART	576913.40	4195476.00	224.55	367.29	1.50
1580	DISCCART	577013.40	4195476.00	168.02	432.78	1.50
1581	DISCCART	577113.40	4195476.00	146.54	432.78	1.50
1582	DISCCART	577213.40	4195476.00	163.43	432.78	1.50
1583	DISCCART	577313.40	4195476.00	170.45	413.72	1.50
1584	DISCCART	577413.40	4195476.00	166.15	413.72	1.50
1585	DISCCART	577513.40	4195476.00	227.12	340.58	1.50
1586	DISCCART	577613.40	4195476.00	248.03	340.58	1.50
1587	DISCCART	577713.40	4195476.00	238.79	340.58	1.50

1588	DISCCART	577813.40	4195476.00	252.93	337.91	1.50
1589	DISCCART	577913.40	4195476.00	243.36	337.91	1.50
1590	DISCCART	573313.40	4195576.00	317.65	335.51	1.50
1591	DISCCART	573413.40	4195576.00	318.13	330.52	1.50
1592	DISCCART	573513.40	4195576.00	300.16	335.51	1.50
1593	DISCCART	573613.40	4195576.00	295.03	335.45	1.50
1594	DISCCART	573713.40	4195576.00	283.61	335.51	1.50
1595	DISCCART	573813.40	4195576.00	248.98	343.35	1.50
1596	DISCCART	573913.40	4195576.00	217.63	365.57	1.50
1597	DISCCART	574013.40	4195576.00	200.53	365.57	1.50
1598	DISCCART	574113.40	4195576.00	208.89	365.57	1.50
1599	DISCCART	574213.40	4195576.00	204.81	413.72	1.50
1600	DISCCART	574313.40	4195576.00	193.76	413.72	1.50
1601	DISCCART	574413.40	4195576.00	177.93	413.72	1.50
1602	DISCCART	574513.40	4195576.00	172.55	413.72	1.50
1603	DISCCART	574613.40	4195576.00	168.70	413.72	1.50
1604	DISCCART	574713.40	4195576.00	166.90	420.76	1.50
1605	DISCCART	574813.40	4195576.00	165.66	420.76	1.50
1606	DISCCART	574913.40	4195576.00	162.56	420.76	1.50
1607	DISCCART	575013.40	4195576.00	162.50	420.76	1.50
1608	DISCCART	575113.40	4195576.00	156.79	426.05	1.50
1609	DISCCART	575213.40	4195576.00	156.39	426.05	1.50
1610	DISCCART	575313.40	4195576.00	155.46	426.05	1.50
1611	DISCCART	575413.40	4195576.00	152.22	432.78	1.50
1612	DISCCART	575513.40	4195576.00	149.35	432.78	1.50
1613	DISCCART	575613.40	4195576.00	146.68	432.78	1.50
1614	DISCCART	575713.40	4195576.00	147.14	432.78	1.50
1615	DISCCART	575813.40	4195576.00	147.96	432.78	1.50
1616	DISCCART	575913.40	4195576.00	148.05	432.78	1.50
1617	DISCCART	576013.40	4195576.00	151.20	432.78	1.50
1618	DISCCART	576113.40	4195576.00	164.26	432.78	1.50
1619	DISCCART	576213.40	4195576.00	160.30	432.78	1.50
1620	DISCCART	576313.40	4195576.00	178.37	432.78	1.50
1621	DISCCART	576413.40	4195576.00	204.00	413.72	1.50
1622	DISCCART	576513.40	4195576.00	154.96	432.78	1.50
1623	DISCCART	576613.40	4195576.00	153.09	432.78	1.50
1624	DISCCART	576713.40	4195576.00	168.76	432.78	1.50
1625	DISCCART	576813.40	4195576.00	210.30	413.72	1.50
1626	DISCCART	576913.40	4195576.00	197.12	413.72	1.50
1627	DISCCART	577013.40	4195576.00	161.73	432.78	1.50
1628	DISCCART	577113.40	4195576.00	152.58	432.78	1.50
1629	DISCCART	577213.40	4195576.00	157.35	432.78	1.50
1630	DISCCART	577313.40	4195576.00	174.25	413.72	1.50
1631	DISCCART	577413.40	4195576.00	205.89	367.29	1.50
1632	DISCCART	577513.40	4195576.00	207.42	367.29	1.50
1633	DISCCART	577613.40	4195576.00	241.99	340.58	1.50
1634	DISCCART	577713.40	4195576.00	271.52	337.91	1.50
1635	DISCCART	577813.40	4195576.00	258.25	337.91	1.50
1636	DISCCART	577913.40	4195576.00	270.26	326.41	1.50
1637	DISCCART	573313.40	4195676.00	316.79	335.51	1.50
1638	DISCCART	573413.40	4195676.00	308.83	335.51	1.50
1639	DISCCART	573513.40	4195676.00	278.15	335.51	1.50
1640	DISCCART	573613.40	4195676.00	251.65	343.46	1.50
1641	DISCCART	573713.40	4195676.00	271.52	335.51	1.50
1642	DISCCART	573813.40	4195676.00	248.39	357.55	1.50
1643	DISCCART	573913.40	4195676.00	214.53	365.57	1.50
1644	DISCCART	574013.40	4195676.00	196.65	413.72	1.50
1645	DISCCART	574113.40	4195676.00	187.66	413.72	1.50
1646	DISCCART	574213.40	4195676.00	179.98	413.72	1.50
1647	DISCCART	574313.40	4195676.00	177.89	413.72	1.50
1648	DISCCART	574413.40	4195676.00	176.62	413.72	1.50
1649	DISCCART	574513.40	4195676.00	174.18	413.72	1.50
1650	DISCCART	574613.40	4195676.00	172.50	420.76	1.50
1651	DISCCART	574713.40	4195676.00	171.37	420.76	1.50
1652	DISCCART	574813.40	4195676.00	169.43	420.76	1.50
1653	DISCCART	574913.40	4195676.00	166.62	420.76	1.50
1654	DISCCART	575013.40	4195676.00	161.86	426.05	1.50
1655	DISCCART	575113.40	4195676.00	160.28	426.05	1.50
1656	DISCCART	575213.40	4195676.00	160.90	426.05	1.50

1657	DISCCART	575313.40	4195676.00	159.46	426.05	1.50
1658	DISCCART	575413.40	4195676.00	155.27	432.78	1.50
1659	DISCCART	575513.40	4195676.00	151.91	432.78	1.50
1660	DISCCART	575613.40	4195676.00	151.99	432.78	1.50
1661	DISCCART	575713.40	4195676.00	154.05	432.78	1.50
1662	DISCCART	575813.40	4195676.00	152.71	432.78	1.50
1663	DISCCART	575913.40	4195676.00	152.77	432.78	1.50
1664	DISCCART	576013.40	4195676.00	174.60	432.78	1.50
1665	DISCCART	576113.40	4195676.00	181.18	432.78	1.50
1666	DISCCART	576213.40	4195676.00	189.34	426.05	1.50
1667	DISCCART	576313.40	4195676.00	223.54	413.72	1.50
1668	DISCCART	576413.40	4195676.00	213.09	413.72	1.50
1669	DISCCART	576513.40	4195676.00	171.45	432.78	1.50
1670	DISCCART	576613.40	4195676.00	153.68	432.78	1.50
1671	DISCCART	576713.40	4195676.00	179.91	432.78	1.50
1672	DISCCART	576813.40	4195676.00	218.58	413.72	1.50
1673	DISCCART	576913.40	4195676.00	205.62	413.72	1.50
1674	DISCCART	577013.40	4195676.00	174.90	432.78	1.50
1675	DISCCART	577113.40	4195676.00	158.64	432.78	1.50
1676	DISCCART	577213.40	4195676.00	176.90	432.78	1.50
1677	DISCCART	577313.40	4195676.00	191.50	413.72	1.50
1678	DISCCART	577413.40	4195676.00	198.42	367.29	1.50
1679	DISCCART	577513.40	4195676.00	248.95	340.58	1.50
1680	DISCCART	577613.40	4195676.00	247.75	340.58	1.50
1681	DISCCART	577713.40	4195676.00	270.57	337.91	1.50
1682	DISCCART	577813.40	4195676.00	301.79	326.41	1.50
1683	DISCCART	577913.40	4195676.00	272.42	326.41	1.50
1684	DISCCART	573313.40	4195776.00	292.34	335.51	1.50
1685	DISCCART	573413.40	4195776.00	294.85	335.51	1.50
1686	DISCCART	573513.40	4195776.00	283.26	335.51	1.50
1687	DISCCART	573613.40	4195776.00	236.25	357.55	1.50
1688	DISCCART	573713.40	4195776.00	230.23	365.57	1.50
1689	DISCCART	573813.40	4195776.00	228.21	365.57	1.50
1690	DISCCART	573913.40	4195776.00	216.80	365.57	1.50
1691	DISCCART	574013.40	4195776.00	193.76	413.72	1.50
1692	DISCCART	574113.40	4195776.00	187.80	413.72	1.50
1693	DISCCART	574213.40	4195776.00	185.28	413.72	1.50
1694	DISCCART	574313.40	4195776.00	181.73	413.72	1.50
1695	DISCCART	574413.40	4195776.00	181.83	413.72	1.50
1696	DISCCART	574513.40	4195776.00	182.51	413.72	1.50
1697	DISCCART	574613.40	4195776.00	180.91	420.76	1.50
1698	DISCCART	574713.40	4195776.00	177.72	420.76	1.50
1699	DISCCART	574813.40	4195776.00	178.56	420.76	1.50
1700	DISCCART	574913.40	4195776.00	173.43	420.76	1.50
1701	DISCCART	575013.40	4195776.00	177.98	420.76	1.50
1702	DISCCART	575113.40	4195776.00	177.81	426.05	1.50
1703	DISCCART	575213.40	4195776.00	165.06	426.05	1.50
1704	DISCCART	575313.40	4195776.00	168.72	426.05	1.50
1705	DISCCART	575413.40	4195776.00	169.79	432.78	1.50
1706	DISCCART	575513.40	4195776.00	177.53	426.05	1.50
1707	DISCCART	575613.40	4195776.00	174.36	432.78	1.50
1708	DISCCART	575713.40	4195776.00	190.20	426.05	1.50
1709	DISCCART	575813.40	4195776.00	161.03	432.78	1.50
1710	DISCCART	575913.40	4195776.00	159.80	432.78	1.50
1711	DISCCART	576013.40	4195776.00	201.02	426.05	1.50
1712	DISCCART	576113.40	4195776.00	215.88	420.30	1.50
1713	DISCCART	576213.40	4195776.00	228.40	413.72	1.50
1714	DISCCART	576313.40	4195776.00	246.30	413.72	1.50
1715	DISCCART	576413.40	4195776.00	213.72	413.72	1.50
1716	DISCCART	576513.40	4195776.00	173.56	432.78	1.50
1717	DISCCART	576613.40	4195776.00	183.59	432.78	1.50
1718	DISCCART	576713.40	4195776.00	201.99	420.97	1.50
1719	DISCCART	576813.40	4195776.00	230.65	413.72	1.50
1720	DISCCART	576913.40	4195776.00	198.53	432.78	1.50
1721	DISCCART	577013.40	4195776.00	177.70	432.78	1.50
1722	DISCCART	577113.40	4195776.00	190.31	432.78	1.50
1723	DISCCART	577213.40	4195776.00	208.89	413.72	1.50
1724	DISCCART	577313.40	4195776.00	242.80	367.29	1.50
1725	DISCCART	577413.40	4195776.00	242.30	340.58	1.50

1726	DISCCART	577513.40	4195776.00	248.68	340.58	1.50
1727	DISCCART	577613.40	4195776.00	289.47	337.91	1.50
1728	DISCCART	577713.40	4195776.00	261.20	340.58	1.50
1729	DISCCART	577813.40	4195776.00	291.83	326.41	1.50
1730	DISCCART	577913.40	4195776.00	305.31	326.41	1.50
1731	DISCCART	573313.40	4195876.00	279.65	335.51	1.50
1732	DISCCART	573413.40	4195876.00	264.71	343.46	1.50
1733	DISCCART	573513.40	4195876.00	256.40	343.88	1.50
1734	DISCCART	573613.40	4195876.00	235.50	357.55	1.50
1735	DISCCART	573713.40	4195876.00	214.32	365.57	1.50
1736	DISCCART	573813.40	4195876.00	214.44	365.57	1.50
1737	DISCCART	573913.40	4195876.00	201.00	413.72	1.50
1738	DISCCART	574013.40	4195876.00	192.85	413.72	1.50
1739	DISCCART	574113.40	4195876.00	190.91	413.72	1.50
1740	DISCCART	574213.40	4195876.00	191.21	413.72	1.50
1741	DISCCART	574313.40	4195876.00	199.65	413.72	1.50
1742	DISCCART	574413.40	4195876.00	189.58	413.72	1.50
1743	DISCCART	574513.40	4195876.00	216.09	413.72	1.50
1744	DISCCART	574613.40	4195876.00	207.94	413.72	1.50
1745	DISCCART	574713.40	4195876.00	185.15	420.76	1.50
1746	DISCCART	574813.40	4195876.00	217.84	413.72	1.50
1747	DISCCART	574913.40	4195876.00	194.49	420.76	1.50
1748	DISCCART	575013.40	4195876.00	205.04	420.76	1.50
1749	DISCCART	575113.40	4195876.00	195.68	420.76	1.50
1750	DISCCART	575213.40	4195876.00	171.78	426.05	1.50
1751	DISCCART	575313.40	4195876.00	173.48	432.78	1.50
1752	DISCCART	575413.40	4195876.00	205.83	420.76	1.50
1753	DISCCART	575513.40	4195876.00	201.05	426.05	1.50
1754	DISCCART	575613.40	4195876.00	214.63	420.76	1.50
1755	DISCCART	575713.40	4195876.00	224.46	420.30	1.50
1756	DISCCART	575813.40	4195876.00	180.64	432.78	1.50
1757	DISCCART	575913.40	4195876.00	167.54	432.78	1.50
1758	DISCCART	576013.40	4195876.00	193.09	432.78	1.50
1759	DISCCART	576113.40	4195876.00	269.03	413.72	1.50
1760	DISCCART	576213.40	4195876.00	273.66	413.72	1.50
1761	DISCCART	576313.40	4195876.00	262.75	413.72	1.50
1762	DISCCART	576413.40	4195876.00	226.29	413.72	1.50
1763	DISCCART	576513.40	4195876.00	164.65	432.78	1.50
1764	DISCCART	576613.40	4195876.00	205.31	432.78	1.50
1765	DISCCART	576713.40	4195876.00	233.84	413.72	1.50
1766	DISCCART	576813.40	4195876.00	241.63	413.72	1.50
1767	DISCCART	576913.40	4195876.00	238.30	413.72	1.50
1768	DISCCART	577013.40	4195876.00	207.48	432.78	1.50
1769	DISCCART	577113.40	4195876.00	209.94	413.72	1.50
1770	DISCCART	577213.40	4195876.00	236.23	367.29	1.50
1771	DISCCART	577313.40	4195876.00	241.55	367.29	1.50
1772	DISCCART	577413.40	4195876.00	262.43	340.58	1.50
1773	DISCCART	577513.40	4195876.00	278.59	340.58	1.50
1774	DISCCART	577613.40	4195876.00	285.22	340.58	1.50
1775	DISCCART	577713.40	4195876.00	283.74	337.91	1.50
1776	DISCCART	577813.40	4195876.00	299.65	326.41	1.50
1777	DISCCART	577913.40	4195876.00	324.40	325.98	1.50
1778	DISCCART	573313.40	4195976.00	273.04	335.51	1.50
1779	DISCCART	573413.40	4195976.00	240.15	352.26	1.50
1780	DISCCART	573513.40	4195976.00	259.23	348.16	1.50
1781	DISCCART	573613.40	4195976.00	242.65	357.55	1.50
1782	DISCCART	573713.40	4195976.00	212.71	365.57	1.50
1783	DISCCART	573813.40	4195976.00	202.64	413.72	1.50
1784	DISCCART	573913.40	4195976.00	201.44	413.72	1.50
1785	DISCCART	574013.40	4195976.00	199.94	413.72	1.50
1786	DISCCART	574113.40	4195976.00	211.75	413.72	1.50
1787	DISCCART	574213.40	4195976.00	210.18	413.72	1.50
1788	DISCCART	574313.40	4195976.00	234.31	413.72	1.50
1789	DISCCART	574413.40	4195976.00	200.56	413.72	1.50
1790	DISCCART	574513.40	4195976.00	226.10	413.72	1.50
1791	DISCCART	574613.40	4195976.00	219.14	413.72	1.50
1792	DISCCART	574713.40	4195976.00	192.34	420.76	1.50
1793	DISCCART	574813.40	4195976.00	228.40	413.72	1.50
1794	DISCCART	574913.40	4195976.00	227.76	413.72	1.50

1795	DISCCART	575013.40	4195976.00	241.48	413.72	1.50
1796	DISCCART	575113.40	4195976.00	226.02	413.72	1.50
1797	DISCCART	575213.40	4195976.00	178.20	426.05	1.50
1798	DISCCART	575313.40	4195976.00	179.41	432.78	1.50
1799	DISCCART	575413.40	4195976.00	219.31	420.76	1.50
1800	DISCCART	575513.40	4195976.00	219.29	420.76	1.50
1801	DISCCART	575613.40	4195976.00	262.06	413.72	1.50
1802	DISCCART	575713.40	4195976.00	235.44	420.30	1.50
1803	DISCCART	575813.40	4195976.00	175.02	432.78	1.50
1804	DISCCART	575913.40	4195976.00	169.40	432.78	1.50
1805	DISCCART	576013.40	4195976.00	189.72	432.78	1.50
1806	DISCCART	576113.40	4195976.00	239.74	413.72	1.50
1807	DISCCART	576213.40	4195976.00	294.47	367.29	1.50
1808	DISCCART	576313.40	4195976.00	284.50	413.72	1.50
1809	DISCCART	576413.40	4195976.00	220.95	426.05	1.50
1810	DISCCART	576513.40	4195976.00	197.51	432.78	1.50
1811	DISCCART	576613.40	4195976.00	231.44	413.72	1.50
1812	DISCCART	576713.40	4195976.00	274.03	367.29	1.50
1813	DISCCART	576813.40	4195976.00	254.97	413.72	1.50
1814	DISCCART	576913.40	4195976.00	235.84	413.72	1.50
1815	DISCCART	577013.40	4195976.00	244.10	367.29	1.50
1816	DISCCART	577113.40	4195976.00	253.48	367.29	1.50
1817	DISCCART	577213.40	4195976.00	262.51	367.29	1.50
1818	DISCCART	577313.40	4195976.00	289.76	340.58	1.50
1819	DISCCART	577413.40	4195976.00	297.76	340.58	1.50
1820	DISCCART	577513.40	4195976.00	299.85	340.58	1.50
1821	DISCCART	577613.40	4195976.00	302.81	337.91	1.50
1822	DISCCART	577713.40	4195976.00	294.31	337.91	1.50
1823	DISCCART	577813.40	4195976.00	285.77	337.91	1.50
1824	DISCCART	577913.40	4195976.00	279.41	337.89	1.50
1825	DISCCART	573313.40	4196076.00	244.08	348.16	1.50
1826	DISCCART	573413.40	4196076.00	231.48	357.55	1.50
1827	DISCCART	573513.40	4196076.00	233.61	357.55	1.50
1828	DISCCART	573613.40	4196076.00	237.13	365.57	1.50
1829	DISCCART	573713.40	4196076.00	219.57	365.57	1.50
1830	DISCCART	573813.40	4196076.00	228.18	365.57	1.50
1831	DISCCART	573913.40	4196076.00	209.27	413.72	1.50
1832	DISCCART	574013.40	4196076.00	208.11	413.72	1.50
1833	DISCCART	574113.40	4196076.00	245.08	365.57	1.50
1834	DISCCART	574213.40	4196076.00	240.67	413.72	1.50
1835	DISCCART	574313.40	4196076.00	255.24	372.54	1.50
1836	DISCCART	574413.40	4196076.00	218.66	413.72	1.50
1837	DISCCART	574513.40	4196076.00	260.32	413.72	1.50
1838	DISCCART	574613.40	4196076.00	242.99	413.72	1.50
1839	DISCCART	574713.40	4196076.00	205.83	420.76	1.50
1840	DISCCART	574813.40	4196076.00	243.91	413.72	1.50
1841	DISCCART	574913.40	4196076.00	261.71	413.72	1.50
1842	DISCCART	575013.40	4196076.00	261.13	413.72	1.50
1843	DISCCART	575113.40	4196076.00	245.60	413.72	1.50
1844	DISCCART	575213.40	4196076.00	190.40	426.05	1.50
1845	DISCCART	575313.40	4196076.00	209.60	426.05	1.50
1846	DISCCART	575413.40	4196076.00	218.98	426.05	1.50
1847	DISCCART	575513.40	4196076.00	248.07	413.72	1.50
1848	DISCCART	575613.40	4196076.00	282.72	413.72	1.50
1849	DISCCART	575713.40	4196076.00	236.14	420.76	1.50
1850	DISCCART	575813.40	4196076.00	177.22	432.78	1.50
1851	DISCCART	575913.40	4196076.00	177.07	432.78	1.50
1852	DISCCART	576013.40	4196076.00	215.27	432.78	1.50
1853	DISCCART	576113.40	4196076.00	223.69	432.78	1.50
1854	DISCCART	576213.40	4196076.00	259.24	413.72	1.50
1855	DISCCART	576313.40	4196076.00	271.49	413.72	1.50
1856	DISCCART	576413.40	4196076.00	245.94	413.72	1.50
1857	DISCCART	576513.40	4196076.00	244.88	413.72	1.50
1858	DISCCART	576613.40	4196076.00	253.57	413.72	1.50
1859	DISCCART	576713.40	4196076.00	298.50	367.29	1.50
1860	DISCCART	576813.40	4196076.00	264.12	367.29	1.50
1861	DISCCART	576913.40	4196076.00	277.13	367.29	1.50
1862	DISCCART	577013.40	4196076.00	290.25	340.58	1.50
1863	DISCCART	577113.40	4196076.00	282.09	340.58	1.50

