



AGENDA

Garden Grove Sanitary District
Board of Directors

Tuesday, July 27, 2021

6:30 PM

Community Meeting Center, 11300
Stanford Avenue, Garden Grove,
California 92840

Patrick Phat Bui
President

John R. O'Neill
Vice President

George S. Brietigam
Member

Steve Jones
Member

Stephanie Klopfenstein
Member

Kim B. Nguyen
Member

Diedre Thu-Ha Nguyen
Member

COVID-19 Information: Masks are required to be worn and adherence to six foot distancing from others when attending public meetings.

Meeting Assistance: Any person requiring auxiliary aids and services, due to a disability, to address the City Council, should contact the City Clerk's Office 72 hours prior to the meeting to arrange for accommodations. Phone: (714) 741-5040.

Agenda Item Descriptions: Are intended to give a brief, general description of the item. The City Council may take legislative action deemed appropriate with respect to the item and is not limited to the recommended action indicated in staff reports or the agenda.

Documents/Writings: Any revised or additional documents/writings related to an item on the agenda distributed to all or a majority of the Council Members within 72 hours of a meeting, are made available for public inspection at the same time (1) in the City Clerk's Office at 11222 Acacia Parkway, Garden Grove, CA 92840, during normal business hours; (2) on the City's website as an attachment to the City Council meeting agenda; and (3) at the Council Chamber at the time of the meeting.

Public Comments: Members of the public desiring to address the City Council are requested to complete a **pink speaker card** indicating their name and address, and identifying the subject matter they wish to address. This card should be given to the City Clerk prior to the start of the meeting. General comments are made during "Oral Communications" and should be limited to matters under consideration and/or what the City Council has jurisdiction over. Persons wishing to address the City Council regarding a Public Hearing matter will be called to the podium at the time the matter is being considered.

Manner of Addressing the City Council: After being called by the Mayor, you may approach the podium, it is requested that you state your name for the record, and proceed to address the City Council. All remarks and questions should be addressed to the City Council as a whole and not to individual Council Members or staff members. Any person making impertinent, slanderous, or profane remarks or who becomes boisterous while addressing the City Council shall be called to order by the

Mayor. If such conduct continues, the Mayor may order the person barred from addressing the City Council any further during that meeting.

Time Limitation: When any group of persons wishes to address the City Council on the same subject matter, the Mayor may request a spokesperson be chosen to represent the group, so as to avoid unnecessary repetition. At the City Council's discretion, a limit on the total amount of time for public comments during Oral Communications and/or a further limit on the time allotted to each speaker during Oral Communications may be set.

PLEASE SILENCE YOUR CELL PHONES DURING THE MEETING.

AGENDA

Open Session

6:30 PM

ROLL CALL: MEMBER BRIETIGAM, MEMBER JONES, MEMBER KLOPFENSTEIN, MEMBER K. NGUYEN, MEMBER D. NGUYEN, VICE PRESIDENT O'NEILL, PRESIDENT BUI

1. ORAL COMMUNICATIONS (to be held simultaneously with other legislative bodies)

2. CONSENT ITEMS

(Consent Items will be acted on simultaneously with one motion unless separate discussion and/or action is requested by a Sanitary District Member.)

2.a. Receive and file minutes from the meeting held on June 22, 2021. *(Action Item)*

3. PUBLIC HEARINGS

(Motion to approve will include adoption of each Resolution unless otherwise stated.)

3.a. Adoption of a Resolution to authorize the imposition of liens on parcels with delinquent payments for refuse collection and disposal service charges. *(Action Item continued from the June 22, 2021, meeting.)*

4. ITEMS FOR CONSIDERATION

4.a. Award a contract to AKM Consulting Engineers for preparation of the 2021 Sewer System Rehabilitation Plan - Phase II. (Cost: \$1,018,016) *(Action Item)*

5. MATTERS FROM THE PRESIDENT, BOARD MEMBERS AND GENERAL MANAGER

6. ADJOURNMENT

The next Regular Sanitary District Meeting is Tuesday, August 24, 2021, at 5:30 p.m. in the Community Meeting Center, 11300 Stanford Avenue, Garden Grove,

California, 92840.

City of Garden Grove

INTER-DEPARTMENT MEMORANDUM

To: Scott C. Stiles From: Teresa Pomeroy

Dept.: General Manager Dept.: Secretary

Subject: Receive and file minutes Date: 7/27/2021
from the meeting held on
June 22, 2021. (*Action
Item*)

Attached are the minutes from the meeting held on June 22, 2021, recommended to be received and filed as submitted or amended.

ATTACHMENTS:

Description	Upload Date	Type	File Name
Minutes - June 22, 2021	7/22/2021	Minutes	sd-min_06_22_2021.pdf

MINUTES

GARDEN GROVE SANITARY DISTRICT BOARD OF DIRECTORS

Regular Meeting

Tuesday, June 22, 2021

Community Meeting Center
11300 Stanford Avenue, Garden Grove, CA 92840

CONVENE MEETING

At 6:55 p.m., Member Jones convened the meeting.

<u>ROLL CALL</u>	PRESENT:	(4)	Members Brietigam, D. Nguyen, Jones, Klopfenstein, K. Nguyen
	ABSENT:	(3)	Members Brietigam, President Bui, Vice President O'Neill

ORAL COMMUNICATIONS

Speakers: Tom Raber, Nicholas Dibs, Brian Malley

RECEIVE AND FILE MINUTES FROM THE MEETING HELD ON MAY 25, 2021 (F: Vault)

It was moved by Member D. Nguyen, seconded by Member Klopfenstein that:

The minutes from the meeting held on May 25, 2021, be received and filed.

The motion carried by a 4-0-3 vote as follows:

Ayes:	(4)	Jones, Klopfenstein, K. Nguyen, D. Nguyen
Noes:	(0)	None
Absent:	(3)	Brietigam, O'Neill, Bui

PUBLIC HEARING - ADOPTION OF RESOLUTIONS APPROVING THE BIENNIAL BUDGET FOR FISCAL YEAR (FY) 2021-22 AND FY 2022-23; RE-APPROPRIATE PROJECT BALANCES AND ENCUMBRANCES FROM FY 2020-21; AND SETTING THE FY 2021-22 APPROPRIATIONS LIMIT (F: S-34.1)

Following staff introduction and PowerPoint presentation, Member Jones declared the public hearing open.

Speaker: Nicholas Dibs

There being no further response from the audience, the public hearing was declared closed.

It was moved by Member K. Nguyen, seconded by Member Klopfenstein that:

Resolution No. 3799-21 entitled: A Resolution of the Board of Directors of the Garden Grove Sanitary District adopting budgets for Fiscal Year 2021-22 and Fiscal Year 2022-23, be adopted;

Resolution No. 3800-21 entitled: A Resolution of the Board of Directors of the Garden Grove Sanitary District reappropriating certain Fiscal Year 2020-21 project balances and encumbrances for the Fiscal Year 2021-22, be adopted; and

Resolution No. 3801-21 entitled: A Resolution of the Board of Directors of the Garden Grove Sanitary District establishing the amount of increase in appropriations in accordance with Article XIII B of the of the California Constitution as amended by Proposition 111, be adopted.

The motion carried by a 4-0-3 vote as follows:

Ayes: (4) Jones, Klopfenstein, K. Nguyen, D. Nguyen
Noes: (0) None
Absent: (3) Brietigam, O'Neill, Bui

PUBLIC HEARING - ADOPTION OF A RESOLUTION TO COLLECT REFUSE
COLLECTION AND DISPOSAL SERVICE CHARGES ON TAX ROLL FOR PROPERTIES
LOCATED IN IMPROVEMENT DISTRICT NO. 1 (F: S-34-1)

Following staff introduction, Member Jones declared the public hearing open.

Speaker: None

There being no response from the audience, the public hearing was declared closed.

The Secretary announced that no protests were received; therefore, there is not a majority protest.

It was moved by Member K. Nguyen, seconded by Member Klopfenstein that:

Resolution No. 3802-21 entitled: A Resolution of the Board of Directors of the Garden Grove Sanitary District authorizing refuse collection and disposal charges for improvement District No. 1 to be collected on the tax roll, be adopted.

The motion carried by a 4-0-3 vote as follows:

Ayes: (4) Jones, Klopfenstein, K. Nguyen, D. Nguyen
Noes: (0) None
Absent: (3) Brietigam, O'Neill, Bui

PUBLIC HEARING – ADOPTION OF A RESOLUTION TO AUTHORIZE THE IMPOSITION OF LIENS ON PARCELS WITH DELINQUENT PAYMENTS FOR REFUSE COLLECTION AND DISPOSAL SERVICE CHARGES (F: S-34.1)

Staff stated that more time would be needed prior to Board consideration for this matter.

It was moved by Member D. Nguyen, seconded by Member Klopfenstein that this matter be continued to the July 27, 2021, Sanitary District Board meeting.

The motion carried by a 4-0-3 vote as follows:

Ayes: (4) Jones, Klopfenstein, K. Nguyen, D. Nguyen
Noes: (0) None
Absent: (3) Brietigam, O'Neill, Bui

PUBLIC HEARING – ADOPTION OF A RESOLUTION TO COLLECT SEWER SERVICE FEES ON TAX ROLL FOR PROPERTIES LOCATED OUTSIDE THE CITY LIMITS (F: S-34.1)

Following staff introduction, Member Jones declared the public hearing open.

Speaker: None

There being no response from the audience, the public hearing was declared closed.

The Secretary announced that no protests were received; therefore, there is not a majority protest.

It was moved by Member K. Nguyen, seconded by Member D. Nguyen that:

Resolution No. 3803-21 entitled: A Resolution of the Board of Directors of the Garden Grove Sanitary District authorizing charges for sewer services in the areas of the district that extend beyond the Garden Grove city limits and do not receive water services from the City of Garden Grove to be collected on the tax roll, be adopted.

The motion carried by a 4-0-3 vote as follows:

Ayes: (4) Jones, Klopfenstein, K. Nguyen, D. Nguyen
Noes: (0) None
Absent: (3) Brietigam, O'Neill, Bui

AWARD A CONTRACT TO KORDICH CONSTRUCTION, INC., FOR PROJECT NO. CP 1244000 – CONSTRUCTION OF THE SEWER SYSTEM REHABILITATION PLAN PHASE I, SEWER MAIN REPLACEMENT PROJECTS 2 & 3 (F: S-55-Kordich Construction Inc.)

Following staff introduction, it was moved by Member Klopfenstein, seconded by Member K. Nguyen that:

A contract be awarded to Kordich Construction, Inc., in the amount of \$1,948,450, for the construction of Project No. CP 1244000 - Sewer System Rehabilitation Plan Phase 1, Sewer Main Replacement Projects 2 & 3; and

The General Manager be authorized to execute the contract on behalf of the Garden Grove Sanitary District Board.

The motion carried by a 4-0-3 vote as follows:

Ayes:	(4)	Jones, Klopfenstein, K. Nguyen, D. Nguyen
Noes:	(0)	None
Absent:	(3)	Brietigam, O'Neill, Bui

ADJOURNMENT

At 7:21 p.m., Member Jones adjourned the meeting. The next Regular Sanitary District Meeting will be on Tuesday, July 27, 2021, at 5:30 p.m. in the Community Meeting Center, 11300 Stanford Avenue, Garden Grove, California.

Teresa Pomeroy, CMC
Secretary

City of Garden Grove

INTER-DEPARTMENT MEMORANDUM

To:	Scott Stiles	From:	Patricia Song
Dept.:	General Manager	Dept.:	Finance
Subject:	Adoption of a Resolution to authorize the imposition of liens on parcels with delinquent payments for refuse collection and disposal service charges. (<i>Action Item continued from the June 22, 2021, meeting.</i>)		
		Date:	7/27/2021

OBJECTIVE

For the Garden Grove Sanitary District Board of Directors to conduct a public hearing on the delinquent refuse collection and disposal fees report; adopt the attached Resolution approving the report identifying the unpaid bills for refuse collection and disposal services and authorizing the imposition of liens on property with delinquent accounts; and direct staff to file the necessary documentation with the County for assessment on the appropriate parcels.

BACKGROUND

Pursuant to the requirements of the California Health and Safety Code, the Garden Grove Sanitary District may, following notice and a public hearing, impose liens on properties for refuse collection and disposal service bills that are delinquent for a period of sixty (60) days or more. Republic Services bills customers quarterly for refuse collection and disposal services. If a billing is not paid, a reminder is mailed to the individual who is responsible for the service. In addition, if a tenant does not pay for the service, the landlord is notified of non-payment thirty (30) days prior to the public hearing. If a bill for service remains unpaid for a period of sixty (60) days, at the end of the fiscal year an assessment process will be implemented and a lien will be imposed on the property.

DISCUSSION

The last Republic Services billing for Fiscal Year 2020-2021 was prepared and mailed in February 2021, and all unpaid charges on that billing became delinquent as of May 1, 2021. Sixty (60) days after the delinquency date, the delinquent amount, plus the associated penalty of 10%, may be filed with the County Auditor/Controller's Office.

Upon recordation by the County Recorder, the amount submitted by parcel shall be collected at the same time and in the same manner as property taxes and shall be subject to the same penalties and to the same procedure for foreclosure as provided for general County taxes. Prior to the delinquent amount becoming a lien against the property, the individual property owner is notified of the delinquent amount and the date and time of the public hearing. To further ensure that all parties are aware of the potential lien, a notice announcing this hearing date is published in a local newspaper. The report of delinquent accounts is on file and available for review in the office of the City Clerk. An updated report will be available at the June 22, 2021, Sanitary District Board meeting. In order for the delinquent charges to be placed on the County's property tax roll, the Board is required to hold a public hearing to approve the charges to be collected by parcel.

FINANCIAL IMPACT

Delinquent charges for refuse collection and disposal services totaled \$464,670 for Fiscal Year 2020-21. Funds received from the County will be remitted to Republic Services less any franchise fees due to the City and any County administrative charges.

RECOMMENDATION

It is recommended that the Garden Grove Sanitary District Board of Directors:

- Conduct a public hearing on the report of delinquent refuse collection and disposal fees;
- Adopt the attached Resolution adopting the report and authorizing the imposition of liens for the collection of delinquent refuse collection and disposal fees; and
- Direct staff to file the necessary documentation with the County for the collection of the delinquent charges on the property tax bills.

ATTACHMENTS:

Description	Upload Date	Type	File Name
Resolution - Liens on Parcels	7/7/2021	Resolution	7-27-21_Reso- Liens_on_parcels_(meeting_continuation_from_6- 22-21).docx
Report Delinquent Accounts	6/8/2021	Backup Material	Deliquent_Trash_Liens_Posting.pdf

GARDEN GROVE SANITARY DISTRICT

RESOLUTION NO.

