WASTE MANAGEMENT PLAN
ALL PEOPLES CHURCH PROJECT

Community Plan Amendment
Site Development Permit No. 92339
Planned Development Permit No. 92339
Easement Vacation No. 92339

PREPARED FOR:

All Peoples Church
6122 El Cajon Boulevard
El Cajon, CA 92122

PREPARED BY:

BARANEK
Consulting Group

9984 Scripps Ranch Boulevard, #138
San Diego, CA 92131
858.922.8604
kim@baranekconsulting.com
Contact: Kim Baranek

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TABLE OF CONTENTS

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1. PURPOSE OF REPORT

The City of San Diego (City) *California Environmental Quality Act (CEQA) Significance Determination Thresholds* for solid waste identify a threshold of 1,500 tons of waste or more during construction and demolition (C&D) for direct solid waste impacts, and 60 tons of waste or more during C&D for potentially significant cumulative solid waste impacts. Projects that consist of the construction, demolition and/or renovation of 40,000 square feet (SF) or more of building space have the potential to generate 60 tons of waste or more and are required to prepare a project-specific Waste Management Plan (WMP) to reduce their cumulative impacts to solid waste facilities.

The purpose of this WMP is to identify the quantity of solid waste that would be generated by the All Peoples Church Project (project) throughout its construction and operational phases, and to identify measures to reduce the project's direct and cumulative impacts from solid waste in accordance with the City's waste reduction ordinances and the waste diversion goals. Two acceptable approaches to managing solid waste are to reduce the tons disposed to 60 tons or less or to provide diversion of 75 percent or more, thus meeting the goal established by Assembly Bill (AB) 341.

1.1 Regulatory Background

State

The AB 939: Integrated Waste Management Act, passed in 1989, requires a 50 percent reduction in solid waste generation from all jurisdictions in California by 2000. In 2008, Senate Bill 1016 was passed. Known as the Solid Waste Disposal Measurement Act, Senate Bill 1016 maintained the 50 percent diversion requirement established by AB 939 but changed to a disposal-based measurement system. In 2011, AB 341 was passed by the State Legislature to create green jobs by expanding recycling to every multifamily dwelling and business and increased the diversion target to 75 percent in the state by the year 2020. The City satisfied the original goal and is currently working to achieve the new, higher goal.

Local

The City has enacted codes and policies directed at the achievement of State-required diversion levels, including the Refuse and Recyclable Materials Storage Regulations (San Diego Municipal Code [SDMC] Chapter 14, Article 2, Division 8), Recycling Ordinance (City 2007; Municipal Code Chapter 6, Article 6, Division 7), and the C&D Debris Deposit Ordinance (City 2008; Municipal Code Chapter 6, Article 6, Division 6). The City's Zero Waste Plan, a component of the City's Climate Action Plan, was approved and adopted by City Council on July 13, 2015. The Zero Waste Plan identifies goals and strategies to achieve 75 percent diversion by 2020, 90 percent diversion by 2035, and "zero" waste by 2040 (City 2015).

In 1997, the City adopted SDMC Section 142.0801, *Refuse and Recyclable Materials Storage Regulations*. The ordinance requires minimum storage areas to facilitate the

diversion of recyclable materials from landfill disposal. Specifically, Section 142.0801 provides for permanent, adequate, and convenient space for the storage and collection of refuse and recyclable material to encourage recycling of solid waste.

In 2007, the City adopted a *Recycling Ordinance* contained in SDMC Section 66.0701 et seq. The ordinance requires recycling of plastic and glass bottles and jars, paper, newspaper, metal containers and cardboard at all single-family residences, commercial facilities, multifamily residences with service for 4 cubic yards (CY) or more and at certain special events requiring a City permit. The Recycling Ordinance requires not only the provision of recycling service but also the education of tenants on waste reduction and recycling methods.

As of 2008, the City adopted a *Construction and Demolition (C&D) Debris Diversion Deposit Ordinance*. The ordinance, contained in SDMC Section 66.0601, requires that the majority of construction, demolition, and remodeling projects requiring building, combination, and demolition permits apply for a demolition or construction permit to estimate the volume of waste they will generate and post a refundable C&D Debris Recycling deposit. The deposit is held until receipts are shown that demonstrate the project diverted from disposal at least 50 percent of their debris by recycling, reusing or donating usable materials. The ordinance is designed to keep C&D materials out of local landfills and ensure they get recycled.

The ordinance further stipulates that when mixed debris facilities with a permitted daily tonnage capacity of at least 1,000 tons maintain a 75 percent diversion rate for three consecutive calendar year quarters, projects would be required to divert 75 percent of their wastes. Greater than 75 percent diversion also may be required for a project if a higher goal is specified during discretionary permitting. Mixed debris recyclers in San Diego County currently achieve between 68 and 89 percent diversion rates at their facilities (refer to Appendix A). For a project that would dispose of mixed debris at one of the facilities that achieve a 65 percent diversion rate, virtually all clean C&D waste from a project must be source separated and sent to a material-specific recycling facility, such as aggregate and metal recyclers, in order to achieve a 75 percent diversion rate. Higher diversion rates can also be accomplished by salvage and/or on-site reuse of C&D materials.

In accordance with the ordinance, a properly completed *Waste Management Form – Part I* must be filed with the Building Permit or Demolition/Removal Permit application (see Appendix B to the WMP)

1.2 CEQA Significance Determination Thresholds

As stated in the City Development Services Department CEQA Significance Determination Thresholds (City 2016b), implementation of the City's local solid waste regulations and ordinances alone is not projected to achieve a 50 percent diversion rate, far below the current 75 percent diversion level targeted by the State and identified in the Zero Waste Plan for 2020. The City's Environmental Services Department (ESD) estimates that compliance with existing City ordinances and regulations alone achieves

only an approximate 40 percent diversion rate (City 2013). Therefore, discretionary projects must undertake additional measures to comply with existing regulations.

Direct Impacts

Discretionary projects that include the construction, demolition, or renovation of 1,000,000 SF or more of building space may generate approximately 1,500 tons of waste or more during C&D, and are considered to have direct impacts on solid waste services.

- Direct impacts result from the generation of large amounts of waste, which brings facilities closer to daily throughput limits, shortens facility lifespans, requires increased numbers of trucks and other equipment, and makes it difficult for the City to achieve required waste reduction levels. Waste management planning is based on a steady rate of waste generation and does not assume increased waste generation due to growth.
- While all projects are required to comply with the City's waste management ordinances, direct impacts are mitigated by the implementation of project-specific WMPs, which may reduce solid waste impacts to below a level of significance.
- For projects over 1,000,000 SF, a significant direct and cumulative solid waste impact would result if the compliance with the City's ordinances and the WMP fail to reduce the impacts of such projects to below a level of significance and/or if a WMP for the project is not prepared and conceptually approved by the ESD prior to distribution of the draft environmental document for public review.

Cumulative Impacts

Discretionary projects that include the construction, demolition, and/or renovation of 40,000 SF or more of building space may generate approximately 60 tons of waste or more, and are considered to have cumulative impacts on solid waste services.

- While all projects are required to comply with the City's waste management ordinances, cumulative impacts are typically mitigated by the implementation of a project-specific WMP that reduces solid waste impacts to below a level of significance.

Potential Project Impacts

As discussed in Section 2, the project, located at 5555 College Avenue in eastern San Diego, would involve the construction of an 52,690 SF church and would not include construction, demolition, or renovation of 1,000,000 SF or more of building space; therefore, the project would not generate more than 1,500 tons of solid waste materials during demolition and construction and direct impacts are not expected. However, the project proposes construction of more than 40,000 SF of building area, thereby exceeding the City's threshold for cumulative solid waste impacts without implementation of solid waste diversion measures.

Because implementation of the project without waste diversion measures may exceed cumulative solid waste thresholds, the City has required preparation of this WMP in compliance with CEQA and City Guidelines, to ensure that the project contribution to the overall waste produced within the City would be reduced sufficiently to allow the City to comply with the waste reduction targets established in the Public Resources Code and state statutes.