1864	DISCCART	577213.40	4196076.00	296.81	340.58	1.50
1865	DISCCART	577313.40	4196076.00	318.39	340.58	1.50
1866	DISCCART	577413.40	4196076.00	316.28	337.91	1.50
1867	DISCCART	577513.40	4196076.00	308.41	337.91	1.50
1868	DISCCART	577613.40	4196076.00	259.27	340.58	1.50
1869	DISCCART	577713.40	4196076.00	246.57	340.58	1.50
1870	DISCCART	577813.40	4196076.00	252.64	340.58	1.50
1871	DISCCART	577913.40	4196076.00	270.77	337.91	1.50
1872	DISCCART	574789.80	4193249.00	165.60	262.73	1.50
1873	DISCCART	574839.80	4193249.00	157.63	262.73	1.50
1874	DISCCART	574889.80	4193249.00	159.84	262.73	1.50
1875	DISCCART	574939.80	4193249.00	152.46	262.73	1.50
1876	DISCCART	574989.80	4193249.00	150.69	262.73	1.50
1877	DISCCART	575039.80	4193249.00	150.87	273.56	1.50
1878	DISCCART	575089.80	4193249.00	167.41	256.69	1.50
1879	DISCCART	575139.80	4193249.00	170.34	251.25	1.50
1880	DISCCART	575189.80	4193249.00	165.93	251.25	1.50
1881	DISCCART	575239.80	4193249.00	158.36	272.77	1.50
1882	DISCCART	575289.80	4193249.00	150.95	279.52	1.50
1883	DISCCART	575339.80	4193249.00	151.66	279.52	1.50
1884	DISCCART	575389.80	4193249.00	143.92	316.12	1.50
1885	DISCCART	575439.80	4193249.00	137.68	316.12	1.50
1886	DISCCART	575489.80	4193249.00	134.47	316.12	1.50
1887	DISCCART	575539.80	4193249.00	134.47	316.12	1.50
1888	DISCCART	575589.80	4193249.00	134.47	316.12	1.50
1889	DISCCART	575639.80	4193249.00	134.47	316.12	1.50
1890	DISCCART	575689.80	4193249.00	134.47	316.12	1.50
1891	DISCCART	575739.80	4193249.00	134.47	316.12	1.50
1892	DISCCART	575789.80	4193249.00	134.47	316.12	1.50
1893	DISCCART	575839.80	4193249.00	137.90	316.12	1.50
1894	DISCCART	575889.80	4193249.00	143.78	315.92	1.50
1895	DISCCART	575939.80	4193249.00	152.22	280.10	1.50
1896	DISCCART	575989.80	4193249.00	165.96	274.88	1.50
1897	DISCCART	576039.80	4193249.00	173.10	222.16	1.50
1898	DISCCART	576089.80	4193249.00	175.09	222.16	1.50
1899	DISCCART	576139.80	4193249.00	177.07	222.16	1.50
1900	DISCCART	576189.80	4193249.00	178.37	222.16	1.50
1901	DISCCART	576239.80	4193249.00	185.68	222.16	1.50
1902	DISCCART	576289.80	4193249.00	194.75	222.16	1.50
1903	DISCCART	576339.80	4193249.00	200.74	222.16	1.50
1904	DISCCART	576389.80	4193249.00	211.83	222.16	1.50
1905	DISCCART	574789.80	4193299.00	170.58	262.73	1.50
1906	DISCCART	574839.80	4193299.00	174.34	262.73	1.50
1907	DISCCART	574889.80	4193299.00	171.52	262.73	1.50
1908	DISCCART	574939.80	4193299.00	163.85	262.73	1.50
1909	DISCCART	574989.80	4193299.00	159.69	262.73	1.50
1910	DISCCART	575039.80	4193299.00	156.20	262.73	1.50
1911	DISCCART	575089.80	4193299.00	169.30	256.60	1.50
1912	DISCCART	575139.80	4193299.00	184.37	222.22	1.50
1913	DISCCART	575189.80	4193299.00	175.19	222.22	1.50
1914	DISCCART	575239.80	4193299.00	163.38	251.25	1.50
1915	DISCCART	575289.80	4193299.00	151.77	273.58	1.50
1916	DISCCART	575339.80	4193299.00	148.01	279.52	1.50
1917	DISCCART	575389.80	4193299.00	138.28	316.12	1.50
1918	DISCCART	575439.80	4193299.00	134.60	316.12	1.50
1919	DISCCART	575489.80	4193299.00	134.47	316.12	1.50
1920	DISCCART	575539.80	4193299.00	134.47	316.12	1.50
1921	DISCCART	575589.80	4193299.00	134.47	316.12	1.50
1922	DISCCART	575639.80	4193299.00	134.47	316.12	1.50
1923	DISCCART	575689.80	4193299.00	134.47	316.12	1.50
1924	DISCCART	575739.80	4193299.00	135.77	316.12	1.50
1925	DISCCART	575789.80	4193299.00	140.65	316.12	1.50
1926	DISCCART	575839.80	4193299.00	143.22	280.10	1.50
1927	DISCCART	575889.80	4193299.00	144.61	280.10	1.50
1928	DISCCART	575939.80	4193299.00	163.43	274.69	1.50
1929	DISCCART	575989.80	4193299.00	168.17	222.16	1.50
1930	DISCCART	576039.80	4193299.00	172.04	222.16	1.50
1931	DISCCART	576089.80	4193299.00	176.27	222.16	1.50
1932	DISCCART	576139.80	4193299.00	188.58	222.16	1.50

1933	DISCCART	576189.80	4193299.00	190.30	222.16	1.50
1934	DISCCART	576239.80	4193299.00	194.74	222.16	1.50
1935	DISCCART	576289.80	4193299.00	198.04	222.16	1.50
1936	DISCCART	576339.80	4193299.00	203.86	222.16	1.50
1937	DISCCART	576389.80	4193299.00	211.91	222.16	1.50
1938	DISCCART	574789.80	4193349.00	183.68	256.69	1.50
1939	DISCCART	574839.80	4193349.00	190.84	251.25	1.50
1940	DISCCART	574889.80	4193349.00	186.54	251.25	1.50
1941	DISCCART	574939.80	4193349.00	181.21	251.25	1.50
1942	DISCCART	574989.80	4193349.00	167.09	256.69	1.50
1943	DISCCART	575039.80	4193349.00	168.76	256.69	1.50
1944	DISCCART	575089.80	4193349.00	176.28	251.25	1.50
1945	DISCCART	575139.80	4193349.00	187.78	222.22	1.50
1946	DISCCART	575189.80	4193349.00	193.29	211.14	1.50
1947	DISCCART	575239.80	4193349.00	177.61	222.22	1.50
1948	DISCCART	575289.80	4193349.00	163.63	223.98	1.50
1949	DISCCART	575339.80	4193349.00	149.28	273.58	1.50
1950	DISCCART	575389.80	4193349.00	138.88	316.12	1.50
1951	DISCCART	575439.80	4193349.00	134.47	316.12	1.50
1952	DISCCART	575489.80	4193349.00	134.47	316.12	1.50
1953	DISCCART	575539.80	4193349.00	134.47	316.12	1.50
1954	DISCCART	575589.80	4193349.00	134.59	316.12	1.50
1955	DISCCART	575639.80	4193349.00	137.28	316.12	1.50
1956	DISCCART	575689.80	4193349.00	141.78	280.10	1.50
1957	DISCCART	575739.80	4193349.00	142.57	280.10	1.50
1958	DISCCART	575789.80	4193349.00	142.77	280.10	1.50
1959	DISCCART	575839.80	4193349.00	141.88	280.10	1.50
1960	DISCCART	575889.80	4193349.00	142.51	280.10	1.50
1961	DISCCART	575939.80	4193349.00	155.09	279.09	1.50
1962	DISCCART	575989.80	4193349.00	154.92	279.09	1.50
1963	DISCCART	576039.80	4193349.00	160.19	222.16	1.50
1964	DISCCART	576089.80	4193349.00	169.44	222.16	1.50
1965	DISCCART	576139.80	4193349.00	177.15	222.16	1.50
1966	DISCCART	576189.80	4193349.00	182.03	222.16	1.50
1967	DISCCART	576239.80	4193349.00	194.03	222.16	1.50
1968	DISCCART	576289.80	4193349.00	182.38	222.16	1.50
1969	DISCCART	576339.80	4193349.00	175.01	222.16	1.50
1970	DISCCART	576389.80	4193349.00	187.46	222.16	1.50
1971	DISCCART	574789.80	4193399.00	200.31	251.25	1.50
1972	DISCCART	574839.80	4193399.00	204.98	223.98	1.50
1973	DISCCART	574889.80	4193399.00	198.25	251.25	1.50
1974	DISCCART	574939.80	4193399.00	194.92	223.98	1.50
1975	DISCCART	574989.80	4193399.00	176.40	251.25	1.50
1976	DISCCART	575039.80	4193399.00	187.27	223.98	1.50
1977	DISCCART	575089.80	4193399.00	188.49	222.22	1.50
1978	DISCCART	575139.80	4193399.00	198.71	221.62	1.50
1979	DISCCART	575189.80	4193399.00	197.91	211.07	1.50
1980	DISCCART	575239.80	4193399.00	184.09	222.22	1.50
1981	DISCCART	575289.80	4193399.00	173.42	222.22	1.50
1982	DISCCART	575339.80	4193399.00	157.66	223.98	1.50
1983	DISCCART	575389.80	4193399.00	137.72	279.52	1.50
1984	DISCCART	575439.80	4193399.00	136.86	280.10	1.50
1985	DISCCART	575489.80	4193399.00	142.15	279.52	1.50
1986	DISCCART	575539.80	4193399.00	139.37	280.10	1.50
1987	DISCCART	575589.80	4193399.00	143.15	279.79	1.50
1988	DISCCART	575639.80	4193399.00	142.93	280.10	1.50
1989	DISCCART	575689.80	4193399.00	142.78	280.10	1.50
1990	DISCCART	575739.80	4193399.00	140.52	280.10	1.50
1991	DISCCART	575789.80	4193399.00	134.71	280.10	1.50
1992	DISCCART	575839.80	4193399.00	129.86	316.12	1.50
1993	DISCCART	575889.80	4193399.00	143.22	280.10	1.50
1994	DISCCART	575939.80	4193399.00	138.66	280.10	1.50
1995	DISCCART	575989.80	4193399.00	143.52	280.10	1.50
1996	DISCCART	576039.80	4193399.00	155.24	222.16	1.50
1997	DISCCART	576089.80	4193399.00	165.31	222.16	1.50
1998	DISCCART	576139.80	4193399.00	158.73	222.16	1.50
1999	DISCCART	576189.80	4193399.00	167.65	222.16	1.50
2000	DISCCART	576239.80	4193399.00	171.31	222.16	1.50
2001	DISCCART	576289.80	4193399.00	164.14	222.16	1.50

2002	DISCCART	576339.80	4193399.00	159.84	222.16	1.50
2003	DISCCART	576389.80	4193399.00	168.63	222.16	1.50
2004	DISCCART	574789.80	4193449.00	214.95	223.98	1.50
2005	DISCCART	574839.80	4193449.00	214.46	218.23	1.50
2006	DISCCART	574889.80	4193449.00	205.75	223.98	1.50
2007	DISCCART	574939.80	4193449.00	206.24	218.80	1.50
2008	DISCCART	574989.80	4193449.00	188.00	223.98	1.50
2009	DISCCART	575039.80	4193449.00	195.70	222.22	1.50
2010	DISCCART	575089.80	4193449.00	198.37	222.22	1.50
2011	DISCCART	575139.80	4193449.00	205.29	210.35	1.50
2012	DISCCART	575189.80	4193449.00	199.47	222.22	1.50
2013	DISCCART	575239.80	4193449.00	189.47	222.22	1.50
2014	DISCCART	575289.80	4193449.00	173.71	222.22	1.50
2015	DISCCART	575339.80	4193449.00	154.98	223.98	1.50
2016	DISCCART	575389.80	4193449.00	138.57	274.83	1.50
2017	DISCCART	575439.80	4193449.00	144.99	251.25	1.50
2018	DISCCART	575489.80	4193449.00	151.73	222.22	1.50
2019	DISCCART	575539.80	4193449.00	144.69	222.22	1.50
2020	DISCCART	575589.80	4193449.00	142.64	279.09	1.50
2021	DISCCART	575639.80	4193449.00	138.89	280.08	1.50
2022	DISCCART	575689.80	4193449.00	133.00	280.10	1.50
2023	DISCCART	575739.80	4193449.00	128.10	280.10	1.50
2024	DISCCART	575789.80	4193449.00	123.25	316.12	1.50
2025	DISCCART	575839.80	4193449.00	118.47	316.12	1.50
2026	DISCCART	575889.80	4193449.00	123.72	316.12	1.50
2027	DISCCART	575939.80	4193449.00	125.40	280.10	1.50
2028	DISCCART	575989.80	4193449.00	127.97	280.10	1.50
2029	DISCCART	576039.80	4193449.00	138.60	280.10	1.50
2030	DISCCART	576089.80	4193449.00	146.00	274.88	1.50
2031	DISCCART	576139.80	4193449.00	142.36	279.79	1.50
2032	DISCCART	576189.80	4193449.00	155.12	222.16	1.50
2033	DISCCART	576239.80	4193449.00	146.22	236.71	1.50
2034	DISCCART	576289.80	4193449.00	145.57	238.68	1.50
2035	DISCCART	576339.80	4193449.00	144.82	238.68	1.50
2036	DISCCART	576389.80	4193449.00	151.59	236.54	1.50
2037	DISCCART	574789.80	4193499.00	214.91	223.98	1.50
2038	DISCCART	574839.80	4193499.00	218.67	218.67	1.50
2039	DISCCART	574889.80	4193499.00	215.67	218.22	1.50
2040	DISCCART	574939.80	4193499.00	211.03	218.22	1.50
2041	DISCCART	574989.80	4193499.00	199.97	222.22	1.50
2042	DISCCART	575039.80	4193499.00	199.05	222.22	1.50
2043	DISCCART	575089.80	4193499.00	210.79	221.11	1.50
2044	DISCCART	575139.80	4193499.00	205.27	222.22	1.50
2045	DISCCART	575189.80	4193499.00	188.94	222.22	1.50
2046	DISCCART	575239.80	4193499.00	174.17	222.22	1.50
2047	DISCCART	575289.80	4193499.00	159.88	223.98	1.50
2048	DISCCART	575339.80	4193499.00	148.17	251.25	1.50
2049	DISCCART	575389.80	4193499.00	147.88	251.25	1.50
2050	DISCCART	575439.80	4193499.00	151.54	223.98	1.50
2051	DISCCART	575489.80	4193499.00	150.36	222.22	1.50
2052	DISCCART	575539.80	4193499.00	146.15	222.22	1.50
2053	DISCCART	575589.80	4193499.00	134.08	279.52	1.50
2054	DISCCART	575639.80	4193499.00	126.46	280.10	1.50
2055	DISCCART	575689.80	4193499.00	121.51	316.12	1.50
2056	DISCCART	575739.80	4193499.00	117.03	316.12	1.50
2057	DISCCART	575789.80	4193499.00	114.38	316.12	1.50
2058	DISCCART	575839.80	4193499.00	111.90	316.12	1.50
2059	DISCCART	575889.80	4193499.00	110.58	316.12	1.50
2060	DISCCART	575939.80	4193499.00	117.08	316.12	1.50
2061	DISCCART	575989.80	4193499.00	118.96	280.10	1.50
2062	DISCCART	576039.80	4193499.00	123.10	280.10	1.50
2063	DISCCART	576089.80	4193499.00	129.59	280.10	1.50
2064	DISCCART	576139.80	4193499.00	133.26	280.10	1.50
2065	DISCCART	576189.80	4193499.00	136.12	280.10	1.50
2066	DISCCART	576239.80	4193499.00	133.84	280.10	1.50
2067	DISCCART	576289.80	4193499.00	131.65	280.10	1.50
2068	DISCCART	576339.80	4193499.00	134.99	274.88	1.50
2069	DISCCART	576389.80	4193499.00	135.97	238.68	1.50
2070	DISCCART	574789.80	4193549.00	197.26	251.25	1.50

2071	DISCCART	574839.80	4193549.00	205.46	223.98	1.50
2072	DISCCART	574889.80	4193549.00	211.55	218.80	1.50
2073	DISCCART	574939.80	4193549.00	213.83	218.19	1.50
2074	DISCCART	574989.80	4193549.00	212.54	221.62	1.50
2075	DISCCART	575039.80	4193549.00	211.40	222.22	1.50
2076	DISCCART	576089.80	4193549.00	116.32	280.10	1.50
2077	DISCCART	576139.80	4193549.00	121.94	280.10	1.50
2078	DISCCART	576189.80	4193549.00	118.44	280.10	1.50
2079	DISCCART	576239.80	4193549.00	120.25	280.10	1.50
2080	DISCCART	576289.80	4193549.00	123.56	280.10	1.50
2081	DISCCART	576339.80	4193549.00	123.94	280.10	1.50
2082	DISCCART	576389.80	4193549.00	122.38	280.10	1.50
2083	DISCCART	574789.80	4193599.00	181.23	251.25	1.50
2084	DISCCART	574839.80	4193599.00	188.22	251.25	1.50
2085	DISCCART	574889.80	4193599.00	200.39	223.98	1.50
2086	DISCCART	574939.80	4193599.00	215.48	218.42	1.50
2087	DISCCART	574989.80	4193599.00	218.10	218.10	1.50
2088	DISCCART	575039.80	4193599.00	221.60	221.60	1.50
2089	DISCCART	576089.80	4193599.00	108.85	280.10	1.50
2090	DISCCART	576139.80	4193599.00	108.61	280.10	1.50
2091	DISCCART	576189.80	4193599.00	106.17	280.10	1.50
2092	DISCCART	576239.80	4193599.00	108.84	280.10	1.50
2093	DISCCART	576289.80	4193599.00	111.96	280.10	1.50
2094	DISCCART	576339.80	4193599.00	113.14	280.10	1.50
2095	DISCCART	576389.80	4193599.00	112.07	280.10	1.50
2096	DISCCART	574789.80	4193649.00	166.82	256.69	1.50
2097	DISCCART	574839.80	4193649.00	177.04	251.25	1.50
2098	DISCCART	574889.80	4193649.00	194.55	223.98	1.50
2099	DISCCART	574939.80	4193649.00	206.18	222.22	1.50
2100	DISCCART	574989.80	4193649.00	204.98	222.22	1.50
2101	DISCCART	575039.80	4193649.00	214.66	222.22	1.50
2102	DISCCART	576089.80	4193649.00	104.29	280.10	1.50
2103	DISCCART	576139.80	4193649.00	103.87	280.10	1.50
2104	DISCCART	576189.80	4193649.00	103.62	280.10	1.50
2105	DISCCART	576239.80	4193649.00	103.01	280.10	1.50
2106	DISCCART	576289.80	4193649.00	102.94	280.10	1.50
2107	DISCCART	576339.80	4193649.00	102.94	280.10	1.50
2108	DISCCART	576389.80	4193649.00	103.33	280.10	1.50
2109	DISCCART	574789.80	4193699.00	165.58	256.69	1.50
2110	DISCCART	574839.80	4193699.00	179.83	251.25	1.50
2111	DISCCART	574889.80	4193699.00	194.08	223.98	1.50
2112	DISCCART	574939.80	4193699.00	186.46	223.98	1.50
2113	DISCCART	574989.80	4193699.00	185.26	223.98	1.50
2114	DISCCART	575039.80	4193699.00	194.38	222.22	1.50
2115	DISCCART	576089.80	4193699.00	104.32	280.10	1.50
2116	DISCCART	576139.80	4193699.00	103.38	280.10	1.50
2117	DISCCART	576189.80	4193699.00	103.00	280.10	1.50
2118	DISCCART	576239.80	4193699.00	102.17	280.10	1.50
2119	DISCCART	576289.80	4193699.00	101.58	280.10	1.50
2120	DISCCART	576339.80	4193699.00	101.05	280.10	1.50
2121	DISCCART	576389.80	4193699.00	100.51	280.10	1.50
2122	DISCCART	574789.80	4193749.00	156.56	256.69	1.50
2123	DISCCART	574839.80	4193749.00	164.74	251.25	1.50
2124	DISCCART	574889.80	4193749.00	171.20	251.25	1.50
2125	DISCCART	574939.80	4193749.00	165.71	251.25	1.50
2126	DISCCART	574989.80	4193749.00	166.96	251.25	1.50
2127	DISCCART	575039.80	4193749.00	179.65	223.98	1.50
2128	DISCCART	576089.80	4193749.00	104.43	280.10	1.50
2129	DISCCART	576139.80	4193749.00	104.01	280.10	1.50
2130	DISCCART	576189.80	4193749.00	103.11	280.10	1.50
2131	DISCCART	576239.80	4193749.00	102.33	280.10	1.50
2132	DISCCART	576289.80	4193749.00	101.78	366.80	1.50
2133	DISCCART	576339.80	4193749.00	101.22	367.29	1.50
2134	DISCCART	576389.80	4193749.00	100.67	367.29	1.50
2135	DISCCART	574789.80	4193799.00	146.80	256.69	1.50
2136	DISCCART	574839.80	4193799.00	156.61	251.25	1.50
2137	DISCCART	574889.80	4193799.00	159.57	251.25	1.50
2138	DISCCART	574939.80	4193799.00	155.26	251.25	1.50
2139	DISCCART	574989.80	4193799.00	155.87	251.25	1.50

2140	DISCCART	575039.80	4193799.00	163.10	225.60	1.50
2141	DISCCART	576089.80	4193799.00	105.32	367.29	1.50
2142	DISCCART	576139.80	4193799.00	104.13	367.29	1.50
2143	DISCCART	576189.80	4193799.00	102.89	367.29	1.50
2144	DISCCART	576239.80	4193799.00	101.23	367.29	1.50
2145	DISCCART	576289.80	4193799.00	99.67	367.29	1.50
2146	DISCCART	576339.80	4193799.00	99.46	367.29	1.50
2147	DISCCART	576389.80	4193799.00	99.51	367.29	1.50
2148	DISCCART	574789.80	4193849.00	142.11	305.50	1.50
2149	DISCCART	574839.80	4193849.00	150.22	256.69	1.50
2150	DISCCART	574889.80	4193849.00	152.64	251.25	1.50
2151	DISCCART	574939.80	4193849.00	149.13	251.25	1.50
2152	DISCCART	574989.80	4193849.00	146.31	251.25	1.50
2153	DISCCART	575039.80	4193849.00	152.80	251.25	1.50
2154	DISCCART	576089.80	4193849.00	109.66	367.29	1.50
2155	DISCCART	576139.80	4193849.00	108.58	367.29	1.50
2156	DISCCART	576189.80	4193849.00	105.54	367.29	1.50
2157	DISCCART	576239.80	4193849.00	103.37	367.29	1.50
2158	DISCCART	576289.80	4193849.00	102.83	367.29	1.50
2159	DISCCART	576339.80	4193849.00	102.20	367.29	1.50
2160	DISCCART	576389.80	4193849.00	101.49	367.29	1.50
2161	DISCCART	574789.80	4193899.00	140.06	305.50	1.50
2162	DISCCART	574839.80	4193899.00	144.87	305.50	1.50
2163	DISCCART	574889.80	4193899.00	147.19	251.25	1.50
2164	DISCCART	574939.80	4193899.00	141.14	259.10	1.50
2165	DISCCART	574989.80	4193899.00	141.85	259.10	1.50
2166	DISCCART	575039.80	4193899.00	142.60	259.10	1.50
2167	DISCCART	576089.80	4193899.00	111.70	367.29	1.50
2168	DISCCART	576139.80	4193899.00	111.81	367.29	1.50
2169	DISCCART	576189.80	4193899.00	110.96	367.29	1.50
2170	DISCCART	576239.80	4193899.00	108.84	367.29	1.50
2171	DISCCART	576289.80	4193899.00	105.19	367.29	1.50
2172	DISCCART	576339.80	4193899.00	103.25	367.29	1.50
2173	DISCCART	576389.80	4193899.00	103.26	367.29	1.50
2174	DISCCART	574789.80	4193949.00	138.17	322.67	1.50
2175	DISCCART	574839.80	4193949.00	138.81	305.50	1.50
2176	DISCCART	574889.80	4193949.00	139.96	305.50	1.50
2177	DISCCART	574939.80	4193949.00	139.02	305.50	1.50
2178	DISCCART	574989.80	4193949.00	137.12	305.44	1.50
2179	DISCCART	575039.80	4193949.00	135.33	259.10	1.50
2180	DISCCART	576089.80	4193949.00	119.02	367.29	1.50
2181	DISCCART	576139.80	4193949.00	120.86	367.29	1.50
2182	DISCCART	576189.80	4193949.00	122.05	259.10	1.50
2183	DISCCART	576239.80	4193949.00	115.47	367.29	1.50
2184	DISCCART	576289.80	4193949.00	117.49	367.29	1.50
2185	DISCCART	576339.80	4193949.00	117.59	367.29	1.50
2186	DISCCART	576389.80	4193949.00	107.48	367.29	1.50
2187	DISCCART	574789.80	4193999.00	137.03	322.70	1.50
2188	DISCCART	574839.80	4193999.00	137.43	322.67	1.50
2189	DISCCART	574889.80	4193999.00	137.77	305.50	1.50
2190	DISCCART	574939.80	4193999.00	137.54	305.50	1.50
2191	DISCCART	574989.80	4193999.00	135.93	305.50	1.50
2192	DISCCART	575039.80	4193999.00	133.62	305.50	1.50
2193	DISCCART	576089.80	4193999.00	128.35	259.10	1.50
2194	DISCCART	576139.80	4193999.00	131.56	259.10	1.50
2195	DISCCART	576189.80	4193999.00	131.66	259.10	1.50
2196	DISCCART	576239.80	4193999.00	129.79	259.10	1.50
2197	DISCCART	576289.80	4193999.00	128.69	259.10	1.50
2198	DISCCART	576339.80	4193999.00	127.69	259.10	1.50
2199	DISCCART	576389.80	4193999.00	123.42	367.29	1.50
2200	DISCCART	574789.80	4194049.00	135.07	322.70	1.50
2201	DISCCART	574839.80	4194049.00	132.31	322.70	1.50
2202	DISCCART	574889.80	4194049.00	130.11	322.70	1.50
2203	DISCCART	574939.80	4194049.00	128.48	322.70	1.50
2204	DISCCART	574989.80	4194049.00	127.18	322.67	1.50
2205	DISCCART	575039.80	4194049.00	126.51	305.50	1.50
2206	DISCCART	576089.80	4194049.00	134.68	259.10	1.50
2207	DISCCART	576139.80	4194049.00	133.16	259.10	1.50
2208	DISCCART	576189.80	4194049.00	131.60	366.80	1.50