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE GARDEN GROVE SANITARY DISTRICT OF ORANGE COUNTY, CALIFORNIA, ADOPTING A REPORT AND CERTIFYING A STATEMENT OF DELINQUENT AND UNPAID CHARGES FOR REFUSE COLLECTION AND DISPOSAL SERVICES TO BE COLLECTED ON THE PROPERTY TAX ROLL

WHEREAS, the Board of Directors of the Garden Grove Sanitary District has considered the report containing a statement of delinquent and unpaid charges for refuse collection and disposal services remaining delinquent and unpaid for a period of 60 days or more presented to it at its meeting of July 27, 2021;

WHEREAS, the Board of Directors wishes to have such delinquent and unpaid charges, which remain delinquent and unpaid as of July 1, 2021, become a lien against the parcels to which such requested refuse collection and disposal services were provided and to be collected on the tax roll;

WHEREAS, at the Regular Meeting of the Garden Grove Sanitary District on July 27, 2021, continued from the June 22, 2021, regular meeting held in the Community Meeting Center, 11300 Stanford Avenue, Garden Grove, California, at 6:30 p.m., the Board of Directors held a duly noticed Public Hearing, at which all oral and written comments, objections, and protests to the report were heard;

WHEREAS, the Secretary has caused notice of the report and Public Hearing to be published in a newspaper of general circulation on June 2, 2021, and June 9, 2021, within the District pursuant to Section 6066 of the Government Code; and

WHEREAS, the Secretary has caused a notice in writing of the report and Public Hearing, which notice states that these delinquent and unpaid charges could become a lien on the property, to be mailed to each person owning any parcel or parcels of real property described in the report as per the last equalized assessment roll available on the date the report was prepared.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE GARDEN GROVE SANITARY DISTRICT, ORANGE COUNTY, CALIFORNIA AS FOLLOWS:

1. The report presented as written at the meeting at which this Resolution was adopted, or as revised and changed, is hereby adopted.

2. The Board of Directors of the Garden Grove Sanitary District hereby certifies to the Orange County Board of Supervisors and the Orange County Auditor that the delinquent and unpaid charges for refuse collection and disposal services stated in the report adopted pursuant to this Resolution remain delinquent and unpaid for a period of sixty (60) days, and requests that such delinquent charges unpaid as of July 1, 2021, be collected on the tax roll in the same manner, by the same person,

and at the same time as, together with and not separately from, the general taxes of the District. The General Manager of the Garden Grove Sanitary District, or his designee, shall file all necessary documentation with the County of Orange for the collection of the delinquent and unpaid charges on the property tax roll.

3. That the Secretary be instructed to file a copy of the report with the County Auditor in a timely manner for the purpose of adding the delinquent refuse collection and disposal service charges to the tax roll.

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
13342128	12921 SHACKELFORD LN	GARDEN GROVE	1,515.89
09013217	12671 9TH ST	GARDEN GROVE	1,094.20
09929111	13232 BENTON ST	GARDEN GROVE	917.52
39902155	13141 HILTON LN	GARDEN GROVE	829.82
23145207	12382 BECK AVE	GARDEN GROVE	802.90
09841227	13732 LA VAUGHN DR	GARDEN GROVE	784.93
09929319	13422 BENTON ST	GARDEN GROVE	773.99
13327236	8882 LAMPSON AVE	GARDEN GROVE	741.85
10144616	12502 RANCHERO WAY	GARDEN GROVE	729.83
21510133	12502 LORNA ST	GARDEN GROVE	709.18
10004107	13062 SAFFORD ST	GARDEN GROVE	688.16
09013202	12652 8TH ST	GARDEN GROVE	672.19
13335418	12531 SPRUCE ST	GARDEN GROVE	670.48
23139108	12772 WEST ST	GARDEN GROVE	661.19
08950107	10471 GERALDINE RD	GARDEN GROVE	660.65
09842202	13721 YOAK ST	GARDEN GROVE	657.90
10135144	12342 FLAGSTONE PL	GARDEN GROVE	655.68
12750307	9582 PACIFIC AVE	ANAHEIM	651.94
13234334	9592 SHANNON AVE	GARDEN GROVE	649.41
09034305	12322 GAMMA ST	GARDEN GROVE	644.99
09912115	10631 PALOMA AVE	GARDEN GROVE	643.68
08948209	10421 BALLARD DR	GARDEN GROVE	632.25
13315109	12301 CHRISTINE LN	GARDEN GROVE	627.65
23118217	12286 SALERNO ST	GARDEN GROVE	627.65
23302214	11922 TIMMY LN	GARDEN GROVE	627.65
09906316	10382 BONNIE DR	GARDEN GROVE	611.09
13210108	9642 KATELLA AVE	ANAHEIM	591.24
13339123	9592 STANFORD AVE	GARDEN GROVE	582.13
09059103	12653 WEST ST	GARDEN GROVE	567.28
13206102	11112 MAGNOLIA ST	GARDEN GROVE	559.01
23145118	12381 BECK AVE	GARDEN GROVE	551.96
09917411	14191 HOPE ST	GARDEN GROVE	530.07
13117119	11512 POES ST	ANAHEIM	530.07
10033401	13242 PINTO RD	GARDEN GROVE	530.07
08928106	12072 MORRIE LN	GARDEN GROVE	530.07
09849511	9622 WOODBURY AVE	GARDEN GROVE	530.07
9825405	9732 DAKOTA AVE	GARDEN GROVE	530.07
09008240	11151 JERRY LN	GARDEN GROVE	530.07
08944316	10032 ROSELEE DR	GARDEN GROVE	530.07
10003216	13181 SANDRA PL	GARDEN GROVE	530.07
13346303	12811 LORNA ST	GARDEN GROVE	530.07
21511205	8681 DUDMAN DR	GARDEN GROVE	530.07
09940207	10321 JENNRICH AVE	GARDEN GROVE	530.07
08946104	11031 DALLAS DR	GARDEN GROVE	529.68
09852308	9622 MANSOR AVE	GARDEN GROVE	524.57
09820417	13211 GALWAY ST	GARDEN GROVE	524.57
09008308	12361 PINE ST	GARDEN GROVE	521.82
09008243	11121 JERRY LN	GARDEN GROVE	521.82
13337211	12761 CRESTWOOD CIR	GARDEN GROVE	506.80
09906409	10472 MILDRED AVE	GARDEN GROVE	506.64

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09857205	9122 CENTRAL AVE	GARDEN GROVE	505.30
12734206	9532 GUINIDA LN	ANAHEIM	499.82
12750205	9612 HARLE AVE	ANAHEIM	499.82
12728108	9872 HARVEST LN	ANAHEIM	499.82
13203107	8732 KATELLA AVE	ANAHEIM	499.82
13154110	8362 ACACIA AVE	GARDEN GROVE	499.82
23150107	12151 BANGOR ST	GARDEN GROVE	499.82
09929323	13362 BENTON ST	GARDEN GROVE	499.82
23315304	12102 BLUEBELL AVE	GARDEN GROVE	499.82
09737203	8242 CENTRAL AVE	GARDEN GROVE	499.82
10144306	13412 CLINTON ST	GARDEN GROVE	499.82
09806313	9701 CROSBY AVE	GARDEN GROVE	499.82
09907114	13431 CYPRESS ST	GARDEN GROVE	499.82
09735630	8751 DAKOTA AVE	GARDEN GROVE	499.82
13225212	11602 DALE ST	GARDEN GROVE	499.82
09034314	12341 DELTA ST	GARDEN GROVE	499.82
09007212	12432 EUCLID ST	GARDEN GROVE	499.82
23162610	12311 HASTER ST	GARDEN GROVE	499.82
09043124	11522 JACALENE LN	GARDEN GROVE	499.82
13332212	12501 JANE DR	GARDEN GROVE	499.82
09033510	11932 JANETTE LN	GARDEN GROVE	499.82
13317214	12432 LORALEEN ST	GARDEN GROVE	499.82
08937105	12251 MADRAS PL	GARDEN GROVE	499.82
39916405	13292 MARTY LN	GARDEN GROVE	499.82
13245508	8932 MARYLEE DR	GARDEN GROVE	499.82
09949127	10682 MORNINGSIDE DR	GARDEN GROVE	499.82
13214104	9861 OMA PL	GARDEN GROVE	499.82
09835116	9971 READING AVE	GARDEN GROVE	499.82
08943225	12081 SHERIDAN LN	GARDEN GROVE	499.82
23160117	12605 SUNGROVE CIR	GARDEN GROVE	499.82
23161307	12492 SUNGROVE ST	GARDEN GROVE	499.82
10144624	12591 TRASK AVE	GARDEN GROVE	499.82
08922231	12666 BROOKHURST ST	GARDEN GROVE	498.55
08924113	12151 DIANE ST	GARDEN GROVE	493.44
10134319	12311 FLINT PL	GARDEN GROVE	493.16
08948409	10422 BALLARD DR	GARDEN GROVE	491.59
12738613	9922 CHANTICLEER RD	ANAHEIM	491.49
13333238	9541 STANFORD AVE	GARDEN GROVE	487.08
10004237	13201 SAFFORD ST	GARDEN GROVE	487.08
13119219	11811 FORTNEY DR	ANAHEIM	486.53
13209139	11181 HUBER ST	GARDEN GROVE	482.76
09838303	14152 ERIN RD	GARDEN GROVE	480.51
13227108	11522 WASCO RD	GARDEN GROVE	480.01
10172141	12932 ABBEY RD	GARDEN GROVE	477.83
13231110	11581 PORTIA CIR	GARDEN GROVE	477.26
12755127	10972 RUSTIC LN	ANAHEIM	477.26
09837304	9662 OASIS AVE	GARDEN GROVE	477.26
09825207	9722 IMPERIAL AVE	GARDEN GROVE	477.26
9824406	13431 DONEGAL DR	GARDEN GROVE	477.26
10003110	13111 NINA PL	GARDEN GROVE	477.26

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
13218216	11452 MONTCLAIR CT	GARDEN GROVE	477.26
09823324	9301 CENTRAL AVE	GARDEN GROVE	474.51
10033402	13232 PINTO RD	GARDEN GROVE	474.51
09738411	13432 BALOS DR	GARDEN GROVE	474.51
09032301	11582 CANDY LN	GARDEN GROVE	474.51
08933204	10161 EDGEWOOD LN	GARDEN GROVE	474.51
13207206	9342 MAUREEN DR	GARDEN GROVE	474.51
13201336	11231 BOWLES AVE	GARDEN GROVE	474.51
12757319	10915 GILBERT ST	ANAHEIM	473.76
23157211	12872 SUNGROVE ST	GARDEN GROVE	469.49
09938502	14112 STENGEL ST	GARDEN GROVE	469.45
08956109	11302 LOCKHAVEN WAY	GARDEN GROVE	465.58
12739219	10462 POONA DR	ANAHEIM	464.65
09029225	11851 GARDEN GROVE BLVD	GARDEN GROVE	461.53
13203109	8762 KATELLA AVE	ANAHEIM	460.08
13315103	12272 GILBERT ST	GARDEN GROVE	458.60
10003112	13131 NINA PL	GARDEN GROVE	458.60
13317120	9271 CATHERINE AVE	GARDEN GROVE	456.83
23131110	12041 FALLINGLEAF CIR	GARDEN GROVE	456.83
08933318	11872 MELODY PARK DR	GARDEN GROVE	456.83
13341104	9331 WELDON DR	GARDEN GROVE	456.83
08927302	10442 ALLEN DR	GARDEN GROVE	453.86
09806425	9750 CROSBY AVE	GARDEN GROVE	453.19
13318371	9115 LAMPSON AVE	GARDEN GROVE	453.08
12739221	10471 BROOKHURST ST	ANAHEIM	447.01
12758335	9702 DECKER AVE	ANAHEIM	447.01
12735209	9681 FARNHAM LN	ANAHEIM	447.01
21505228	12151 HAGA ST	GARDEN GROVE	447.01
12749206	10541 HARCOURT AVE	ANAHEIM	447.01
13117302	11511 POES ST	ANAHEIM	447.01
13123209	8142 SOMERS DR	ANAHEIM	447.01
13344207	8912 ACACIA AVE	GARDEN GROVE	447.01
08929120	10601 ALLEN DR	GARDEN GROVE	447.01
23132332	12662 ASPENWOOD LN	GARDEN GROVE	447.01
09950218	13862 BARNEY ST	GARDEN GROVE	447.01
13221209	11421 BOWLES AVE	GARDEN GROVE	447.01
10151301	12736 CARDINAL AVE	GARDEN GROVE	447.01
09027408	11302 CHAPMAN AVE	GARDEN GROVE	447.01
23153312	12712 CITRUSWOOD AVE	GARDEN GROVE	447.01
09937104	13631 CYPRESS ST	GARDEN GROVE	447.01
23313422	11842 DEBBIE LN	GARDEN GROVE	447.01
09728116	8811 ENLOE AVE	GARDEN GROVE	447.01
23163403	12182 FIREBRAND ST	GARDEN GROVE	447.01
09034304	12312 GAMMA ST	GARDEN GROVE	447.01
13212607	11251 GARDENAIRE LN	GARDEN GROVE	447.01
23131410	12141 HASTER ST	GARDEN GROVE	447.01
13328129	12642 HAZEL AVE	GARDEN GROVE	447.01
09804110	9421 IMPERIAL AVE	GARDEN GROVE	447.01
09944421	10622 KERN AVE	GARDEN GROVE	447.01
23124122	13402 LAUX CIR	GARDEN GROVE	447.01