1.3 Exterior Refuse and Recyclable Materials Storage Area Requirements

Table 1, *Required Minimum Storage Areas for Nonresidential Development*, provides information on minimum exterior refuse and recyclable material storage areas for non-residential development. Based on these requirements, the project must provide a minimum of 144 SF of refuse storage area, 144 SF of recycling material storage area for a total minimum storage area of 288 SF.

Table 1
REQUIRED MINIMUM STORAGE AREAS FOR NONRESIDENTIAL DEVELOPMENT

Gross Floor Area (SF)	Minimum Refuse Storage Area (SF)	Minimum Recyclable Material Storage Area (SF)	Total Minimum Storage Area (SF)
0–5,000	12	12	24
5,001–10,000	24	24	48
10,001–25,000	48	48	96
25,001–50,000	96	96	192
50,001–75,000	144	144	288
75,001–100,000	192	192	384
100,001+	192+48 SF for every 25,000 SF of building area above 100,001	192+48 SF for every 25,000 SF of building area above 100,001	384+96 SF for every 25,000 SF of building area above 100,001

NOTE: SF = square feet

2. PROJECT LOCATION AND DESCRIPTION

The project consists of the development of a 52,690 SF sanctuary/multipurpose building (under one roof) and a 71,000 SF two level parking garage (367 parking spaces) on a six-acre undeveloped site in the City situated north of Interstate 8 and east of College Avenue in the Navajo Community Plan area (Figure 1, *Project Location Map and Aerial*. The undeveloped site is outside the City's Multiple Species Conservation Program preserve, the Multihabitat Planning Area. The proposed project would include a 900-seat church with accessory uses (i.e., Sunday school classrooms, offices, and a multipurpose room/gym), a parking structure and surface parking, site improvements, and off-site improvements to College Avenue. The project would also include on-site water quality basins to treat storm water runoff and a sewer/storm water connection to existing City facilities. A project site plan is contained in Figure 2, *Project Site Plan*. The project would require City approval of a Community Plan Amendment to modify the Navajo Community Plan, Planned Development Permit, Site Development Permit and various easement vacations via the Process 5 process.

In preparing the site for construction, the project would require removal of the existing vegetation and excess soil material and partial demolition of raised median and pavement within College Avenue. Grading is anticipated to require 35,000 CY of cut at a maximum depth of 24 feet; 15,000 CY would be used as fill material. The remaining 20,000 CY of excess soil material would be exported off site to other construction sites nearby. Off-site improvements within College Avenue would provide for a traffic signal and median break with turn lane to access the project site. The off-site improvements would remove 9,707 CY of asphalt, concrete and pavement. The project is anticipated to be constructed over a period of 12 months. Grading would take approximately 1 month and building construction would occur over a 11-month period. During project operation, the site would be served by private waste haulers who would bring waste to a City waste disposal facility.

Figure 1

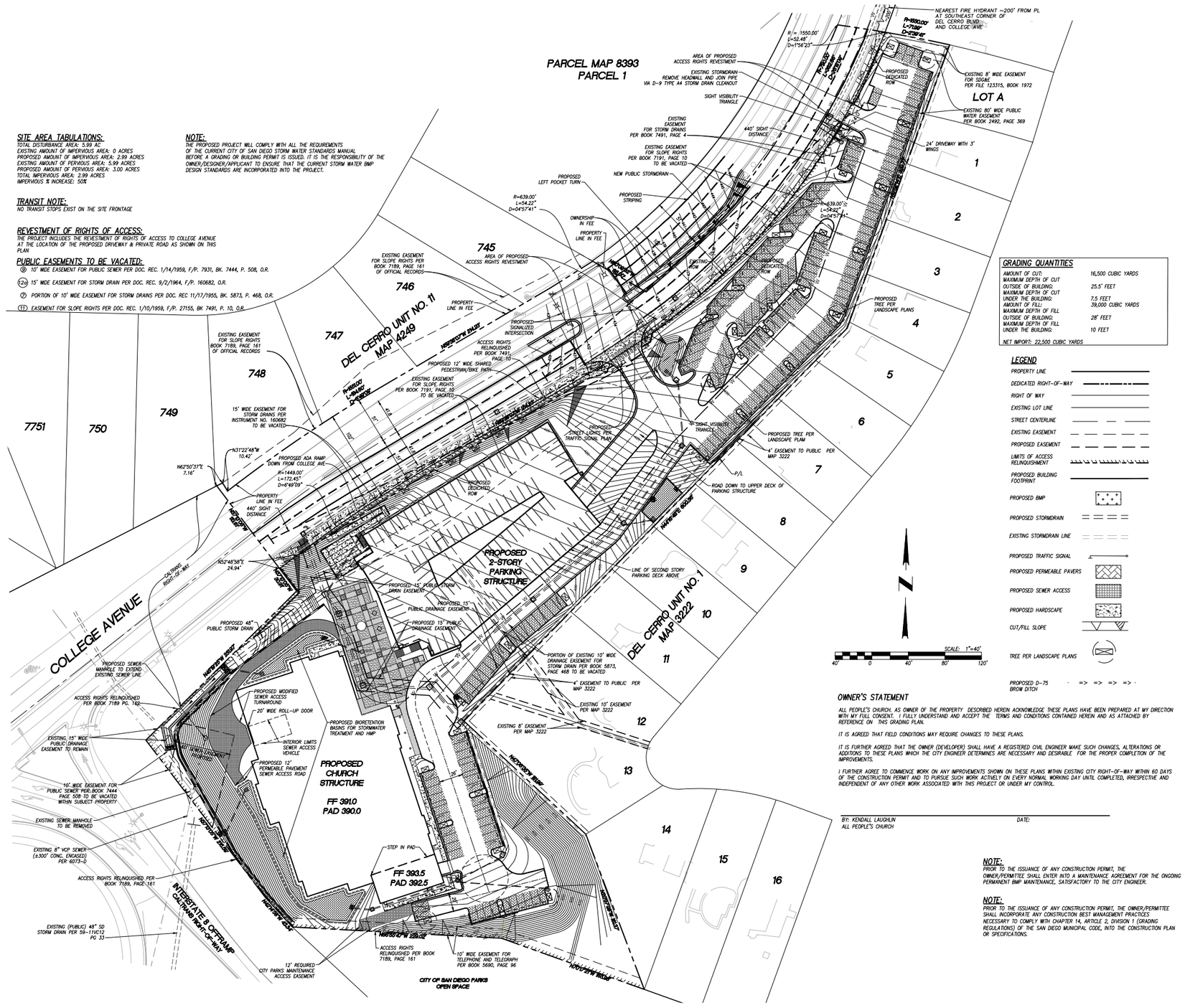
Project Location Map and Aerial

ALL PEOPLES CHURCH

BARANEK Consulting Group

N

0 400 Feet



SITE AREA TABULATIONS:

TOTAL DISTURBANCE AREA: 5.99 AC
EXISTING AMOUNT OF IMPERVIOUS AREA: 0 ACRES
PROPOSED AMOUNT OF IMPERVIOUS AREA: 2.99 ACRES
EXISTING AMOUNT OF PERVIOUS AREA: 5.99 ACRES
PROPOSED AMOUNT OF PERVIOUS AREA: 3.00 ACRES
TOTAL IMPERVIOUS AREA: 2.99 ACRES
IMPERVIOUS % INCREASE: 50%

TRANSIT NOTE:

NO TRANSIT STOPS EXIST ON THE SITE FRONTAGE

REVESTMENT OF RIGHTS OF ACCESS:

THE PROJECT INCLUDES THE REVESTMENT OF RIGHTS OF ACCESS TO COLLEGE AVENUE AT THE LOCATION OF THE PROPOSED DRIVEWAY & PRIVATE ROAD AS SHOWN ON THIS PLAN

PUBLIC EASEMENTS TO BE VACATED:

(9) 10' WIDE EASEMENT FOR PUBLIC SEWER PER DOC. REC. 1/14/1959, F/P. 7931, BK. 7444, P. 508, O.R.

(12a) 15' WIDE EASEMENT FOR STORM DRAIN PER DOC. REC. 9/2/1964, F/P. 160682, O.R.