2209	DISCCART	576239.80	4194049.00	131.81	366.80	1.50
2210	DISCCART	576289.80	4194049.00	132.31	259.10	1.50
2211	DISCCART	576339.80	4194049.00	132.16	259.10	1.50
2212	DISCCART	576389.80	4194049.00	127.00	367.29	1.50
2213	DISCCART	574789.80	4194099.00	131.01	322.70	1.50
2214	DISCCART	574839.80	4194099.00	128.67	322.70	1.50
2215	DISCCART	574889.80	4194099.00	127.38	322.70	1.50
2216	DISCCART	574939.80	4194099.00	126.71	322.70	1.50
2217	DISCCART	574989.80	4194099.00	126.68	322.70	1.50
2218	DISCCART	575039.80	4194099.00	127.16	306.11	1.50
2219	DISCCART	576089.80	4194099.00	136.43	259.10	1.50
2220	DISCCART	576139.80	4194099.00	132.71	367.29	1.50
2221	DISCCART	576189.80	4194099.00	131.65	367.29	1.50
2222	DISCCART	576239.80	4194099.00	130.06	367.29	1.50
2223	DISCCART	576289.80	4194099.00	128.45	367.29	1.50
2224	DISCCART	576339.80	4194099.00	126.82	367.29	1.50
2225	DISCCART	576389.80	4194099.00	125.59	367.29	1.50
2226	DISCCART	574789.80	4194149.00	128.21	322.70	1.50
2227	DISCCART	574839.80	4194149.00	126.33	357.55	1.50
2228	DISCCART	574889.80	4194149.00	124.99	357.55	1.50
2229	DISCCART	574939.80	4194149.00	124.04	357.55	1.50
2230	DISCCART	574989.80	4194149.00	121.75	365.57	1.50
2231	DISCCART	575039.80	4194149.00	118.81	413.72	1.50
2232	DISCCART	576089.80	4194149.00	154.51	259.10	1.50
2233	DISCCART	576139.80	4194149.00	149.34	259.10	1.50
2234	DISCCART	576189.80	4194149.00	143.02	259.10	1.50
2235	DISCCART	576239.80	4194149.00	134.51	367.29	1.50
2236	DISCCART	576289.80	4194149.00	128.54	367.29	1.50
2237	DISCCART	576339.80	4194149.00	127.00	367.29	1.50
2238	DISCCART	576389.80	4194149.00	125.41	367.29	1.50
2239	DISCCART	574789.80	4194199.00	128.79	357.55	1.50
2240	DISCCART	574839.80	4194199.00	126.40	365.57	1.50
2241	DISCCART	574889.80	4194199.00	123.54	365.57	1.50
2242	DISCCART	574939.80	4194199.00	122.28	413.72	1.50
2243	DISCCART	574989.80	4194199.00	122.79	413.72	1.50
2244	DISCCART	575039.80	4194199.00	122.80	413.72	1.50
2245	DISCCART	576089.80	4194199.00	169.24	259.10	1.50
2246	DISCCART	576139.80	4194199.00	165.24	259.10	1.50
2247	DISCCART	576189.80	4194199.00	158.25	259.10	1.50
2248	DISCCART	576239.80	4194199.00	149.58	259.10	1.50
2249	DISCCART	576289.80	4194199.00	136.33	367.29	1.50
2250	DISCCART	576339.80	4194199.00	126.61	367.29	1.50
2251	DISCCART	576389.80	4194199.00	124.82	367.29	1.50
2252	DISCCART	574789.80	4194249.00	129.23	365.57	1.50
2253	DISCCART	574839.80	4194249.00	126.86	365.57	1.50
2254	DISCCART	574889.80	4194249.00	126.41	413.72	1.50
2255	DISCCART	574939.80	4194249.00	125.04	413.72	1.50
2256	DISCCART	574989.80	4194249.00	124.56	413.72	1.50
2257	DISCCART	575039.80	4194249.00	123.96	413.72	1.50
2258	DISCCART	575089.80	4194249.00	123.43	413.72	1.50
2259	DISCCART	575139.80	4194249.00	121.37	413.72	1.50
2260	DISCCART	575189.80	4194249.00	121.58	413.72	1.50
2261	DISCCART	575239.80	4194249.00	122.40	413.72	1.50
2262	DISCCART	575289.80	4194249.00	125.01	413.72	1.50
2263	DISCCART	575339.80	4194249.00	126.88	413.72	1.50
2264	DISCCART	575389.80	4194249.00	128.99	413.72	1.50
2265	DISCCART	575439.80	4194249.00	130.19	413.72	1.50
2266	DISCCART	575489.80	4194249.00	132.80	413.72	1.50
2267	DISCCART	575539.80	4194249.00	141.93	259.10	1.50
2268	DISCCART	575589.80	4194249.00	153.50	259.10	1.50
2269	DISCCART	575639.80	4194249.00	168.54	259.10	1.50
2270	DISCCART	575689.80	4194249.00	173.36	259.10	1.50
2271	DISCCART	575739.80	4194249.00	173.12	259.10	1.50
2272	DISCCART	575789.80	4194249.00	179.15	259.10	1.50
2273	DISCCART	575839.80	4194249.00	197.83	259.10	1.50
2274	DISCCART	575889.80	4194249.00	195.05	259.10	1.50
2275	DISCCART	575939.80	4194249.00	190.79	259.10	1.50
2276	DISCCART	575989.80	4194249.00	184.61	259.10	1.50
2277	DISCCART	576039.80	4194249.00	178.54	259.10	1.50

2278	DISCCART	576089.80	4194249.00	163.24	259.10	1.50
2279	DISCCART	576139.80	4194249.00	155.85	259.10	1.50
2280	DISCCART	576189.80	4194249.00	152.68	259.10	1.50
2281	DISCCART	576239.80	4194249.00	145.15	367.29	1.50
2282	DISCCART	576289.80	4194249.00	139.59	367.29	1.50
2283	DISCCART	576339.80	4194249.00	131.25	367.29	1.50
2284	DISCCART	576389.80	4194249.00	136.98	367.29	1.50
2285	DISCCART	574789.80	4194299.00	127.32	413.72	1.50
2286	DISCCART	574839.80	4194299.00	128.56	413.72	1.50
2287	DISCCART	574889.80	4194299.00	127.80	413.72	1.50
2288	DISCCART	574939.80	4194299.00	125.99	413.72	1.50
2289	DISCCART	574989.80	4194299.00	125.70	413.72	1.50
2290	DISCCART	575039.80	4194299.00	124.94	413.72	1.50
2291	DISCCART	575089.80	4194299.00	124.24	413.72	1.50
2292	DISCCART	575139.80	4194299.00	120.53	413.72	1.50
2293	DISCCART	575189.80	4194299.00	123.33	413.72	1.50
2294	DISCCART	575239.80	4194299.00	124.21	413.72	1.50
2295	DISCCART	575289.80	4194299.00	128.12	413.72	1.50
2296	DISCCART	575339.80	4194299.00	134.70	413.72	1.50
2297	DISCCART	575389.80	4194299.00	131.84	413.72	1.50
2298	DISCCART	575439.80	4194299.00	133.04	413.72	1.50
2299	DISCCART	575489.80	4194299.00	134.28	413.72	1.50
2300	DISCCART	575539.80	4194299.00	145.06	259.10	1.50
2301	DISCCART	575589.80	4194299.00	161.96	259.10	1.50
2302	DISCCART	575639.80	4194299.00	177.57	259.10	1.50
2303	DISCCART	575689.80	4194299.00	189.19	259.10	1.50
2304	DISCCART	575739.80	4194299.00	188.96	259.10	1.50
2305	DISCCART	575789.80	4194299.00	201.77	259.10	1.50
2306	DISCCART	575839.80	4194299.00	207.39	259.10	1.50
2307	DISCCART	575889.80	4194299.00	209.98	259.10	1.50
2308	DISCCART	575939.80	4194299.00	196.51	259.10	1.50
2309	DISCCART	575989.80	4194299.00	185.71	259.10	1.50
2310	DISCCART	576039.80	4194299.00	182.41	259.10	1.50
2311	DISCCART	576089.80	4194299.00	171.17	259.10	1.50
2312	DISCCART	576139.80	4194299.00	154.77	367.29	1.50
2313	DISCCART	576189.80	4194299.00	146.36	367.29	1.50
2314	DISCCART	576239.80	4194299.00	146.89	367.29	1.50
2315	DISCCART	576289.80	4194299.00	145.85	367.29	1.50
2316	DISCCART	576339.80	4194299.00	140.93	367.29	1.50
2317	DISCCART	576389.80	4194299.00	154.74	367.29	1.50
2318	DISCCART	574789.80	4194349.00	130.42	413.72	1.50
2319	DISCCART	574839.80	4194349.00	129.78	413.72	1.50
2320	DISCCART	574889.80	4194349.00	128.33	413.72	1.50
2321	DISCCART	574939.80	4194349.00	127.26	413.72	1.50
2322	DISCCART	574989.80	4194349.00	126.47	413.72	1.50
2323	DISCCART	575039.80	4194349.00	125.54	413.72	1.50
2324	DISCCART	575089.80	4194349.00	121.36	413.72	1.50
2325	DISCCART	575139.80	4194349.00	124.22	413.72	1.50
2326	DISCCART	575189.80	4194349.00	127.54	413.72	1.50
2327	DISCCART	575239.80	4194349.00	128.91	413.72	1.50
2328	DISCCART	575289.80	4194349.00	132.05	413.72	1.50
2329	DISCCART	575339.80	4194349.00	140.02	413.72	1.50
2330	DISCCART	575389.80	4194349.00	135.45	413.72	1.50
2331	DISCCART	575439.80	4194349.00	136.17	413.72	1.50
2332	DISCCART	575489.80	4194349.00	137.17	413.72	1.50
2333	DISCCART	575539.80	4194349.00	141.52	413.72	1.50
2334	DISCCART	575589.80	4194349.00	155.71	259.10	1.50
2335	DISCCART	575639.80	4194349.00	175.52	259.10	1.50
2336	DISCCART	575689.80	4194349.00	196.60	259.10	1.50
2337	DISCCART	575739.80	4194349.00	209.59	259.10	1.50
2338	DISCCART	575789.80	4194349.00	215.28	259.10	1.50
2339	DISCCART	575839.80	4194349.00	220.66	258.96	1.50
2340	DISCCART	575889.80	4194349.00	215.40	259.10	1.50
2341	DISCCART	575939.80	4194349.00	206.40	259.10	1.50
2342	DISCCART	575989.80	4194349.00	198.79	259.10	1.50
2343	DISCCART	576039.80	4194349.00	182.62	259.10	1.50
2344	DISCCART	576089.80	4194349.00	160.57	366.80	1.50
2345	DISCCART	576139.80	4194349.00	152.40	367.29	1.50
2346	DISCCART	576189.80	4194349.00	153.85	367.29	1.50

2347	DISCCART	576239.80	4194349.00	160.48	367.29	1.50
2348	DISCCART	576289.80	4194349.00	161.77	366.80	1.50
2349	DISCCART	576339.80	4194349.00	158.12	367.29	1.50
2350	DISCCART	576389.80	4194349.00	151.96	367.29	1.50
2351	DISCCART	574789.80	4194399.00	131.17	413.72	1.50
2352	DISCCART	574839.80	4194399.00	129.69	413.72	1.50
2353	DISCCART	574889.80	4194399.00	128.68	413.72	1.50
2354	DISCCART	574939.80	4194399.00	126.98	413.72	1.50
2355	DISCCART	574989.80	4194399.00	124.35	413.72	1.50
2356	DISCCART	575039.80	4194399.00	124.11	413.72	1.50
2357	DISCCART	575089.80	4194399.00	126.27	413.72	1.50
2358	DISCCART	575139.80	4194399.00	127.18	413.72	1.50
2359	DISCCART	575189.80	4194399.00	130.23	413.72	1.50
2360	DISCCART	575239.80	4194399.00	133.94	413.72	1.50
2361	DISCCART	575289.80	4194399.00	137.23	413.72	1.50
2362	DISCCART	575339.80	4194399.00	144.67	413.72	1.50
2363	DISCCART	575389.80	4194399.00	142.18	413.72	1.50
2364	DISCCART	575439.80	4194399.00	138.77	413.72	1.50
2365	DISCCART	575489.80	4194399.00	140.33	413.72	1.50
2366	DISCCART	575539.80	4194399.00	144.21	413.72	1.50
2367	DISCCART	575589.80	4194399.00	162.52	259.10	1.50
2368	DISCCART	575639.80	4194399.00	178.84	259.10	1.50
2369	DISCCART	575689.80	4194399.00	202.40	259.10	1.50
2370	DISCCART	575739.80	4194399.00	225.53	258.98	1.50
2371	DISCCART	575789.80	4194399.00	232.81	257.46	1.50
2372	DISCCART	575839.80	4194399.00	229.65	257.46	1.50
2373	DISCCART	575889.80	4194399.00	216.05	259.10	1.50
2374	DISCCART	575939.80	4194399.00	204.62	259.10	1.50
2375	DISCCART	575989.80	4194399.00	193.17	259.10	1.50
2376	DISCCART	576039.80	4194399.00	170.88	259.10	1.50
2377	DISCCART	576089.80	4194399.00	167.62	259.10	1.50
2378	DISCCART	576139.80	4194399.00	168.45	259.10	1.50
2379	DISCCART	576189.80	4194399.00	178.34	259.10	1.50
2380	DISCCART	576239.80	4194399.00	179.82	259.10	1.50
2381	DISCCART	576289.80	4194399.00	168.07	259.10	1.50
2382	DISCCART	576339.80	4194399.00	155.72	367.29	1.50
2383	DISCCART	576389.80	4194399.00	142.93	367.29	1.50
2384	DISCCART	574789.80	4194449.00	131.80	413.72	1.50
2385	DISCCART	574839.80	4194449.00	130.44	413.72	1.50
2386	DISCCART	574889.80	4194449.00	126.59	413.72	1.50
2387	DISCCART	574939.80	4194449.00	129.38	413.72	1.50
2388	DISCCART	574989.80	4194449.00	129.09	413.72	1.50
2389	DISCCART	575039.80	4194449.00	128.65	413.72	1.50
2390	DISCCART	575089.80	4194449.00	130.53	413.72	1.50
2391	DISCCART	575139.80	4194449.00	131.27	413.72	1.50
2392	DISCCART	575189.80	4194449.00	134.16	413.72	1.50
2393	DISCCART	575239.80	4194449.00	138.52	413.72	1.50
2394	DISCCART	575289.80	4194449.00	144.15	413.72	1.50
2395	DISCCART	575339.80	4194449.00	153.40	413.72	1.50
2396	DISCCART	575389.80	4194449.00	151.19	413.72	1.50
2397	DISCCART	575439.80	4194449.00	141.71	413.72	1.50
2398	DISCCART	575489.80	4194449.00	143.22	413.72	1.50
2399	DISCCART	575539.80	4194449.00	148.18	413.72	1.50
2400	DISCCART	575589.80	4194449.00	158.79	366.80	1.50
2401	DISCCART	575639.80	4194449.00	177.09	259.10	1.50
2402	DISCCART	575689.80	4194449.00	200.38	259.10	1.50
2403	DISCCART	575739.80	4194449.00	227.50	259.10	1.50
2404	DISCCART	575789.80	4194449.00	240.49	256.57	1.50
2405	DISCCART	575839.80	4194449.00	237.63	257.31	1.50
2406	DISCCART	575889.80	4194449.00	218.27	259.10	1.50
2407	DISCCART	575939.80	4194449.00	202.81	259.10	1.50
2408	DISCCART	575989.80	4194449.00	183.45	259.10	1.50
2409	DISCCART	576039.80	4194449.00	185.35	259.10	1.50
2410	DISCCART	576089.80	4194449.00	190.58	259.10	1.50
2411	DISCCART	576139.80	4194449.00	194.15	259.10	1.50
2412	DISCCART	576189.80	4194449.00	191.72	259.10	1.50
2413	DISCCART	576239.80	4194449.00	178.90	259.10	1.50
2414	DISCCART	576289.80	4194449.00	160.50	367.29	1.50
2415	DISCCART	576339.80	4194449.00	145.57	413.72	1.50

2416	DISCCART	576389.80	4194449.00	138.44	413.72	1.50
2417	DISCCART	574789.80	4194499.00	132.56	413.72	1.50
2418	DISCCART	574839.80	4194499.00	131.10	413.72	1.50
2419	DISCCART	574889.80	4194499.00	133.53	413.72	1.50
2420	DISCCART	574939.80	4194499.00	136.07	413.72	1.50
2421	DISCCART	574989.80	4194499.00	131.46	413.72	1.50
2422	DISCCART	575039.80	4194499.00	131.50	413.72	1.50
2423	DISCCART	575089.80	4194499.00	136.08	413.72	1.50
2424	DISCCART	575139.80	4194499.00	138.16	413.72	1.50
2425	DISCCART	575189.80	4194499.00	144.20	413.72	1.50
2426	DISCCART	575239.80	4194499.00	147.61	413.72	1.50
2427	DISCCART	575289.80	4194499.00	151.79	413.72	1.50
2428	DISCCART	575339.80	4194499.00	160.49	360.99	1.50
2429	DISCCART	575389.80	4194499.00	159.13	413.72	1.50
2430	DISCCART	575439.80	4194499.00	146.15	413.72	1.50
2431	DISCCART	575489.80	4194499.00	146.78	413.72	1.50
2432	DISCCART	575539.80	4194499.00	157.13	413.72	1.50
2433	DISCCART	575589.80	4194499.00	167.28	259.10	1.50
2434	DISCCART	575639.80	4194499.00	171.25	259.10	1.50
2435	DISCCART	575689.80	4194499.00	190.55	259.10	1.50
2436	DISCCART	575739.80	4194499.00	208.83	259.10	1.50
2437	DISCCART	575789.80	4194499.00	232.79	259.10	1.50
2438	DISCCART	575839.80	4194499.00	233.50	258.98	1.50
2439	DISCCART	575889.80	4194499.00	222.73	259.10	1.50
2440	DISCCART	575939.80	4194499.00	215.26	259.10	1.50
2441	DISCCART	575989.80	4194499.00	206.06	259.10	1.50
2442	DISCCART	576039.80	4194499.00	210.63	259.10	1.50
2443	DISCCART	576089.80	4194499.00	201.25	259.10	1.50
2444	DISCCART	576139.80	4194499.00	196.37	259.10	1.50
2445	DISCCART	576189.80	4194499.00	188.78	259.10	1.50
2446	DISCCART	576239.80	4194499.00	176.63	366.80	1.50
2447	DISCCART	576289.80	4194499.00	160.17	367.29	1.50
2448	DISCCART	576339.80	4194499.00	147.46	413.72	1.50
2449	DISCCART	576389.80	4194499.00	139.63	413.72	1.50
2450	DISCCART	574789.80	4194549.00	133.49	413.72	1.50
2451	DISCCART	574839.80	4194549.00	132.09	413.72	1.50
2452	DISCCART	574889.80	4194549.00	140.81	413.72	1.50
2453	DISCCART	574939.80	4194549.00	143.11	413.72	1.50
2454	DISCCART	574989.80	4194549.00	137.62	413.72	1.50
2455	DISCCART	575039.80	4194549.00	136.58	413.72	1.50
2456	DISCCART	575089.80	4194549.00	143.95	413.72	1.50
2457	DISCCART	575139.80	4194549.00	144.61	413.72	1.50
2458	DISCCART	575189.80	4194549.00	151.56	413.72	1.50
2459	DISCCART	575239.80	4194549.00	156.36	413.72	1.50
2460	DISCCART	575289.80	4194549.00	162.21	413.72	1.50
2461	DISCCART	575339.80	4194549.00	171.08	259.10	1.50
2462	DISCCART	575389.80	4194549.00	173.20	259.10	1.50
2463	DISCCART	575439.80	4194549.00	152.64	413.72	1.50
2464	DISCCART	575489.80	4194549.00	151.35	413.72	1.50
2465	DISCCART	575539.80	4194549.00	163.49	413.72	1.50
2466	DISCCART	575589.80	4194549.00	186.69	259.10	1.50
2467	DISCCART	575639.80	4194549.00	197.45	259.10	1.50
2468	DISCCART	575689.80	4194549.00	200.43	259.10	1.50
2469	DISCCART	575739.80	4194549.00	212.93	259.10	1.50
2470	DISCCART	575789.80	4194549.00	237.69	259.10	1.50
2471	DISCCART	575839.80	4194549.00	241.66	257.69	1.50
2472	DISCCART	575889.80	4194549.00	235.33	258.98	1.50
2473	DISCCART	575939.80	4194549.00	232.30	258.98	1.50
2474	DISCCART	575989.80	4194549.00	227.28	259.04	1.50
2475	DISCCART	576039.80	4194549.00	216.03	259.10	1.50
2476	DISCCART	576089.80	4194549.00	198.93	259.10	1.50
2477	DISCCART	576139.80	4194549.00	187.75	259.10	1.50
2478	DISCCART	576189.80	4194549.00	180.88	367.29	1.50
2479	DISCCART	576239.80	4194549.00	173.13	367.29	1.50
2480	DISCCART	576289.80	4194549.00	160.99	367.29	1.50
2481	DISCCART	576339.80	4194549.00	151.62	413.72	1.50
2482	DISCCART	576389.80	4194549.00	142.55	413.72	1.50
2483	DISCCART	575073.60	4193538.00	210.07	222.22	1.50
2484	DISCCART	575098.60	4193538.00	207.56	222.22	1.50