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
13246413	11811 MAC NAB ST	GARDEN GROVE	447.01
08912333	12372 MCLEOD ST	GARDEN GROVE	447.01
13316303	12301 MEADE ST	GARDEN GROVE	447.01
13339113	12801 MELODY DR	GARDEN GROVE	447.01
08955212	12302 MOANA WAY	GARDEN GROVE	447.01
08928101	12002 MORRIE LN	GARDEN GROVE	447.01
09021209	12111 NIETA DR	GARDEN GROVE	447.01
09837209	9661 OASIS AVE	GARDEN GROVE	447.01
09837201	9751 OASIS AVE	GARDEN GROVE	447.01
10135115	13282 PALM ST	GARDEN GROVE	447.01
09046514	11092 PALMA VISTA ST	GARDEN GROVE	447.01
10037108	11611 PALOMA AVE	GARDEN GROVE	447.01
09008222	12462 PINE ST	GARDEN GROVE	447.01
13235121	9541 ROYAL PALM BLVD	GARDEN GROVE	447.01
13230116	9141 SHELLEY DR	GARDEN GROVE	447.01
13319128	9106 SHERLOCK LN	GARDEN GROVE	447.01
09909320	13171 TAFT ST	GARDEN GROVE	447.01
08961105	10521 TIBBS CIR	GARDEN GROVE	447.01
10032312	11171 WOODBURY RD	GARDEN GROVE	447.01
09034620	12271 ZETA ST	GARDEN GROVE	447.01
09042412	11962 DANIEL AVE	GARDEN GROVE	447.01
13235409	11582 ELLERY DR	GARDEN GROVE	445.97
08947115	10281 PARLIAMENT AVE	GARDEN GROVE	444.58
13329114	12652 LEROY AVE	GARDEN GROVE	443.62
10003138	13022 SANDRA PL	GARDEN GROVE	438.42
13139114	12142 FIELDGATE ST	GARDEN GROVE	435.15
23161208	12491 SUNGROVE ST	GARDEN GROVE	430.93
09969124	10195 ANDY REESE CT	GARDEN GROVE	423.96
23150116	12651 FALCON LN	GARDEN GROVE	418.70
09958302	13772 CYPRESS ST	GARDEN GROVE	415.87
10009101	13252 BARNETT WAY	GARDEN GROVE	411.85
13306121	12202 FERRARI LN	GARDEN GROVE	410.93
10130304	13432 LILLY ST	GARDEN GROVE	409.16
13243501	9002 TRISTAN DR	GARDEN GROVE	408.60
10050454	12036 SYCAMORE LN	GARDEN GROVE	407.34
09044309	11372 ROBERT LN	GARDEN GROVE	405.33
23132104	12731 ASPENWOOD LN	GARDEN GROVE	402.38
09008227	12412 PINE ST	GARDEN GROVE	401.03
13229134	8936 ABERDEEN LN	GARDEN GROVE	400.64
23122406	12682 AUDREY CIR	GARDEN GROVE	399.39
10143407	12542 GLORIA ST	GARDEN GROVE	397.71
13236215	9761 ROYAL PALM BLVD	GARDEN GROVE	397.06
23145227	12251 LAMPSON AVE	GARDEN GROVE	396.11
09721205	13032 JEFFERSON ST	GARDEN GROVE	394.96
09950328	10541 RANNEY AVE	GARDEN GROVE	394.96
09939612	10382 MORNINGSIDE DR	GARDEN GROVE	392.21
09811309	9612 SUTHERLAND WAY	GARDEN GROVE	392.21
09918407	10801 LOTUS DR	GARDEN GROVE	389.46
09946112	13772 MERELLO ST	GARDEN GROVE	389.21
09946503	13931 BOWEN ST	GARDEN GROVE	388.69

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09020522	11931 LAMPSON AVE	GARDEN GROVE	384.90
09006502	11422 SCHRANDT DR	GARDEN GROVE	384.90
09907121	13432 ADLAND ST	GARDEN GROVE	384.90
13340134	12731 GILBERT ST	GARDEN GROVE	384.90
08930502	11022 GARDEN DR	GARDEN GROVE	384.90
09013218	12651 9TH ST	GARDEN GROVE	384.90
09041423	11601 REVA DR	GARDEN GROVE	384.90
09738421	13391 JACKSON ST	GARDEN GROVE	384.90
09970110	10872 HOWARD DALLIES JR CIR	GARDEN GROVE	384.90
13247203	8546 MAC ALPINE RD	GARDEN GROVE	384.90
13123110	8171 SOMERS DR	ANAHEIM	384.90
13247214	8652 MAC ALPINE RD	GARDEN GROVE	384.90
13217409	9342 JOYZELLE DR	GARDEN GROVE	384.90
08940310	11742 OLD FASHION WAY	GARDEN GROVE	384.90
08923308	12631 BLACKTHORN ST	GARDEN GROVE	384.90
09059401	12701 KATHY LN	GARDEN GROVE	384.90
09970121	10752 HOWARD DALLIES JR CIR	GARDEN GROVE	384.90
13711103	12281 WILKEN WAY	GARDEN GROVE	384.90
09069134	12140 CHILI PEPPER LN	GARDEN GROVE	384.90
12757202	10751 HARCOURT AVE	ANAHEIM	384.90
08948603	10452 ORANGEWOOD AVE	GARDEN GROVE	384.90
23315127	12011 CLIFFWOOD AVE	GARDEN GROVE	384.90
09913139	13248 MICHAEL RAINFORD CIR	GARDEN GROVE	384.90
10106218	12682 RANCHERO WAY	GARDEN GROVE	384.90
10130113	12931 TRASK AVE	GARDEN GROVE	384.90
13245402	11862 MAC MURRAY ST	GARDEN GROVE	384.90
09031209	11592 COLLEGE AVE	GARDEN GROVE	384.90
10008120	11322 PALOMA AVE	GARDEN GROVE	384.90
13330236	12672 LORALEEN ST	GARDEN GROVE	384.90
23152519	12701 WILLOWOOD AVE	GARDEN GROVE	384.90
12650205	8802 ATHENS CT	ANAHEIM	384.90
09930205	13752 CYPRESS ST	GARDEN GROVE	384.90
23150109	12131 BANGOR ST	GARDEN GROVE	384.90
13334430	9781 STANFORD AVE	GARDEN GROVE	384.90
09806513	13252 DONEGAL DR	GARDEN GROVE	384.90
09959214	14432 HOPE ST	GARDEN GROVE	384.90
13229219	11666 ANGUS CT	GARDEN GROVE	384.90
12734147	10152 D ESTE DR	ANAHEIM	384.90
09935403	13801 EUCLID ST	GARDEN GROVE	384.90
13236305	9822 ROYAL PALM BLVD	GARDEN GROVE	384.90
13210113	9701 MAUREEN DR	GARDEN GROVE	384.90
12650214	10866 MACNAB ST	ANAHEIM	384.90
09916236	10211 15TH ST	GARDEN GROVE	384.90
08959502	11232 MOUNT DR	GARDEN GROVE	384.90
13202108	8786 ADAH ST	GARDEN GROVE	384.90
10131521	12092 QUATRO AVE	GARDEN GROVE	384.90
23155708	12602 1/2 BLUE SPRUCE AVE	GARDEN GROVE	384.90
13243209	11802 FAUN LN	GARDEN GROVE	384.90
09012342	12662 WALNUT AVE	GARDEN GROVE	384.90
23152502	12342 HARBOR BLVD	GARDEN GROVE	384.90

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09736609	13222 LUCILLE ST	GARDEN GROVE	384.90
23110205	13112 ASPENWOOD AVE	GARDEN GROVE	384.90
10010314	13471 ASHWOOD ST	GARDEN GROVE	384.90
08962605	10661 OVERMAN DR	GARDEN GROVE	384.90
13119307	11811 NEARING DR	ANAHEIM	384.90
23117214	13402 GREENTREE AVE	GARDEN GROVE	384.90
8962301	11222 PALMWOOD DR	GARDEN GROVE	384.90
10033316	11871 MUSTANG DR	GARDEN GROVE	384.90
12758218	9651 DECKER AVE	ANAHEIM	384.90
12748233	10631 DESSER LN	ANAHEIM	384.90
13209115	11131 ENDRY ST	GARDEN GROVE	384.90
09038206	12061 MORGAN LN	GARDEN GROVE	384.90
9026010	11501 STANFORD AVE	GARDEN GROVE	384.90
08953104	10842 POINDEXTER AVE	GARDEN GROVE	384.90
12727413	9721 PANDORA LN	ANAHEIM	384.90
23152514	12682 TWINTREE LN	GARDEN GROVE	384.90
21511504	12392 PENTAGON ST	GARDEN GROVE	384.90
13318209	12352 HARVEY LN	GARDEN GROVE	384.90
12721422	9612 GILBERT ST	ANAHEIM	384.90
23144122	12352 LAMPSON AVE	GARDEN GROVE	384.90
13318349	9052 MARIE LN	GARDEN GROVE	384.90
12759502	10792 JEAN ST	ANAHEIM	384.90
10172148	12862 ABBEY RD	GARDEN GROVE	384.90
12757206	10829 HARCOURT AVE	ANAHEIM	384.90
23154312	12612 CHOISSER RD	GARDEN GROVE	384.90
09907133	11102 JERRY LN	GARDEN GROVE	384.90
23146110	12242 DOWNING ST	GARDEN GROVE	384.90
09043108	11591 ROBERT LN	GARDEN GROVE	384.90
12740205	10402 GILBERT ST	ANAHEIM	384.90
13331308	12641 OHMER WAY	GARDEN GROVE	384.90
09951303	10532 STERN AVE	GARDEN GROVE	384.90
09837103	14081 KERRY ST	GARDEN GROVE	384.90
12649406	8972 SYRACUSE AVE	ANAHEIM	384.90
09959108	10151 JENNRICH AVE	GARDEN GROVE	384.90
13237131	11621 BROOKHURST ST	GARDEN GROVE	384.90
09041215	11741 SAMUEL DR	GARDEN GROVE	384.90
10004134	13122 NEWELL ST	GARDEN GROVE	384.90
09906314	10402 BONNIE DR	GARDEN GROVE	384.90
09009217	12442 OAKWOOD ST	GARDEN GROVE	384.90
09970125	10761 HOWARD DALLIES JR CIR	GARDEN GROVE	384.90
08929138	10642 ARTCRAFT AVE	GARDEN GROVE	384.90
09046405	11191 PALMA VISTA ST	GARDEN GROVE	384.90
23138301	12001 COLLEGE AVE	GARDEN GROVE	384.90
23302113	12141 CANDY LN	GARDEN GROVE	384.90
13347411	12924 DALE ST	GARDEN GROVE	384.90
13223212	11235 BOWLES AVE	GARDEN GROVE	384.90
21510209	12571 LORNA ST	GARDEN GROVE	384.90
10148202	13351 MCEVOY LN	GARDEN GROVE	384.90
13307114	9371 BLANCHE AVE	GARDEN GROVE	384.90
08939407	11691 PALMWOOD DR	GARDEN GROVE	384.90

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
23162411	12301 FALLINGLEAF ST	GARDEN GROVE	384.90
23154111	12672 LAMPSON AVE	GARDEN GROVE	384.90
23160131	12872 LAMPSON AVE	GARDEN GROVE	384.90
23123323	13272 SANDALWOOD CIR	GARDEN GROVE	384.90
10165223	13555 ROBYN CT	GARDEN GROVE	384.90
08959711	10682 PARLIAMENT AVE	GARDEN GROVE	384.90
08910137	10719 LAUREN CIR	GARDEN GROVE	384.90
10165313	13641 FAIRVIEW ST	GARDEN GROVE	384.90
13318355	9071 LAMPSON AVE	GARDEN GROVE	384.90
13242314	9412 SKYLARK BLVD	GARDEN GROVE	384.90
09835315	14192 FORSYTH LN	GARDEN GROVE	384.90
23307241	11884 SUNGROVE CIR	GARDEN GROVE	384.90
09917414	10191 MORNINGSIDE DR	GARDEN GROVE	384.90
12650308	8882 REGAL AVE	ANAHEIM	384.90
12751207	9691 HARLE AVE	ANAHEIM	384.90
13238502	11782 FLAMINGO DR	GARDEN GROVE	384.90
13314110	12422 GILBERT ST	GARDEN GROVE	384.90
10145107	13231 PARTRIDGE ST	GARDEN GROVE	384.90
09059105	12679 WEST ST	GARDEN GROVE	384.90
10134318	12301 FLINT PL	GARDEN GROVE	384.90
21512214	12311 LORNA ST	GARDEN GROVE	384.90
09946119	13862 MERELLO ST	GARDEN GROVE	384.90
09033319	11741 CANDY LN	GARDEN GROVE	384.90
09826329	13342 GILBERT ST	GARDEN GROVE	384.90
08942517	10521 CAROL LN	GARDEN GROVE	384.90
10143328	12391 PEARCE ST	GARDEN GROVE	384.90
10008307	11251 TRASK AVE	GARDEN GROVE	384.90
23315108	12102 ORANGEWOOD AVE	ANAHEIM	384.90
13315112	12261 CHRISTINE LN	GARDEN GROVE	384.90
23110213	13202 ASPENWOOD AVE	GARDEN GROVE	384.90
08942218	11932 GARY ST	GARDEN GROVE	384.90
23149111	12240 CHOISSER RD	GARDEN GROVE	384.90
09903514	13321 HOPE ST	GARDEN GROVE	384.90
08909206	10662 PEARL ST	GARDEN GROVE	384.90
10131506	13802 JACKSON ST	GARDEN GROVE	384.90
08938408	10291 TYHURST RD	GARDEN GROVE	384.90
13316215	12412 MEADE ST	GARDEN GROVE	384.90
09046608	11112 WAKEFIELD AVE	GARDEN GROVE	384.90
09026305	12922 SAFFORD E	GARDEN GROVE	384.90
13227127	8622 ORANGEWOOD AVE	GARDEN GROVE	382.15
23140113	12171 DUNKLEE LN	GARDEN GROVE	382.15
09011311	12544 DESSA DR	GARDEN GROVE	382.15
23152504	12552 TWINTREE LN	GARDEN GROVE	382.15
09738410	13412 BALOS DR	GARDEN GROVE	382.15
08923222	12601 GROVEVIEW ST	GARDEN GROVE	382.15
13341101	9271 WELDON DR	GARDEN GROVE	382.15
09049152	11742 DELLA LN	GARDEN GROVE	382.15
12736108	10032 ANTIGUA ST	ANAHEIM	382.15
13152116	12711 DALE ST	GARDEN GROVE	382.15
13347202	12881 ADELLE ST	GARDEN GROVE	381.32

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
13202215	8832 LA GRAND AVE	GARDEN GROVE	380.24
13336112	9852 STANFORD AVE	GARDEN GROVE	379.92
09036305	11762 ROBERT LN	GARDEN GROVE	379.40
13343102	12751 LUCILLE AVE	GARDEN GROVE	379.40
13215110	9661 OMA PL	GARDEN GROVE	379.40
09704216	13401 WILSON ST	GARDEN GROVE	379.40
93466003	11017 CYNTHIA CIR	GARDEN GROVE	379.40
09004119	11331 CHAPMAN AVE	GARDEN GROVE	379.40
08934203	11751 MORRIE LN	GARDEN GROVE	379.40
08929203	10522 ALLEN DR	GARDEN GROVE	378.69
10114248	13772 BORDEAUX ST	GARDEN GROVE	378.69
09813128	9782 11TH ST	GARDEN GROVE	377.91
10037321	13351 ROCKINGHORSE RD	GARDEN GROVE	376.65
10144405	13412 REDBIRD ST	GARDEN GROVE	376.65
10145106	13221 PARTRIDGE ST	GARDEN GROVE	376.65
23124204	12541 HILTON ST	GARDEN GROVE	376.65
08933414	10131 CHAPMAN AVE	GARDEN GROVE	376.65
13225207	11581 YANA DR	GARDEN GROVE	376.65
12736104	10041 GRAVIER ST	ANAHEIM	376.65
23122505	12672 ARLETTA CIR	GARDEN GROVE	376.65
08926302	12262 ELLEN ST	GARDEN GROVE	376.65
21505114	8651 BLANCHE AVE	GARDEN GROVE	376.65
12747506	9142 PACIFIC AVE	ANAHEIM	376.65
13347216	12942 LOUISE ST	GARDEN GROVE	376.65
10031503	11062 TRASK AVE	GARDEN GROVE	376.65
08934408	11831 SEACREST DR	GARDEN GROVE	376.65
13337204	9824 STANFORD AVE	GARDEN GROVE	376.65
13344210	8872 ACACIA AVE	GARDEN GROVE	376.65
09835202	9792 READING AVE	GARDEN GROVE	376.65
09929327	13312 BENTON ST	GARDEN GROVE	375.71
13236116	11561 BROOKHURST ST	GARDEN GROVE	375.71
09937208	13702 CYPRESS ST	GARDEN GROVE	375.71
09040403	11642 FREDRICK DR	GARDEN GROVE	375.71
09950413	13941 HOWARD ST	GARDEN GROVE	375.71
09944314	14382 LAKE ST	GARDEN GROVE	375.71
23162406	12302 SUNGROVE ST	GARDEN GROVE	375.71
23139202	12072 DUNKLEE LN	GARDEN GROVE	375.71
13343133	12792 HAZEL AVE	GARDEN GROVE	375.51
13335308	12661 SUSAN CIR	GARDEN GROVE	371.15
09907134	13281 CYPRESS ST	GARDEN GROVE	371.15
13242306	9381 SKYLARK BLVD	GARDEN GROVE	369.56
13119603	8332 BUCHANAN DR	ANAHEIM	366.97
09029102	11741 STANFORD AVE	GARDEN GROVE	366.53
08959315	11231 RUGH ST	GARDEN GROVE	366.48
09067341	12950 NEWHOPE ST	GARDEN GROVE	366.34
09721116	13031 JEFFERSON ST	GARDEN GROVE	362.68
09008213	12381 ELMWOOD ST	GARDEN GROVE	358.14
13222208	11321 MAGNOLIA ST	GARDEN GROVE	358.14
09035310	11841 MORGAN LN	GARDEN GROVE	358.14
23122314	12641 AUDREY CIR	GARDEN GROVE	357.18