(7) PORTION OF 10' WIDE EASEMENT FOR STORM DRAINS PER DOC. REC 11/17/1955, BK. 5873, P. 468, O.R.

(11) EASEMENT FOR SLOPE RIGHTS PER DOC. REC. 1/10/1959, F/P. 27155, BK 7491, P. 10, O.R.

NOTE:

THE PROPOSED PROJECT WILL COMPLY WITH ALL THE REQUIREMENTS OF THE CURRENT CITY OF SAN DIEGO STORM WATER STANDARDS MANUAL BEFORE A GRADING OR BUILDING PERMIT IS ISSUED. IT IS THE RESPONSIBILITY OF THE OWNER/DESIGNER/APPLICANT TO ENSURE THAT THE CURRENT STORM WATER BMP DESIGN STANDARDS ARE INCORPORATED INTO THE PROJECT.

GRADING QUANTITIES

AMOUNT OF CUT:	16,500 CUBIC YARDS
MAXIMUM DEPTH OF CUT OUTSIDE OF BUILDING:	25.5' FEET
MAXIMUM DEPTH OF CUT UNDER THE BUILDING:	7.5 FEET
AMOUNT OF FILL:	39,000 CUBIC YARDS
MAXIMUM DEPTH OF FILL OUTSIDE OF BUILDING:	28' FEET
MAXIMUM DEPTH OF FILL UNDER THE BUILDING:	10 FEET

NET IMPORT: 22,500 CUBIC YARDS

LEGEND

PROPERTY LINE
DEDICATED RIGHT-OF-WAY
RIGHT OF WAY
EXISTING LOT LINE
STREET CENTERLINE
EXISTING EASEMENT
PROPOSED EASEMENT
LIMITS OF ACCESS RELINQUISHMENT
PROPOSED BUILDING FOOTPRINT
PROPOSED BMP
PROPOSED STORMDRAIN
EXISTING STORMDRAIN LINE
PROPOSED TRAFFIC SIGNAL
PROPOSED PERMEABLE PAVERS
PROPOSED SEWER ACCESS
PROPOSED HARDSCAPE
CUT/FILL SLOPE
TREE PER LANDSCAPE PLANS
PROPOSED D-75 BROW DITCH

OWNER'S STATEMENT

ALL PEOPLE'S CHURCH, AS OWNER OF THE PROPERTY DESCRIBED HEREIN ACKNOWLEDGE THESE PLANS HAVE BEEN PREPARED AT MY DIRECTION WITH MY FULL CONSENT. I FULLY UNDERSTAND AND ACCEPT THE TERMS AND CONDITIONS CONTAINED HEREIN AND AS ATTACHED BY REFERENCE ON THIS GRADING PLAN.

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS.

IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE A REGISTERED CIVIL ENGINEER MAKE SUCH CHANGES, ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE CITY ENGINEER DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETION OF THE IMPROVEMENTS.

I FURTHER AGREE TO COMMENCE WORK ON ANY IMPROVEMENTS SHOWN ON THESE PLANS WITHIN EXISTING CITY RIGHT-OF-WAY WITHIN 60 DAYS OF THE CONSTRUCTION PERMIT AND TO PURSUE SUCH WORK ACTIVELY ON EVERY NORMAL WORKING DAY UNTIL COMPLETED, IRRESPECTIVE AND INDEPENDENT OF ANY OTHER WORK ASSOCIATED WITH THIS PROJECT OR UNDER MY CONTROL.

BY: KENDALL LAUGHLIN
ALL PEOPLE'S CHURCH

DATE:

NOTE:

PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMIT, THE OWNER/PERMITTEE SHALL ENTER INTO A MAINTENANCE AGREEMENT FOR THE ONGOING PERMANENT BMP MAINTENANCE, SATISFACTORY TO THE CITY ENGINEER.

NOTE:

PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMIT, THE OWNER/PERMITTEE SHALL INCORPORATE ANY CONSTRUCTION BEST MANAGEMENT PRACTICES NECESSARY TO COMPLY WITH CHAPTER 14, ARTICLE 2, DIVISION 1 (GRADING REGULATIONS) OF THE SAN DIEGO MUNICIPAL CODE, INTO THE CONSTRUCTION PLAN OR SPECIFICATIONS.

Source: Pasco Laret Suiter and Associates 2020

Figure 2

Project Site Plan

ALL PEOPLES CHURCH

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3. PRECONSTRUCTION WASTE GENERATION AND DIVERSION

The City's *2020 Certified Construction & Demolition Recycling Facility Directory* (Appendix A) provides guidance on identifying recycling/reuse facility locations, accepted materials, recycling/reuse rates, and associated disposal fees and/or the value of the materials accepted for recycling/reuse. The California Department of Resources Recycling and Recovery's (CalRecycle) online *Recycled-Content Product Manufacturers* (http://www.calrecycle.ca.gov/RCPM/) provides the name of product manufacturers offering source materials made with recycled materials. Waste disposal sites and recycling methods and opportunities may change from those available in listed locations; however, it is not expected that the named waste diversion and disposal sites noted herein would change by the time the project is anticipated to begin construction.

All C&D-generated waste would be subject to compliance with the source separation and diversion requirements contained in this WMP to divert, recycle, and/or re-use these materials to the maximum degree possible. "Mixed C&D Debris" recyclers attain at most an 85 percent diversion rate, whereas as identified in the City's *2020 Certified Construction & Demolition Recycling Facility Directory* (Appendix A), "source separated" material recyclers can attain nearly 100 percent diversion rates. As a result, in order to achieve the highest level of waste diversion from landfills, and highest dollar value for the quality of materials, the project would source separate (segregate) clean recyclable materials on the site by material type and divert them for recycling or reuse at City-certified facilities specializing in each material type.

Responsibility for ensuring ongoing WMP compliance would be under the direction of the Project Solid Waste Management Coordinator (SWMC), as assigned by All Peoples Church (Applicant). The SWMC will have the authority to provide guidelines and procedures for contractor(s) and staff to implement waste reduction and recycling efforts. These responsibilities will be, but not be limited to, the following:

- Review and understand the WMP, including responsibilities of the SWMC.
- Communicate waste reduction and recycling goals to all contractors and subcontractors, and ensure material separation and coordinate proper disposal and diversion of waste generated.
- Work with contractor(s) to estimate quantities of each type of material that will be salvaged, recycled, or disposed of as waste, then assist contractor(s) with documentation.
- Review and update procedures as needed for material separation and verify availability of containers and bins needed to avoid delays.
- Review and update procedures for periodic solid waste collection and transportation to recycling and disposal facilities.
- Review and update solid waste management requirements for each trade.
- Possess the authority to issue stop work orders if proper procedures are not being followed.

3.1 Clearing and Grubbing

Site preparation would require the clearing/grubbing of existing vegetation. Other waste materials associated with the clearing and grubbing are anticipated to include negligible amounts of waste generated by contractors working on the site during the grading process.

The project is anticipated to require net export of approximately 3,363 tons of removed vegetation (clearing and grubbing) during site preparation process. This estimate is based on the City's *C&D Debris Conversion Rate Table*, which identifies a weight of 0.15 tons/CY of vegetation (Appendix C). The vegetation removal estimate is based on the fact that the nearly the entire site would be graded, except for 0.39 acres as noted on the project grading plan (Pasco Laret Suiter 2020). Approximately 3.0 acres of the 5.6-acre graded area contains Diegan coastal sage scrub, while the balance of the site features 1.4 acres of non-native grassland/ornamental habitat, 1.2 acres of disturbed habitat, 0.3 acres of eucalyptus woodland (Alden Environmental 2020). About 0.6 acres of off-site grading would disturb developed areas containing pavement within College Avenue.