2485	DISCCART	575123.60	4193538.00	199.83	222.22	1.50
2486	DISCCART	575148.60	4193538.00	193.34	222.22	1.50
2487	DISCCART	575173.60	4193538.00	189.32	222.22	1.50
2488	DISCCART	575198.60	4193538.00	181.02	222.22	1.50
2489	DISCCART	575223.60	4193538.00	173.30	223.98	1.50
2490	DISCCART	575248.60	4193538.00	168.64	223.98	1.50
2491	DISCCART	575273.60	4193538.00	163.05	223.98	1.50
2492	DISCCART	575298.60	4193538.00	164.96	223.98	1.50
2493	DISCCART	575323.60	4193538.00	164.56	222.22	1.50
2494	DISCCART	575348.60	4193538.00	161.42	223.67	1.50
2495	DISCCART	575373.60	4193538.00	159.09	223.67	1.50
2496	DISCCART	575398.60	4193538.00	156.84	222.22	1.50
2497	DISCCART	575423.60	4193538.00	152.85	223.98	1.50
2498	DISCCART	575448.60	4193538.00	147.53	223.98	1.50
2499	DISCCART	575473.60	4193538.00	143.31	257.31	1.50
2500	DISCCART	575498.60	4193538.00	141.40	257.46	1.50
2501	DISCCART	575523.60	4193538.00	141.61	257.46	1.50
2502	DISCCART	575548.60	4193538.00	139.61	258.80	1.50
2503	DISCCART	575573.60	4193538.00	134.53	274.88	1.50
2504	DISCCART	575598.60	4193538.00	129.19	280.08	1.50
2505	DISCCART	575623.60	4193538.00	123.72	280.10	1.50
2506	DISCCART	575648.60	4193538.00	119.60	316.12	1.50
2507	DISCCART	575673.60	4193538.00	116.25	316.12	1.50
2508	DISCCART	575698.60	4193538.00	114.46	316.12	1.50
2509	DISCCART	575723.60	4193538.00	113.20	316.12	1.50
2510	DISCCART	575748.60	4193538.00	111.93	316.12	1.50
2511	DISCCART	575773.60	4193538.00	110.76	316.12	1.50
2512	DISCCART	575798.60	4193538.00	109.62	316.12	1.50
2513	DISCCART	575823.60	4193538.00	108.71	316.12	1.50
2514	DISCCART	575848.60	4193538.00	108.14	316.12	1.50
2515	DISCCART	575873.60	4193538.00	107.59	316.12	1.50
2516	DISCCART	575898.60	4193538.00	106.35	316.12	1.50
2517	DISCCART	575923.60	4193538.00	108.67	316.12	1.50
2518	DISCCART	575948.60	4193538.00	109.24	316.12	1.50
2519	DISCCART	575973.60	4193538.00	109.91	316.12	1.50
2520	DISCCART	575998.60	4193538.00	110.55	316.12	1.50
2521	DISCCART	576023.60	4193538.00	113.96	280.10	1.50
2522	DISCCART	576048.60	4193538.00	114.97	280.10	1.50
2523	DISCCART	576073.60	4193538.00	116.96	280.10	1.50
2524	DISCCART	575073.60	4193563.00	212.47	222.22	1.50
2525	DISCCART	575098.60	4193563.00	206.69	222.22	1.50
2526	DISCCART	575123.60	4193563.00	200.09	222.22	1.50
2527	DISCCART	575148.60	4193563.00	194.86	222.22	1.50
2528	DISCCART	575173.60	4193563.00	188.50	222.22	1.50
2529	DISCCART	575198.60	4193563.00	182.01	222.22	1.50
2530	DISCCART	575223.60	4193563.00	177.76	222.22	1.50
2531	DISCCART	575248.60	4193563.00	175.50	222.22	1.50
2532	DISCCART	575273.60	4193563.00	175.86	222.22	1.50
2533	DISCCART	575298.60	4193563.00	174.28	222.22	1.50
2534	DISCCART	575323.60	4193563.00	169.57	222.22	1.50
2535	DISCCART	575348.60	4193563.00	164.85	222.22	1.50
2536	DISCCART	575373.60	4193563.00	162.33	222.22	1.50
2537	DISCCART	575398.60	4193563.00	159.18	222.22	1.50
2538	DISCCART	575423.60	4193563.00	152.99	223.98	1.50
2539	DISCCART	575448.60	4193563.00	145.89	256.66	1.50
2540	DISCCART	575473.60	4193563.00	139.75	258.96	1.50
2541	DISCCART	575498.60	4193563.00	135.36	259.10	1.50
2542	DISCCART	575523.60	4193563.00	135.89	259.10	1.50
2543	DISCCART	575548.60	4193563.00	133.82	259.10	1.50
2544	DISCCART	575573.60	4193563.00	130.07	279.52	1.50
2545	DISCCART	575598.60	4193563.00	126.95	279.79	1.50
2546	DISCCART	575623.60	4193563.00	123.94	280.10	1.50
2547	DISCCART	575648.60	4193563.00	121.33	280.10	1.50
2548	DISCCART	575673.60	4193563.00	116.77	316.12	1.50
2549	DISCCART	575698.60	4193563.00	111.90	316.12	1.50
2550	DISCCART	575723.60	4193563.00	110.29	316.12	1.50
2551	DISCCART	575748.60	4193563.00	109.20	316.12	1.50
2552	DISCCART	575773.60	4193563.00	108.35	316.12	1.50
2553	DISCCART	575798.60	4193563.00	108.04	316.12	1.50

2554	DISCCART	575823.60	4193563.00	107.96	316.12	1.50
2555	DISCCART	575848.60	4193563.00	107.85	316.12	1.50
2556	DISCCART	575873.60	4193563.00	107.64	316.12	1.50
2557	DISCCART	575898.60	4193563.00	107.29	316.12	1.50
2558	DISCCART	575923.60	4193563.00	106.77	316.12	1.50
2559	DISCCART	575948.60	4193563.00	107.05	316.12	1.50
2560	DISCCART	575973.60	4193563.00	106.80	316.12	1.50
2561	DISCCART	575998.60	4193563.00	107.02	316.12	1.50
2562	DISCCART	576023.60	4193563.00	108.39	316.12	1.50
2563	DISCCART	576048.60	4193563.00	110.41	280.10	1.50
2564	DISCCART	576073.60	4193563.00	112.30	280.10	1.50
2565	DISCCART	575073.60	4193588.00	216.44	222.22	1.50
2566	DISCCART	575098.60	4193588.00	210.01	222.22	1.50
2567	DISCCART	575123.60	4193588.00	203.52	222.22	1.50
2568	DISCCART	575148.60	4193588.00	196.65	222.22	1.50
2569	DISCCART	575173.60	4193588.00	189.67	222.22	1.50
2570	DISCCART	575198.60	4193588.00	184.65	222.22	1.50
2571	DISCCART	575223.60	4193588.00	181.90	222.22	1.50
2572	DISCCART	575248.60	4193588.00	183.41	222.22	1.50
2573	DISCCART	575273.60	4193588.00	183.31	222.22	1.50
2574	DISCCART	575298.60	4193588.00	178.38	222.22	1.50
2575	DISCCART	575323.60	4193588.00	174.61	222.22	1.50
2576	DISCCART	575348.60	4193588.00	170.64	222.22	1.50
2577	DISCCART	575373.60	4193588.00	166.08	222.22	1.50
2578	DISCCART	575398.60	4193588.00	162.52	222.22	1.50
2579	DISCCART	575423.60	4193588.00	155.97	222.22	1.50
2580	DISCCART	575448.60	4193588.00	149.83	223.98	1.50
2581	DISCCART	575473.60	4193588.00	143.51	258.80	1.50
2582	DISCCART	575498.60	4193588.00	136.13	259.10	1.50
2583	DISCCART	575523.60	4193588.00	129.83	274.69	1.50
2584	DISCCART	575548.60	4193588.00	126.34	279.52	1.50
2585	DISCCART	575573.60	4193588.00	123.38	280.10	1.50
2586	DISCCART	575598.60	4193588.00	120.72	280.10	1.50
2587	DISCCART	575623.60	4193588.00	118.48	280.10	1.50
2588	DISCCART	575648.60	4193588.00	116.11	280.10	1.50
2589	DISCCART	575673.60	4193588.00	113.52	316.12	1.50
2590	DISCCART	575698.60	4193588.00	109.99	316.12	1.50
2591	DISCCART	575723.60	4193588.00	108.67	316.12	1.50
2592	DISCCART	575748.60	4193588.00	108.08	316.12	1.50
2593	DISCCART	575773.60	4193588.00	107.75	316.12	1.50
2594	DISCCART	575798.60	4193588.00	107.76	316.12	1.50
2595	DISCCART	575823.60	4193588.00	107.81	316.12	1.50
2596	DISCCART	575848.60	4193588.00	107.39	316.12	1.50
2597	DISCCART	575873.60	4193588.00	107.12	316.12	1.50
2598	DISCCART	575898.60	4193588.00	107.02	316.12	1.50
2599	DISCCART	575923.60	4193588.00	106.72	316.12	1.50
2600	DISCCART	575948.60	4193588.00	106.53	316.12	1.50
2601	DISCCART	575973.60	4193588.00	106.24	316.12	1.50
2602	DISCCART	575998.60	4193588.00	105.94	316.12	1.50
2603	DISCCART	576023.60	4193588.00	106.17	316.12	1.50
2604	DISCCART	576048.60	4193588.00	107.42	280.10	1.50
2605	DISCCART	576073.60	4193588.00	109.34	280.10	1.50
2606	DISCCART	575073.60	4193613.00	218.85	222.22	1.50
2607	DISCCART	575098.60	4193613.00	213.28	222.22	1.50
2608	DISCCART	575123.60	4193613.00	206.93	222.22	1.50
2609	DISCCART	575148.60	4193613.00	200.53	222.22	1.50
2610	DISCCART	575173.60	4193613.00	194.72	222.22	1.50
2611	DISCCART	575198.60	4193613.00	190.56	222.22	1.50
2612	DISCCART	575223.60	4193613.00	188.14	222.22	1.50
2613	DISCCART	575248.60	4193613.00	186.79	222.22	1.50
2614	DISCCART	575273.60	4193613.00	184.84	222.22	1.50
2615	DISCCART	575298.60	4193613.00	180.93	222.22	1.50
2616	DISCCART	575323.60	4193613.00	175.83	222.22	1.50
2617	DISCCART	575348.60	4193613.00	172.84	222.22	1.50
2618	DISCCART	575373.60	4193613.00	168.45	222.22	1.50
2619	DISCCART	575398.60	4193613.00	164.38	222.22	1.50
2620	DISCCART	575423.60	4193613.00	157.80	222.22	1.50
2621	DISCCART	575448.60	4193613.00	150.56	256.66	1.50
2622	DISCCART	575473.60	4193613.00	142.76	259.10	1.50

2623	DISCCART	575498.60	4193613.00	136.83	259.10	1.50
2624	DISCCART	575523.60	4193613.00	131.67	259.10	1.50
2625	DISCCART	575548.60	4193613.00	124.76	279.52	1.50
2626	DISCCART	575573.60	4193613.00	118.77	280.10	1.50
2627	DISCCART	575598.60	4193613.00	116.72	280.10	1.50
2628	DISCCART	575623.60	4193613.00	115.36	280.10	1.50
2629	DISCCART	575648.60	4193613.00	113.21	280.10	1.50
2630	DISCCART	575673.60	4193613.00	111.32	316.12	1.50
2631	DISCCART	575698.60	4193613.00	109.80	316.12	1.50
2632	DISCCART	575723.60	4193613.00	108.64	316.12	1.50
2633	DISCCART	575748.60	4193613.00	108.11	316.12	1.50
2634	DISCCART	575773.60	4193613.00	107.73	316.12	1.50
2635	DISCCART	575798.60	4193613.00	107.66	316.12	1.50
2636	DISCCART	575823.60	4193613.00	107.27	316.12	1.50
2637	DISCCART	575848.60	4193613.00	107.02	316.12	1.50
2638	DISCCART	575873.60	4193613.00	106.79	316.12	1.50
2639	DISCCART	575898.60	4193613.00	106.75	316.12	1.50
2640	DISCCART	575923.60	4193613.00	106.51	316.12	1.50
2641	DISCCART	575948.60	4193613.00	106.36	316.12	1.50
2642	DISCCART	575973.60	4193613.00	106.12	315.92	1.50
2643	DISCCART	575998.60	4193613.00	105.93	315.92	1.50
2644	DISCCART	576023.60	4193613.00	105.58	280.10	1.50
2645	DISCCART	576048.60	4193613.00	105.56	280.10	1.50
2646	DISCCART	576073.60	4193613.00	106.13	280.10	1.50
2647	DISCCART	575073.60	4193638.00	222.09	222.09	1.50
2648	DISCCART	575098.60	4193638.00	217.73	222.22	1.50
2649	DISCCART	575123.60	4193638.00	211.14	222.22	1.50
2650	DISCCART	575148.60	4193638.00	204.44	222.22	1.50
2651	DISCCART	575173.60	4193638.00	196.60	222.22	1.50
2652	DISCCART	575198.60	4193638.00	190.80	222.22	1.50
2653	DISCCART	575223.60	4193638.00	186.46	222.22	1.50
2654	DISCCART	575248.60	4193638.00	180.98	222.22	1.50
2655	DISCCART	575273.60	4193638.00	177.38	222.22	1.50
2656	DISCCART	575298.60	4193638.00	174.88	222.22	1.50
2657	DISCCART	575323.60	4193638.00	172.55	222.22	1.50
2658	DISCCART	575348.60	4193638.00	172.07	222.22	1.50
2659	DISCCART	575373.60	4193638.00	167.61	222.22	1.50
2660	DISCCART	575398.60	4193638.00	161.69	222.22	1.50
2661	DISCCART	575423.60	4193638.00	153.28	222.22	1.50
2662	DISCCART	575448.60	4193638.00	146.66	258.96	1.50
2663	DISCCART	575473.60	4193638.00	141.10	259.10	1.50
2664	DISCCART	575498.60	4193638.00	136.97	259.10	1.50
2665	DISCCART	575523.60	4193638.00	133.56	259.10	1.50
2666	DISCCART	575548.60	4193638.00	128.82	259.10	1.50
2667	DISCCART	575573.60	4193638.00	121.83	279.52	1.50
2668	DISCCART	575598.60	4193638.00	116.74	280.10	1.50
2669	DISCCART	575623.60	4193638.00	114.43	280.10	1.50
2670	DISCCART	575648.60	4193638.00	112.58	280.10	1.50
2671	DISCCART	575673.60	4193638.00	110.91	280.10	1.50
2672	DISCCART	575698.60	4193638.00	109.77	315.92	1.50
2673	DISCCART	575723.60	4193638.00	108.70	316.12	1.50
2674	DISCCART	575748.60	4193638.00	108.09	316.12	1.50
2675	DISCCART	575773.60	4193638.00	107.84	316.12	1.50
2676	DISCCART	575798.60	4193638.00	107.67	315.92	1.50
2677	DISCCART	575823.60	4193638.00	107.28	315.92	1.50
2678	DISCCART	575848.60	4193638.00	106.90	315.92	1.50
2679	DISCCART	575873.60	4193638.00	106.48	315.92	1.50
2680	DISCCART	575898.60	4193638.00	106.25	280.10	1.50
2681	DISCCART	575923.60	4193638.00	106.00	280.10	1.50
2682	DISCCART	575948.60	4193638.00	105.95	280.10	1.50
2683	DISCCART	575973.60	4193638.00	105.78	280.10	1.50
2684	DISCCART	575998.60	4193638.00	105.50	280.10	1.50
2685	DISCCART	576023.60	4193638.00	105.29	280.10	1.50
2686	DISCCART	576048.60	4193638.00	104.89	280.10	1.50
2687	DISCCART	576073.60	4193638.00	104.56	280.10	1.50
2688	DISCCART	575073.60	4193663.00	217.19	222.22	1.50
2689	DISCCART	575098.60	4193663.00	213.41	222.22	1.50
2690	DISCCART	575123.60	4193663.00	205.02	222.22	1.50
2691	DISCCART	575148.60	4193663.00	196.44	222.22	1.50

2692	DISCCART	575173.60	4193663.00	186.21	222.22	1.50
2693	DISCCART	575198.60	4193663.00	179.93	222.22	1.50
2694	DISCCART	575223.60	4193663.00	174.81	222.22	1.50
2695	DISCCART	575248.60	4193663.00	170.30	222.22	1.50
2696	DISCCART	575273.60	4193663.00	167.61	222.22	1.50
2697	DISCCART	575298.60	4193663.00	164.13	222.22	1.50
2698	DISCCART	575323.60	4193663.00	161.52	222.22	1.50
2699	DISCCART	575348.60	4193663.00	163.43	222.22	1.50
2700	DISCCART	575373.60	4193663.00	164.33	222.22	1.50
2701	DISCCART	575398.60	4193663.00	161.60	222.22	1.50
2702	DISCCART	575423.60	4193663.00	156.45	222.22	1.50
2703	DISCCART	575448.60	4193663.00	149.48	258.80	1.50
2704	DISCCART	575473.60	4193663.00	142.25	259.10	1.50
2705	DISCCART	575498.60	4193663.00	139.50	259.10	1.50
2706	DISCCART	575523.60	4193663.00	138.14	259.10	1.50
2707	DISCCART	575548.60	4193663.00	131.96	259.10	1.50
2708	DISCCART	575573.60	4193663.00	123.89	274.69	1.50
2709	DISCCART	575598.60	4193663.00	117.32	279.79	1.50
2710	DISCCART	575623.60	4193663.00	113.44	280.10	1.50
2711	DISCCART	575648.60	4193663.00	111.87	280.10	1.50
2712	DISCCART	575673.60	4193663.00	110.80	280.10	1.50
2713	DISCCART	575698.60	4193663.00	109.48	280.10	1.50
2714	DISCCART	575723.60	4193663.00	108.74	280.10	1.50
2715	DISCCART	575748.60	4193663.00	108.31	280.10	1.50
2716	DISCCART	575773.60	4193663.00	107.92	280.10	1.50
2717	DISCCART	575798.60	4193663.00	107.69	280.10	1.50
2718	DISCCART	575823.60	4193663.00	107.37	280.10	1.50
2719	DISCCART	575848.60	4193663.00	106.98	280.10	1.50
2720	DISCCART	575873.60	4193663.00	106.70	280.10	1.50
2721	DISCCART	575898.60	4193663.00	106.52	280.10	1.50
2722	DISCCART	575923.60	4193663.00	106.23	280.10	1.50
2723	DISCCART	575948.60	4193663.00	106.02	280.10	1.50
2724	DISCCART	575973.60	4193663.00	105.74	280.10	1.50
2725	DISCCART	575998.60	4193663.00	105.34	280.10	1.50
2726	DISCCART	576023.60	4193663.00	105.05	280.10	1.50
2727	DISCCART	576048.60	4193663.00	104.58	280.10	1.50
2728	DISCCART	576073.60	4193663.00	104.30	280.10	1.50
2729	DISCCART	575073.60	4193688.00	208.28	222.22	1.50
2730	DISCCART	575098.60	4193688.00	206.74	222.22	1.50
2731	DISCCART	575123.60	4193688.00	197.85	222.22	1.50
2732	DISCCART	575148.60	4193688.00	187.94	222.22	1.50
2733	DISCCART	575173.60	4193688.00	178.96	222.22	1.50
2734	DISCCART	575198.60	4193688.00	172.78	222.22	1.50
2735	DISCCART	575223.60	4193688.00	167.89	223.98	1.50
2736	DISCCART	575248.60	4193688.00	164.01	223.98	1.50
2737	DISCCART	575273.60	4193688.00	161.55	223.98	1.50
2738	DISCCART	575298.60	4193688.00	158.47	223.98	1.50
2739	DISCCART	575323.60	4193688.00	155.93	223.98	1.50
2740	DISCCART	575348.60	4193688.00	155.76	223.98	1.50
2741	DISCCART	575373.60	4193688.00	154.87	256.66	1.50
2742	DISCCART	575398.60	4193688.00	154.16	257.46	1.50
2743	DISCCART	575423.60	4193688.00	154.66	257.46	1.50
2744	DISCCART	575448.60	4193688.00	150.79	258.97	1.50
2745	DISCCART	575473.60	4193688.00	145.59	259.10	1.50
2746	DISCCART	575498.60	4193688.00	143.29	259.10	1.50
2747	DISCCART	575523.60	4193688.00	142.95	259.10	1.50
2748	DISCCART	575548.60	4193688.00	137.05	259.10	1.50
2749	DISCCART	575573.60	4193688.00	127.81	259.10	1.50
2750	DISCCART	575598.60	4193688.00	119.11	279.09	1.50
2751	DISCCART	575623.60	4193688.00	113.15	280.10	1.50
2752	DISCCART	575648.60	4193688.00	110.91	280.10	1.50
2753	DISCCART	575673.60	4193688.00	110.19	280.10	1.50
2754	DISCCART	575698.60	4193688.00	109.27	280.10	1.50
2755	DISCCART	575723.60	4193688.00	108.72	280.10	1.50
2756	DISCCART	575748.60	4193688.00	108.29	280.10	1.50
2757	DISCCART	575773.60	4193688.00	107.12	280.10	1.50
2758	DISCCART	575798.60	4193688.00	106.52	280.10	1.50
2759	DISCCART	575823.60	4193688.00	105.81	280.10	1.50
2760	DISCCART	575848.60	4193688.00	105.10	280.10	1.50

2761	DISCCART	575873.60	4193688.00	104.79	280.10	1.50
2762	DISCCART	575898.60	4193688.00	104.36	280.10	1.50
2763	DISCCART	575923.60	4193688.00	104.43	280.10	1.50
2764	DISCCART	575948.60	4193688.00	104.53	280.10	1.50
2765	DISCCART	575973.60	4193688.00	104.53	280.10	1.50
2766	DISCCART	575998.60	4193688.00	105.17	280.10	1.50
2767	DISCCART	576023.60	4193688.00	104.95	280.10	1.50
2768	DISCCART	576048.60	4193688.00	104.70	280.10	1.50
2769	DISCCART	576073.60	4193688.00	104.35	280.10	1.50
2770	DISCCART	575073.60	4193713.00	200.15	222.22	1.50
2771	DISCCART	575098.60	4193713.00	202.14	222.22	1.50
2772	DISCCART	575123.60	4193713.00	195.18	222.22	1.50
2773	DISCCART	575148.60	4193713.00	187.27	222.22	1.50
2774	DISCCART	575173.60	4193713.00	179.26	222.22	1.50
2775	DISCCART	575198.60	4193713.00	174.65	222.22	1.50
2776	DISCCART	575223.60	4193713.00	169.28	222.22	1.50
2777	DISCCART	575248.60	4193713.00	164.64	223.98	1.50
2778	DISCCART	575273.60	4193713.00	158.18	223.98	1.50
2779	DISCCART	575298.60	4193713.00	153.56	256.77	1.50
2780	DISCCART	575323.60	4193713.00	149.38	258.96	1.50
2781	DISCCART	575348.60	4193713.00	149.93	258.97	1.50
2782	DISCCART	575373.60	4193713.00	146.92	259.10	1.50
2783	DISCCART	575398.60	4193713.00	145.13	259.10	1.50
2784	DISCCART	575423.60	4193713.00	144.56	259.10	1.50
2785	DISCCART	575448.60	4193713.00	142.92	259.10	1.50
2786	DISCCART	575473.60	4193713.00	141.37	259.10	1.50
2787	DISCCART	575498.60	4193713.00	142.19	259.10	1.50
2788	DISCCART	575523.60	4193713.00	143.05	259.10	1.50
2789	DISCCART	575548.60	4193713.00	137.52	259.10	1.50
2790	DISCCART	575573.60	4193713.00	128.47	259.10	1.50
2791	DISCCART	575598.60	4193713.00	119.19	274.69	1.50
2792	DISCCART	575623.60	4193713.00	112.78	280.08	1.50
2793	DISCCART	575648.60	4193713.00	110.79	280.10	1.50
2794	DISCCART	575673.60	4193713.00	109.70	280.10	1.50
2795	DISCCART	575698.60	4193713.00	109.29	280.10	1.50
2796	DISCCART	575723.60	4193713.00	108.48	280.10	1.50
2797	DISCCART	575998.60	4193713.00	104.70	280.10	1.50
2798	DISCCART	576023.60	4193713.00	104.12	280.10	1.50
2799	DISCCART	576048.60	4193713.00	103.57	280.10	1.50
2800	DISCCART	576073.60	4193713.00	104.08	280.10	1.50
2801	DISCCART	575073.60	4193738.00	191.44	222.22	1.50
2802	DISCCART	575098.60	4193738.00	199.52	222.22	1.50
2803	DISCCART	575123.60	4193738.00	197.73	222.22	1.50
2804	DISCCART	575148.60	4193738.00	191.71	222.22	1.50
2805	DISCCART	575173.60	4193738.00	185.81	222.22	1.50
2806	DISCCART	575198.60	4193738.00	181.23	222.22	1.50
2807	DISCCART	575223.60	4193738.00	176.07	222.22	1.50
2808	DISCCART	575248.60	4193738.00	171.09	222.22	1.50
2809	DISCCART	575273.60	4193738.00	163.77	222.22	1.50
2810	DISCCART	575298.60	4193738.00	153.63	257.46	1.50
2811	DISCCART	575323.60	4193738.00	146.16	259.10	1.50
2812	DISCCART	575348.60	4193738.00	142.67	259.10	1.50
2813	DISCCART	575373.60	4193738.00	141.60	259.10	1.50
2814	DISCCART	575398.60	4193738.00	139.70	259.10	1.50
2815	DISCCART	575423.60	4193738.00	137.20	259.10	1.50
2816	DISCCART	575448.60	4193738.00	134.52	259.10	1.50
2817	DISCCART	575473.60	4193738.00	132.40	259.10	1.50
2818	DISCCART	575498.60	4193738.00	131.89	259.10	1.50
2819	DISCCART	575523.60	4193738.00	132.80	259.10	1.50
2820	DISCCART	575548.60	4193738.00	131.57	259.10	1.50
2821	DISCCART	575573.60	4193738.00	126.16	259.10	1.50
2822	DISCCART	575598.60	4193738.00	117.96	259.10	1.50
2823	DISCCART	575623.60	4193738.00	111.76	279.52	1.50
2824	DISCCART	576048.60	4193738.00	105.12	280.10	1.50
2825	DISCCART	576073.60	4193738.00	104.39	280.10	1.50
2826	DISCCART	575073.60	4193763.00	180.71	222.22	1.50
2827	DISCCART	575098.60	4193763.00	193.47	222.22	1.50
2828	DISCCART	575123.60	4193763.00	197.86	222.22	1.50
2829	DISCCART	575148.60	4193763.00	195.15	222.22	1.50