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
12741102	10252 GILBERT ST	ANAHEIM	356.85
10152339	12728 CYNTHIA AVE	GARDEN GROVE	356.02
23137322	12582 NADINE LN	GARDEN GROVE	355.93
12709142	9802 W BROADWAY AVE	ANAHEIM	354.65
13118105	8441 AUGUSTA DR	ANAHEIM	354.65
12756312	10901 BERRY AVE	ANAHEIM	354.65
12735109	9701 BIENVILLE AVE	ANAHEIM	354.65
12741120	10282 BOUVAIS RD	ANAHEIM	354.65
12758201	9542 CANTON AVE	ANAHEIM	354.65
12750110	9552 CERRITOS AVE	ANAHEIM	354.65
12738629	9841 CHANTICLEER RD	ANAHEIM	354.65
12738628	9851 CHANTICLEER RD	ANAHEIM	354.65
12723122	9741 CLEARBROOK LN	ANAHEIM	354.65
12723104	9772 CLEARBROOK LN	ANAHEIM	354.65
12727202	9722 COLCHESTER DR	ANAHEIM	354.65
12759114	9601 CRESTWOOD LN	ANAHEIM	354.65
12759207	9602 CRESTWOOD LN	ANAHEIM	354.65
21508313	12412 DALE ST	GARDEN GROVE	354.65
12749226	10562 DESSER LN	ANAHEIM	354.65
12758305	10901 ENDRY ST	ANAHEIM	354.65
12758310	10961 ENDRY ST	ANAHEIM	354.65
13123213	8131 FILLMORE DR	ANAHEIM	354.65
12721421	9622 GILBERT ST	ANAHEIM	354.65
12750215	10582 GILBERT ST	ANAHEIM	354.65
12757347	10921 GILBERT ST	ANAHEIM	354.65
12736207	10141 GRAVIER ST	ANAHEIM	354.65
12736209	10161 GRAVIER ST	ANAHEIM	354.65
12757206	10821 HARCOURT AVE	ANAHEIM	354.65
12752140	9935 HARLE AVE	ANAHEIM	354.65
12740208	9601 HARRIET LN	ANAHEIM	354.65
12728101	9782 HARVEST LN	ANAHEIM	354.65
13203104	8692 KATELLA AVE	ANAHEIM	354.65
21510218	12721 LORNA ST	GARDEN GROVE	354.65
12650103	10871 MAC ST	ANAHEIM	354.65
13120108	11591 MOEN ST	ANAHEIM	354.65
13120109	11601 MOEN ST	ANAHEIM	354.65
13120134	11532 MOSSLER ST	ANAHEIM	354.65
13120405	11551 NEARING DR	ANAHEIM	354.65
13119305	11791 NEARING DR	ANAHEIM	354.65
12741234	9721 PALAIS RD	ANAHEIM	354.65
12727414	9731 PANDORA LN	ANAHEIM	354.65
12740143	10401 PATRICIA DR	ANAHEIM	354.65
13118221	11866 POES ST	ANAHEIM	354.65
12748409	10611 RODEO DR	ANAHEIM	354.65
12721501	9622 STONYBROOK DR	ANAHEIM	354.65
13229133	8935 ABERDEEN LN	GARDEN GROVE	354.65
08953112	11772 ACORN ST	GARDEN GROVE	354.65
08930317	10141 ALDGATE AVE	GARDEN GROVE	354.65
08929118	10621 ALLEN DR	GARDEN GROVE	354.65
08924426	10851 ALLEN DR	GARDEN GROVE	354.65

Parcel #	Site Address #/Name	City	Net Total 2021
			Delinquent Refuse
10062111	11321 ANABEL AVE	GARDEN GROVE	354.65
10152346	12652 ANABEL AVE	GARDEN GROVE	354.65
10015202	13866 ANITA PL	GARDEN GROVE	354.65
08943112	12111 ARKLEY DR	GARDEN GROVE	354.65
23110137	12741 ARLETTA CIR	GARDEN GROVE	354.65
23132204	12671 ASPENWOOD LN	GARDEN GROVE	354.65
23157323	12812 ASPENWOOD LN	GARDEN GROVE	354.65
09738413	13452 BALOS DR	GARDEN GROVE	354.65
23150113	12091 BANGOR ST	GARDEN GROVE	354.65
13215210	11421 BARCLAY DR	GARDEN GROVE	354.65
23145119	12391 BECK AVE	GARDEN GROVE	354.65
09738504	8012 BESTEL AVE	GARDEN GROVE	354.65
13307105	9451 BIXBY AVE	GARDEN GROVE	354.65
10143333	13341 BLACKBIRD ST	GARDEN GROVE	354.65
10144104	13391 BLACKBIRD ST	GARDEN GROVE	354.65
09946110	10461 BLAKE ST	GARDEN GROVE	354.65
23155803	12532 BLUE SPRUCE AVE	GARDEN GROVE	354.65
09906315	10392 BONNIE DR	GARDEN GROVE	354.65
09941331	14422 BOWEN ST	GARDEN GROVE	354.65
13201328	11145 BOWLES AVE	GARDEN GROVE	354.65
13213231	11281 BROOKHURST ST	GARDEN GROVE	354.65
08949111	10131 BROOKSIDE DR	GARDEN GROVE	354.65
08949116	10191 BROOKSIDE DR	GARDEN GROVE	354.65
23135144	12281 BUARO ST	GARDEN GROVE	354.65
10106240	13282 BUENA WAY	GARDEN GROVE	354.65
09033601	11672 CANDY LN	GARDEN GROVE	354.65
13235504	11601 CAPRI DR	GARDEN GROVE	354.65
10146206	12552 CARDINAL AVE	GARDEN GROVE	354.65
09803504	9152 CARL LN	GARDEN GROVE	354.65
09953312	10701 CATALINA ST	GARDEN GROVE	354.65
09738104	8102 CENTRAL AVE	GARDEN GROVE	354.65
09902409	10053 CENTRAL AVE	GARDEN GROVE	354.65
13152129	8422 CERULEAN DR	GARDEN GROVE	354.65
23154515	12582 CHAPARRAL DR	GARDEN GROVE	354.65
13245512	8891 CHAPMAN AVE	GARDEN GROVE	354.65
08925218	10842 CHAPMAN AVE	GARDEN GROVE	354.65
23302223	12081 CHAPMAN AVE	GARDEN GROVE	354.65
13238720	9902 COCKATOO LN	GARDEN GROVE	354.65
13306205	12202 CORVETTE ST	GARDEN GROVE	354.65
13306207	12222 CORVETTE ST	GARDEN GROVE	354.65
09051313	11461 CRISSEY WAY	GARDEN GROVE	354.65
09806407	9732 CROSBY AVE	GARDEN GROVE	354.65
10001329	11151 CROSBY AVE	GARDEN GROVE	354.65
09825407	9702 DAKOTA AVE	GARDEN GROVE	354.65
08947301	11242 DALLAS DR	GARDEN GROVE	354.65
23117114	13382 DAWN AVE	GARDEN GROVE	354.65
23313419	11841 DEBBIE LN	GARDEN GROVE	354.65
13212704	9802 DEWEY DR	GARDEN GROVE	354.65
13212531	9821 DEWEY DR	GARDEN GROVE	354.65
08925115	12061 DIANE ST	GARDEN GROVE	354.65

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
10114233	13792 DIEPPE ST	GARDEN GROVE	354.65
10114242	13811 DIEPPE ST	GARDEN GROVE	354.65
21506106	12151 DITMORE DR	GARDEN GROVE	354.65
08957507	11441 DOLAN ST	GARDEN GROVE	354.65
09056301	11852 DORADA AVE	GARDEN GROVE	354.65
09766247	13231 DRAKE ST	GARDEN GROVE	354.65
21511718	8822 DUDMAN DR	GARDEN GROVE	354.65
21511601	8852 DUDMAN DR	GARDEN GROVE	354.65
23112206	13336 DUNKLEE AVE	GARDEN GROVE	354.65
13334106	12582 EDIETH DR	GARDEN GROVE	354.65
13334409	12711 EDIETH DR	GARDEN GROVE	354.65
23142219	12442 EL RANCHO PL	GARDEN GROVE	354.65
13201313	8552 ELMER LN	GARDEN GROVE	354.65
09008209	12331 ELMWOOD ST	GARDEN GROVE	354.65
10010310	13422 ELMWOOD ST	GARDEN GROVE	354.65
09727150	8701 ENLOE CIR	GARDEN GROVE	354.65
09843106	9021 ENLOE WAY	GARDEN GROVE	354.65
09007226	12322 EUCLID ST	GARDEN GROVE	354.65
09041412	11722 EUDORA LN	GARDEN GROVE	354.65
08950604	11531 FAYE AVE	GARDEN GROVE	354.65
09926402	13632 FERNWOOD DR	GARDEN GROVE	354.65
23161409	12477 FIREBRAND ST	GARDEN GROVE	354.65
23161408	12491 FIREBRAND ST	GARDEN GROVE	354.65
10161151	12161 FLINT CIR	GARDEN GROVE	354.65
10134321	12341 FLINT PL	GARDEN GROVE	354.65
08930106	11021 FLYNN LN	GARDEN GROVE	354.65
10007311	11441 FRANCES AVE	GARDEN GROVE	354.65
08959214	11231 FULMER DR	GARDEN GROVE	354.65
08959303	11242 FULMER DR	GARDEN GROVE	354.65
09824207	13371 GALWAY ST	GARDEN GROVE	354.65
09034303	12302 GAMMA ST	GARDEN GROVE	354.65
08930102	11021 GARDEN DR	GARDEN GROVE	354.65
09823111	13211 GILBERT ST	GARDEN GROVE	354.65
09735619	13362 HALE AVE	GARDEN GROVE	354.65
23312312	11872 HASTER ST	GARDEN GROVE	354.65
09944423	10615 HAZARD AVE	GARDEN GROVE	354.65
09735704	13321 HAZEL ST	GARDEN GROVE	354.65
23124140	13382 HEATHER CIR	GARDEN GROVE	354.65
09950423	13921 HEIDI ST	GARDEN GROVE	354.65
09950427	13962 HEIDI ST	GARDEN GROVE	354.65
13236130	9881 HIBISCUS DR	GARDEN GROVE	354.65
08960208	10301 HILL RD	GARDEN GROVE	354.65
39902159	13191 HILTON LN	GARDEN GROVE	354.65
23313151	11721 HOLYOAK LN	GARDEN GROVE	354.65
09917409	14161 HOPE ST	GARDEN GROVE	354.65
09959215	14452 HOPE ST	GARDEN GROVE	354.65
13209141	11151 HUBER ST	GARDEN GROVE	354.65
09802114	9021 IMPERIAL AVE	GARDEN GROVE	354.65
09802351	9102 IMPERIAL AVE	GARDEN GROVE	354.65
09824303	9642 IMPERIAL AVE	GARDEN GROVE	354.65

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09825108	9791 IMPERIAL AVE	GARDEN GROVE	354.65
09928322	10372 IMPERIAL AVE	GARDEN GROVE	354.65
09036220	11762 JACALENE LN	GARDEN GROVE	354.65
13151130	12672 JACKSON ST	GARDEN GROVE	354.65
23136201	12352 JANET ST	GARDEN GROVE	354.65
09039112	12051 JANETTE LN	GARDEN GROVE	354.65
09940206	10311 JENNRICH AVE	GARDEN GROVE	354.65
09945602	10461 JENNRICH AVE	GARDEN GROVE	354.65
09006105	11331 JERRY LN	GARDEN GROVE	354.65
09034101	11501 JERRY LN	GARDEN GROVE	354.65
09929308	13391 JESSICA DR	GARDEN GROVE	354.65
09039619	11832 JOHN AVE	GARDEN GROVE	354.65
13222411	8962 JOYZELLE DR	GARDEN GROVE	354.65
13213304	9792 JOYZELLE DR	GARDEN GROVE	354.65
09044316	11421 KATHY LN	GARDEN GROVE	354.65
09042226	11502 KATHY LN	GARDEN GROVE	354.65
09042214	11642 KATHY LN	GARDEN GROVE	354.65
09036313	11781 KATHY LN	GARDEN GROVE	354.65
09948108	10582 KEEL AVE	GARDEN GROVE	354.65
09941216	10391 KERN AVE	GARDEN GROVE	354.65
08958425	10671 LA DONA DR	GARDEN GROVE	354.65
13202214	8812 LA GRAND AVE	GARDEN GROVE	354.65
09841309	13781 LA VAUGHN DR	GARDEN GROVE	354.65
09944317	14352 LAKE ST	GARDEN GROVE	354.65
13318358	9081 LAMPSON AVE	GARDEN GROVE	354.65
09007202	11051 LAMPSON AVE	GARDEN GROVE	354.65
10038321	13621 LANNING ST	GARDEN GROVE	354.65
10148109	13341 LARAMORE LN	GARDEN GROVE	354.65
09901616	10181 LARSON AVE	GARDEN GROVE	354.65
13208103	11151 LAURIANNE LN	GARDEN GROVE	354.65
23154126	12561 LAUX AVE	GARDEN GROVE	354.65
23154402	12652 LAUX AVE	GARDEN GROVE	354.65
13152160	8361 LENORE ST	GARDEN GROVE	354.65
13329306	12561 LEROY AVE	GARDEN GROVE	354.65
13342102	12772 LEROY AVE	GARDEN GROVE	354.65
10039102	13731 LIBBY LN	GARDEN GROVE	354.65
09046301	11192 LIDA LN	GARDEN GROVE	354.65
09046206	11201 LIDA LN	GARDEN GROVE	354.65
13241305	11922 LORALEEN ST	GARDEN GROVE	354.65
13308201	12001 LORALEEN ST	GARDEN GROVE	354.65
09736703	13181 LUCILLE ST	GARDEN GROVE	354.65
09808109	9812 LUDERS AVE	GARDEN GROVE	354.65
09913412	13302 LYNNE DR	GARDEN GROVE	354.65
13331208	12531 MABEE CIR	GARDEN GROVE	354.65
13245610	11961 MAC ST	GARDEN GROVE	354.65
13227316	11632 MAC DUFF ST	GARDEN GROVE	354.65
13227312	11682 MAC DUFF ST	GARDEN GROVE	354.65
13222117	11301 MAC NAB ST	GARDEN GROVE	354.65
13230204	11662 MAGNOLIA ST	GARDEN GROVE	354.65
13245414	11921 MAGNOLIA ST	GARDEN GROVE	354.65