For vegetative material estimating purposes, it was assumed that the 3.0-acre (130,680 SF) Diegan coastal sage scrub averages 2 feet in height, equating to 261,360 cubic feet or 9,680 CY of vegetation. The non-native/ornamental vegetation volume was determined based on the existing approximately 60,984 SF of vegetated area and an average vegetation height of 6 inches, which would equate to approximately 30,492 cubic feet or 1,129 CY. Assuming a 52,272 SF area at an average vegetation height of 1 foot, the disturbed habitat would produce 52,272 cubic feet (or 1,936 CY) of material. The 0.3-acre eucalyptus woodland would generate 261,360 cubic feet or 9,680 CY of vegetation, assuming a 20-foot-tall canopy. Thus, a total of 605,484 cubic feet or 22,425 CY of waste vegetation would be produced during site preparation. Vegetation would be processed and recycled at a target rate of 100 percent diversion of vegetation waste at Miramar Greenery, a City-certified green waste recycling facility (Appendix A).

In addition to vegetation clearing, approximately 9,707 CY or 11,648 tons of asphalt/concrete would be removed from along College Avenue near the project site entrance and frontage during the site preparation process. This estimate is based the City's *C&D Debris Conversion Rate Table*, which identifies a weight of 1.2 tons/CY for concrete construction debris (Appendix C). Asphalt and concrete would be recycled at one of the listed asphalt/concrete recycling facilities (likely the Hanson Aggregates West – Miramar site), resulting in a 100 percent diversion rate. Table 2, *Preconstruction Solid Waste Generation and Diversion*, contains a summary of the preconstruction waste that would be generated by the project.

Table 2
PRECONSTRUCTION SOLID WASTE GENERATION AND DIVERSION

Phase	Material	Volume[1] (CY)	Tons/Unit Conversion Factor	Tons	Diversion Rate (Percent)[2]	Recycling Facility/ Destination[3]	Tons Diverted	Tons Disposed
Clearing/ Grubbing	Vegetation Debris	22,425	0.15	3,363	100	A	3,363	0
Demolition	Asphalt and Concrete	9,707	1.2	11,648	100	B	11,648	0
Grading	Soil Export	22,500	1.3	29,250	100	C	29,250	0
			TOTAL	**44,261**	**100**	**—**	**44,261**	**0**

SOURCES: Paso Laret Suiter 2020; Alden Environmental 2020; City of San Diego *2020 Certified Construction & Demolition Recycling Facility Directory* (Appendix A); City of San Diego C&D Debris Conversion Rate Table (Appendix C)

NOTES:

CY = cubic yards

1 Table information subject to field verification during preconstruction.
2 Total diversion rate based on the percentage of total tons of waste diverted over the total tons of waste generated.
3 If for any reason listed facilities are not available, the Applicant would contract with another source separating recycling facility listed in the City's *2020 Certified Construction & Demolition Recycling Facility Directory* with an equal or greater diversion rate to ensure diversion rates meet those estimated in this table.

RECYCLING FACILITY/DESTINATION KEY:

A = Miramar Greenery, 5180 Convoy Street, San Diego, CA 92111
B = Hanson Aggregates, 9229 Harris Plant Road, San Diego, CA 92126
C = Disposal site to be identified at the time of construction initiation

3.2 Grading

According to the preliminary grading, the project would generate 22,500 CY (29,250 tons) of excess soil material during the grading process that would need to be exported off site (Pasco Laret Suiter 2020). Estimates were based the City's *C&D Debris Conversion Rate Table*, which identifies an excavated soil weight of 1.30 tons/CY (Appendix C of the WMP). Excavated soil is anticipated to be diverted at a rate of 100 percent, based upon the City's *2020 Certified Construction & Demolition Recycling Facility Directory* (Table 2; plus Appendix A of the WMP). Excavated soils not proposed for fill on site are anticipated to be diverted to construction sites in San Diego. Other waste materials associated with grading are anticipated to include negligible amounts of garbage waste generated by contractors working on site during the site preparation process.

During the project's preconstruction phase, an overall 100 percent diversion rate is targeted for materials generated during preconstruction activities, as shown in Table 2. From preconstruction to occupancy of the project, the WMP will provide contractors guidelines to ensure the proper reduction, segregation, recycling, and disposal of demolition, and construction waste. Proper segregation of recyclable materials is required based on type of materials generated and the availability of recycling facilities able to accept those materials. This responsibility will be under the direction of the assigned SWMC.

The project SWMC will coordinate with ESD and/or Mitigation Monitoring staff, including regular communication and invitations to the work site. An invitation will be extended to an ESD representative at least 7 days prior to attend each preconstruction meeting of each phase of the development.

4. CONSTRUCTION WASTE GENERATION AND DIVERSION

As previously described, the project proposes construction of a 52,680 SF church and 71,010 SF structured parking garage (equating to 52,680 SF of new non-residential building area) with associated landscaped open space, internal drives, parking and utility infrastructure. The project also includes improvements to College Avenue that would modify the center median to provide for a turn lane and striping to provide a new bike lane, along the project frontage.

The church building (A-3 assembly occupancy) and adjoining parking structure (S-2 parking garage occupancy) would be considered as Type III-B construction. The church building would be constructed of tilt-up concrete walls with concrete slab on grade for the first floor and concrete over steel decking for the second floor. The roofing would be a built-up four-ply asphalt system constructed over steel bar joist and plywood panels with certain pitched roof areas covered with light weight concrete tiles. The parking structure would incorporate tilt-up wall construction in combination with precast concrete planks. Interior finishes will include exposed concrete, carpet and vinyl tiles for the flooring. Ceramic tile would be placed over portions of the walls. All of the interior walls would be constructed of metal studs and drywall and insulated with fiberglass batts.

Based on the type of structures proposed, the following building materials are likely to generate waste during construction:

- Wood
- Drywall
- Asphalt and Concrete
- Brick/Masonry/Tile
- Mixed Debris
- Cardboard
- Scrap Metals
- Roofing Materials
- Plastics and Foam Packaging
- Textiles/Carpet/Carpet Padding
- Unpainted Wood/Pallets
- Landscape Debris

According to the U.S. Environmental Protection Agency, commercial construction projects typically generate 3.9 pounds of construction waste per SF of building construction. Based on these estimates, construction waste generated by the project is shown in Table 3, *All Peoples Church Construction Waste Generation*, and would total appropriately 241 tons.

Table 3
ALL PEOPLES CHURCH CONSTRUCTION WASTE GENERATION

Building Type	Size (SF)	Generation Rate (pounds per SF)	Tons Generated
Commercial/Parking Structure Space	123,690	3.9	241
		TOTAL	**241**

In addition to the construction debris noted above, a negligible amount of trash would be generated by contractors working on site during the grading process. Trash generated on site would be collected by a commercial trash collection company and taken to the Miramar Landfill.

4.1 Construction Waste Generation and Diversion

Diversion and disposal of these construction materials is estimated below for the project in Table 4, *Construction Waste Generation and Diversion Rates*, based on the project's diversion rate goals, while Table 5, *Construction Solid Waste Diversion Facilities*, provides a listing of the diversion facilities by waste type.

Table 4
CONSTRUCTION WASTE GENERATION AND DIVERSION RATES

Source	Waste Material	Estimated Waste (tons)	Diversion Rate (percent)[1]	Estimated Diverted (tons)[2]	Estimated Disposed (tons)
Building Construction (52,680 SF)	Asphalt/Concrete	24.1	100	24.1	0
	Brick/Masonry/Tile	24.1	100	24.1	0
	Cardboard	24.1	100	24.1	0
	Carpet/padding	24.1	68	16.3	7.8
	Drywall	24.1	68	16.3	7.8
	Landscape Debris	24.1	100	24.1	0
	Mixed Debris	24.1	68	16.3	7.8
	Roofing Materials	24.1	100	24.1	0
	Scrap Metal	24.1	100	24.1	0
	Unpainted Wood	24.1	100	24.1	0
	Trash	24.1	0	0	24.1
Parking Structure Construction (71,010 SF)	Asphalt/Concrete	24.1	100	24.1	0
	Scrap Metal	24.1	100	24.1	0
	Trash	24.1	0	0	0
		TOTAL	**74**	**270.1**	**47.5**

NOTES:

[1] Facilities that process metals, concrete/asphalt, and wood all achieve a 100 percent diversion rate for these materials. Although the facility directory indicates that drywall and carpet/carpet padding would achieve a 100 percent diversion rate, City staff have indicated that applicable facilities to handle these types of construction debris may not be available and these materials should be assumed to be sent to a mixed debris facility with a 68 percent diversion rate (City 2020). Facilities that process mixed debris achieve a minimum 68 percent diversion rate, which was conservatively assumed for this project (City 2020; Appendix A).