2830	DISCCART	575173.60	4193763.00	190.11	222.22	1.50
2831	DISCCART	575198.60	4193763.00	187.01	222.22	1.50
2832	DISCCART	575223.60	4193763.00	182.18	222.22	1.50
2833	DISCCART	575248.60	4193763.00	172.82	222.22	1.50
2834	DISCCART	575273.60	4193763.00	163.14	222.22	1.50
2835	DISCCART	575298.60	4193763.00	155.54	257.46	1.50
2836	DISCCART	575323.60	4193763.00	146.41	259.10	1.50
2837	DISCCART	575348.60	4193763.00	138.00	259.10	1.50
2838	DISCCART	575373.60	4193763.00	133.84	259.10	1.50
2839	DISCCART	575398.60	4193763.00	134.03	259.10	1.50
2840	DISCCART	575423.60	4193763.00	132.91	259.10	1.50
2841	DISCCART	575448.60	4193763.00	130.52	259.10	1.50
2842	DISCCART	575473.60	4193763.00	127.19	259.10	1.50
2843	DISCCART	575498.60	4193763.00	124.42	259.10	1.50
2844	DISCCART	575523.60	4193763.00	122.23	259.10	1.50
2845	DISCCART	575548.60	4193763.00	119.39	259.10	1.50
2846	DISCCART	575573.60	4193763.00	116.87	259.10	1.50
2847	DISCCART	576048.60	4193763.00	105.39	280.10	1.50
2848	DISCCART	576073.60	4193763.00	104.94	280.10	1.50
2849	DISCCART	575073.60	4193788.00	171.38	223.98	1.50
2850	DISCCART	575098.60	4193788.00	182.66	222.22	1.50
2851	DISCCART	575123.60	4193788.00	184.08	222.22	1.50
2852	DISCCART	575148.60	4193788.00	183.08	222.22	1.50
2853	DISCCART	575173.60	4193788.00	178.45	222.22	1.50
2854	DISCCART	575198.60	4193788.00	174.74	222.22	1.50
2855	DISCCART	575223.60	4193788.00	171.48	222.22	1.50
2856	DISCCART	575248.60	4193788.00	165.42	222.22	1.50
2857	DISCCART	575273.60	4193788.00	158.75	256.90	1.50
2858	DISCCART	575298.60	4193788.00	151.77	259.10	1.50
2859	DISCCART	575323.60	4193788.00	144.20	259.10	1.50
2860	DISCCART	575348.60	4193788.00	136.48	259.10	1.50
2861	DISCCART	575373.60	4193788.00	128.46	259.10	1.50
2862	DISCCART	575398.60	4193788.00	125.10	259.10	1.50
2863	DISCCART	575423.60	4193788.00	125.78	259.10	1.50
2864	DISCCART	575448.60	4193788.00	125.58	259.10	1.50
2865	DISCCART	575473.60	4193788.00	123.11	259.10	1.50
2866	DISCCART	575498.60	4193788.00	121.46	259.10	1.50
2867	DISCCART	575523.60	4193788.00	118.29	259.10	1.50
2868	DISCCART	576073.60	4193788.00	105.61	280.10	1.50
2869	DISCCART	575073.60	4193813.00	166.02	223.98	1.50
2870	DISCCART	575098.60	4193813.00	169.86	223.98	1.50
2871	DISCCART	575123.60	4193813.00	170.13	223.98	1.50
2872	DISCCART	575148.60	4193813.00	169.99	222.22	1.50
2873	DISCCART	575173.60	4193813.00	167.66	223.67	1.50
2874	DISCCART	575198.60	4193813.00	161.64	223.98	1.50
2875	DISCCART	575223.60	4193813.00	157.48	257.31	1.50
2876	DISCCART	575248.60	4193813.00	159.27	257.31	1.50
2877	DISCCART	575273.60	4193813.00	157.35	258.80	1.50
2878	DISCCART	575298.60	4193813.00	149.74	259.10	1.50
2879	DISCCART	575323.60	4193813.00	142.35	259.10	1.50
2880	DISCCART	575348.60	4193813.00	136.15	259.10	1.50
2881	DISCCART	575373.60	4193813.00	129.30	259.10	1.50
2882	DISCCART	575398.60	4193813.00	122.95	259.10	1.50
2883	DISCCART	575423.60	4193813.00	121.70	259.10	1.50
2884	DISCCART	575448.60	4193813.00	121.32	259.10	1.50
2885	DISCCART	575473.60	4193813.00	119.12	259.10	1.50
2886	DISCCART	575498.60	4193813.00	117.47	259.10	1.50
2887	DISCCART	575073.60	4193838.00	159.53	224.86	1.50
2888	DISCCART	575098.60	4193838.00	160.32	223.98	1.50
2889	DISCCART	575123.60	4193838.00	159.74	223.98	1.50
2890	DISCCART	575148.60	4193838.00	158.95	223.98	1.50
2891	DISCCART	575173.60	4193838.00	158.10	223.98	1.50
2892	DISCCART	575198.60	4193838.00	153.25	259.10	1.50
2893	DISCCART	575223.60	4193838.00	148.61	259.10	1.50
2894	DISCCART	575248.60	4193838.00	151.09	259.10	1.50
2895	DISCCART	575273.60	4193838.00	153.00	259.10	1.50
2896	DISCCART	575298.60	4193838.00	148.14	259.10	1.50
2897	DISCCART	575323.60	4193838.00	141.05	259.10	1.50
2898	DISCCART	575348.60	4193838.00	134.06	259.10	1.50

2899	DISCCART	575373.60	4193838.00	126.93	259.10	1.50
2900	DISCCART	575398.60	4193838.00	121.55	259.10	1.50
2901	DISCCART	575423.60	4193838.00	119.03	259.10	1.50
2902	DISCCART	575448.60	4193838.00	118.66	259.10	1.50
2903	DISCCART	576073.60	4193838.00	108.54	367.29	1.50
2904	DISCCART	575073.60	4193863.00	153.85	251.25	1.50
2905	DISCCART	575098.60	4193863.00	154.13	257.31	1.50
2906	DISCCART	575123.60	4193863.00	152.25	259.10	1.50
2907	DISCCART	575148.60	4193863.00	150.02	259.10	1.50
2908	DISCCART	575173.60	4193863.00	148.19	259.10	1.50
2909	DISCCART	575198.60	4193863.00	145.48	259.10	1.50
2910	DISCCART	575223.60	4193863.00	142.28	259.10	1.50
2911	DISCCART	575248.60	4193863.00	142.55	259.10	1.50
2912	DISCCART	575273.60	4193863.00	143.39	259.10	1.50
2913	DISCCART	575298.60	4193863.00	143.13	259.10	1.50
2914	DISCCART	575323.60	4193863.00	138.27	259.10	1.50
2915	DISCCART	575348.60	4193863.00	131.40	259.10	1.50
2916	DISCCART	575373.60	4193863.00	124.48	259.10	1.50
2917	DISCCART	575398.60	4193863.00	119.25	259.10	1.50
2918	DISCCART	575423.60	4193863.00	117.39	259.10	1.50
2919	DISCCART	576048.60	4193863.00	111.90	366.80	1.50
2920	DISCCART	576073.60	4193863.00	111.11	367.29	1.50
2921	DISCCART	575073.60	4193888.00	147.16	259.10	1.50
2922	DISCCART	575098.60	4193888.00	146.34	259.10	1.50
2923	DISCCART	575123.60	4193888.00	143.63	259.10	1.50
2924	DISCCART	575148.60	4193888.00	142.85	259.10	1.50
2925	DISCCART	575173.60	4193888.00	140.29	259.10	1.50
2926	DISCCART	575198.60	4193888.00	138.26	259.10	1.50
2927	DISCCART	575223.60	4193888.00	137.43	259.10	1.50
2928	DISCCART	575248.60	4193888.00	136.51	259.10	1.50
2929	DISCCART	575273.60	4193888.00	134.67	259.10	1.50
2930	DISCCART	575298.60	4193888.00	133.51	259.10	1.50
2931	DISCCART	575323.60	4193888.00	132.50	259.10	1.50
2932	DISCCART	575348.60	4193888.00	126.43	259.10	1.50
2933	DISCCART	575373.60	4193888.00	122.53	259.10	1.50
2934	DISCCART	576023.60	4193888.00	115.95	259.10	1.50
2935	DISCCART	576048.60	4193888.00	113.92	367.29	1.50
2936	DISCCART	576073.60	4193888.00	111.31	367.29	1.50
2937	DISCCART	575073.60	4193913.00	139.15	259.10	1.50
2938	DISCCART	575098.60	4193913.00	138.07	259.10	1.50
2939	DISCCART	575123.60	4193913.00	135.62	259.10	1.50
2940	DISCCART	575148.60	4193913.00	134.61	259.10	1.50
2941	DISCCART	575173.60	4193913.00	133.74	259.10	1.50
2942	DISCCART	575198.60	4193913.00	133.02	259.10	1.50
2943	DISCCART	575223.60	4193913.00	132.07	259.10	1.50
2944	DISCCART	575248.60	4193913.00	130.80	259.10	1.50
2945	DISCCART	575273.60	4193913.00	129.60	259.10	1.50
2946	DISCCART	575298.60	4193913.00	126.53	259.10	1.50
2947	DISCCART	575323.60	4193913.00	124.99	259.10	1.50
2948	DISCCART	575998.60	4193913.00	120.20	259.10	1.50
2949	DISCCART	576023.60	4193913.00	119.15	259.10	1.50
2950	DISCCART	576048.60	4193913.00	116.39	367.29	1.50
2951	DISCCART	576073.60	4193913.00	114.36	367.29	1.50
2952	DISCCART	575073.60	4193938.00	133.61	259.10	1.50
2953	DISCCART	575098.60	4193938.00	132.17	259.10	1.50
2954	DISCCART	575123.60	4193938.00	130.64	259.10	1.50
2955	DISCCART	575148.60	4193938.00	129.68	259.10	1.50
2956	DISCCART	575173.60	4193938.00	128.90	259.10	1.50
2957	DISCCART	575198.60	4193938.00	127.97	259.10	1.50
2958	DISCCART	575223.60	4193938.00	126.91	259.10	1.50
2959	DISCCART	575248.60	4193938.00	126.10	259.10	1.50
2960	DISCCART	575273.60	4193938.00	124.76	259.10	1.50
2961	DISCCART	575973.60	4193938.00	126.42	259.10	1.50
2962	DISCCART	575998.60	4193938.00	123.43	259.10	1.50
2963	DISCCART	576023.60	4193938.00	122.98	259.10	1.50
2964	DISCCART	576048.60	4193938.00	118.51	367.29	1.50
2965	DISCCART	576073.60	4193938.00	118.15	367.29	1.50
2966	DISCCART	575073.60	4193963.00	132.42	259.10	1.50
2967	DISCCART	575098.60	4193963.00	130.97	259.10	1.50

2968	DISCCART	575123.60	4193963.00	129.59	259.10	1.50
2969	DISCCART	575148.60	4193963.00	128.04	259.10	1.50
2970	DISCCART	575173.60	4193963.00	126.20	259.10	1.50
2971	DISCCART	575198.60	4193963.00	124.87	259.10	1.50
2972	DISCCART	575223.60	4193963.00	123.85	259.10	1.50
2973	DISCCART	575248.60	4193963.00	122.77	259.10	1.50
2974	DISCCART	575973.60	4193963.00	128.38	259.10	1.50
2975	DISCCART	575998.60	4193963.00	126.56	259.10	1.50
2976	DISCCART	576023.60	4193963.00	125.54	259.10	1.50
2977	DISCCART	576048.60	4193963.00	121.90	366.80	1.50
2978	DISCCART	576073.60	4193963.00	120.61	367.29	1.50
2979	DISCCART	575073.60	4193988.00	131.70	305.44	1.50
2980	DISCCART	575098.60	4193988.00	130.10	259.10	1.50
2981	DISCCART	575123.60	4193988.00	128.62	259.10	1.50
2982	DISCCART	575148.60	4193988.00	127.14	259.10	1.50
2983	DISCCART	575173.60	4193988.00	125.73	259.10	1.50
2984	DISCCART	575198.60	4193988.00	124.44	259.10	1.50
2985	DISCCART	575223.60	4193988.00	123.45	259.10	1.50
2986	DISCCART	575248.60	4193988.00	122.68	259.10	1.50
2987	DISCCART	575948.60	4193988.00	137.33	259.10	1.50
2988	DISCCART	575973.60	4193988.00	136.20	259.10	1.50
2989	DISCCART	575998.60	4193988.00	134.40	259.10	1.50
2990	DISCCART	576023.60	4193988.00	131.69	259.10	1.50
2991	DISCCART	576048.60	4193988.00	129.00	259.10	1.50
2992	DISCCART	576073.60	4193988.00	125.85	259.10	1.50
2993	DISCCART	575073.60	4194013.00	131.85	305.50	1.50
2994	DISCCART	575098.60	4194013.00	130.54	305.44	1.50
2995	DISCCART	575123.60	4194013.00	129.52	259.10	1.50
2996	DISCCART	575148.60	4194013.00	127.85	259.10	1.50
2997	DISCCART	575173.60	4194013.00	126.40	259.10	1.50
2998	DISCCART	575198.60	4194013.00	125.05	259.10	1.50
2999	DISCCART	575223.60	4194013.00	123.64	259.10	1.50
3000	DISCCART	575248.60	4194013.00	122.22	259.10	1.50
3001	DISCCART	575948.60	4194013.00	138.88	259.10	1.50
3002	DISCCART	575973.60	4194013.00	138.16	259.10	1.50
3003	DISCCART	575998.60	4194013.00	137.52	259.10	1.50
3004	DISCCART	576023.60	4194013.00	136.90	259.10	1.50
3005	DISCCART	576048.60	4194013.00	136.16	259.10	1.50
3006	DISCCART	576073.60	4194013.00	135.03	259.10	1.50
3007	DISCCART	575073.60	4194038.00	127.79	305.50	1.50
3008	DISCCART	575098.60	4194038.00	127.95	305.50	1.50
3009	DISCCART	575123.60	4194038.00	127.93	305.50	1.50
3010	DISCCART	575148.60	4194038.00	127.53	305.14	1.50
3011	DISCCART	575173.60	4194038.00	126.43	259.10	1.50
3012	DISCCART	575198.60	4194038.00	125.20	259.10	1.50
3013	DISCCART	575223.60	4194038.00	123.00	259.10	1.50
3014	DISCCART	575948.60	4194038.00	138.88	259.10	1.50
3015	DISCCART	575973.60	4194038.00	138.14	259.10	1.50
3016	DISCCART	575998.60	4194038.00	137.37	259.10	1.50
3017	DISCCART	576023.60	4194038.00	136.59	259.10	1.50
3018	DISCCART	576048.60	4194038.00	135.87	259.10	1.50
3019	DISCCART	576073.60	4194038.00	135.08	259.10	1.50
3020	DISCCART	575073.60	4194063.00	126.02	305.50	1.50
3021	DISCCART	575098.60	4194063.00	125.93	305.50	1.50
3022	DISCCART	575123.60	4194063.00	126.08	305.50	1.50
3023	DISCCART	575148.60	4194063.00	124.59	305.50	1.50
3024	DISCCART	575173.60	4194063.00	120.59	305.50	1.50
3025	DISCCART	575198.60	4194063.00	119.15	305.50	1.50
3026	DISCCART	575223.60	4194063.00	119.65	305.50	1.50
3027	DISCCART	575948.60	4194063.00	138.29	259.10	1.50
3028	DISCCART	575973.60	4194063.00	137.54	259.10	1.50
3029	DISCCART	575998.60	4194063.00	136.78	259.10	1.50
3030	DISCCART	576023.60	4194063.00	136.20	259.10	1.50
3031	DISCCART	576048.60	4194063.00	135.66	259.10	1.50
3032	DISCCART	576073.60	4194063.00	135.10	259.10	1.50
3033	DISCCART	575073.60	4194088.00	128.26	305.50	1.50
3034	DISCCART	575098.60	4194088.00	124.74	305.50	1.50
3035	DISCCART	575123.60	4194088.00	120.95	305.50	1.50
3036	DISCCART	575148.60	4194088.00	119.72	305.50	1.50

3037	DISCCART	575173.60	4194088.00	119.14	305.50	1.50
3038	DISCCART	575198.60	4194088.00	118.51	360.99	1.50
3039	DISCCART	575223.60	4194088.00	120.08	305.50	1.50
3040	DISCCART	575773.60	4194088.00	143.25	259.10	1.50
3041	DISCCART	575798.60	4194088.00	145.03	259.10	1.50
3042	DISCCART	575823.60	4194088.00	146.09	259.10	1.50
3043	DISCCART	575848.60	4194088.00	147.08	259.10	1.50
3044	DISCCART	575873.60	4194088.00	147.28	259.10	1.50
3045	DISCCART	575898.60	4194088.00	147.05	259.10	1.50
3046	DISCCART	575923.60	4194088.00	146.58	259.10	1.50
3047	DISCCART	575948.60	4194088.00	145.53	259.10	1.50
3048	DISCCART	575973.60	4194088.00	143.76	259.10	1.50
3049	DISCCART	575998.60	4194088.00	141.41	259.10	1.50
3050	DISCCART	576023.60	4194088.00	139.34	259.10	1.50
3051	DISCCART	576048.60	4194088.00	137.25	259.10	1.50
3052	DISCCART	576073.60	4194088.00	135.13	259.10	1.50
3053	DISCCART	575073.60	4194113.00	126.16	305.82	1.50
3054	DISCCART	575098.60	4194113.00	122.86	306.48	1.50
3055	DISCCART	575123.60	4194113.00	120.48	360.52	1.50
3056	DISCCART	575148.60	4194113.00	119.65	360.99	1.50
3057	DISCCART	575173.60	4194113.00	119.46	413.72	1.50
3058	DISCCART	575198.60	4194113.00	119.41	413.72	1.50
3059	DISCCART	575223.60	4194113.00	121.14	360.99	1.50
3060	DISCCART	575648.60	4194113.00	140.63	259.10	1.50
3061	DISCCART	575673.60	4194113.00	142.62	259.10	1.50
3062	DISCCART	575698.60	4194113.00	145.94	259.10	1.50
3063	DISCCART	575723.60	4194113.00	149.29	259.10	1.50
3064	DISCCART	575748.60	4194113.00	152.00	259.10	1.50
3065	DISCCART	575773.60	4194113.00	154.50	259.10	1.50
3066	DISCCART	575798.60	4194113.00	156.74	259.10	1.50
3067	DISCCART	575823.60	4194113.00	158.40	259.10	1.50
3068	DISCCART	575848.60	4194113.00	159.22	259.10	1.50
3069	DISCCART	575873.60	4194113.00	159.97	259.10	1.50
3070	DISCCART	575898.60	4194113.00	159.63	259.10	1.50
3071	DISCCART	575923.60	4194113.00	158.73	259.10	1.50
3072	DISCCART	575948.60	4194113.00	157.74	259.10	1.50
3073	DISCCART	575973.60	4194113.00	152.92	259.10	1.50
3074	DISCCART	575998.60	4194113.00	151.11	259.10	1.50
3075	DISCCART	576023.60	4194113.00	151.47	259.10	1.50
3076	DISCCART	576048.60	4194113.00	148.13	259.10	1.50
3077	DISCCART	576073.60	4194113.00	144.07	259.10	1.50
3078	DISCCART	575073.60	4194138.00	121.33	360.99	1.50
3079	DISCCART	575098.60	4194138.00	121.01	413.72	1.50
3080	DISCCART	575123.60	4194138.00	120.35	413.72	1.50
3081	DISCCART	575148.60	4194138.00	120.26	413.72	1.50
3082	DISCCART	575173.60	4194138.00	120.25	413.72	1.50
3083	DISCCART	575198.60	4194138.00	120.59	413.72	1.50
3084	DISCCART	575523.60	4194138.00	137.47	259.10	1.50
3085	DISCCART	575548.60	4194138.00	137.64	259.10	1.50
3086	DISCCART	575573.60	4194138.00	139.53	259.10	1.50
3087	DISCCART	575598.60	4194138.00	141.41	259.10	1.50
3088	DISCCART	575623.60	4194138.00	141.45	259.10	1.50
3089	DISCCART	575648.60	4194138.00	142.95	259.10	1.50
3090	DISCCART	575673.60	4194138.00	146.78	259.10	1.50
3091	DISCCART	575698.60	4194138.00	153.31	259.10	1.50
3092	DISCCART	575723.60	4194138.00	158.80	259.10	1.50
3093	DISCCART	575748.60	4194138.00	162.70	259.10	1.50
3094	DISCCART	575773.60	4194138.00	165.96	259.10	1.50
3095	DISCCART	575798.60	4194138.00	168.35	259.10	1.50
3096	DISCCART	575823.60	4194138.00	170.54	259.10	1.50
3097	DISCCART	575848.60	4194138.00	171.82	259.10	1.50
3098	DISCCART	575873.60	4194138.00	172.16	259.10	1.50
3099	DISCCART	575898.60	4194138.00	171.95	259.10	1.50
3100	DISCCART	575923.60	4194138.00	171.04	259.10	1.50
3101	DISCCART	575948.60	4194138.00	168.18	259.10	1.50
3102	DISCCART	575973.60	4194138.00	158.37	259.10	1.50
3103	DISCCART	575998.60	4194138.00	162.09	259.10	1.50
3104	DISCCART	576023.60	4194138.00	159.78	259.10	1.50
3105	DISCCART	576048.60	4194138.00	155.92	259.10	1.50