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09764102	13251 MAGNOLIA ST	GARDEN GROVE	354.65
08955222	10532 MAHALO WAY	GARDEN GROVE	354.65
10161141	12211 MARBLE CIR	GARDEN GROVE	354.65
39916406	13302 MARTY LN	GARDEN GROVE	354.65
13245503	8872 MARYLEE DR	GARDEN GROVE	354.65
13245505	8892 MARYLEE DR	GARDEN GROVE	354.65
09952505	10701 MAST AVE	GARDEN GROVE	354.65
09756502	8612 MAYS AVE	GARDEN GROVE	354.65
08947406	10372 MCDANIEL DR	GARDEN GROVE	354.65
09912107	10652 MCKEEN ST	GARDEN GROVE	354.65
08944119	10201 MCMICHAEL DR	GARDEN GROVE	354.65
13316307	12381 MEADE ST	GARDEN GROVE	354.65
13316309	12421 MEADE ST	GARDEN GROVE	354.65
09946307	13941 MERELLO ST	GARDEN GROVE	354.65
09906404	10412 MILDRED AVE	GARDEN GROVE	354.65
09906320	10421 MILDRED AVE	GARDEN GROVE	354.65
09926203	13662 MILLS RD	GARDEN GROVE	354.65
09926110	13681 MILLS RD	GARDEN GROVE	354.65
09913302	13342 MITCHELL AVE	GARDEN GROVE	354.65
09737511	13357 MONROE ST	GARDEN GROVE	354.65
09059208	12597 MORGAN LN	GARDEN GROVE	354.65
09939605	10302 MORNINGSIDE DR	GARDEN GROVE	354.65
08934105	11792 MORRIE LN	GARDEN GROVE	354.65
13208503	9302 MURLINE DR	GARDEN GROVE	354.65
13208419	9321 MURLINE DR	GARDEN GROVE	354.65
09908206	13071 NELSON ST	GARDEN GROVE	354.65
09032428	11882 9TH ST	GARDEN GROVE	354.65
09021221	12092 9TH ST	GARDEN GROVE	354.65
09026138	12822 9TH ST	GARDEN GROVE	354.65
08951107	12141 NUTWOOD ST	GARDEN GROVE	354.65
09838317	9571 OASIS AVE	GARDEN GROVE	354.65
09835311	9902 OASIS AVE	GARDEN GROVE	354.65
09835312	9912 OASIS AVE	GARDEN GROVE	354.65
13332313	12501 OCEAN BREEZE DR	GARDEN GROVE	354.65
13224242	8671 ORANGEWOOD AVE	GARDEN GROVE	354.65
13235201	9732 ORANGEWOOD AVE	GARDEN GROVE	354.65
09940419	10357 ORREY PL	GARDEN GROVE	354.65
10134210	13101 PALM ST	GARDEN GROVE	354.65
10163331	12091 PEARCE AVE	GARDEN GROVE	354.65
10143340	12405 PEARCE ST	GARDEN GROVE	354.65
10132505	12792 PEARCE ST	GARDEN GROVE	354.65
10132416	12811 PEARCE ST	GARDEN GROVE	354.65
10132510	12852 PEARCE ST	GARDEN GROVE	354.65
21511405	12391 PENTAGON ST	GARDEN GROVE	354.65
10033522	11751 PERCHERON RD	GARDEN GROVE	354.65
09012305	12682 PINE ST	GARDEN GROVE	354.65
13313102	12451 PLEASANT PL	GARDEN GROVE	354.65
09944219	14322 PLEASANT ST	GARDEN GROVE	354.65
13218226	11432 POLLARD DR	GARDEN GROVE	354.65
23313433	11832 PURYEAR LN	GARDEN GROVE	354.65

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
23313429	11841 PURYEAR LN	GARDEN GROVE	354.65
10161203	13071 RAINBOW ST	GARDEN GROVE	354.65
10161212	13171 RAINBOW ST	GARDEN GROVE	354.65
13212530	11191 RAINIER CT	GARDEN GROVE	354.65
10144211	12431 RANCHERO WAY	GARDEN GROVE	354.65
10144208	12471 RANCHERO WAY	GARDEN GROVE	354.65
10106217	12692 RANCHERO WAY	GARDEN GROVE	354.65
10130106	12952 RANCHERO WAY	GARDEN GROVE	354.65
13315325	12332 REA CIR	GARDEN GROVE	354.65
09835115	9951 READING AVE	GARDEN GROVE	354.65
10143701	13332 REDBIRD ST	GARDEN GROVE	354.65
09050204	11432 REVA DR	GARDEN GROVE	354.65
09020510	11942 REXFORD RD	GARDEN GROVE	354.65
10167125	13171 ROBERTA PL	GARDEN GROVE	354.65
08944123	10221 ROSELEE DR	GARDEN GROVE	354.65
09037302	11842 ROXBURY RD	GARDEN GROVE	354.65
08962313	11151 RUGH ST	GARDEN GROVE	354.65
09804141	9382 RUSSELL AVE	GARDEN GROVE	354.65
10144206	12462 RUSSELL CIR	GARDEN GROVE	354.65
09026214	12842 SAFFORD W	GARDEN GROVE	354.65
10151407	12662 SALINAZ DR	GARDEN GROVE	354.65
09041311	11702 SAMUEL DR	GARDEN GROVE	354.65
09036518	11972 SAMUEL DR	GARDEN GROVE	354.65
08934403	11761 SEACREST DR	GARDEN GROVE	354.65
10148136	13031 SIEMON AVE	GARDEN GROVE	354.65
10148126	13141 SIEMON AVE	GARDEN GROVE	354.65
13328221	9021 STANFORD AVE	GARDEN GROVE	354.65
13339157	9702 STANFORD AVE	GARDEN GROVE	354.65
09026005	11571 STANFORD AVE	GARDEN GROVE	354.65
09026004	11581 STANFORD AVE	GARDEN GROVE	354.65
23140105	12182 STANFORD AVE	GARDEN GROVE	354.65
09952511	14802 STARBOARD ST	GARDEN GROVE	354.65
09952415	14831 STARBOARD ST	GARDEN GROVE	354.65
08940113	11762 STEELE DR	GARDEN GROVE	354.65
08941102	11822 STEELE DR	GARDEN GROVE	354.65
08941206	11881 STEELE DR	GARDEN GROVE	354.65
08941106	11882 STEELE DR	GARDEN GROVE	354.65
10132111	13261 STEPHENS AVE	GARDEN GROVE	354.65
09037612	12381 STRATHMORE DR	GARDEN GROVE	354.65
23163203	12182 SUNGROVE ST	GARDEN GROVE	354.65
09811303	9532 SUTHERLAND WAY	GARDEN GROVE	354.65
23154415	12582 SWEETBRIAR DR	GARDEN GROVE	354.65
23154305	12591 SWEETBRIAR DR	GARDEN GROVE	354.65
23147128	12272 TAMERLANE DR	GARDEN GROVE	354.65
09931722	10041 TEAL DR	GARDEN GROVE	354.65
09942220	10701 TEAL DR	GARDEN GROVE	354.65
13221228	8932 TRACY AVE	GARDEN GROVE	354.65
09904619	10231 TRASK AVE	GARDEN GROVE	354.65
09934401	10002 TRAYLOR WAY	GARDEN GROVE	354.65
09934102	10021 TRAYLOR WAY	GARDEN GROVE	354.65

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09934405	10072 TRAYLOR WAY	GARDEN GROVE	354.65
09050301	11402 TRUE WAY	GARDEN GROVE	354.65
09050306	11462 TRUE WAY	GARDEN GROVE	354.65
13226313	8512 TWANA DR	GARDEN GROVE	354.65
13226216	8531 TWANA DR	GARDEN GROVE	354.65
13226215	8541 TWANA DR	GARDEN GROVE	354.65
08916130	11561 VARNA ST	GARDEN GROVE	354.65
23154506	12601 VOLKWOOD ST	GARDEN GROVE	354.65
09010121	12531 WALNUT AVE	GARDEN GROVE	354.65
13201205	11132 WASCO RD	GARDEN GROVE	354.65
13227420	11672 WASCO RD	GARDEN GROVE	354.65
09050508	11861 WAVERLY DR	GARDEN GROVE	354.65
13341102	9301 WELDON DR	GARDEN GROVE	354.65
09038235	12081 WEST ST	GARDEN GROVE	354.65
09908106	13081 WESTLAKE ST	GARDEN GROVE	354.65
09909411	13122 WESTLAKE ST	GARDEN GROVE	354.65
23314112	12131 WILKEN WAY	GARDEN GROVE	354.65
23152523	12661 WILLOWOOD AVE	GARDEN GROVE	354.65
09943111	10522 WOODBURY RD	GARDEN GROVE	354.65
09056103	12532 WOODLAND LN	GARDEN GROVE	354.65
09034131	12372 ZETA ST	GARDEN GROVE	354.65
09812025	9921 11TH ST	GARDEN GROVE	354.65
09069122	12091 HENRY EVANS DR	GARDEN GROVE	354.65
23312211	13041 SIRIUS AVE	ORANGE	354.65
10116109	13892 HARPER ST	SANTA ANA	354.65
10116214	13931 HARPER ST	SANTA ANA	354.65
10116231	13822 LAUREL ST	SANTA ANA	354.65
12734160	10044 GILBERT ST	ANAHEIM	354.65
09916242	14032 FLOWER ST	GARDEN GROVE	354.65
08936110	10012 BONSER AVE	GARDEN GROVE	354.21
13213103	11291 GARDENAIRE LN	GARDEN GROVE	353.96
23153323	12581 LAMPSON AVE	GARDEN GROVE	353.51
09067290	12909 NEWHOPE ST	GARDEN GROVE	352.34
23131308	12121 FIREBRAND ST	GARDEN GROVE	347.63
23137333	12542 JANET LN	GARDEN GROVE	347.59
10033204	13202 ROCKINGHORSE RD	GARDEN GROVE	339.94
09007102	11101 LAMPSON AVE	GARDEN GROVE	337.08
13231312	9132 MARCHAND AVE	GARDEN GROVE	337.01
08959606	11292 CLARISSA ST	GARDEN GROVE	336.95
12756223	10924 BERRY AVE	ANAHEIM	336.09
09908245	13092 BENTON ST	GARDEN GROVE	336.09
09908245	13094 BENTON ST	GARDEN GROVE	336.09
09908245	13096 BENTON ST	GARDEN GROVE	336.09
09802336	9095 BESTEL AVE	GARDEN GROVE	336.09
09802336	9095 BESTEL AVE	GARDEN GROVE	336.09
10165317	13641 FAIRVIEW ST	GARDEN GROVE	336.09
09943311	13791 HEIDI CIR	GARDEN GROVE	336.09
21506435	12181 MAGNOLIA ST	GARDEN GROVE	336.09
09067261	12837 NEWHOPE ST	GARDEN GROVE	336.09
23307433	12832 SUSSEX CIR	GARDEN GROVE	336.09

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09913160	13261 MICHAEL RAINFORD CIR CI	GARDEN GROVE	336.09
23110304	12832 HASTER ST	GARDEN GROVE	336.09
10130336	13471 RANCHERO PL	GARDEN GROVE	335.32
13312105	12301 HESTER PL	GARDEN GROVE	334.59
23162720	12972 TWINTREE LN	GARDEN GROVE	322.98
09909120	13128 MENDOCINO LN	GARDEN GROVE	322.03
12758410	10962 JEAN ST	ANAHEIM	319.23
23307436	12844 SUSSEX CIR	GARDEN GROVE	313.96
13208526	11191 GILBERT ST	GARDEN GROVE	310.96
13344231	12851 MAGNOLIA ST	GARDEN GROVE	310.20
09902615	10206 CROSBY AVE	GARDEN GROVE	310.06
10037238	11732 PALOMA AVE	GARDEN GROVE	309.94
23155716	12702 BLUE SPRUCE AVE	GARDEN GROVE	308.50
10134304	12311 MARBLE PL	GARDEN GROVE	308.07
09020227	11971 COMSTOCK RD	GARDEN GROVE	306.46
08959714	10722 PARLIAMENT AVE	GARDEN GROVE	304.24
09050210	11451 TRUE WAY	GARDEN GROVE	303.86
13206204	9161 ALWICK CIR	GARDEN GROVE	302.40
08929113	10681 ALLEN DR	GARDEN GROVE	301.95
09901407	10064 EMERSON AVE	GARDEN GROVE	301.82
12757327	10914 HARCOURT AVE	ANAHEIM	296.66
23146319	12252 MAYPOLE DR	GARDEN GROVE	296.25
12748309	9242 PACIFIC AVE	ANAHEIM	294.62
09960211	14391 FLOWER ST	GARDEN GROVE	294.02
21512413	12321 PENTAGON ST	GARDEN GROVE	293.02
13227321	11562 MAC DUFF ST	GARDEN GROVE	293.01
08958407	10321 MALINDA LN	GARDEN GROVE	292.22
10033336	11852 PERCHERON RD	GARDEN GROVE	291.36
12724120	9861 STONYBROOK DR	ANAHEIM	291.36
9044414	11401 MORGAN LN	GARDEN GROVE	290.81
13346112	12791 JOSEPHINE ST	GARDEN GROVE	290.81
08923218	12721 GROVEVIEW ST	GARDEN GROVE	288.65
09907304	13281 DEANANN PL	GARDEN GROVE	287.74
08937112	12261 MOVIUS DR	GARDEN GROVE	286.41
23137114	12501 MERRILL ST	GARDEN GROVE	285.86
08931108	10061 ROADS END DR	GARDEN GROVE	285.86
09041507	11582 REVA DR	GARDEN GROVE	285.86
09804163	9411 LUDERS AVE	GARDEN GROVE	285.86
12727213	9701 VANCOUVER DR	ANAHEIM	285.86
09942215	10702 MALLARD DR	GARDEN GROVE	285.86
13229217	11661 ANGUS CT	GARDEN GROVE	285.86
09806416	9751 CENTRAL AVE	GARDEN GROVE	285.86
23162310	12311 SUNGROVE ST	GARDEN GROVE	285.86
09039406	12062 JACALENE LN	GARDEN GROVE	285.86
23140117	12231 DUNKLEE LN	GARDEN GROVE	284.79
10148114	13401 LARAMORE LN	GARDEN GROVE	283.42
23307434	12836 SUSSEX CIR	GARDEN GROVE	283.15
23137113	12511 MERRILL ST	GARDEN GROVE	283.11
23142217	12422 EL RANCHO PL	GARDEN GROVE	283.11
08924206	12101 ELLEN ST	GARDEN GROVE	283.11