[2] For each material type, construction waste quantities are calculated based on:
3.9 lbs of waste per building SF (e.g., 123,690 SF for buildings x 3.9 lbs per SF = 482,391 lbs, or 241 tons);
Total construction material required x 10 percent = anticipated quantity of construction waste generated (24.1 tons)

Table 5
CONSTRUCTION SOLID WASTE DIVERSION FACILITIES

Material	Diversion Goals (percent)	Destination[1]
Asphalt/Concrete	100	Hanson Aggregates 9229 Harris Plant Road San Diego, CA 92126
Brick/Masonry/Tile	100	Vulcan Carroll Canyon Landfill and Recycling 10051 Black Mountain Road San Diego, CA 92126
Cardboard	100	Allan Company Miramar Recycling 5165 Convoy Street San Diego, CA 92111
Carpet/padding	68	DFS Flooring 10178 Willow Creek Road San Diego, CA 92131
Drywall	68	EDCO Station Transfer Station & Buy Back Center 8184 Commercial Street La Mesa, CA 91942
Landscape Debris	100	Miramar Greenery 5180 Convoy Street San Diego, CA 92111
Mixed Debris	68	Otay C&D/Inert Debris Processing Facility 1700 Maxwell Road Chula Vista, CA 91913
Roofing Materials	100	LEED Recycling 8725 Miramar Place San Diego, CA 92121
Scrap Metal	100	Allan Company Miramar Recycling 5165 Convoy Street San Diego, CA 92111
Unpainted Wood	100	Miramar Greenery 5180 Convoy Street San Diego, CA 92111

NOTE:

[1] Trash would be taken to the Miramar Landfill (5180 Convoy Street, San Diego, CA 92111) at a 0 percent diversion rate. All other construction debris would be taken to an appropriate facility listed on the City's Certified Construction & Demolition Recycling Facility Directory.

Construction debris would be separated onsite into material-specific containers, corresponding to the materials types in Table 5, to facilitate reuse and recycling and to increase the efficiency of waste reclamation. Because the project construction and materials details are preliminary and the estimated quantities in Table 4 are theoretical, the project is committed to implementing programs to divert a minimum 75 percent of construction debris from landfills.

4.2 Post-consumer Content Construction Materials

In order to further minimize waste, the project would utilize recycled content construction materials, where possible. The contractor may identify products with recycled content by consulting the state's database (http://www.calrecycle.ca.gov/RCPM/) or product representatives. Given the preliminary nature of the project plans, an overall target of 5 percent of the total value of materials purchased for project construction activities would be either post-consumer recycled or pre-consumer recycled materials. Receipts demonstrating post-consumer content would be provided to ESD staff at or prior to the preconstruction meeting(s).

5. OCCUPANCY WASTE GENERATION AND DIVERSION

The project would be managed under the Applicant or its designee(s). The City's Storage Ordinance (SDMC Section 142.0801 et. seq.) requires the provision of separate bins for recyclable waste products to be separated from non-recyclable solid waste. Recycling facilities would be provided within the garages for each residential unit in compliance with the Storage Ordinance, meeting or exceeding the minimums.

The Applicant or its designee(s), would educate the congregation and employee populations regarding the appropriate waste diversion program to ensure the proper handling of waste. Each employee would be educated on the principles of proper waste handling and diversion to meet the Applicant's goal to reduce/reuse/recycle. The 52,680 SF church would feature a large assembly area with ancillary support areas, accompanied by 10,517 SF of classroom space, a 426 SF kitchen, 401 SF bookstore, 7,359 SF of office space and (Kenneth Smith Architect & Associates 2020). Because the assembly area contains seating and is not a waste-generating space, the estimate in Table 6, *Annual Solid Waste Generation during Project Occupancy*, applies the office waste generation rate to the classroom, office and bookstore spaces within the church, while the restaurant rate is applied to the kitchen space. It should be noted that the proposed project would not be fully occupied every day of the year due to its primarily weekend use characteristics; therefore, the waste estimates provided below are highly conservative. As shown in Table 6, the expected operational waste generated by the All People Church project annually taking into account compliance with City regulations on diversion would be approximately 33.8 tons.

Table 6
ANNUAL SOLID WASTE GENERATION DURING PROJECT OCCUPANCY

Land Use[1]	SF	Waste Generation Factor (tons/year/SF)	Tons Generated (per year)	Expected Percent Diverted from Source-Separated Recycling[2,3]	Estimated Diverted (per year)	Estimated Disposed (per year)
Office	18,277	0.0028	51.2	40	20.5	30.7
Restaurant	426	0.0122	5.2	40	2.1	3.1
				TOTAL	**22.6**	**33.8**

SOURCE: City 2012 (Appendix D of the WMP)

NOTES:

1 Excludes assembly space and related common areas, such as entry lobby, storage, band area, multipurpose gymnasium, reception spaces and utility spaces.
2 Reflects compliance with existing City Storage Ordinance and City Recycling Ordinance.
3 The Applicant would contract with City-approved recycling haulers and disposal facilities.

On-site recycling services will be provided and will include a recycling program that requires separating recyclable materials from other solid waste by depositing the recycling materials into designated containers. Recycling services are required by City of San Diego Land Development Code Section 66.0707.

In order to get closer to meeting the 75 percent diversion target for office uses, common area landscaping would be maintained by professional landscape contractors who would be required to divert all landscape greenery directly to a greenery recycling yard, such as and diverted to Miramar Greenery, for a diversion rate of 100 percent. Thus, the actual diversion levels would be higher than 22.6 tons per year.

6. CONCLUSION

The project proposes construction of more than 40,000 SF of building area, thus exceeding the City's threshold for cumulative solid waste impacts without implementation of solid waste diversion measures. The City Development Services Department is requiring that this WMP be prepared and submitted to the City's ESD.

Based on the quantified waste generation and diversion rates discussed above, the project would meet the 75 percent solid waste diversion rate for waste produced during the construction phases. The project would, however, fail to meet the 75 percent waste reduction target annually once the building is occupied. Nonetheless, the project would result in less-than-significant direct and cumulative impacts to solid waste facilities as follows:

- Project construction activities would fall below the City's *CEQA Significance Determination Threshold* (generation of more than 1,500 tons of solid waste materials) for direct impacts to solid waste facilities during construction (i.e., 47.5 tons of C&D materials to Miramar Landfill).
- Project operations would dispose of 33.8 tons of solid waste to Miramar Landfill, which would not exceed the City's *CEQA Significance Determination Threshold* (of 60 tons or more of waste) for cumulative impacts to solid waste services.

The operational diversion rates noted in Table 6 would be assured when the project provides trash and recycling storage space per the City Storage Ordinance and complies with the City Recycling Ordinance by providing adequate space, bins, and educational materials for recycling during unit occupancy. Therefore, the project's contribution to cumulative solid waste generation would be less than considerable.

This WMP will be implemented to the fullest degree of accuracy and efficiency. Additionally, the project will be required to adhere to City Ordinances, including the Construction and Demolition Debris Diversion Deposit Program, the City's Recycling Ordinance, and the Refuse and Recyclable Materials Storages Regulations. The WMP for the project is designed to implement and adhere to all City ordinance and regulations related to solid waste management.

Prior to the issuance of any grading or construction permit, the Solid Waste Coordinator will ensure ESD's attendance at a preconstruction meeting. The Solid Waste Coordinator will ensure that (1) the proposed approach to the contractor education is approved; (2) the written specifications for base materials, concrete pavers, decomposed granite, and mulch is approved; and (3) the ESD inspector approved the separate waste containers, signage, and hauling contractors for the following materials:

- Asphalt/concrete
- Brick/masonry/tile
- Cardboard
- Carpet/padding/foam
- Drywall
- Landscape debris
- Mixed C&D debris
- Scrap metal
- Untreated wood waste
- Refuse/garbage/trash

The project would be designed to achieve 75 percent of construction waste to be source reduced and/or recycled. While diversion activities during occupancy would achieve only 40 percent diversion and would not achieve the State target of 75 percent, the project incorporates several measures above and beyond the requirements of the local ordinances. Specifically, the project would:

- Exceed the local C&D ordinance and even the State waste reduction target during construction.
- Include landscaping that would reduce yard waste and transport yard waste to a composting facility (Miramar Greenery).
- Ensure that ESD reviews the landscape plans and hauling contract to verify that landscape yard waste reduction goals are met.
- Target 5 percent recycled content of construction materials and 75 percent for landfill diversion.