3106	DISCCART	576073.60	4194138.00	153.38	259.10	1.50
3107	DISCCART	575073.60	4194163.00	121.51	413.72	1.50
3108	DISCCART	575098.60	4194163.00	121.28	413.72	1.50
3109	DISCCART	575123.60	4194163.00	120.98	413.72	1.50
3110	DISCCART	575148.60	4194163.00	120.78	413.72	1.50
3111	DISCCART	575173.60	4194163.00	120.91	413.72	1.50
3112	DISCCART	575198.60	4194163.00	119.06	413.72	1.50
3113	DISCCART	575223.60	4194163.00	120.78	413.72	1.50
3114	DISCCART	575248.60	4194163.00	122.89	413.72	1.50
3115	DISCCART	575273.60	4194163.00	125.04	413.72	1.50
3116	DISCCART	575298.60	4194163.00	126.14	413.72	1.50
3117	DISCCART	575323.60	4194163.00	126.86	360.99	1.50
3118	DISCCART	575348.60	4194163.00	127.42	360.99	1.50
3119	DISCCART	575373.60	4194163.00	127.75	360.99	1.50
3120	DISCCART	575398.60	4194163.00	127.84	360.99	1.50
3121	DISCCART	575423.60	4194163.00	127.67	360.99	1.50
3122	DISCCART	575448.60	4194163.00	127.57	413.72	1.50
3123	DISCCART	575473.60	4194163.00	127.17	413.72	1.50
3124	DISCCART	575498.60	4194163.00	130.08	259.10	1.50
3125	DISCCART	575523.60	4194163.00	136.38	259.10	1.50
3126	DISCCART	575548.60	4194163.00	137.33	259.10	1.50
3127	DISCCART	575573.60	4194163.00	142.31	259.10	1.50
3128	DISCCART	575598.60	4194163.00	146.38	259.10	1.50
3129	DISCCART	575623.60	4194163.00	147.68	259.10	1.50
3130	DISCCART	575648.60	4194163.00	149.40	259.10	1.50
3131	DISCCART	575673.60	4194163.00	149.73	259.10	1.50
3132	DISCCART	575698.60	4194163.00	150.91	259.10	1.50
3133	DISCCART	575723.60	4194163.00	159.69	259.10	1.50
3134	DISCCART	575748.60	4194163.00	167.83	259.10	1.50
3135	DISCCART	575773.60	4194163.00	175.78	259.10	1.50
3136	DISCCART	575798.60	4194163.00	180.05	259.10	1.50
3137	DISCCART	575823.60	4194163.00	181.89	259.10	1.50
3138	DISCCART	575848.60	4194163.00	183.52	259.10	1.50
3139	DISCCART	575873.60	4194163.00	184.07	259.10	1.50
3140	DISCCART	575898.60	4194163.00	183.64	259.10	1.50
3141	DISCCART	575923.60	4194163.00	179.03	259.10	1.50
3142	DISCCART	575948.60	4194163.00	170.06	259.10	1.50
3143	DISCCART	575973.60	4194163.00	165.32	259.10	1.50
3144	DISCCART	575998.60	4194163.00	168.58	259.10	1.50
3145	DISCCART	576023.60	4194163.00	165.53	259.10	1.50
3146	DISCCART	576048.60	4194163.00	161.82	259.10	1.50
3147	DISCCART	576073.60	4194163.00	159.74	259.10	1.50
3148	DISCCART	575073.60	4194188.00	122.13	413.72	1.50
3149	DISCCART	575098.60	4194188.00	121.89	413.72	1.50
3150	DISCCART	575123.60	4194188.00	121.43	413.72	1.50
3151	DISCCART	575148.60	4194188.00	121.17	413.72	1.50
3152	DISCCART	575173.60	4194188.00	120.15	413.72	1.50
3153	DISCCART	575198.60	4194188.00	118.35	413.72	1.50
3154	DISCCART	575223.60	4194188.00	119.74	413.72	1.50
3155	DISCCART	575248.60	4194188.00	120.79	413.72	1.50
3156	DISCCART	575273.60	4194188.00	121.68	413.72	1.50
3157	DISCCART	575298.60	4194188.00	122.72	413.72	1.50
3158	DISCCART	575323.60	4194188.00	123.54	413.72	1.50
3159	DISCCART	575348.60	4194188.00	124.16	413.72	1.50
3160	DISCCART	575373.60	4194188.00	124.77	413.72	1.50
3161	DISCCART	575398.60	4194188.00	125.47	413.72	1.50
3162	DISCCART	575423.60	4194188.00	126.17	413.72	1.50
3163	DISCCART	575448.60	4194188.00	126.78	413.72	1.50
3164	DISCCART	575473.60	4194188.00	126.93	413.72	1.50
3165	DISCCART	575498.60	4194188.00	129.75	413.72	1.50
3166	DISCCART	575523.60	4194188.00	136.19	259.10	1.50
3167	DISCCART	575548.60	4194188.00	140.07	259.10	1.50
3168	DISCCART	575573.60	4194188.00	145.02	259.10	1.50
3169	DISCCART	575598.60	4194188.00	151.01	259.10	1.50
3170	DISCCART	575623.60	4194188.00	153.02	259.10	1.50
3171	DISCCART	575648.60	4194188.00	153.01	259.10	1.50
3172	DISCCART	575673.60	4194188.00	150.34	259.10	1.50
3173	DISCCART	575698.60	4194188.00	149.81	259.10	1.50
3174	DISCCART	575723.60	4194188.00	155.06	259.10	1.50

3175	DISCCART	575748.60	4194188.00	164.44	259.10	1.50
3176	DISCCART	575773.60	4194188.00	175.24	259.10	1.50
3177	DISCCART	575798.60	4194188.00	186.29	259.10	1.50
3178	DISCCART	575823.60	4194188.00	193.24	259.10	1.50
3179	DISCCART	575848.60	4194188.00	195.32	259.10	1.50
3180	DISCCART	575873.60	4194188.00	194.78	259.10	1.50
3181	DISCCART	575898.60	4194188.00	188.81	259.10	1.50
3182	DISCCART	575923.60	4194188.00	180.69	259.10	1.50
3183	DISCCART	575948.60	4194188.00	175.94	259.10	1.50
3184	DISCCART	575973.60	4194188.00	174.91	259.10	1.50
3185	DISCCART	575998.60	4194188.00	176.16	259.10	1.50
3186	DISCCART	576023.60	4194188.00	173.61	259.10	1.50
3187	DISCCART	576048.60	4194188.00	170.30	259.10	1.50
3188	DISCCART	576073.60	4194188.00	167.90	259.10	1.50
3189	DISCCART	575073.60	4194213.00	122.72	413.72	1.50
3190	DISCCART	575098.60	4194213.00	122.56	413.72	1.50
3191	DISCCART	575123.60	4194213.00	121.81	413.72	1.50
3192	DISCCART	575148.60	4194213.00	120.99	413.72	1.50
3193	DISCCART	575173.60	4194213.00	119.19	413.72	1.50
3194	DISCCART	575198.60	4194213.00	119.12	413.72	1.50
3195	DISCCART	575223.60	4194213.00	120.94	413.72	1.50
3196	DISCCART	575248.60	4194213.00	121.39	413.72	1.50
3197	DISCCART	575273.60	4194213.00	121.64	413.72	1.50
3198	DISCCART	575298.60	4194213.00	122.51	413.72	1.50
3199	DISCCART	575323.60	4194213.00	124.47	413.72	1.50
3200	DISCCART	575348.60	4194213.00	125.76	413.72	1.50
3201	DISCCART	575373.60	4194213.00	126.83	413.72	1.50
3202	DISCCART	575398.60	4194213.00	127.41	413.72	1.50
3203	DISCCART	575423.60	4194213.00	128.09	413.72	1.50
3204	DISCCART	575448.60	4194213.00	127.46	413.72	1.50
3205	DISCCART	575473.60	4194213.00	128.02	413.72	1.50
3206	DISCCART	575498.60	4194213.00	131.91	413.72	1.50
3207	DISCCART	575523.60	4194213.00	137.84	259.10	1.50
3208	DISCCART	575548.60	4194213.00	145.07	259.10	1.50
3209	DISCCART	575573.60	4194213.00	148.72	259.10	1.50
3210	DISCCART	575598.60	4194213.00	154.46	259.10	1.50
3211	DISCCART	575623.60	4194213.00	161.52	259.10	1.50
3212	DISCCART	575648.60	4194213.00	164.75	259.10	1.50
3213	DISCCART	575673.60	4194213.00	159.88	259.10	1.50
3214	DISCCART	575698.60	4194213.00	153.58	259.10	1.50
3215	DISCCART	575723.60	4194213.00	154.41	259.10	1.50
3216	DISCCART	575748.60	4194213.00	161.87	259.10	1.50
3217	DISCCART	575773.60	4194213.00	173.88	259.10	1.50
3218	DISCCART	575798.60	4194213.00	185.95	259.10	1.50
3219	DISCCART	575823.60	4194213.00	197.90	259.10	1.50
3220	DISCCART	575848.60	4194213.00	202.08	259.10	1.50
3221	DISCCART	575873.60	4194213.00	196.41	259.10	1.50
3222	DISCCART	575898.60	4194213.00	190.07	259.10	1.50
3223	DISCCART	575923.60	4194213.00	185.19	259.10	1.50
3224	DISCCART	575948.60	4194213.00	183.49	259.10	1.50
3225	DISCCART	575973.60	4194213.00	182.56	259.10	1.50
3226	DISCCART	575998.60	4194213.00	181.10	259.10	1.50
3227	DISCCART	576023.60	4194213.00	179.97	259.10	1.50
3228	DISCCART	576048.60	4194213.00	177.79	259.10	1.50
3229	DISCCART	576073.60	4194213.00	173.28	259.10	1.50
3230	DISCCART	575073.60	4194238.00	123.45	413.72	1.50
3231	DISCCART	575098.60	4194238.00	123.07	413.72	1.50
3232	DISCCART	575123.60	4194238.00	122.34	413.72	1.50
3233	DISCCART	575148.60	4194238.00	120.08	413.72	1.50
3234	DISCCART	575173.60	4194238.00	120.88	413.72	1.50
3235	DISCCART	575198.60	4194238.00	120.79	413.72	1.50
3236	DISCCART	575223.60	4194238.00	121.70	413.72	1.50
3237	DISCCART	575248.60	4194238.00	122.07	413.72	1.50
3238	DISCCART	575273.60	4194238.00	123.04	413.72	1.50
3239	DISCCART	575298.60	4194238.00	124.70	413.72	1.50
3240	DISCCART	575323.60	4194238.00	125.09	413.72	1.50
3241	DISCCART	575348.60	4194238.00	126.70	413.72	1.50
3242	DISCCART	575373.60	4194238.00	128.03	413.72	1.50
3243	DISCCART	575398.60	4194238.00	128.17	413.72	1.50

3244	DISCCART	575423.60	4194238.00	129.18	413.72	1.50
3245	DISCCART	575448.60	4194238.00	129.68	413.72	1.50
3246	DISCCART	575473.60	4194238.00	130.47	413.72	1.50
3247	DISCCART	575498.60	4194238.00	133.08	413.72	1.50
3248	DISCCART	575523.60	4194238.00	138.08	259.10	1.50
3249	DISCCART	575548.60	4194238.00	144.44	259.10	1.50
3250	DISCCART	575573.60	4194238.00	149.78	259.10	1.50
3251	DISCCART	575598.60	4194238.00	155.69	259.10	1.50
3252	DISCCART	575623.60	4194238.00	166.89	259.10	1.50
3253	DISCCART	575648.60	4194238.00	168.46	259.10	1.50
3254	DISCCART	575673.60	4194238.00	168.80	259.10	1.50
3255	DISCCART	575698.60	4194238.00	167.75	259.10	1.50
3256	DISCCART	575723.60	4194238.00	164.16	259.10	1.50
3257	DISCCART	575748.60	4194238.00	167.60	259.10	1.50
3258	DISCCART	575773.60	4194238.00	171.67	259.10	1.50
3259	DISCCART	575798.60	4194238.00	183.69	259.10	1.50
3260	DISCCART	575823.60	4194238.00	194.89	259.10	1.50
3261	DISCCART	575848.60	4194238.00	201.32	259.10	1.50
3262	DISCCART	575873.60	4194238.00	198.06	259.10	1.50
3263	DISCCART	575898.60	4194238.00	190.71	259.10	1.50
3264	DISCCART	575923.60	4194238.00	190.29	259.10	1.50
3265	DISCCART	575948.60	4194238.00	189.36	259.10	1.50
3266	DISCCART	575973.60	4194238.00	186.18	259.10	1.50
3267	DISCCART	575998.60	4194238.00	183.06	259.10	1.50
3268	DISCCART	576023.60	4194238.00	182.47	259.10	1.50
3269	DISCCART	576048.60	4194238.00	177.40	259.10	1.50
3270	DISCCART	576073.60	4194238.00	168.84	259.10	1.50
3271	DISCCART	575878.80	4193797.00	130.35	259.10	1.50
3272	DISCCART	575888.80	4193797.00	130.23	259.10	1.50
3273	DISCCART	575898.80	4193797.00	129.40	259.10	1.50
3274	DISCCART	575878.80	4193807.00	131.20	259.10	1.50
3275	DISCCART	575888.80	4193807.00	131.22	259.10	1.50
3276	DISCCART	575898.80	4193807.00	131.13	259.10	1.50
3277	DISCCART	575908.80	4193807.00	130.97	259.10	1.50
3278	DISCCART	575918.80	4193807.00	130.90	259.10	1.50
3279	DISCCART	575928.80	4193807.00	130.18	259.10	1.50
3280	DISCCART	575868.80	4193817.00	131.51	259.10	1.50
3281	DISCCART	575878.80	4193817.00	131.28	259.10	1.50
3282	DISCCART	575888.80	4193817.00	131.20	259.10	1.50
3283	DISCCART	575898.80	4193817.00	131.31	259.10	1.50
3284	DISCCART	575908.80	4193817.00	131.37	259.10	1.50
3285	DISCCART	575918.80	4193817.00	131.33	259.10	1.50
3286	DISCCART	575928.80	4193817.00	130.75	259.10	1.50
3287	DISCCART	575938.80	4193817.00	130.23	259.10	1.50
3288	DISCCART	575948.80	4193817.00	130.36	259.10	1.50
3289	DISCCART	575958.80	4193817.00	130.45	259.10	1.50
3290	DISCCART	575898.80	4193827.00	131.42	259.10	1.50
3291	DISCCART	575908.80	4193827.00	131.30	259.10	1.50
3292	DISCCART	575918.80	4193827.00	131.20	259.10	1.50
3293	DISCCART	575928.80	4193827.00	130.70	259.10	1.50
3294	DISCCART	575938.80	4193827.00	130.33	259.10	1.50
3295	DISCCART	575948.80	4193827.00	130.57	259.10	1.50
3296	DISCCART	575958.80	4193827.00	130.78	259.10	1.50
3297	DISCCART	575918.80	4193837.00	131.48	259.10	1.50
3298	DISCCART	575928.80	4193837.00	130.89	259.10	1.50
3299	DISCCART	575938.80	4193837.00	130.69	259.10	1.50
3300	DISCCART	575948.80	4193837.00	130.71	259.10	1.50
3301	DISCCART	575958.80	4193837.00	130.66	259.10	1.50
3302	DISCCART	575918.80	4193847.00	133.10	259.10	1.50
3303	DISCCART	575928.80	4193847.00	131.34	259.10	1.50
3304	DISCCART	575938.80	4193847.00	130.87	259.10	1.50
3305	DISCCART	575948.80	4193847.00	130.69	259.10	1.50
3306	DISCCART	575958.80	4193847.00	130.36	259.10	1.50
3307	DISCCART	575898.80	4193857.00	137.54	259.10	1.50
3308	DISCCART	575908.80	4193857.00	137.24	259.10	1.50
3309	DISCCART	575948.80	4193857.00	130.43	259.10	1.50
3310	DISCCART	575868.80	4193867.00	137.44	259.10	1.50
3311	DISCCART	575878.80	4193867.00	137.58	259.10	1.50
3312	DISCCART	575888.80	4193867.00	137.69	259.10	1.50

3313	DISCCART	575898.80	4193867.00	137.71	259.10	1.50
3314	DISCCART	575908.80	4193867.00	137.71	259.10	1.50
3315	DISCCART	575848.80	4193877.00	137.45	259.10	1.50
3316	DISCCART	575858.80	4193877.00	137.57	259.10	1.50
3317	DISCCART	575868.80	4193877.00	137.67	259.10	1.50
3318	DISCCART	575878.80	4193877.00	137.73	259.10	1.50
3319	DISCCART	575888.80	4193877.00	137.74	259.10	1.50
3320	DISCCART	575898.80	4193877.00	137.72	259.10	1.50
3321	DISCCART	575908.80	4193877.00	137.69	259.10	1.50
3322	DISCCART	575848.80	4193887.00	137.59	259.10	1.50
3323	DISCCART	575858.80	4193887.00	137.70	259.10	1.50
3324	DISCCART	575868.80	4193887.00	137.73	259.10	1.50
3325	DISCCART	575878.80	4193887.00	137.78	259.10	1.50
3326	DISCCART	575888.80	4193887.00	137.77	259.10	1.50
3327	DISCCART	575898.80	4193887.00	137.74	259.10	1.50
3328	DISCCART	575908.80	4193887.00	137.71	259.10	1.50
3329	DISCCART	575918.80	4193887.00	136.22	259.10	1.50
3330	DISCCART	575858.80	4193897.00	137.77	259.10	1.50
3331	DISCCART	575868.80	4193897.00	137.82	259.10	1.50
3332	DISCCART	575878.80	4193897.00	137.93	259.10	1.50
3333	DISCCART	575888.80	4193897.00	137.92	259.10	1.50
3334	DISCCART	575898.80	4193897.00	137.89	259.10	1.50
3335	DISCCART	575908.80	4193897.00	137.85	259.10	1.50
3336	DISCCART	575918.80	4193897.00	136.71	259.10	1.50
3337	DISCCART	575858.80	4193907.00	137.98	259.10	1.50
3338	DISCCART	575868.80	4193907.00	138.18	259.10	1.50
3339	DISCCART	575878.80	4193907.00	138.43	259.10	1.50
3340	DISCCART	575888.80	4193907.00	138.46	259.10	1.50
3341	DISCCART	575898.80	4193907.00	138.46	259.10	1.50
3342	DISCCART	575908.80	4193907.00	138.39	259.10	1.50
3343	DISCCART	575918.80	4193907.00	137.34	259.10	1.50
3344	DISCCART	575818.80	4193917.00	137.61	259.10	1.50
3345	DISCCART	575828.80	4193917.00	138.29	259.10	1.50
3346	DISCCART	575858.80	4193917.00	138.70	259.10	1.50
3347	DISCCART	575868.80	4193917.00	138.91	259.10	1.50
3348	DISCCART	575878.80	4193917.00	139.09	259.10	1.50
3349	DISCCART	575888.80	4193917.00	139.12	259.10	1.50
3350	DISCCART	575798.80	4193927.00	137.91	259.10	1.50
3351	DISCCART	575808.80	4193927.00	137.90	259.10	1.50
3352	DISCCART	575818.80	4193927.00	138.13	259.10	1.50
3353	DISCCART	575828.80	4193927.00	138.67	259.10	1.50
3354	DISCCART	575838.80	4193927.00	139.13	259.10	1.50
3355	DISCCART	575798.80	4193937.00	139.15	259.10	1.50
3356	DISCCART	575808.80	4193937.00	138.82	259.10	1.50
3357	DISCCART	575818.80	4193937.00	138.81	259.10	1.50
3358	DISCCART	575828.80	4193937.00	139.22	259.10	1.50
3359	DISCCART	575838.80	4193937.00	139.52	259.10	1.50
3360	DISCCART	575798.80	4193947.00	139.96	259.10	1.50
3361	DISCCART	575808.80	4193947.00	139.87	259.10	1.50
3362	DISCCART	575818.80	4193947.00	140.11	259.10	1.50
3363	DISCCART	575828.80	4193947.00	140.67	259.10	1.50
3364	DISCCART	575838.80	4193947.00	140.56	259.10	1.50
3365	DISCCART	575798.80	4193957.00	142.35	259.10	1.50
3366						

1 ** AERMAP - VERSION 18081
 2 **
 3 ** Project: EBMUD_LAFAYETTE_MPI_WORKER
 4 **
 5 ** A total of 1 NED files were used
 6 ** A total of 309 receptors were processed
 7 ** No user-specified DOMAIN; all available data used
 8 ** ANCHORXY 0.00 0.00 0.00 0.00 10 3
 9 ** TERRHGT5 EXTRACT

10

11 RE ELEVUNIT METERS

12	DISCCART	575390.40	4194045.00	118.35	259.10	1.50
13	DISCCART	575410.40	4194045.00	118.51	259.10	1.50
14	DISCCART	575430.10	4194042.00	118.48	259.10	1.50
15	DISCCART	575449.80	4194038.00	118.29	259.10	1.50
16	DISCCART	575469.40	4194034.00	117.92	259.10	1.50
17	DISCCART	575489.00	4194030.00	118.20	259.10	1.50
18	DISCCART	575508.60	4194026.00	118.70	259.10	1.50
19	DISCCART	575528.30	4194023.00	119.41	259.10	1.50
20	DISCCART	575547.80	4194019.00	120.49	259.10	1.50
21	DISCCART	575567.40	4194015.00	121.37	259.10	1.50
22	DISCCART	575587.10	4194011.00	122.32	259.10	1.50
23	DISCCART	575606.70	4194007.00	122.86	259.10	1.50
24	DISCCART	575626.30	4194003.00	123.52	259.10	1.50
25	DISCCART	575643.20	4194012.00	130.15	259.10	1.50
26	DISCCART	575659.40	4194024.00	133.15	259.10	1.50
27	DISCCART	575676.30	4194024.00	137.18	259.10	1.50
28	DISCCART	575693.90	4194014.00	143.93	259.10	1.50
29	DISCCART	575711.50	4194005.00	147.47	259.10	1.50
30	DISCCART	575729.10	4193995.00	150.58	259.10	1.50
31	DISCCART	575747.90	4193989.00	148.32	259.10	1.50
32	DISCCART	575767.60	4193986.00	142.06	259.10	1.50
33	DISCCART	575787.40	4193983.00	142.93	259.10	1.50
34	DISCCART	575807.00	4193980.00	149.08	259.10	1.50
35	DISCCART	575794.80	4193964.00	144.69	259.10	1.50
36	DISCCART	575788.20	4193946.00	139.86	259.10	1.50
37	DISCCART	575795.30	4193928.00	137.92	259.10	1.50
38	DISCCART	575791.60	4193911.00	133.85	259.10	1.50
39	DISCCART	575778.40	4193896.00	126.29	259.10	1.50
40	DISCCART	575777.70	4193877.00	123.31	259.10	1.50
41	DISCCART	575787.60	4193860.00	122.99	259.10	1.50
42	DISCCART	575797.60	4193843.00	122.69	259.10	1.50
43	DISCCART	575798.30	4193823.00	119.58	259.10	1.50
44	DISCCART	575810.80	4193810.00	121.49	259.10	1.50
45	DISCCART	575828.30	4193800.00	121.92	259.10	1.50
46	DISCCART	575845.80	4193791.00	121.01	259.10	1.50
47	DISCCART	575863.40	4193781.00	122.44	259.10	1.50
48	DISCCART	575866.40	4193765.00	118.59	259.10	1.50
49	DISCCART	575861.40	4193746.00	113.89	279.52	1.50
50	DISCCART	575852.70	4193731.00	108.98	280.10	1.50
51	DISCCART	575832.70	4193731.00	108.73	280.10	1.50
52	DISCCART	575812.80	4193733.00	109.26	280.10	1.50
53	DISCCART	575792.90	4193735.00	109.74	280.10	1.50
54	DISCCART	575773.10	4193738.00	109.67	280.10	1.50
55	DISCCART	575753.40	4193742.00	109.65	280.10	1.50
56	DISCCART	575733.80	4193745.00	109.71	280.10	1.50
57	DISCCART	575714.50	4193750.00	107.10	280.10	1.50
58	DISCCART	575695.30	4193756.00	109.40	280.10	1.50
59	DISCCART	575676.10	4193762.00	109.81	279.52	1.50
60	DISCCART	575657.30	4193769.00	109.85	279.52	1.50
61	DISCCART	575638.80	4193776.00	110.28	279.52	1.50
62	DISCCART	575620.50	4193784.00	110.68	274.88	1.50
63	DISCCART	575602.50	4193793.00	111.47	274.69	1.50
64	DISCCART	575585.00	4193803.00	111.90	259.10	1.50
65	DISCCART	575567.70	4193812.00	112.89	259.10	1.50
66	DISCCART	575550.60	4193823.00	113.56	259.10	1.50
67	DISCCART	575533.40	4193833.00	114.11	259.10	1.50
68	DISCCART	575516.40	4193844.00	114.60	259.10	1.50
69	DISCCART	575499.40	4193854.00	114.91	259.10	1.50