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09918452	10788 LOTUS DR	GARDEN GROVE	283.11
10002306	11191 PALOMA AVE	GARDEN GROVE	283.11
13226310	8552 TWANA DR	GARDEN GROVE	283.11
09952414	14821 STARBOARD ST	GARDEN GROVE	283.11
13331107	9441 MAYRENE DR	GARDEN GROVE	283.11
23146301	12322 HAMPTON AVE	GARDEN GROVE	283.11
09826218	9331 TRASK AVE	GARDEN GROVE	283.11
23140106	12162 STANFORD AVE	GARDEN GROVE	283.11
12735119	10081 MILNEBURG ST	ANAHEIM	283.11
09041314	11731 EUDORA LN	GARDEN GROVE	283.11
08939305	11661 GARY ST	GARDEN GROVE	283.11
08933119	11912 EDGEWOOD LN	GARDEN GROVE	280.71
13209310	9618 DEWEY DR	GARDEN GROVE	280.36
09825310	9682 RUSSELL AVE	GARDEN GROVE	280.36
12722310	9661 ROSEBAY ST	ANAHEIM	280.36
23313426	12142 REVA DR	GARDEN GROVE	280.36
09949104	10641 KEEL AVE	GARDEN GROVE	280.36
12740151	10421 LARRY DR	ANAHEIM	280.36
23307225	11876 OERTLY CIR	GARDEN GROVE	280.36
09911005	13182 TAFT ST	GARDEN GROVE	280.36
09067319	12922 NEWHOPE ST	GARDEN GROVE	280.36
13248328	8551 CHAPMAN AVE	GARDEN GROVE	280.36
13239104	9541 SKYLARK BLVD	GARDEN GROVE	280.36
09042409	11852 DANIEL AVE	GARDEN GROVE	280.36
13339130	12791 VILLAGE RD	GARDEN GROVE	280.36
10062110	11311 ANABEL AVE	GARDEN GROVE	280.36
13216307	9602 JOYZELLE DR	GARDEN GROVE	280.36
13217320	9411 JOYZELLE DR	GARDEN GROVE	280.36
13307216	9301 BIXBY AVE	GARDEN GROVE	280.36
13214206	9852 OMA PL	GARDEN GROVE	280.36
23135112	12271 NADINE CIR	GARDEN GROVE	280.36
12738522	9871 PALAIS RD	ANAHEIM	280.36
09728152	8821 BOYD AVE	GARDEN GROVE	280.36
13331124	12571 MABEE CIR	GARDEN GROVE	280.36
12736312	10201 ANTIGUA ST	ANAHEIM	280.36
13330310	12631 LORALEEN ST	GARDEN GROVE	280.36
13202203	11151 MAC DUFF ST	GARDEN GROVE	280.36
09068142	11081 ORCHARD PL	GARDEN GROVE	280.36
08938303	12271 MORRIE LN	GARDEN GROVE	280.36
10131530	12222 QUATRO AVE	GARDEN GROVE	280.36
10106245	12691 GLORIA ST	GARDEN GROVE	280.36
09730212	13871 ELLIOTT PL	GARDEN GROVE	280.36
13208413	9401 MURLINE DR	GARDEN GROVE	280.36
23131110	12041 FALLINGLEAF CIR	GARDEN GROVE	280.36
09051417	11671 WAVERLY DR	GARDEN GROVE	280.36
23314215	11671 JEWEL LN	GARDEN GROVE	280.36
13206226	9142 BICKLEY CIR	GARDEN GROVE	280.36
09736614	13162 LUCILLE ST	GARDEN GROVE	280.36
13331129	12532 MABEE CIR	GARDEN GROVE	280.36
21510110	12621 JOSEPHINE ST	GARDEN GROVE	280.36

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
10131307	13812 BEWLEY ST	GARDEN GROVE	280.36
12728311	9531 VANCOUVER DR	ANAHEIM	280.36
13153136	8381 ACACIA AVE	GARDEN GROVE	280.36
12724162	9621 COLONY ST	ANAHEIM	280.36
09970108	10861 HOWARD DALLIES JR CIR	GARDEN GROVE	280.36
8917005	11931 HARRIS ST	GARDEN GROVE	279.53
09056104	12542 WOODLAND LN	GARDEN GROVE	279.53
09902615	10204 CROSBY AVE	GARDEN GROVE	278.76
13315316	12322 LORETTA CIR	GARDEN GROVE	278.01
12735111	9671 BIENVILLE AVE	ANAHEIM	277.65
09930408	10212 TRAYLOR WAY	GARDEN GROVE	276.78
10036212	11662 GLEN COVE DR	GARDEN GROVE	276.34
13202222	8731 DEWEY DR	GARDEN GROVE	276.05
12759117	9641 CRESTWOOD LN	ANAHEIM	274.96
39916409	13342 MARTY LN	GARDEN GROVE	274.90
09823301	9282 CROSBY AVE	GARDEN GROVE	271.65
12727312	9711 MYSTIC LN	ANAHEIM	269.40
08942403	11801 PALMWOOD DR	GARDEN GROVE	269.27
13228206	11561 MAC ST	GARDEN GROVE	266.97
10130334	13452 ROBERTA CIR	GARDEN GROVE	266.65
13242307	9361 SKYLARK BLVD	GARDEN GROVE	266.61
21506207	8861 BLOSSOM AVE	GARDEN GROVE	266.61
12752127	9936 CRIS AVE	ANAHEIM	266.61
13118204	11841 DALE ST	GARDEN GROVE	266.61
12736105	10051 GRAVIER ST	ANAHEIM	266.61
12735127	10171 MILNEBURG ST	ANAHEIM	266.61
13120409	11601 NEARING DR	ANAHEIM	266.61
13119505	11922 NEARING DR	ANAHEIM	266.61
12739105	10411 PERDIDO ST	ANAHEIM	266.61
13118213	11832 POES ST	ANAHEIM	266.61
13123302	11961 ROCKVIEW DR	ANAHEIM	266.61
12724127	9891 STONYBROOK DR	ANAHEIM	266.61
12649306	8852 SYRACUSE AVE	ANAHEIM	266.61
08920114	10771 ACACIA PKWY	GARDEN GROVE	266.61
23110139	12752 ARLETTA CIR	GARDEN GROVE	266.61
23155702	12601 ASPENWOOD LN	GARDEN GROVE	266.61
23152301	12252 BANGOR ST	GARDEN GROVE	266.61
10009108	13271 BARNETT WAY	GARDEN GROVE	266.61
10009210	13342 BARNETT WAY	GARDEN GROVE	266.61
21506410	8791 BARR LN	GARDEN GROVE	266.61
08930206	10102 BECCA DR	GARDEN GROVE	266.61
23145111	12281 BECK AVE	GARDEN GROVE	266.61
10144102	13371 BLACKBIRD ST	GARDEN GROVE	266.61
09906207	10421 BONNIE DR	GARDEN GROVE	266.61
09738105	8082 CENTRAL AVE	GARDEN GROVE	266.61
09823412	9422 CENTRAL AVE	GARDEN GROVE	266.61
13241318	9395 CHAPMAN AVE	GARDEN GROVE	266.61
08933123	10161 CHAPMAN AVE	GARDEN GROVE	266.61
13243303	11742 CLOVER LN	GARDEN GROVE	266.61
13243218	11751 CLOVER LN	GARDEN GROVE	266.61

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
13243212	11821 CLOVER LN	GARDEN GROVE	266.61
09031106	11551 COLLEGE AVE	GARDEN GROVE	266.61
09823207	9371 CROSBY AVE	GARDEN GROVE	266.61
09928368	13352 CYPRESS ST	GARDEN GROVE	266.61
09931210	13661 DAWSON ST	GARDEN GROVE	266.61
23313129	11742 DEBBIE LN	GARDEN GROVE	266.61
08916108	11571 ELIZABETH ST	GARDEN GROVE	266.61
09728113	8771 ENLOE AVE	GARDEN GROVE	266.61
09041404	11602 EUDORA LN	GARDEN GROVE	266.61
09040231	11701 FREDRICK DR	GARDEN GROVE	266.61
09029221	11801 GARDEN GROVE BLVD	GARDEN GROVE	266.61
08942224	11862 GARY ST	GARDEN GROVE	266.61
23117124	13461 GREENTREE AVE	GARDEN GROVE	266.61
10009229	13432 HAVENWOOD DR	GARDEN GROVE	266.61
09736514	13181 HAZEL ST	GARDEN GROVE	266.61
09902609	13222 HOPE ST	GARDEN GROVE	266.61
13229119	8862 HOPI RD	GARDEN GROVE	266.61
09840107	9092 INGRAM AVE	GARDEN GROVE	266.61
09033112	11932 JACALENE LN	GARDEN GROVE	266.61
09738423	13371 JACKSON ST	GARDEN GROVE	266.61
13330209	12621 JEROME LN	GARDEN GROVE	266.61
13217412	9382 JOYZELLE DR	GARDEN GROVE	266.61
09035408	11971 KATHY LN	GARDEN GROVE	266.61
08928204	10301 KATY LN	GARDEN GROVE	266.61
13152172	8361 KILLARNEY RD	GARDEN GROVE	266.61
09849210	9631 MALLARD AVE	GARDEN GROVE	266.61
08924414	10962 MARIAN DR	GARDEN GROVE	266.61
08929305	12201 MOCKINGBIRD CT	GARDEN GROVE	266.61
09039106	12062 NORMA LN	GARDEN GROVE	266.61
23157409	12861 OERTLY DR	GARDEN GROVE	266.61
09028402	12132 ORA ST	GARDEN GROVE	266.61
10008201	11342 PALOMA AVE	GARDEN GROVE	266.61
10132509	12832 PEARCE ST	GARDEN GROVE	266.61
09844210	9702 PYLE CIR	GARDEN GROVE	266.61
10131518	12122 QUATRO AVE	GARDEN GROVE	266.61
10033405	13201 ROAN RD	GARDEN GROVE	266.61
09044215	11411 ROBERT LN	GARDEN GROVE	266.61
10152403	13771 ROXEY DR	GARDEN GROVE	266.61
09825214	9671 RUSSELL AVE	GARDEN GROVE	266.61
10151310	12661 SALINAZ DR	GARDEN GROVE	266.61
10151312	12691 SALINAZ DR	GARDEN GROVE	266.61
13230305	9112 SHELLEY DR	GARDEN GROVE	266.61
10035102	13371 SORRELL DR	GARDEN GROVE	266.61
09026131	11542 STANFORD AVE	GARDEN GROVE	266.61
08957307	11431 TACOMA ST	GARDEN GROVE	266.61
09926101	13622 TAFT ST	GARDEN GROVE	266.61
13243509	9102 TRISTAN DR	GARDEN GROVE	266.61
13243513	9142 TRISTAN DR	GARDEN GROVE	266.61
08952205	10942 VICKERS DR	GARDEN GROVE	266.61
13220104	9021 VONS DR	GARDEN GROVE	266.61

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
13220102	9051 VONS DR	GARDEN GROVE	266.61
10040218	11411 WOODBURY RD	GARDEN GROVE	266.61
09845114	9711 YERMO CIR	GARDEN GROVE	266.61
09013102	12642 7TH ST	GARDEN GROVE	266.61
09064204	11061 LAVENDER LN	GARDEN GROVE	266.61
10050486	11983 SYCAMORE LN	GARDEN GROVE	265.86
08952604	11752 ACORN ST	GARDEN GROVE	265.78
13223307	11302 BOWLES AVE	GARDEN GROVE	265.78
13312218	9932 WILLIAM DALTON WAY	GARDEN GROVE	265.78
12650210	10901 MACNAB ST	ANAHEIM	264.22
08935221	10392 ORCHID CIR	GARDEN GROVE	263.33
09051307	11402 PRESIDIO WAY	GARDEN GROVE	263.08
10009262	13471 HAVENWOOD DR	GARDEN GROVE	262.30
13234338	9552 SHANNON AVE	GARDEN GROVE	261.70
09037603	12271 STRATHMORE DR	GARDEN GROVE	261.47
09045209	11851 RICKY AVE	GARDEN GROVE	261.47
23152512	12662 TWINTREE LN	GARDEN GROVE	261.47
09034406	12332 DELTA ST	GARDEN GROVE	261.47
10007340	13381 NEWHOPE ST	GARDEN GROVE	259.59
09046201	11192 FOSTORIA ST	GARDEN GROVE	259.38
12752114	10651 BROOKHURST ST	ANAHEIM	259.04
23302304	11892 HOLYOAK LN	GARDEN GROVE	258.76
13332107	12551 LAMBERT CIR	GARDEN GROVE	258.72
09938504	14121 BOWEN ST	GARDEN GROVE	258.72
9738211	8002 IMPERIAL AVE	GARDEN GROVE	258.72
23162713	12892 TWINTREE LN	GARDEN GROVE	258.72
09939406	14132 STENGEL ST	GARDEN GROVE	255.97
09901606	10202 EMERSON AVE	GARDEN GROVE	255.97
10163321	12212 PEARCE AVE	GARDEN GROVE	255.97
13347411	12922 DALE ST	GARDEN GROVE	252.65
09067313	11681 GARDEN GROVE BLVD	GARDEN GROVE	252.65
10008201	13252 NINA PL	GARDEN GROVE	252.65
23307226	11872 OERTLY CIR	GARDEN GROVE	252.65
10050417	13016 MAPLE DR	GARDEN GROVE	252.65
08926108	10771 HOLLY DR	GARDEN GROVE	250.77
09803512	13461 MICKEY ST	GARDEN GROVE	250.62
21510129	12552 LORNA ST	GARDEN GROVE	250.47
12748224	9251 PACIFIC AVE	ANAHEIM	250.47
12722304	9601 ROSEBAY ST	ANAHEIM	250.47
13229132	8931 ABERDEEN LN	GARDEN GROVE	250.47
09928313	13331 BENTON ST	GARDEN GROVE	250.47
23155301	12642 CHOISSER RD	GARDEN GROVE	250.47
13209312	9642 DEWEY DR	GARDEN GROVE	250.47
13203122	8701 ELMER LN	GARDEN GROVE	250.47
10163302	12062 FLAGSTONE AVE	GARDEN GROVE	250.47
10106304	12672 GLORIA ST	GARDEN GROVE	250.47
13342103	12782 LEROY AVE	GARDEN GROVE	250.47
13241107	11941 LORALEEN ST	GARDEN GROVE	250.47
09845101	9732 MADISON CIR	GARDEN GROVE	250.47
09034207	12342 9TH ST	GARDEN GROVE	250.47