The above project efforts would ensure that the solid waste generated by the project would be properly managed and that the City's solid waste services would not be significantly impacted by the proposed project.

7. REFERENCES

Alden Environmental

2020 *Biological Technical Report for the All Peoples Church Project in the City of San Diego, California*. March.

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2020 CalRecycle Recycled Content Products Directory: https://www2.calrecycle.ca.gov/buyrecycled/manufacturers/directory/.

City of San Diego (City)

2020 *2020 Certified Construction & Demolition Recycling Facility Directory*. Environmental Services Department. January 1.

2018 *Recycling Collection Service Providers for Businesses and Multi-Family Complexes*. August 29.

2016a *Waste Management Form – Part I, Construction & Demolition (C&D) Debris Deposit Program*. June 7.

2016b *California Environmental Quality Act Significance Determination Thresholds*. Development Services Department. Available at: http://www.sandiego.gov/development-services/pdf/news/sdtcega.pdf. July.

2016c *City of San Diego Construction & Demolition (C&D) Debris Conversion Rate Table*. August 6.

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2007 *Recycling Ordinance* (Municipal Code Chapter 6, Article 6, Division 7). November.

1997 *Refuse and Recyclable Materials Storage Regulations* (Municipal Code Chapter 14, Article 2 Division 8). December 9.

Kenneth D. Smith & Associates

2020 All Peoples Church Architectural Drawings. March.

Pasco Laret Suiter

2020 All Peoples Church Site Plan and Grading Plan Set. March.

State of California (State)

1989 *California Integrated Waste Management Act of 1989*. State of California Assembly Bill 939.

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Appendix A

2020 Certified Construction & Demolition Recycling Facility Directory

2020 Certified Construction & Demolition (C&D) Recycling Facility Directory

These facilities are certified by the City of San Diego to accept materials listed in each category. Hazardous materials are not accepted. The diversion rate for these materials shall be considered 100 percent, except mixed C&D debris, which update quarterly. The City is not responsible for changes in facility information. Please call ahead to confirm details such as accepted materials, days and hours of operation, limitations on vehicle types, and cost. For more information visit: www.recyclingworks.com

Transfer Stations offer both recycling and trash disposal services. In order to receive recycling credit, you must: *-Notify the weighmaster your load is subject to the City of San Diego C&D Ordinance.* *-If your load is mixed Construction and Demolition (C&D) debris, ensure it is coded correctly on the receipt. Tickets coded as "**MSW, trash or refuse**" will receive 0% credit.* *-Ensure the project address and Permit number are added to the receipt.* ***Please note: Miramar Landfill and other landfills DO NOT recycle mixed C&D debris.***	Mixed C&D Debris	Asphalt/Concrete	Brick/Block/Rock	Building Materials for Reuse	Cardboard	Carpet	Carpet Padding	Ceiling Tile	Ceramic Tile/Porcelain	Clean Fill Dirt	Clean Wood/Green Waste	Drywall	Industrial Plastics	Lamps/Light Fixtures	Metal	Mixed Inerts	Styrofoam Blocks	Trash
EDCO Recovery & Transfer 3660 Dalbergia St, San Diego, CA 92113 619-234-7774 | www.edcodisposal.com	68%	•										•						•
EDCO Station Transfer Station & Buy Back Center 8184 Commercial St, La Mesa, CA 91942 619-466-3355 | www.edcodisposal.com	68%	•			•							•			•			•
EDCO CDI Recycling & Buy Back Center 224 S. Las Posas Rd, San Marcos, CA 92078 760-744-2700 | www.edcodisposal.com	89%				•	•	•								•			•
Escondido Resource Recovery 1044 W. Washington Ave, Escondido 760-745-3203 | www.edcodisposal.com	68%																	
Fallbrook Transfer Station & Buy Back Center 550 W. Aviation Rd, Fallbrook, CA 92028 760-728-6114 | www.edcodisposal.com	68%				•										•			•
Otay C&D/Inert Debris Processing Facility 1700 Maxwell Rd, Chula Vista, CA 91913 619-421-3773 | www.sd.disposal.com	87%																	
Ramona Transfer Station & Buy Back Center 324 Maple St, Ramona, CA 92065 760-789-0516 | www.edcodisposal.com	68%				•										•			•
SANCO Resource Recovery & Buy Back Center 6750 Federal Blvd, Lemon Grove, CA 91945 619-287-5696 | www.edcodisposal.com	68%				•	•	•								•			
Allan Company 6733 Consolidated Wy, San Diego, CA 92121 858-578-9300 | www.allancompany.com/facilities					•										•			
Allan Company Miramar Recycling 5165 Convoy St, San Diego, CA 92111 858-268-8971 | www.allancompany.com/facilities					•										•			
Armstrong World Industries, Inc. 300 S. Myrida St, Pensacola, FL 32505 877-276-7876 (Press 1, Then 8) www.armstrong.com/commceilingsna								•										
CMS Recycling Inc. 1428 West Mission Rd, Escondido, CA 92029 760-741-6300 | www.cmsmetals.com					•										•			
DFS Flooring 10178 Willow Creek Rd, San Diego, CA 92131 858-630-5200 | www.dfsflooring.com						•	•											

Transfer Stations offer both recycling and trash disposal services. In order to receive recycling credit, you must: *-Notify the weighmaster your load is subject to the City of San Diego C&D Ordinance.* *-If your load is mixed Construction and Demolition (C&D) debris, ensure it is coded correctly on the receipt. Tickets coded as "**MSW, trash or refuse**" will receive 0% credit.* *-Ensure the project address and Permit number are added to the receipt.* ***Please note: Miramar Landfill and other landfills DO NOT recycle mixed C&D debris.***	Mixed C&D Debris	Asphalt/Concrete	Brick/Block/Rock	Building Materials for Reuse	Cardboard	Carpet	Carpet Padding	Ceiling Tile	Ceramic Tile/Porcelain	Clean Fill Dirt	Clean Wood/Green Waste	Drywall	Industrial Plastics	Lamps/Light Fixtures	Metal	Mixed Inerts	Styrofoam Blocks	Trash
Duco Metals *220 Bingham Drive Suite 100, San Marcos, CA 92069* *760-747-6330 /* www.ducometals.com															•			
Escondido Materials 500 N. Tulip St, Escondido, CA 92025 760-432-4690 | www.weirasphalt.com		•																
Habitat for Humanity ReStore 8101 Mercury Ct, San Diego, CA 92108 619-516-5267 | www.sandiegohabitat.org				•														
Hanson Aggregates – Hollister St 389 Hollister St, San Diego, CA 92154 858-974-3849		•																
Hanson Aggregates West – Lakeside Plant 12560 Highway 67, Lakeside, CA 92040 858-547-2141		•																
Hanson Aggregates West – Miramar 9229 Harris Plant Rd, San Diego, CA 92126 858-974-3849		•								•								
HVAC Exchange 2675 Faivre St, Chula Vista, CA 91911 619-423-1564 | www.hvacx.com															•			
Inland Pacific Resource Recovery 12650 Slaughterhouse Canyon Rd, Lakeside, CA 92040 619-390-1418 | www.iprrgreen.com											•							
Los Angeles Fiber Company 4920 S. Boyle Ave, Vernon, CA 90058 323-589-5637 | www.lafiber.com						•	•											
Miramar Greenery, City of San Diego 5180 Convoy St, San Diego, CA 92111 858-694-7000 | www.miramargreenery.com											•							
Moody's 3210 Oceanside Blvd, Oceanside, CA 92056 760-433-3316 | www.moodyselcorazonrecycling.com		•								•						•		
Planet Recycling 187 Mace St, Chula Vista, CA 91911 888-258-7755 | www.planetrecyclingphoenix.com						•												
RAMCO 8354 Nelson Way, Escondido, CA 92026 760-205-1797 | www.ramco.us.com		•																
Reclaimed Aggregates Chula Vista 855 Energy Way, Chula Vista, CA 91913 619-656-1836		•														•		
Robertson's Ready Mix 2094 Willow Glen Dr, El Cajon, CA 92019 619-593-1856 | www.rrmca.com		•								•						•		
Rockridge Crushing 12485 Highway 67, Lakeside, CA 92040 619-324-6570		•																
SA Recycling 3055 Commercial St, San Diego, CA 92113 619-238-6740 | www.sarecycling.com															•			