70	DISCCART	575482.50	4193865.00	115.37	259.10	1.50
71	DISCCART	575465.60	4193876.00	115.79	259.10	1.50
72	DISCCART	575448.60	4193886.00	116.30	259.10	1.50
73	DISCCART	575431.90	4193897.00	116.72	259.10	1.50
74	DISCCART	575416.10	4193909.00	115.70	259.10	1.50
75	DISCCART	575400.30	4193922.00	115.93	259.10	1.50
76	DISCCART	575384.40	4193934.00	116.72	259.10	1.50
77	DISCCART	575368.40	4193946.00	117.09	259.10	1.50
78	DISCCART	575351.80	4193957.00	117.63	259.10	1.50
79	DISCCART	575335.10	4193968.00	117.54	259.10	1.50
80	DISCCART	575319.10	4193980.00	117.65	259.10	1.50
81	DISCCART	575303.10	4193992.00	116.17	259.10	1.50
82	DISCCART	575287.30	4194004.00	117.08	259.10	1.50
83	DISCCART	575271.30	4194016.00	119.84	259.10	1.50
84	DISCCART	575276.30	4194034.00	118.29	259.10	1.50
85	DISCCART	575288.60	4194045.00	118.55	259.10	1.50
86	DISCCART	575308.60	4194045.00	118.08	259.10	1.50
87	DISCCART	575328.60	4194045.00	117.66	259.10	1.50
88	DISCCART	575348.60	4194045.00	117.57	259.10	1.50
89	DISCCART	575370.40	4194045.00	118.04	259.10	1.50
90	DISCCART	575748.60	4193713.00	107.61	280.10	1.50
91	DISCCART	575773.60	4193713.00	108.47	280.10	1.50
92	DISCCART	575798.60	4193713.00	108.52	280.10	1.50
93	DISCCART	575823.60	4193713.00	108.27	280.10	1.50
94	DISCCART	575848.60	4193713.00	107.97	280.10	1.50
95	DISCCART	575873.60	4193713.00	107.56	280.10	1.50
96	DISCCART	575898.60	4193713.00	107.15	280.10	1.50
97	DISCCART	575923.60	4193713.00	106.77	280.10	1.50
98	DISCCART	575948.60	4193713.00	106.22	280.10	1.50
99	DISCCART	575973.60	4193713.00	105.58	280.10	1.50
100	DISCCART	575648.60	4193738.00	110.88	280.08	1.50
101	DISCCART	575673.60	4193738.00	110.41	280.10	1.50
102	DISCCART	575698.60	4193738.00	110.04	280.10	1.50
103	DISCCART	575723.60	4193738.00	109.44	280.10	1.50
104	DISCCART	575748.60	4193738.00	109.35	280.10	1.50
105	DISCCART	575873.60	4193738.00	111.23	280.10	1.50
106	DISCCART	575898.60	4193738.00	109.14	280.10	1.50
107	DISCCART	575923.60	4193738.00	107.96	280.10	1.50
108	DISCCART	575948.60	4193738.00	107.59	280.10	1.50
109	DISCCART	575973.60	4193738.00	107.59	280.10	1.50
110	DISCCART	575998.60	4193738.00	106.51	280.10	1.50
111	DISCCART	576023.60	4193738.00	105.63	280.10	1.50
112	DISCCART	575598.60	4193763.00	113.32	274.88	1.50
113	DISCCART	575623.60	4193763.00	111.40	279.52	1.50
114	DISCCART	575648.60	4193763.00	110.68	279.52	1.50
115	DISCCART	575873.60	4193763.00	118.48	259.10	1.50
116	DISCCART	575898.60	4193763.00	114.34	279.09	1.50
117	DISCCART	575923.60	4193763.00	113.01	279.52	1.50
118	DISCCART	575948.60	4193763.00	111.06	280.10	1.50
119	DISCCART	575973.60	4193763.00	114.56	274.88	1.50
120	DISCCART	575998.60	4193763.00	110.90	280.10	1.50
121	DISCCART	576023.60	4193763.00	106.59	280.10	1.50
122	DISCCART	575548.60	4193788.00	113.84	259.10	1.50
123	DISCCART	575573.60	4193788.00	112.71	259.10	1.50
124	DISCCART	575598.60	4193788.00	111.73	274.69	1.50
125	DISCCART	575873.60	4193788.00	127.29	259.10	1.50
126	DISCCART	575898.60	4193788.00	125.84	259.10	1.50
127	DISCCART	575923.60	4193788.00	124.21	259.10	1.50
128	DISCCART	575948.60	4193788.00	120.33	259.10	1.50
129	DISCCART	575973.60	4193788.00	122.95	259.10	1.50
130	DISCCART	575998.60	4193788.00	116.66	259.10	1.50
131	DISCCART	576023.60	4193788.00	108.75	280.10	1.50
132	DISCCART	576048.60	4193788.00	106.63	280.10	1.50
133	DISCCART	575523.60	4193813.00	114.31	259.10	1.50
134	DISCCART	575548.60	4193813.00	113.42	259.10	1.50
135	DISCCART	575823.60	4193813.00	124.07	259.10	1.50
136	DISCCART	575848.60	4193813.00	128.73	259.10	1.50
137	DISCCART	575973.60	4193813.00	127.98	259.10	1.50
138	DISCCART	575998.60	4193813.00	118.99	259.10	1.50

139	DISCCART	576023.60	4193813.00	110.86	274.69	1.50
140	DISCCART	576048.60	4193813.00	108.04	279.09	1.50
141	DISCCART	576073.60	4193813.00	106.53	367.29	1.50
142	DISCCART	575473.60	4193838.00	115.71	259.10	1.50
143	DISCCART	575498.60	4193838.00	114.70	259.10	1.50
144	DISCCART	575523.60	4193838.00	114.37	259.10	1.50
145	DISCCART	575823.60	4193838.00	127.09	259.10	1.50
146	DISCCART	575848.60	4193838.00	134.10	259.10	1.50
147	DISCCART	575873.60	4193838.00	133.77	259.10	1.50
148	DISCCART	575898.60	4193838.00	133.36	259.10	1.50
149	DISCCART	575973.60	4193838.00	128.83	259.10	1.50
150	DISCCART	575998.60	4193838.00	118.26	259.10	1.50
151	DISCCART	576023.60	4193838.00	111.46	259.10	1.50
152	DISCCART	576048.60	4193838.00	109.07	367.29	1.50
153	DISCCART	575448.60	4193863.00	116.22	259.10	1.50
154	DISCCART	575473.60	4193863.00	115.44	259.10	1.50
155	DISCCART	575798.60	4193863.00	127.50	259.10	1.50
156	DISCCART	575823.60	4193863.00	131.35	259.10	1.50
157	DISCCART	575848.60	4193863.00	137.03	259.10	1.50
158	DISCCART	575873.60	4193863.00	137.35	259.10	1.50
159	DISCCART	575923.60	4193863.00	133.71	259.10	1.50
160	DISCCART	575948.60	4193863.00	130.27	259.10	1.50
161	DISCCART	575973.60	4193863.00	126.43	259.10	1.50
162	DISCCART	575998.60	4193863.00	117.90	259.10	1.50
163	DISCCART	576023.60	4193863.00	112.87	259.10	1.50
164	DISCCART	575398.60	4193888.00	118.33	259.10	1.50
165	DISCCART	575423.60	4193888.00	117.31	259.10	1.50
166	DISCCART	575798.60	4193888.00	132.29	259.10	1.50
167	DISCCART	575823.60	4193888.00	135.82	259.10	1.50
168	DISCCART	575923.60	4193888.00	134.55	259.10	1.50
169	DISCCART	575948.60	4193888.00	129.09	259.10	1.50
170	DISCCART	575973.60	4193888.00	123.37	259.10	1.50
171	DISCCART	575998.60	4193888.00	118.07	259.10	1.50
172	DISCCART	575348.60	4193913.00	120.63	259.10	1.50
173	DISCCART	575373.60	4193913.00	119.20	259.10	1.50
174	DISCCART	575398.60	4193913.00	117.58	259.10	1.50
175	DISCCART	575798.60	4193913.00	135.85	259.10	1.50
176	DISCCART	575823.60	4193913.00	137.82	259.10	1.50
177	DISCCART	575848.60	4193913.00	138.38	259.10	1.50
178	DISCCART	575923.60	4193913.00	136.39	259.10	1.50
179	DISCCART	575948.60	4193913.00	127.52	259.10	1.50
180	DISCCART	575973.60	4193913.00	123.44	259.10	1.50
181	DISCCART	575298.60	4193938.00	121.81	259.10	1.50
182	DISCCART	575323.60	4193938.00	120.64	259.10	1.50
183	DISCCART	575348.60	4193938.00	119.91	259.10	1.50
184	DISCCART	575373.60	4193938.00	117.45	259.10	1.50
185	DISCCART	575848.60	4193938.00	139.55	259.10	1.50
186	DISCCART	575873.60	4193938.00	139.25	259.10	1.50
187	DISCCART	575898.60	4193938.00	139.05	259.10	1.50
188	DISCCART	575923.60	4193938.00	138.52	259.10	1.50
189	DISCCART	575948.60	4193938.00	130.28	259.10	1.50
190	DISCCART	575273.60	4193963.00	121.83	259.10	1.50
191	DISCCART	575298.60	4193963.00	121.39	259.10	1.50
192	DISCCART	575323.60	4193963.00	119.88	259.10	1.50
193	DISCCART	575798.60	4193963.00	144.94	259.10	1.50
194	DISCCART	575823.60	4193963.00	146.99	259.10	1.50
195	DISCCART	575848.60	4193963.00	144.29	259.10	1.50
196	DISCCART	575873.60	4193963.00	143.29	259.10	1.50
197	DISCCART	575898.60	4193963.00	138.86	259.10	1.50
198	DISCCART	575923.60	4193963.00	137.77	259.10	1.50
199	DISCCART	575948.60	4193963.00	132.44	259.10	1.50
200	DISCCART	575273.60	4193988.00	121.96	259.10	1.50
201	DISCCART	575298.60	4193988.00	118.20	259.10	1.50
202	DISCCART	575773.60	4193988.00	142.05	259.10	1.50
203	DISCCART	575798.60	4193988.00	146.71	259.10	1.50
204	DISCCART	575823.60	4193988.00	148.52	259.10	1.50
205	DISCCART	575848.60	4193988.00	147.05	259.10	1.50
206	DISCCART	575873.60	4193988.00	144.19	259.10	1.50
207	DISCCART	575898.60	4193988.00	140.16	259.10	1.50

208	DISCCART	575923.60	4193988.00	139.04	259.10	1.50
209	DISCCART	575273.60	4194013.00	119.66	259.10	1.50
210	DISCCART	575598.60	4194013.00	123.93	259.10	1.50
211	DISCCART	575623.60	4194013.00	126.56	259.10	1.50
212	DISCCART	575698.60	4194013.00	144.89	259.10	1.50
213	DISCCART	575723.60	4194013.00	146.61	259.10	1.50
214	DISCCART	575748.60	4194013.00	144.71	259.10	1.50
215	DISCCART	575773.60	4194013.00	143.19	259.10	1.50
216	DISCCART	575798.60	4194013.00	142.40	259.10	1.50
217	DISCCART	575823.60	4194013.00	141.96	259.10	1.50
218	DISCCART	575848.60	4194013.00	141.48	259.10	1.50
219	DISCCART	575873.60	4194013.00	140.90	259.10	1.50
220	DISCCART	575898.60	4194013.00	140.28	259.10	1.50
221	DISCCART	575923.60	4194013.00	139.60	259.10	1.50
222	DISCCART	575248.60	4194038.00	121.68	259.10	1.50
223	DISCCART	575273.60	4194038.00	118.60	259.10	1.50
224	DISCCART	575448.60	4194038.00	118.29	259.10	1.50
225	DISCCART	575473.60	4194038.00	118.48	259.10	1.50
226	DISCCART	575498.60	4194038.00	120.48	259.10	1.50
227	DISCCART	575523.60	4194038.00	123.15	259.10	1.50
228	DISCCART	575548.60	4194038.00	126.67	259.10	1.50
229	DISCCART	575573.60	4194038.00	130.25	259.10	1.50
230	DISCCART	575598.60	4194038.00	133.68	259.10	1.50
231	DISCCART	575623.60	4194038.00	137.19	259.10	1.50
232	DISCCART	575648.60	4194038.00	138.13	259.10	1.50
233	DISCCART	575673.60	4194038.00	139.95	259.10	1.50
234	DISCCART	575698.60	4194038.00	141.48	259.10	1.50
235	DISCCART	575723.60	4194038.00	141.69	259.10	1.50
236	DISCCART	575748.60	4194038.00	141.79	259.10	1.50
237	DISCCART	575773.60	4194038.00	141.64	259.10	1.50
238	DISCCART	575798.60	4194038.00	141.36	259.10	1.50
239	DISCCART	575823.60	4194038.00	141.16	259.10	1.50
240	DISCCART	575848.60	4194038.00	140.96	259.10	1.50
241	DISCCART	575873.60	4194038.00	140.63	259.10	1.50
242	DISCCART	575898.60	4194038.00	140.15	259.10	1.50
243	DISCCART	575923.60	4194038.00	139.56	259.10	1.50
244	DISCCART	575248.60	4194063.00	120.50	259.10	1.50
245	DISCCART	575273.60	4194063.00	119.37	259.10	1.50
246	DISCCART	575298.60	4194063.00	119.09	259.10	1.50
247	DISCCART	575323.60	4194063.00	118.60	259.10	1.50
248	DISCCART	575348.60	4194063.00	120.29	259.10	1.50
249	DISCCART	575373.60	4194063.00	122.27	259.10	1.50
250	DISCCART	575398.60	4194063.00	122.91	259.10	1.50
251	DISCCART	575423.60	4194063.00	123.91	259.10	1.50
252	DISCCART	575448.60	4194063.00	125.44	259.10	1.50
253	DISCCART	575473.60	4194063.00	127.39	259.10	1.50
254	DISCCART	575498.60	4194063.00	131.23	259.10	1.50
255	DISCCART	575523.60	4194063.00	134.34	259.10	1.50
256	DISCCART	575548.60	4194063.00	136.63	259.10	1.50
257	DISCCART	575573.60	4194063.00	138.21	259.10	1.50
258	DISCCART	575598.60	4194063.00	139.30	259.10	1.50
259	DISCCART	575623.60	4194063.00	140.10	259.10	1.50
260	DISCCART	575648.60	4194063.00	140.70	259.10	1.50
261	DISCCART	575673.60	4194063.00	141.06	259.10	1.50
262	DISCCART	575698.60	4194063.00	141.31	259.10	1.50
263	DISCCART	575723.60	4194063.00	141.59	259.10	1.50
264	DISCCART	575748.60	4194063.00	141.76	259.10	1.50
265	DISCCART	575773.60	4194063.00	141.78	259.10	1.50
266	DISCCART	575798.60	4194063.00	141.67	259.10	1.50
267	DISCCART	575823.60	4194063.00	141.39	259.10	1.50
268	DISCCART	575848.60	4194063.00	140.92	259.10	1.50
269	DISCCART	575873.60	4194063.00	140.31	259.10	1.50
270	DISCCART	575898.60	4194063.00	139.69	259.10	1.50
271	DISCCART	575923.60	4194063.00	139.02	259.10	1.50
272	DISCCART	575248.60	4194088.00	120.51	305.10	1.50
273	DISCCART	575273.60	4194088.00	121.78	259.10	1.50
274	DISCCART	575298.60	4194088.00	123.52	259.10	1.50
275	DISCCART	575323.60	4194088.00	127.01	259.10	1.50
276	DISCCART	575348.60	4194088.00	130.47	259.10	1.50

277	DISCCART	575373.60	4194088.00	131.50	259.10	1.50
278	DISCCART	575398.60	4194088.00	132.14	259.10	1.50
279	DISCCART	575423.60	4194088.00	133.02	259.10	1.50
280	DISCCART	575448.60	4194088.00	134.03	259.10	1.50
281	DISCCART	575473.60	4194088.00	135.09	259.10	1.50
282	DISCCART	575498.60	4194088.00	136.22	259.10	1.50
283	DISCCART	575523.60	4194088.00	137.35	259.10	1.50
284	DISCCART	575548.60	4194088.00	138.35	259.10	1.50
285	DISCCART	575573.60	4194088.00	139.19	259.10	1.50
286	DISCCART	575598.60	4194088.00	139.77	259.10	1.50
287	DISCCART	575623.60	4194088.00	140.24	259.10	1.50
288	DISCCART	575648.60	4194088.00	140.80	259.10	1.50
289	DISCCART	575673.60	4194088.00	141.30	259.10	1.50
290	DISCCART	575698.60	4194088.00	141.58	259.10	1.50
291	DISCCART	575723.60	4194088.00	141.91	259.10	1.50
292	DISCCART	575748.60	4194088.00	142.15	259.10	1.50
293	DISCCART	575248.60	4194113.00	123.77	259.10	1.50
294	DISCCART	575273.60	4194113.00	130.40	259.10	1.50
295	DISCCART	575298.60	4194113.00	131.39	259.10	1.50
296	DISCCART	575323.60	4194113.00	132.31	259.10	1.50
297	DISCCART	575348.60	4194113.00	132.92	259.10	1.50
298	DISCCART	575373.60	4194113.00	133.55	259.10	1.50
299	DISCCART	575398.60	4194113.00	134.25	259.10	1.50
300	DISCCART	575423.60	4194113.00	134.96	259.10	1.50
301	DISCCART	575448.60	4194113.00	135.65	259.10	1.50
302	DISCCART	575473.60	4194113.00	136.35	259.10	1.50
303	DISCCART	575498.60	4194113.00	137.06	259.10	1.50
304	DISCCART	575523.60	4194113.00	137.75	259.10	1.50
305	DISCCART	575548.60	4194113.00	138.39	259.10	1.50
306	DISCCART	575573.60	4194113.00	138.91	259.10	1.50
307	DISCCART	575598.60	4194113.00	139.41	259.10	1.50
308	DISCCART	575623.60	4194113.00	139.89	259.10	1.50
309	DISCCART	575223.60	4194138.00	121.07	413.72	1.50
310	DISCCART	575248.60	4194138.00	125.41	259.10	1.50
311	DISCCART	575273.60	4194138.00	130.56	259.10	1.50
312	DISCCART	575298.60	4194138.00	131.29	259.10	1.50
313	DISCCART	575323.60	4194138.00	132.02	259.10	1.50
314	DISCCART	575348.60	4194138.00	132.73	259.10	1.50
315	DISCCART	575373.60	4194138.00	133.44	259.10	1.50
316	DISCCART	575398.60	4194138.00	134.15	259.10	1.50
317	DISCCART	575423.60	4194138.00	134.85	259.10	1.50
318	DISCCART	575448.60	4194138.00	135.51	259.10	1.50
319	DISCCART	575473.60	4194138.00	136.01	259.10	1.50
320	DISCCART	575498.60	4194138.00	136.60	259.10	1.50
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Walnut Creek Site





HRA Model Results

Health Risk Assessment
AERMOD & HARP2
RECEPTORS



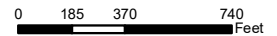
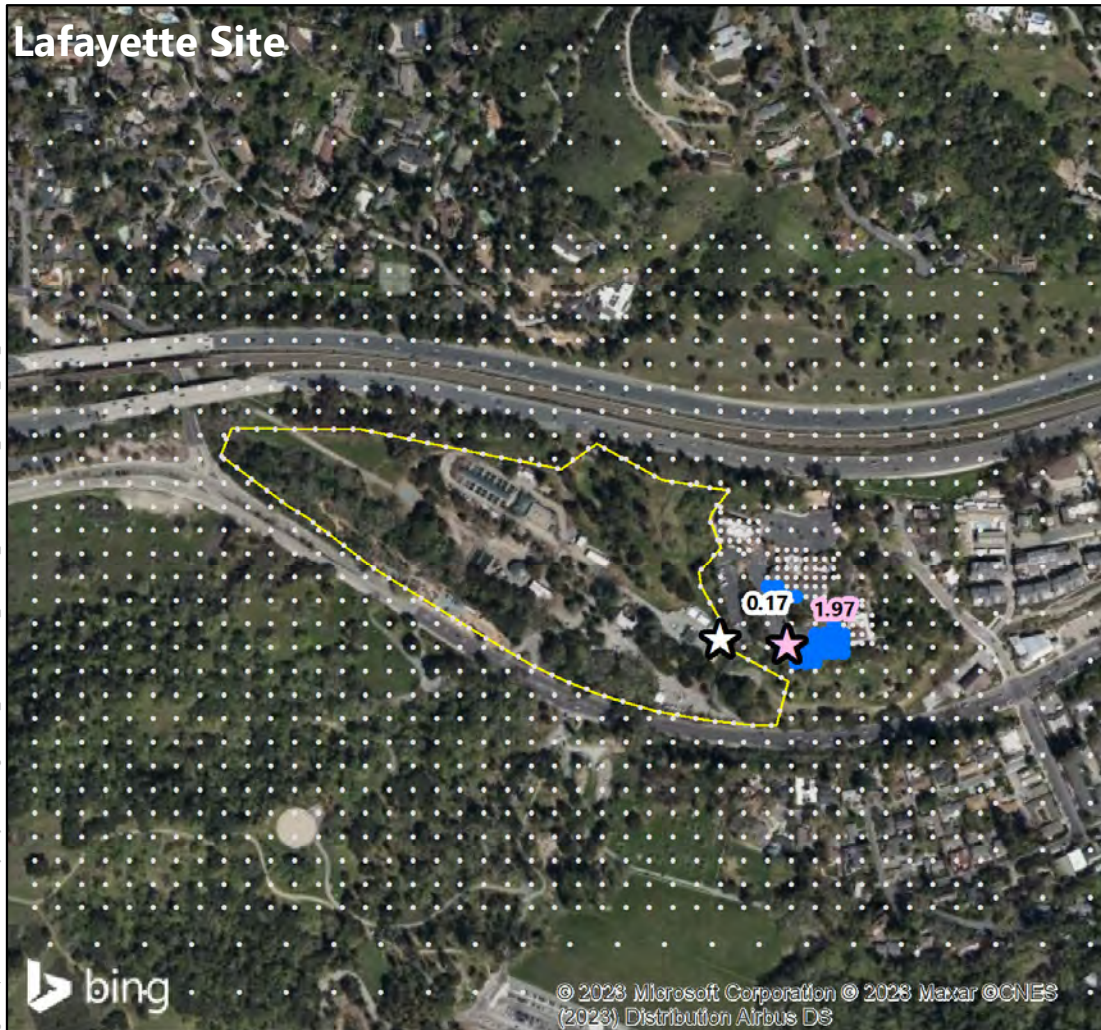
Legend

-  Residential Receptor Max (MEI)
-  Non-resident Receptor Max (MEI)

Cancer Risk ("in a million")

-  < 1
-  1 to 2
-  2 to 3
-  3 to 4
-  Property Line

Lafayette Site



Project #: 0011898.00
Map Created: August 2023

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.