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09835224	9781 OASIS AVE	GARDEN GROVE	250.47
08958201	10502 ORANGEWOOD AVE	GARDEN GROVE	250.47
10004311	13202 SAFFORD ST	GARDEN GROVE	250.47
23155307	12691 SWEETBRIAR DR	GARDEN GROVE	250.47
23147208	12372 TWINTREE AVE	GARDEN GROVE	250.47
08911414	10691 VIENNA DR	GARDEN GROVE	250.47
08920123	12771 WESTLAKE ST	GARDEN GROVE	250.47
09007105	11092 VIOLET DR	GARDEN GROVE	249.91
09023406	11612 NORMA LN	GARDEN GROVE	248.53
08910108	10901 MARSHALL LN	GARDEN GROVE	247.90
10038409	13701 LIBBY LN	GARDEN GROVE	247.40
13029310	5382 AMY AVE	GARDEN GROVE	247.35
08928116	12202 MORRIE LN	GARDEN GROVE	245.20
09042407	11882 DANIEL AVE	GARDEN GROVE	244.65
09803105	9191 IMPERIAL AVE	GARDEN GROVE	244.65
10038322	13611 LANNING ST	GARDEN GROVE	244.65
23153212	12702 WILLOWOOD AVE	GARDEN GROVE	244.65
13315316	12322 LORETTA CIR	GARDEN GROVE	242.78
09741220	13451 WILSON ST	GARDEN GROVE	242.70
13327318	8962 ANN CROSS DR	GARDEN GROVE	242.29
09017408	11441 GARDEN GROVE BLVD	GARDEN GROVE	241.16
13229220	11662 ANGUS CT	GARDEN GROVE	240.92
13029411	5372 LAURELTON AVE	GARDEN GROVE	237.96
13029411	5372 LAURELTON AVE	GARDEN GROVE	237.96
09727140	8681 ENLOE CIR	GARDEN GROVE	236.98
09727140	8681 ENLOE CIR	GARDEN GROVE	236.98
9721107	13062 MONROE ST	GARDEN GROVE	234.45
08929106	12151 NELSON ST	GARDEN GROVE	233.66
09037216	11851 ROXBURY RD	GARDEN GROVE	233.08
13117328	11602 MOEN ST	ANAHEIM	232.55
13208524	11171 GILBERT ST	GARDEN GROVE	231.29
21506202	8801 BLOSSOM AVE	GARDEN GROVE	231.29
09939310	14171 STENGEL ST	GARDEN GROVE	230.74
23161107	12411 OERTLY DR	GARDEN GROVE	229.38
13332208	12571 JANE DR	GARDEN GROVE	228.95
10152321	12632 MICHAEL AVE	GARDEN GROVE	228.95
09941203	10302 ORREY PL	GARDEN GROVE	228.84
13205423	9191 ROSANNA AVE	GARDEN GROVE	227.83
08946223	10302 KATELLA AVE	ANAHEIM	227.62
13314219	9571 LAMPSON AVE	GARDEN GROVE	226.66
09931725	10072 MALLARD DR	GARDEN GROVE	223.50
13318305	12372 CORVETTE ST	GARDEN GROVE	222.65
23146509	12252 TWINTREE AVE	GARDEN GROVE	220.96
09942114	10571 MALLARD DR	GARDEN GROVE	220.57
09908250	13093 NELSON ST	GARDEN GROVE	219.90
23117219	13472 GREENTREE AVE	GARDEN GROVE	219.90
08925111	12101 DIANE ST	GARDEN GROVE	217.73
13249121	9432 MERIDIAN LN	GARDEN GROVE	217.45
10036115	13361 CORSAIR CIR	GARDEN GROVE	216.13
10035104	13401 SORRELL DR	GARDEN GROVE	215.71

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
23104337	12942 DAHLIA ST	GARDEN GROVE	214.81
09813109	9842 JOHANNAH AVE	GARDEN GROVE	212.71
13221307	11422 MAC ST	GARDEN GROVE	211.61
09904510	13441 HOPE ST	GARDEN GROVE	211.05
09033303	11752 DONNA LN	GARDEN GROVE	210.89
10134354	12345 GRANITE PL	GARDEN GROVE	210.02
10037215	11712 PALOMA AVE	GARDEN GROVE	208.73
08962503	11182 RUGH ST	GARDEN GROVE	207.12
08951112	12091 NUTWOOD ST	GARDEN GROVE	206.54
08942416	11921 GARY ST	GARDEN GROVE	205.24
09007248	12271 WALNUT AVE	GARDEN GROVE	203.47
12738404	10272 PERDIDO ST	ANAHEIM	201.58
09911108	13161 STANRICH PL	GARDEN GROVE	199.74
09823411	9402 CENTRAL AVE	GARDEN GROVE	198.91
13223402	8622 JOYZELLE AVE	GARDEN GROVE	198.87
13224237	8581 ORANGEWOOD AVE	GARDEN GROVE	198.59
23142303	12452 EL REY PL	GARDEN GROVE	198.59
13238616	9841 COCKATOO LN	GARDEN GROVE	198.23
09940320	10311 MCCLURE AVE	GARDEN GROVE	197.81
23123409	12601 JETTY ST	GARDEN GROVE	197.38
21725238	6872 DANVERS DR	GARDEN GROVE	197.22
21725238	6872 DANVERS DR	GARDEN GROVE	197.22
08948102	10322 PARLIAMENT AVE	GARDEN GROVE	195.81
08952204	10922 VICKERS DR	GARDEN GROVE	195.47
09937116	13622 GLENDORA ST	GARDEN GROVE	194.24
09826327	13372 GILBERT ST	GARDEN GROVE	194.24
09946101	10361 BLAKE ST	GARDEN GROVE	194.24
09813116	9841 KERN AVE	GARDEN GROVE	194.24
09725409	8645 TRASK AVE	GARDEN GROVE	194.24
23315314	12221 CLIFFWOOD AVE	GARDEN GROVE	192.40
09929211	13431 WESTLAKE ST	GARDEN GROVE	191.49
13339121	12752 MELODY DR	GARDEN GROVE	191.49
09837213	9662 READING AVE	GARDEN GROVE	191.49
09041201	11561 SAMUEL DR	GARDEN GROVE	191.49
9823110	13201 GILBERT ST	GARDEN GROVE	191.49
10038402	13601 BARNETT WAY	GARDEN GROVE	191.49
09027318	12101 LE ANN DR	GARDEN GROVE	191.49
09906212	10471 BONNIE DR	GARDEN GROVE	191.49
13347202	12879 ADELLE ST	GARDEN GROVE	191.49
13329426	12562 LUCILLE AVE	GARDEN GROVE	191.49
09951320	14951 STARBOARD ST	GARDEN GROVE	191.49
09031206	11552 COLLEGE AVE	GARDEN GROVE	191.49
23302116	12181 CANDY LN	GARDEN GROVE	191.49
10143410	12511 PEARCE ST	GARDEN GROVE	191.49
23313145	12171 REVA DR	GARDEN GROVE	191.49
09045215	11921 RICKY AVE	GARDEN GROVE	190.66
09727161	8681 SUMMERCREST CIR	GARDEN GROVE	190.66
09943317	10672 BLAKE ST	GARDEN GROVE	189.65
09928332	10412 RUSSELL AVE	GARDEN GROVE	189.65
12735217	9682 FARNHAM LN	ANAHEIM	188.74

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09837226	9731 OASIS AVE	GARDEN GROVE	188.74
13154101	8242 ACACIA AVE	GARDEN GROVE	188.74
08940305	11791 MEDINA DR	GARDEN GROVE	188.74
09021111	12131 NORMA LN	GARDEN GROVE	188.74
09036223	11732 JACALENE LN	GARDEN GROVE	188.74
09953230	14521 PLEASANT ST	GARDEN GROVE	188.74
09844205	9681 PYLE CIR	GARDEN GROVE	188.74
09907127	13352 ADLAND ST	GARDEN GROVE	188.74
13334404	12631 EDIETH DR	GARDEN GROVE	188.74
08954305	10371 DEWEY DR	GARDEN GROVE	188.74
08924002	12231 EUCLID ST	GARDEN GROVE	188.74
09931717	10012 TEAL DR	GARDEN GROVE	188.74
13319111	9122 HEALEY DR	GARDEN GROVE	188.74
23138106	12702 WEST ST	GARDEN GROVE	188.74
09036001	11751 SAMUEL DR	GARDEN GROVE	188.74
12738609	9872 CHANTICLEER RD	ANAHEIM	188.74
08945108	12112 BROOKHAVEN PARK	GARDEN GROVE	188.74
09049121	11182 REGINA WAY	GARDEN GROVE	188.74
13346311	12778 ADELLE ST	GARDEN GROVE	188.74
09845124	14802 DONEGAL DR	GARDEN GROVE	188.74
13220205	9061 ORANGEWOOD AVE	GARDEN GROVE	188.74
13329412	12641 BARBARA AVE	GARDEN GROVE	188.74
10004309	13232 SAFFORD ST	GARDEN GROVE	188.74
12739411	9902 LULLABY LN	ANAHEIM	188.74
13212512	9902 ALDGATE AVE	GARDEN GROVE	188.74
08957603	10561 PERRIN DR	GARDEN GROVE	188.74
09738214	8031 BESTEL AVE	GARDEN GROVE	188.74
09949218	14132 PLEASANT ST	GARDEN GROVE	188.74
23313139	11719 PURYEAR LN	GARDEN GROVE	188.74
23124106	13392 LAMPSON AVE	GARDEN GROVE	188.74
21506114	12231 DITMORE DR	GARDEN GROVE	188.33
12736223	10112 ANTIGUA ST	ANAHEIM	187.36
23313432	11842 PURYEAR LN	GARDEN GROVE	187.25
10036201	11512 GLEN COVE DR	GARDEN GROVE	186.90
08928305	10292 CHAPMAN AVE	GARDEN GROVE	186.62
13309113	9611 ALWOOD AVE	GARDEN GROVE	186.27
08959707	10622 PARLIAMENT AVE	GARDEN GROVE	185.99
13215303	11392 BARCLAY DR	GARDEN GROVE	185.99
08959316	11221 RUGH ST	GARDEN GROVE	185.99
23161201	12414 OERTLY DR	GARDEN GROVE	185.99
09911220	13212 STANRICH PL	GARDEN GROVE	185.99
10037232	11561 BANNER DR	GARDEN GROVE	185.99
13237247	11732 CANARY LN	GARDEN GROVE	185.99
13152142	8432 TRINETTE DR	GARDEN GROVE	185.99
12757317	10905 GILBERT ST	ANAHEIM	185.99
12741206	10302 D ESTE DR	ANAHEIM	185.99
10002301	11182 SHERMAN AVE	GARDEN GROVE	185.99
13152168	8421 KILLARNEY RD	GARDEN GROVE	185.99
09905253	13053 BENTON ST	GARDEN GROVE	185.99
09908117	13181 WESTLAKE ST	GARDEN GROVE	185.99

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09902208	10151 CROSBY AVE	GARDEN GROVE	185.99
12756102	10754 GARZA AVE	ANAHEIM	185.99
13229130	8915 ABERDEEN LN	GARDEN GROVE	185.99
08941319	11902 OLD FASHION WAY	GARDEN GROVE	185.99
09824403	13391 DONEGAL DR	GARDEN GROVE	185.99
13345404	8822 ANTHONY AVE	GARDEN GROVE	185.99
12755209	9171 REGAL AVE	ANAHEIM	185.99
23146316	12292 MAYPOLE DR	GARDEN GROVE	185.99
09942323	10661 WOODBURY RD	GARDEN GROVE	185.99
13308252	12102 SPENCER DR	GARDEN GROVE	185.90
13340207	9382 STANFORD AVE	GARDEN GROVE	185.59
09929305	13351 JESSICA DR	GARDEN GROVE	185.54
13313302	9792 BEVERLY LM	GARDEN GROVE	185.27
13209146	11142 HUBER ST	GARDEN GROVE	183.24
13119229	11832 NEARING DR	ANAHEIM	183.24
09811202	9512 WESTMINSTER AVE	GARDEN GROVE	183.24
10035207	13442 SORRELL DR	GARDEN GROVE	183.24
10114260	13782 CLINTON ST	GARDEN GROVE	183.24
10167136	13122 LILLY ST	GARDEN GROVE	183.24
09939205	14142 DEANANN PL	GARDEN GROVE	183.24
13345111	12742 JOSEPHINE ST	GARDEN GROVE	183.24
10774187	12682 GEORGE ST	GARDEN GROVE	183.24
13201104	11022 YANA DR	GARDEN GROVE	183.24
23137306	12572 SALLY ST	GARDEN GROVE	183.24
08949120	10212 DEWEY DR	GARDEN GROVE	183.24
08920231	10852 STANFORD AVE	GARDEN GROVE	183.24
10146102	13522 CLINTON ST	GARDEN GROVE	183.24
12757337	10782 HARCOURT AVE	ANAHEIM	183.24
10146116	13552 REDBIRD SR	GARDEN GROVE	183.24
21504129	8671 AMY AVE	GARDEN GROVE	183.24
13233102	9231 MARCHAND AVE	GARDEN GROVE	183.24
09901109	10071 EMERSON AVE	GARDEN GROVE	183.24
23154113	12702 LAMPSON AVE	GARDEN GROVE	183.24
09046404	11181 PALMA VISTA ST	GARDEN GROVE	183.24
12739209	9871 HARRIET LN	ANAHEIM	183.24
09838305	9582 READING AVE	GARDEN GROVE	183.24
10001341	13041 BIRCHWOOD ST	GARDEN GROVE	183.24
09032415	11911 GAIL LN	GARDEN GROVE	183.24
12746304	9052 PACIFIC AVE	ANAHEIM	183.24
10008308	11241 TRASK AVE	GARDEN GROVE	183.24
09901411	10051 LARSON AVE	GARDEN GROVE	183.24
10143324	12431 PEARCE ST	GARDEN GROVE	183.24
09939212	14201 BOONY LN	GARDEN GROVE	183.24
12722204	9632 ROSEBAY ST	ANAHEIM	183.24
13201206	11152 WASCO RD	GARDEN GROVE	183.24
09844315	9721 SINCLAIR CIR	GARDEN GROVE	183.24
12738627	9861 CHANTICLEER RD	ANAHEIM	182.68
09737306	8152 IMPERIAL AVE	GARDEN GROVE	182.50
08938404	12331 MORRIE LN	GARDEN GROVE	182.41
09905253	13055 BENTON ST	GARDEN GROVE	181.36