Transfer Stations offer both recycling and trash disposal services. In order to receive recycling credit, you must: *-Notify the weighmaster your load is subject to the City of San Diego C&D Ordinance.* *-If your load is mixed Construction and Demolition (C&D) debris, ensure it is coded correctly on the receipt. Tickets coded as "**MSW, trash or refuse**" will receive 0% credit.* *-Ensure the project address and Permit number are added to the receipt.* ***Please note: Miramar Landfill and other landfills DO NOT recycle mixed C&D debris.***	Mixed C&D Debris	Asphalt/Concrete	Brick/Block/Rock	Building Materials for Reuse	Cardboard	Carpet	Carpet Padding	Ceiling Tile	Ceramic Tile/Porcelain	Clean Fill Dirt	Clean Wood/Green Waste	Drywall	Industrial Plastics	Lamps/Light Fixtures	Metal	Mixed Inerts	Styrofoam Blocks	Trash
SA Recycling 1211 S. 32nd St, San Diego, CA 92113 619-234-6691 | www.sarecycling.com															•			
SCOR Industries 2321 South Willow Ave, Bloomington, CA 92316 909-820-5046 | www.scorindustries.com		•	•		•				•		•	•	•		•	•		
Terra Bella Nursery 302 Hollister St, San Diego, CA 92154 619-585-1118 | www.terrabellanursery.com										•	•							
Vulcan Carol Canyon Landfill and Recycle Site 10051 Black Mountain Rd, San Diego, CA 92126 858-530-9465 | www.vulcanmaterials.com		•	•							•						•		
Vulcan Materials Company 2275 Hard Rock Rd, Chula Vista, CA 91913 858-530-9472| www.vulcanmaterials.com		•																
Vulcan Otay Asphalt Recycle Center 7522 Paseo de la Fuente, San Diego, CA 92154 619-571-1945 | www.vulcanmaterials.com		•																

Appendix B

Waste Management Form – Part I

Waste Management Form – Part I
Construction & Demolition (C&D) Debris Deposit Program

Required for projects described in Municipal Code §66.0601-66.0610.

Deposit will be fully refunded if debris generated from the project is recycled at the required rate.* If the minimum required recycling rate is not met, the deposit refund will be prorated. **Refund request must be submitted within 180 days from final inspection** and must be accompanied by weigh tickets for ALL debris generated, including all trash, reuse and recycling.

Complete Part I before obtaining a building, combination or demolition permit.
Submit this form and your deposit to the Development Services Department staff at permit issuance.

Refundable Party Contact Information:

Name _____ Title _____ Company _____

Address _____ City _____ State _____ Zip _____

Phone _____ Email _____

Project Information:

Approval/Permit No. _____ Project Title _____

Project Address _____ Zip _____

Project Type: ☐ *New Construction* ☐ *Addition/Alteration* ☐ *Demolition*

Building Type: ☐ *Commercial* ☐ *Residential*

Estimated Square Feet _____

Estimated Start Date _____/_____/_____

Estimated Completion Date _____/_____/_____

TO BE FILLED OUT BY DSD STAFF
"C&D Deposit" Paid $_____
Invoice # _____ Date Paid _____

Fill out the table with *estimated* quantities in tons for each material that will be generated by your project. **Note: A + B = C**
Please use the ***City Construction and Demolition Debris Conversion Table*** if converting from volume to tonnage.

Material Type	A *Estimated* Salvage, Reuse or Recycle	B *Estimated* Disposal (Trash)	C *Estimated* Total Debris Quantity	Hauler	Certified Recycling Facility or Disposal Destination
Asphalt & Concrete					
Brick / Masonry / Tile					
Cabinets, Doors, Fixtures, Windows (circle all that apply)					
Cardboard					
Carpet, Padding / Foam					
Ceiling Tile (acoustic)					
Dirt					
Drywall					
Landscape Debris					
Mixed C&D Debris					
Mixed Inerts					
Roofing Materials					
Scrap Metal					
Stucco					
Unpainted Wood & Pallets					
Garbage / Trash					
Other:					
TOTAL					

*** Diversion Requirement: 50% for permits issued through June 30, 2016, and 65% for permits issued starting on July 1, 2016.**
To estimate Recycling Rate: (Total A/Total C) x 100 = Recycling %

C&D debris may contain paint, asbestos, mercury switches, light bulbs, ballasts or other hazardous wastes that require removal prior to disposal. The Miramar Landfill cannot accept hazardous waste. For information on waste acceptance at the Miramar Landfill, call (858) 694-7000.

Waste Management Form – Part II
Construction & Demolition (C&D) Debris Deposit Program

Required for projects described in Municipal Code §66.0601-66.0610.

Complete Part II after final inspection.
Submit with ALL trash, salvage, reuse and recycling weigh tickets.

Send this completed form and all documentation:

By Mail

City of San Diego
Environmental Services Department
Attn: C&D Diversion Coordinator
9601 Ridgehaven Court, Suite 320
San Diego, CA 92123-1636

By Fax

Attn: C&D Diversion Coordinator
(858) 492-5089

By Email

ESD_CD@sandiego.gov

Applicants must submit refund requests within 180 days from project final inspection. Requests submitted after 180 days will not be eligible for a refund. Refunds will not be issued if all requested information and documentation is not provided. Refunds will be mailed within 45 business days following receipt of all proper forms and documentations. If the minimum required recycling rate is not met, the deposit refund will be prorated.

Project Information

Approval/Permit No. _____ Project No. _____ Project Title _____

Final Inspection Date _____/_____/_____ Project Address _____

Affirmation

Applicant is advised of San Diego Municipal Code section 11.0401(b) which states: "No person willfully shall make a false statement or fail to report any material fact in any application for City license, permit, certificate, employment or other City action under the provisions of the San Diego Municipal Code."

I certify under penalty of perjury under the laws of the State of California that the information provided in and with this form pertains to construction and demolition debris generated only from the project listed in Part I, that I have reviewed the accuracy of the information, and that the information is true and correct to the best of my knowledge and belief.

Name _____ Title _____ Company _____

Signature _____ Date _____

Payment Information

Check will be made payable to the Refundable Party identified on the Development Services Department's paid invoice on which the "C&D Deposit" was assessed. Please provide complete mailing address below.

If payment is to be made to a different party, the Refundable Party must *sign* in the box below, *designate* to whom the check will be payable, and *provide* complete mailing address.

By signing my name, I _____ (Refundable Party (print name)), _____ (Company), _____ (Signature),

authorize the refund check to be made payable to: _____

Refund Mailing
Address: _____ City _____ State _____ Zip+4_____

For more information, please contact the City of San Diego Environmental Services Department: (858) 627-3346 or visit www.recyclingworks.com and follow the link to C&D recycling.

Appendix C

City of San Diego: Construction & Demolition Debris Conversion Rate Table

CITY OF SAN DIEGO

Construction & Demolition (C&D) Debris Conversion Rate Table

This worksheet lists materials typically generated from a constructionor demolition project and provides formulas for converting common units (i.e. cubic yards, square feet, and board feet) to tons. It is a tool that should be used for preparing your Waste Mangement Form - Part I, which requires that quantities be provided in tons.

Note: Weigh receipts are required for your refund request.

Step 1: Enter the estimated quantity for each applicable material in Column I, based on units

Step 2: Multiply by Tons/Unit figure listed in Column II. Enter the result for each material in Column III.