1 HARP2 - HRACalc (dated 21081) 8/21/2023 9:48:08 AM - Output Log

2

3 GLCs loaded successfully

4 Pollutants loaded successfully

5 Pathway receptors loaded successfully

6 *****

7 RISK SCENARIO SETTINGS

8

9 Receptor Type: Resident

10 Scenario: All

11 Calculation Method: HighEnd

12

13 *****

14 EXPOSURE DURATION PARAMETERS FOR CANCER

15

16 Start Age: -0.25

17 Total Exposure Duration: 4

18

19 Exposure Duration Bin Distribution

20 3rd Trimester Bin: 0.25

21 0<2 Years Bin: 2

22 2<9 Years Bin: 2

23 2<16 Years Bin: 0

24 16<30 Years Bin: 0

25 16 to 70 Years Bin: 0

26

27 *****

28 PATHWAYS ENABLED

29

30 NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

31

32 Inhalation: True

33 Soil: True

34 Dermal: True

35 Mother's milk: True

36 Water: False

37 Fish: False

38 Homegrown crops: False

39 Beef: False

40 Dairy: False

41 Pig: False

42 Chicken: False

43 Egg: False

44

45 *****

46 INHALATION

47

48 Daily breathing rate: LongTerm24HR

49

50 **Worker Adjustment Factors**

51 Worker adjustment factors enabled: NO

52

53 **Fraction at time at home**

54 3rd Trimester to 16 years: OFF

55 16 years to 70 years: ON

56

57 *****

58 SOIL & DERMAL PATHWAY SETTINGS

59

60 Deposition rate (m/s): 0.05

61 Soil mixing depth (m): 0.01

62 Dermal climate: Mixed

63

64 *****

65 TIER 2 SETTINGS

66

67 Tier2 adjustments were used in this assessment. Please see the input file for details.

68 Tier2 - What was changed: ED or start age changed|

69 Calculating cancer risk
70 Cancer risk breakdown by pollutant and receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_RESIDENTIAL\hra\EBMUD_WCWTP_WALNUT_CREEK_RESIDENTIALCancerR
isk.csv
71 Cancer risk total by receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_RESIDENTIAL\hra\EBMUD_WCWTP_WALNUT_CREEK_RESIDENTIALCancerR
iskSumByRec.csv
72 Calculating chronic risk
73 Chronic risk breakdown by pollutant and receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_RESIDENTIAL\hra\EBMUD_WCWTP_WALNUT_CREEK_RESIDENTIALNCChron
icRisk.csv
74 Chronic risk total by receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_RESIDENTIAL\hra\EBMUD_WCWTP_WALNUT_CREEK_RESIDENTIALNCChron
icRiskSumByRec.csv
75 Calculating acute risk
76 Acute risk breakdown by pollutant and receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_RESIDENTIAL\hra\EBMUD_WCWTP_WALNUT_CREEK_RESIDENTIALNCAcute
Risk.csv
77 Acute risk total by receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_RESIDENTIAL\hra\EBMUD_WCWTP_WALNUT_CREEK_RESIDENTIALNCAcute
RiskSumByRec.csv
78 HRA ran successfully
79

1 HARP2 - HRACalc (dated 21081) 8/21/2023 11:28:35 AM - Output Log

2

3 GLCs loaded successfully

4 Pollutants loaded successfully

5 Pathway receptors loaded successfully

6 *****

7 RISK SCENARIO SETTINGS

8

9 Receptor Type: Resident

10 Scenario: All

11 Calculation Method: HighEnd

12

13 *****

14 EXPOSURE DURATION PARAMETERS FOR CANCER

15

16 Start Age: -0.25

17 Total Exposure Duration: 4

18

19 Exposure Duration Bin Distribution

20 3rd Trimester Bin: 0.25

21 0<2 Years Bin: 2

22 2<9 Years Bin: 2

23 2<16 Years Bin: 0

24 16<30 Years Bin: 0

25 16 to 70 Years Bin: 0

26

27 *****

28 PATHWAYS ENABLED

29

30 NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

31

32 Inhalation: True

33 Soil: True

34 Dermal: True

35 Mother's milk: True

36 Water: False

37 Fish: False

38 Homegrown crops: False

39 Beef: False

40 Dairy: False

41 Pig: False

42 Chicken: False

43 Egg: False

44

45 *****

46 INHALATION

47

48 Daily breathing rate: LongTerm24HR

49

50 **Worker Adjustment Factors**

51 Worker adjustment factors enabled: NO

52

53 **Fraction at time at home**

54 3rd Trimester to 16 years: OFF

55 16 years to 70 years: ON

56

57 *****

58 SOIL & DERMAL PATHWAY SETTINGS

59

60 Deposition rate (m/s): 0.05

61 Soil mixing depth (m): 0.01

62 Dermal climate: Mixed

63

64 *****

65 TIER 2 SETTINGS

66

67 Tier2 adjustments were used in this assessment. Please see the input file for details.

68 Tier2 - What was changed: ED or start age changed|

69 Calculating cancer risk
70 Cancer risk breakdown by pollutant and receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_RESIDENTIAL_UNMIT\hra\EBMUD_WCWTP_WALNUT_CREEK_RESIDENTIAL_
UNMITCancerRisk.csv
71 Cancer risk total by receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_RESIDENTIAL_UNMIT\hra\EBMUD_WCWTP_WALNUT_CREEK_RESIDENTIAL_
UNMITCancerRiskSumByRec.csv
72 Calculating chronic risk
73 Chronic risk breakdown by pollutant and receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_RESIDENTIAL_UNMIT\hra\EBMUD_WCWTP_WALNUT_CREEK_RESIDENTIAL_
UNMITNCChronicRisk.csv
74 Chronic risk total by receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_RESIDENTIAL_UNMIT\hra\EBMUD_WCWTP_WALNUT_CREEK_RESIDENTIAL_
UNMITNCChronicRiskSumByRec.csv
75 Calculating acute risk
76 Acute risk breakdown by pollutant and receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_RESIDENTIAL_UNMIT\hra\EBMUD_WCWTP_WALNUT_CREEK_RESIDENTIAL_
UNMITNCAcuteRisk.csv
77 Acute risk total by receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_RESIDENTIAL_UNMIT\hra\EBMUD_WCWTP_WALNUT_CREEK_RESIDENTIAL_
UNMITNCAcuteRiskSumByRec.csv
78 HRA ran successfully
79

1 HARP2 - HRACalc (dated 21081) 8/21/2023 11:56:49 AM - Output Log

2

3 GLCs loaded successfully

4 Pollutants loaded successfully

5 Pathway receptors loaded successfully

6 *****

7 RISK SCENARIO SETTINGS

8

9 Receptor Type: Worker

10 Scenario: All

11 Calculation Method: Derived

12

13 *****

14 EXPOSURE DURATION PARAMETERS FOR CANCER

15

16 Start Age: 16

17 Total Exposure Duration: 4

18

19 Exposure Duration Bin Distribution

20 3rd Trimester Bin: 0

21 0<2 Years Bin: 0

22 2<9 Years Bin: 0

23 2<16 Years Bin: 0

24 16<30 Years Bin: 4

25 16 to 70 Years Bin: 0

26

27 *****

28 PATHWAYS ENABLED

29

30 NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

31

32 Inhalation: True

33 Soil: True

34 Dermal: True

35 Mother's milk: False

36 Water: False

37 Fish: False

38 Homegrown crops: False

39 Beef: False

40 Dairy: False

41 Pig: False

42 Chicken: False

43 Egg: False

44

45 *****

46 INHALATION

47

48 Daily breathing rate: Moderate8HR

49

50 **Worker Adjustment Factors**

51 Worker adjustment factors enabled: NO

52

53 **Fraction at time at home**

54 3rd Trimester to 16 years: OFF

55 16 years to 70 years: OFF

56

57 *****

58 SOIL & DERMAL PATHWAY SETTINGS

59

60 Deposition rate (m/s): 0.05

61 Soil mixing depth (m): 0.01

62 Dermal climate: Mixed

63

64 *****

65 TIER 2 SETTINGS

66

67 Tier2 adjustments were used in this assessment. Please see the input file for details.

68 Tier2 - What was changed: ED or start age changed|

69 Calculating cancer risk
70 Cancer risk breakdown by pollutant and receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_WORKER\hra\EBMUD_WCWTP_WALNUT_CREEK_WORKERCancerRisk.csv
71 Cancer risk total by receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_WORKER\hra\EBMUD_WCWTP_WALNUT_CREEK_WORKERCancerRiskSumByRe
c.csv
72 Calculating chronic risk
73 Chronic risk breakdown by pollutant and receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_WORKER\hra\EBMUD_WCWTP_WALNUT_CREEK_WORKERNCCChronicRisk.csv
74 Chronic risk total by receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_WORKER\hra\EBMUD_WCWTP_WALNUT_CREEK_WORKERNCCChronicRiskSumB
yRec.csv
75 Calculating acute risk
76 Acute risk breakdown by pollutant and receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_WORKER\hra\EBMUD_WCWTP_WALNUT_CREEK_WORKERNCacuteRisk.csv
77 Acute risk total by receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_WORKER\hra\EBMUD_WCWTP_WALNUT_CREEK_WORKERNCacuteRiskSumByR
ec.csv
78 HRA ran successfully
79

1 HARP2 - HRACalc (dated 21081) 8/21/2023 11:58:54 AM - Output Log

2

3 GLCs loaded successfully

4 Pollutants loaded successfully

5 Pathway receptors loaded successfully

6 *****

7 RISK SCENARIO SETTINGS

8

9 Receptor Type: Worker

10 Scenario: All

11 Calculation Method: HighEnd

12

13 *****

14 EXPOSURE DURATION PARAMETERS FOR CANCER

15

16 Start Age: 16

17 Total Exposure Duration: 4

18

19 Exposure Duration Bin Distribution

20 3rd Trimester Bin: 0

21 0<2 Years Bin: 0

22 2<9 Years Bin: 0

23 2<16 Years Bin: 0

24 16<30 Years Bin: 4

25 16 to 70 Years Bin: 0

26

27 *****

28 PATHWAYS ENABLED

29

30 NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

31

32 Inhalation: True

33 Soil: True

34 Dermal: True

35 Mother's milk: False

36 Water: False

37 Fish: False

38 Homegrown crops: False

39 Beef: False

40 Dairy: False

41 Pig: False

42 Chicken: False

43 Egg: False

44

45 *****

46 INHALATION

47

48 Daily breathing rate: Moderate8HR

49

50 **Worker Adjustment Factors**

51 Worker adjustment factors enabled: NO

52

53 **Fraction at time at home**

54 3rd Trimester to 16 years: OFF

55 16 years to 70 years: OFF

56

57 *****

58 SOIL & DERMAL PATHWAY SETTINGS

59

60 Deposition rate (m/s): 0.05

61 Soil mixing depth (m): 0.01

62 Dermal climate: Mixed

63

64 *****

65 TIER 2 SETTINGS

66

67 Tier2 adjustments were used in this assessment. Please see the input file for details.

68 Tier2 - What was changed: ED or start age changed|

69 Calculating cancer risk
70 Cancer risk breakdown by pollutant and receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_WORKER_UNMIT\hra\EBMUD_WCWTP_WALNUT_CREEK_WORKER_UNMITCance
rRisk.csv
71 Cancer risk total by receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_WORKER_UNMIT\hra\EBMUD_WCWTP_WALNUT_CREEK_WORKER_UNMITCance
rRiskSumByRec.csv
72 Calculating chronic risk
73 Chronic risk breakdown by pollutant and receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_WORKER_UNMIT\hra\EBMUD_WCWTP_WALNUT_CREEK_WORKER_UNMITNCChr
onicRisk.csv
74 Chronic risk total by receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_WORKER_UNMIT\hra\EBMUD_WCWTP_WALNUT_CREEK_WORKER_UNMITNCChr
onicRiskSumByRec.csv
75 Calculating acute risk
76 Acute risk breakdown by pollutant and receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_WORKER_UNMIT\hra\EBMUD_WCWTP_WALNUT_CREEK_WORKER_UNMITNCAcu
teRisk.csv
77 Acute risk total by receptor saved to: S:\01 Walnut Creek
Site\HARP2\EBMUD_WALNUT_CREEK_WORKER_UNMIT\hra\EBMUD_WCWTP_WALNUT_CREEK_WORKER_UNMITNCAcu
teRiskSumByRec.csv
78 HRA ran successfully
79

1 HARP2 - HRACalc (dated 21081) 8/21/2023 12:12:07 PM - Output Log

2

3 GLCs loaded successfully

4 Pollutants loaded successfully

5 Pathway receptors loaded successfully

6 *****

7 RISK SCENARIO SETTINGS

8

9 Receptor Type: Resident

10 Scenario: All

11 Calculation Method: HighEnd

12

13 *****

14 EXPOSURE DURATION PARAMETERS FOR CANCER

15

16 Start Age: -0.25

17 Total Exposure Duration: 3

18

19 Exposure Duration Bin Distribution

20 3rd Trimester Bin: 0.25

21 0<2 Years Bin: 2

22 2<9 Years Bin: 1

23 2<16 Years Bin: 0

24 16<30 Years Bin: 0

25 16 to 70 Years Bin: 0

26

27 *****

28 PATHWAYS ENABLED

29

30 NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

31

32 Inhalation: True

33 Soil: True

34 Dermal: True

35 Mother's milk: True

36 Water: False

37 Fish: False

38 Homegrown crops: False

39 Beef: False

40 Dairy: False

41 Pig: False

42 Chicken: False

43 Egg: False

44

45 *****

46 INHALATION

47

48 Daily breathing rate: LongTerm24HR

49

50 **Worker Adjustment Factors**

51 Worker adjustment factors enabled: NO

52

53 **Fraction at time at home**

54 3rd Trimester to 16 years: OFF

55 16 years to 70 years: ON

56

57 *****

58 SOIL & DERMAL PATHWAY SETTINGS

59

60 Deposition rate (m/s): 0.05

61 Soil mixing depth (m): 0.01

62 Dermal climate: Mixed

63

64 *****

65 TIER 2 SETTINGS

66

67 Tier2 adjustments were used in this assessment. Please see the input file for details.

68 Tier2 - What was changed: ED or start age changed|

69 Calculating cancer risk
70 Cancer risk breakdown by pollutant and receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_RESIDENTIAL\hra\EBMUD_WCWTP_LAFAYETTE_RESIDENTIALCancerRisk.csv
71 Cancer risk total by receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_RESIDENTIAL\hra\EBMUD_WCWTP_LAFAYETTE_RESIDENTIALCancerRiskSum
ByRec.csv
72 Calculating chronic risk
73 Chronic risk breakdown by pollutant and receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_RESIDENTIAL\hra\EBMUD_WCWTP_LAFAYETTE_RESIDENTIALNCChronicRisk
.csv
74 Chronic risk total by receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_RESIDENTIAL\hra\EBMUD_WCWTP_LAFAYETTE_RESIDENTIALNCChronicRisk
SumByRec.csv
75 Calculating acute risk
76 Acute risk breakdown by pollutant and receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_RESIDENTIAL\hra\EBMUD_WCWTP_LAFAYETTE_RESIDENTIALNCAcuteRisk.c
sv
77 Acute risk total by receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_RESIDENTIAL\hra\EBMUD_WCWTP_LAFAYETTE_RESIDENTIALNCAcuteRiskSu
mByRec.csv
78 HRA ran successfully
79

1 HARP2 - HRACalc (dated 21081) 8/21/2023 12:15:30 PM - Output Log

2

3 GLCs loaded successfully

4 Pollutants loaded successfully

5 Pathway receptors loaded successfully

6 *****

7 RISK SCENARIO SETTINGS

8

9 Receptor Type: Resident

10 Scenario: All

11 Calculation Method: HighEnd

12

13 *****

14 EXPOSURE DURATION PARAMETERS FOR CANCER

15

16 Start Age: -0.25

17 Total Exposure Duration: 3

18

19 Exposure Duration Bin Distribution

20 3rd Trimester Bin: 0.25

21 0<2 Years Bin: 2

22 2<9 Years Bin: 1

23 2<16 Years Bin: 0

24 16<30 Years Bin: 0

25 16 to 70 Years Bin: 0

26

27 *****

28 PATHWAYS ENABLED

29

30 NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

31

32 Inhalation: True

33 Soil: True

34 Dermal: True

35 Mother's milk: True

36 Water: False

37 Fish: False

38 Homegrown crops: False

39 Beef: False

40 Dairy: False

41 Pig: False

42 Chicken: False

43 Egg: False

44

45 *****

46 INHALATION

47

48 Daily breathing rate: LongTerm24HR

49

50 **Worker Adjustment Factors**

51 Worker adjustment factors enabled: NO

52

53 **Fraction at time at home**

54 3rd Trimester to 16 years: OFF

55 16 years to 70 years: ON

56

57 *****

58 SOIL & DERMAL PATHWAY SETTINGS

59

60 Deposition rate (m/s): 0.05

61 Soil mixing depth (m): 0.01

62 Dermal climate: Mixed

63

64 *****

65 TIER 2 SETTINGS

66

67 Tier2 adjustments were used in this assessment. Please see the input file for details.

68 Tier2 - What was changed: ED or start age changed|

69 Calculating cancer risk
70 Cancer risk breakdown by pollutant and receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_RESIDENTIAL_UNMIT\hra\EBMUD_WCWTP_LAFAYETTE_RESIDENTIAL_UNMITC
ancerRisk.csv
71 Cancer risk total by receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_RESIDENTIAL_UNMIT\hra\EBMUD_WCWTP_LAFAYETTE_RESIDENTIAL_UNMITC
ancerRiskSumByRec.csv
72 Calculating chronic risk
73 Chronic risk breakdown by pollutant and receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_RESIDENTIAL_UNMIT\hra\EBMUD_WCWTP_LAFAYETTE_RESIDENTIAL_UNMITN
CChronicRisk.csv
74 Chronic risk total by receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_RESIDENTIAL_UNMIT\hra\EBMUD_WCWTP_LAFAYETTE_RESIDENTIAL_UNMITN
CChronicRiskSumByRec.csv
75 Calculating acute risk
76 Acute risk breakdown by pollutant and receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_RESIDENTIAL_UNMIT\hra\EBMUD_WCWTP_LAFAYETTE_RESIDENTIAL_UNMITN
CAcuteRisk.csv
77 Acute risk total by receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_RESIDENTIAL_UNMIT\hra\EBMUD_WCWTP_LAFAYETTE_RESIDENTIAL_UNMITN
CAcuteRiskSumByRec.csv
78 HRA ran successfully
79

1 HARP2 - HRACalc (dated 21081) 8/21/2023 12:18:48 PM - Output Log

2

3 GLCs loaded successfully

4 Pollutants loaded successfully

5 Pathway receptors loaded successfully

6 *****

7 RISK SCENARIO SETTINGS

8

9 Receptor Type: Worker

10 Scenario: All

11 Calculation Method: HighEnd

12

13 *****

14 EXPOSURE DURATION PARAMETERS FOR CANCER

15

16 Start Age: 16

17 Total Exposure Duration: 3

18

19 Exposure Duration Bin Distribution

20 3rd Trimester Bin: 0

21 0<2 Years Bin: 0

22 2<9 Years Bin: 0

23 2<16 Years Bin: 0

24 16<30 Years Bin: 3

25 16 to 70 Years Bin: 0

26

27 *****

28 PATHWAYS ENABLED

29

30 NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

31

32 Inhalation: True

33 Soil: True

34 Dermal: True

35 Mother's milk: False

36 Water: False

37 Fish: False

38 Homegrown crops: False

39 Beef: False

40 Dairy: False

41 Pig: False

42 Chicken: False

43 Egg: False

44

45 *****

46 INHALATION

47

48 Daily breathing rate: Moderate8HR

49

50 **Worker Adjustment Factors**

51 Worker adjustment factors enabled: NO

52

53 **Fraction at time at home**

54 3rd Trimester to 16 years: OFF

55 16 years to 70 years: OFF

56

57 *****

58 SOIL & DERMAL PATHWAY SETTINGS

59

60 Deposition rate (m/s): 0.05

61 Soil mixing depth (m): 0.01

62 Dermal climate: Mixed

63

64 *****

65 TIER 2 SETTINGS

66

67 Tier2 adjustments were used in this assessment. Please see the input file for details.

68 Tier2 - What was changed: ED or start age changed|

69 Calculating cancer risk
70 Cancer risk breakdown by pollutant and receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_WORKER\hra\EBMUD_WCWTP_LAFAYETTE_WORKERCancerRisk.csv
71 Cancer risk total by receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_WORKER\hra\EBMUD_WCWTP_LAFAYETTE_WORKERCancerRiskSumByRec.csv
72 Calculating chronic risk
73 Chronic risk breakdown by pollutant and receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_WORKER\hra\EBMUD_WCWTP_LAFAYETTE_WORKERNCCChronicRisk.csv
74 Chronic risk total by receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_WORKER\hra\EBMUD_WCWTP_LAFAYETTE_WORKERNCCChronicRiskSumByRec.c
sv
75 Calculating acute risk
76 Acute risk breakdown by pollutant and receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_WORKER\hra\EBMUD_WCWTP_LAFAYETTE_WORKERNCAcuteRisk.csv
77 Acute risk total by receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_WORKER\hra\EBMUD_WCWTP_LAFAYETTE_WORKERNCAcuteRiskSumByRec.csv
78 HRA ran successfully
79

1 HARP2 - HRACalc (dated 21081) 8/21/2023 12:21:01 PM - Output Log
2
3 GLCs loaded successfully
4 Pollutants loaded successfully
5 Pathway receptors loaded successfully
6 *****
7 RISK SCENARIO SETTINGS
8
9 Receptor Type: Worker
10 Scenario: All
11 Calculation Method: HighEnd
12
13 *****
14 EXPOSURE DURATION PARAMETERS FOR CANCER
15
16 Start Age: 16
17 Total Exposure Duration: 3
18
19 Exposure Duration Bin Distribution
20 3rd Trimester Bin: 0
21 0<2 Years Bin: 0
22 2<9 Years Bin: 0
23 2<16 Years Bin: 0
24 16<30 Years Bin: 3
25 16 to 70 Years Bin: 0
26
27 *****
28 PATHWAYS ENABLED
29
30 NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways
are only used for cancer and noncancer chronic assessments.
31
32 Inhalation: True
33 Soil: True
34 Dermal: True
35 Mother's milk: False
36 Water: False
37 Fish: False
38 Homegrown crops: False
39 Beef: False
40 Dairy: False
41 Pig: False
42 Chicken: False
43 Egg: False
44
45 *****
46 INHALATION
47
48 Daily breathing rate: Moderate8HR
49
50 **Worker Adjustment Factors**
51 Worker adjustment factors enabled: NO
52
53 **Fraction at time at home**
54 3rd Trimester to 16 years: OFF
55 16 years to 70 years: OFF
56
57 *****
58 SOIL & DERMAL PATHWAY SETTINGS
59
60 Deposition rate (m/s): 0.05
61 Soil mixing depth (m): 0.01
62 Dermal climate: Mixed
63
64 *****
65 TIER 2 SETTINGS
66
67 Tier2 adjustments were used in this assessment. Please see the input file for details.
68 Tier2 - What was changed: ED or start age changed|

69 Calculating cancer risk
70 Cancer risk breakdown by pollutant and receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_WORKER_UNMIT\hra\EBMUD_WCWTP_LAFAYETTE_WORKER_UNMITCancerRisk.
csv
71 Cancer risk total by receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_WORKER_UNMIT\hra\EBMUD_WCWTP_LAFAYETTE_WORKER_UNMITCancerRiskS
umByRec.csv
72 Calculating chronic risk
73 Chronic risk breakdown by pollutant and receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_WORKER_UNMIT\hra\EBMUD_WCWTP_LAFAYETTE_WORKER_UNMITNCChronicRi
sk.csv
74 Chronic risk total by receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_WORKER_UNMIT\hra\EBMUD_WCWTP_LAFAYETTE_WORKER_UNMITNCChronicRi
skSumByRec.csv
75 Calculating acute risk
76 Acute risk breakdown by pollutant and receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_WORKER_UNMIT\hra\EBMUD_WCWTP_LAFAYETTE_WORKER_UNMITNCAcuteRisk
.csv
77 Acute risk total by receptor saved to: S:\02 Lafayette
Site\HARP2\EBMUD_LAFAYETTE_WORKER_UNMIT\hra\EBMUD_WCWTP_LAFAYETTE_WORKER_UNMITNCAcuteRisk
SumByRec.csv
78 HRA ran successfully
79