If using Excel version, column III will automatically calculate tons.

Step 3: Enter quantities for each separated material from Column III on this worksheet into the corresponding section of your Waste Management Form - Part I.

		Column I			Column II		Column III
Category	**Material**	**Volume**	**Unit**		**Tons/Unit**		**Tons**
Asphalt/Concrete	Asphalt (broken)		cy	x	0.70	=	
	Concrete (broken)		cy	x	1.20	=	
	Concrete (solid slab)		cy	x	1.30	=	
Brick/Masonry/Tile	Brick (broken)		cy	x	0.70	=	
	Brick (whole, palletized)		cy	x	1.51	=	
	Masonry Brick (broken)		cy	x	0.60	=	
	Tile		sq ft	x	0.00175	=	
Building Materials (doors, windows, cabinets, etc.)			cy	x	0.15	=	
Cardboard (flat)			cy	x	0.05	=	
Carpet	By square foot		sq ft	x	0.0005	=	
	By cubic yard		cy	x	0.30	=	
Carpet Padding/Foam			sq ft	x	0.000125	=	
Ceiling Tiles	Whole (palletized)		sq ft	x	0.0003	=	
	Loose		cy	x	0.09	=	
Drywall (new or used)	1/2" (by square foot)		sq ft	x	0.0008	=	
	5/8" (by square foot)		sq ft	x	0.00105	=	
	Demo/used (by cubic yd)		cy	x	0.25	=	
Earth	Loose/Dry		cy	x	1.20	=	
	Excavated/Wet		cy	x	1.30	=	
	Sand (loose)		cy	x	1.20	=	
Landscape Debris (brush, trees, etc)			cy	x	0.15	=	
Mixed Debris	Construction		cy	x	0.18	=	
	Demolition		cy	x	1.19	=	
Scrap metal			cy	x	0.51	=	
Shingles, asphalt			cy	x	0.22	=	
Stone (crushed)			cy	x	2.35	=	
Unpainted Wood & Pallets	By board foot		bd ft	x	0.001375	=	
	By cubic yard		cy	x	0.15	=	
Garbage/Trash			cy	x	0.18	=	
Other (estimated weight)			cy	x	estimate	=	
			cy	x	estimate	=	
			cy	x	estimate	=	
					Total All		

Appendix D

City of San Diego: Waste Generation Factors – Occupancy Phase

Waste Generation Factors – Occupancy Phase

The following factors are used by the City of San Diego Environmental Services Department to estimate the expected waste generation in a new residential or commercial development.

Residential Uses
Residential Unit = 1.6 tons/year/unit
Multi-family Unit = 1.2 tons/year/unit

Example: To calculate the amount of waste that will be generated from a project with 100 new homes, multiply the number of homes by the generation factor.

100 single family homes x 1.6 = 160 tons/year
100 multi-family units x 1.2 = 120 tons/year

Commercial/Industrial Uses

General Retail	0.0028
Restaurants & Bars	0.0122
Hotels/Motels	0.0045
Food Stores	0.0073
Auto/Service/Repair	0.0051
Medical Offices	0.0033
Hospitals	0.0055
Office	0.0017
Transp/Utilities	0.0085
Manufacturing	0.0059
Education	0.0013
Unclassified Services	0.0042

Example: To calculate the amount of waste that could be generated from a new building with 10,000 square feet for offices and 10,000 square feet for manufacturing, multiply the square footage for each use by the generation factor.

10,000 square feet x 0.0017 = 17 tons/year
10,000 square feet x 0.0059 = 59 tons per year

Total estimated waste generation for building = 76 tons/year

Appendix E

Recycling Collection Service Providers Businesses and Multifamily Complexes

Recycling Collection Service Providers for Businesses and Multifamily Complexes

CERTIFIED RECYCLERS and FRANCHISE WASTE HAULERS

Companies listed below are **City-certified recyclers** or **franchise waste haulers** that will report your recycling service to the City on your behalf to document your compliance with the City Recycling Ordinance pursuant to § 66.0711 of the San Diego Municipal Code (SDMC). Visit recyclingworks.com to find out more about the City Recycling Ordinance.

COMPANY	PHONE	paper	cardboard	steel & tin cans	CRV aluminum	CRV glass	non - CRV glass containers	CRV (PET) plastic	non-CRV plastic containers	mixed rigid plastic	Industrial plastic	film plastic *	Styrofoam™ *	wood pallets	green waste	food waste	multifamily service
A.B. Jones and Co.	(619) 549-3587															●	●
AgriService	(760) 295-6255													●	●		
Allan Company	(858) 578-9300	●	●	●	●	●	●	●	●	●							●
Cactus Recycling	(619) 661-1283	●	●	●	●			●	●	●	●	●	●				●
Cal Pac Recycling	(760) 768-3236	●	●	●	●	●	●	●	●								
Coast Waste Management	(760) 439-2824	●	●	●	●	●	●	●	●	●					●	●	●
Daily Disposal	(619) 702-3300	●	●	●	●	●	●	●	●	●		●		●	●	●	●
Debris Box	(619) 284-9245	●	●	●				●	●	●				●	●	●	●
Dependable Disposal	(619) 460-3551	●	●	●	●	●	●	●	●	●				●	●	●	●
EDCO Waste & Recycling	(619) 287-7555	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●
Express Waste & Recycling	(858) 677-0881	●	●	●	●	●	●	●	●	●				●	●	●	●
Food 2 Soil/Inika Small Earth	(858) 755-5235															●	●
IMS Recycling Services, Inc.	(619) 231-2521	●	●	●	●	●	●	●	●	●	●	●	●	●			
Ingenium	(760) 745-8780	●	●				●		●	●	●	●	●	●			
KD Farms Trucking, Inc.	(760) 644-3400														●	●	
Republic Services	(800) 421-9401	●	●	●	●	●		●	●	●		●	●		●	●	●
Resource Management Group	(858) 677-0884	●	●	●	●	●	●	●	●	●	●	●	●	●		●	
Rio Solutions	(619) 889-2683	●	●	●	●	●	●	●	●	●		●	●	●	●	●	
San Diego Fibers Corp.	(619) 262-8090	●	●		●	●		●	●	●		●					
Sani-Tainer	(619) 287-7555	●	●	●	●	●	●	●	●			●		●	●	●	●
Solana Center	(760) 436-7986															●	●
Specialized Waste Solutions	(858) 699-7785	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Tayman Industries	(858) 453-8878	●	●	●	●	●	●	●	●	●		●			●	●	●

Environmental Services

Recycling Collection Service Providers for Businesses and Multifamily Complexes (continued)

CERTIFIED RECYCLERS and FRANCHISE WASTE HAULERS

Companies listed below are **City-certified recyclers** or **franchise waste haulers** that will report your recycling service to the City on your behalf to document your compliance with the City Recycling Ordinance pursuant to § 66.0711 of the San Diego Municipal Code (SDMC). Visit recyclingworks.com to find out more about the City Recycling Ordinance.

COMPANY	PHONE	paper	cardboard	steel & tin cans	CRV aluminum	CRV glass	non - CRV glass containers	CRV (PET) plastic	non-CRV plastic containers	mixed rigid plastic	Industrial plastic	film plastic *	Styrofoam™ *	wood pallets	green waste	food waste	multifamily service
Urban Corps of San Diego	(619) 235-6884	●	●	●	●	●	●	●	●	●	●	●	●				●
Ware Disposal	(877) 714-9273	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●
Waste Management	(800) 596-7444	●	●	●	●	●	●	●	●	●					●	●	●
Webco	(619) 287-7555	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●
Zero Waste San Diego	(619) 818-6703														●	●	

* Film plastic and Styrofoam™ must be bagged or separated - contact your hauler/recycler for details.

Some companies require a minimum quantity of material and/or may charge for collection. This guide is for information purposes only – the City of San Diego does not endorse these companies, make any guarantees, or assume any liability for the services they perform.

(SEE BELOW FOR **NON-CERTIFIED RECYCLERS**)

For more information on City recycling and waste reduction programs, please email the Environmental Services Department at sdrecyclingworks@sandiego.gov, call (858) 694-7000 or visit recyclingworks.com.