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
13216223	9581 JOYZELLE DR	GARDEN GROVE	181.31
21729207	12572 MANLEY ST	GARDEN GROVE	180.64
13043404	6782 SANTA RITA AVE	GARDEN GROVE	180.64
09820420	13121 GALWAY ST	GARDEN GROVE	180.49
23163302	12162 FALLINGLEAF ST	GARDEN GROVE	180.36
09020408	11891 REXFORD RD	GARDEN GROVE	178.61
23312301	13112 SIRIUS AVE	ORANGE	178.56
12734132	10201 D ESTE DR	ANAHEIM	178.29
10033503	11911 PERCHERON RD	GARDEN GROVE	177.74
08922258	12531 FLETCHER DR	GARDEN GROVE	177.74
10172129	12902 GLENDON PL	GARDEN GROVE	177.74
21508124	12432 ADELLE ST	GARDEN GROVE	177.74
12649110	8821 ANNAPOLIS AVE	ANAHEIM	177.74
12736110	10002 ANTIGUA ST	ANAHEIM	177.74
13119103	8351 AUGUSTA DR	ANAHEIM	177.74
12756245	10802 BERRY AVE	ANAHEIM	177.74
12758206	9592 CANTON AVE	ANAHEIM	177.74
12724126	9692 COLONY ST	ANAHEIM	177.74
12759108	9541 CRESTWOOD LN	ANAHEIM	177.74
12759211	9652 CRESTWOOD LN	ANAHEIM	177.74
12752132	9891 CRIS AVE	ANAHEIM	177.74
12758325	9602 DECKER AVE	ANAHEIM	177.74
12748236	10591 DESSER LN	ANAHEIM	177.74
13119217	11806 FORTNEY DR	ANAHEIM	177.74
12737138	10192 GRAVIER ST	ANAHEIM	177.74
21504123	12002 HAGA ST	GARDEN GROVE	177.74
12750121	9571 HARLE AVE	ANAHEIM	177.74
12751420	9692 HARLE AVE	ANAHEIM	177.74
12739305	9832 HARRIET LN	ANAHEIM	177.74
12758401	10852 JEAN ST	ANAHEIM	177.74
13346216	12882 LORNA ST	GARDEN GROVE	177.74
13120301	11501 MOSSLER ST	ANAHEIM	177.74
13119605	11972 NEARING DR	ANAHEIM	177.74
12749307	9392 PACIFIC AVE	ANAHEIM	177.74
12721508	9542 STONYBROOK DR	ANAHEIM	177.74
12724110	9791 STONYBROOK DR	ANAHEIM	177.74
12750261	10591 THOMAS DR	ANAHEIM	177.74
12737111	10092 HEARTH LN	ANAHEIM	177.74
13346306	8671 ACACIA AVE	GARDEN GROVE	177.74
23139211	12031 ACACIA AVE	GARDEN GROVE	177.74
09907205	13301 ADLAND ST	GARDEN GROVE	177.74
08961332	10691 ALDERSON AVE	GARDEN GROVE	177.74
13212511	9892 ALDGATE AVE	GARDEN GROVE	177.74
10039108	11191 ANABEL AVE	GARDEN GROVE	177.74
10015209	13912 ANITA PL	GARDEN GROVE	177.74
08935216	10412 AZALEA CIR	GARDEN GROVE	177.74
13329333	12592 BARBARA AVE	GARDEN GROVE	177.74
13214211	11421 BISCAYNE BLVD	GARDEN GROVE	177.74
09064121	11022 BIXLER CIR	GARDEN GROVE	177.74
08923413	12542 BLACKTHORN ST	GARDEN GROVE	177.74

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09846539	9542 BLAKE AVE	GARDEN GROVE	177.74
09852203	9682 BLAKE AVE	GARDEN GROVE	177.74
23315114	12131 BLUEBELL AVE	GARDEN GROVE	177.74
13712313	12231 BLUEBELL AVE	GARDEN GROVE	177.74
09930112	13622 BOWEN ST	GARDEN GROVE	177.74
13237411	11731 BROOKHURST ST	GARDEN GROVE	177.74
23145229	12442 BUARO ST	GARDEN GROVE	177.74
10106238	13302 BUENA WAY	GARDEN GROVE	177.74
13316224	9452 CATHERINE AVE	GARDEN GROVE	177.74
08917049	10811 CHAPMAN AVE	GARDEN GROVE	177.74
23153215	12701 CITRUSWOOD AVE	GARDEN GROVE	177.74
08911311	10602 CLAUSSEN ST	GARDEN GROVE	177.74
23138309	12101 COLLEGE AVE	GARDEN GROVE	177.74
09852118	13842 CORK ST	GARDEN GROVE	177.74
09904108	10021 DAKOTA AVE	GARDEN GROVE	177.74
13226230	11652 DALE ST	GARDEN GROVE	177.74
13153122	12831 DALE ST	GARDEN GROVE	177.74
08946110	11121 DALLAS DR	GARDEN GROVE	177.74
10034305	13302 DAPPLEGREY RD	GARDEN GROVE	177.74
23145127	12422 DARNELL ST	GARDEN GROVE	177.74
09824407	13441 DONEGAL DR	GARDEN GROVE	177.74
23112205	13342 DUNKLEE AVE	GARDEN GROVE	177.74
09008102	12252 ELMWOOD ST	GARDEN GROVE	177.74
09007214	12412 EUCLID ST	GARDEN GROVE	177.74
09926511	13691 EUCLID ST	GARDEN GROVE	177.74
10132214	13291 FAIRVIEW ST	GARDEN GROVE	177.74
08935308	11841 FAYE AVE	GARDEN GROVE	177.74
08951315	12191 FAYE AVE	GARDEN GROVE	177.74
09925319	13592 FERNWOOD DR	GARDEN GROVE	177.74
09926313	13651 FERNWOOD DR	GARDEN GROVE	177.74
09936150	13931 FERNWOOD DR	GARDEN GROVE	177.74
10131201	13742 FIGUEROA ST	GARDEN GROVE	177.74
10131115	13751 FIGUEROA ST	GARDEN GROVE	177.74
23162602	12252 FIREBRAND ST	GARDEN GROVE	177.74
13238609	11821 FLAMINGO DR	GARDEN GROVE	177.74
09046112	11221 FOSTORIA ST	GARDEN GROVE	177.74
09041115	11741 GAIL LN	GARDEN GROVE	177.74
08931322	11551 GARDEN DR	GARDEN GROVE	177.74
08939605	11761 GARY ST	GARDEN GROVE	177.74
10007421	11452 GLEN COVE DR	GARDEN GROVE	177.74
09928106	13261 GLEN WAY	GARDEN GROVE	177.74
13238303	9816 GROUSE CT	GARDEN GROVE	177.74
08923135	12552 GROVEVIEW ST	GARDEN GROVE	177.74
09959326	14322 HARRINGTON ST	GARDEN GROVE	177.74
23123337	13302 HEATHER CIR	GARDEN GROVE	177.74
39902124	13122 HILTON LN	GARDEN GROVE	177.74
13308222	9262 JACK RD	GARDEN GROVE	177.74
09039305	12052 JENNIFER LN	GARDEN GROVE	177.74
09039615	11782 JOHN AVE	GARDEN GROVE	177.74
08958418	10571 LA DONA DR	GARDEN GROVE	177.74

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09841225	13752 LA VAUGHN DR	GARDEN GROVE	177.74
09841218	13852 LA VAUGHN DR	GARDEN GROVE	177.74
13314209	12432 LAMBERT CIR	GARDEN GROVE	177.74
13314117	12449 LAMBERT CIR	GARDEN GROVE	177.74
13215203	11422 LARKIN DR	GARDEN GROVE	177.74
09902118	10052 LARSON AVE	GARDEN GROVE	177.74
09006402	12292 LE ANN DR	GARDEN GROVE	177.74
10130302	13412 LILLY ST	GARDEN GROVE	177.74
09950301	10542 LINNELL AVE	GARDEN GROVE	177.74
09736608	13232 LUCILLE ST	GARDEN GROVE	177.74
13228308	11641 MAC ST	GARDEN GROVE	177.74
13227406	11621 MAC DUFF ST	GARDEN GROVE	177.74
09842222	13752 MAGNOLIA ST	GARDEN GROVE	177.74
10040416	13651 MALIBU ST	GARDEN GROVE	177.74
08937309	10221 MALINDA LN	GARDEN GROVE	177.74
09942214	10682 MALLARD DR	GARDEN GROVE	177.74
09053802	11512 MARGIE LN	GARDEN GROVE	177.74
12755201	10811 MARKEV ST	ANAHEIM	177.74
09840117	13872 MCMAINS ST	GARDEN GROVE	177.74
23136116	12371 MERRILL ST	GARDEN GROVE	177.74
23137205	12552 MERRILL ST	GARDEN GROVE	177.74
23138112	12671 MERRILL ST	GARDEN GROVE	177.74
09035607	11912 MORGAN LN	GARDEN GROVE	177.74
09948207	10512 MORNINGSIDE DR	GARDEN GROVE	177.74
08938114	12382 MORRIE LN	GARDEN GROVE	177.74
10033337	11851 MUSTANG DR	GARDEN GROVE	177.74
09721311	13091 NEWLAND ST	GARDEN GROVE	177.74
08951105	12171 NUTWOOD ST	GARDEN GROVE	177.74
09838313	9521 OASIS AVE	GARDEN GROVE	177.74
09826315	13461 ONTARIO DR	GARDEN GROVE	177.74
08948418	10321 ORANGEWOOD AVE	GARDEN GROVE	177.74
10135117	13281 PALM ST	GARDEN GROVE	177.74
08939402	11621 PALMWOOD DR	GARDEN GROVE	177.74
10037113	11681 PALOMA AVE	GARDEN GROVE	177.74
10144604	13382 PARTRIDGE ST	GARDEN GROVE	177.74
09030244	12536 PERSIMMONS CIR	GARDEN GROVE	177.74
13334421	12632 PLEASANT PL	GARDEN GROVE	177.74
23313134	11761 PURYEAR LN	GARDEN GROVE	177.74
10134331	12272 QUARTZ PL	GARDEN GROVE	177.74
10131520	12102 QUATRO AVE	GARDEN GROVE	177.74
09041414	11731 REVA DR	GARDEN GROVE	177.74
09037503	11832 REXFORD RD	GARDEN GROVE	177.74
09045216	11941 RICKY AVE	GARDEN GROVE	177.74
13206232	11115 RUSH ST	GARDEN GROVE	177.74
10007410	13351 SAFFORD ST	GARDEN GROVE	177.74
09036301	11842 SAMUEL DR	GARDEN GROVE	177.74
23155103	12531 SANDALWOOD LN	GARDEN GROVE	177.74
10002117	11162 SHERMAN AVE	GARDEN GROVE	177.74
10002303	11202 SHERMAN AVE	GARDEN GROVE	177.74
13242317	9452 SKYLARK BLVD	GARDEN GROVE	177.74

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
13237408	9972 SKYLARK BLVD	GARDEN GROVE	177.74
08920102	10802 STANFORD AVE	GARDEN GROVE	177.74
09029108	11661 STANFORD AVE	GARDEN GROVE	177.74
23139104	12062 STANFORD AVE	GARDEN GROVE	177.74
09951406	14922 STARBOARD ST	GARDEN GROVE	177.74
08940201	11641 STEELE DR	GARDEN GROVE	177.74
23160124	12562 SUNGROVE CIR	GARDEN GROVE	177.74
23162405	12292 SUNGROVE ST	GARDEN GROVE	177.74
09944408	14362 TAFT ST	GARDEN GROVE	177.74
13243502	9022 TRISTAN DR	GARDEN GROVE	177.74
13227501	8682 TWANA DR	GARDEN GROVE	177.74
13227310	8691 TWANA DR	GARDEN GROVE	177.74
23152111	12581 TWINTREE LN	GARDEN GROVE	177.74
23152509	12622 TWINTREE LN	GARDEN GROVE	177.74
23152415	12721 TWINTREE LN	GARDEN GROVE	177.74
13340124	12792 VALENCIA WAY	GARDEN GROVE	177.74
23155602	12662 VOLKWOOD ST	GARDEN GROVE	177.74
13224110	11361 WASCO RD	GARDEN GROVE	177.74
09937306	10402 WOODBURY RD	GARDEN GROVE	177.74
09926616	10932 WOODBURY RD	GARDEN GROVE	177.74
13345209	8762 WOOLLEY LN	GARDEN GROVE	177.74
13345202	8842 WOOLLEY LN	GARDEN GROVE	177.74
09737612	13472 WYNANT DR	GARDEN GROVE	177.74
09842121	13782 YOAK ST	GARDEN GROVE	177.74
09938107	10321 16TH ST	GARDEN GROVE	177.74
09069141	12071 CHILI PEPPER LN	GARDEN GROVE	177.74
10172136	12921 ABBEY RD	GARDEN GROVE	177.74
09969119	10211 ANDY REESE CT	GARDEN GROVE	177.74
23312109	13032 SIMMONS AVE	ORANGE	177.74
10116202	13801 HARPER ST	SANTA ANA	177.74
13118219	11862 POES ST	ANAHEIM	177.55
09035503	11952 KATHY LN	GARDEN GROVE	177.55
08951303	12031 FAYE AVE	GARDEN GROVE	176.97
12759218	9671 BANTA AVE	ANAHEIM	176.91
12750222	10662 GILBERT ST	ANAHEIM	176.91
09034522	11532 BETA AVE	GARDEN GROVE	176.91
09041305	11622 SAMUEL DR	GARDEN GROVE	176.87
12722411	9581 PARADE ST	ANAHEIM	175.86
13226301	8626 TWANA DR	GARDEN GROVE	175.86
13341212	9241 NICHOLS DR	GARDEN GROVE	175.42
08936109	10041 BONSER AVE	GARDEN GROVE	175.31
09838402	9522 OASIS AVE	GARDEN GROVE	174.30
12721202	9582 HARVEST LN	ANAHEIM	174.25
08951116	12031 NUTWOOD ST	GARDEN GROVE	174.25
09811215	9541 SUTHERLAND WAY	GARDEN GROVE	173.43
12750234	10612 PATRICIA DR	ANAHEIM	173.11
12758301	10861 ENDRY ST	ANAHEIM	172.01
23140607	12911 DUNGAN LN	GARDEN GROVE	172.01
13228210	11611 MAC ST	GARDEN GROVE	170.76
23307234	12819 SUSSEX CIR	GARDEN GROVE	168.76

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09936150	13935 FERNWOOD DR	GARDEN GROVE	168.43
09067279	12895 NEWHOPE ST	GARDEN GROVE	168.43
13249130	9372 MERIDIAN LN	GARDEN GROVE	168.43
23104307	13447 GARDENIA AVE	GARDEN GROVE	168.22
13067209	12752 OLIVE ST	GARDEN GROVE	166.45
13067209	12752 OLIVE ST	GARDEN GROVE	166.45
13347316	12746 DALE ST	GARDEN GROVE	165.47
13318311	9122 MARLENE AVE	GARDEN GROVE	164.90
09906209	10441 BONNIE DR	GARDEN GROVE	163.87
09044312	11371 KATHY LN	GARDEN GROVE	162.15
12721427	9522 RANDOM DR	ANAHEIM	161.60
12751302	9802 HARLE AVE	ANAHEIM	160.96
21505413	12232 LORNA ST	GARDEN GROVE	160.52
1353104	8292 STANFORD AVE	GARDEN GROVE	158.93
13315113	12241 CHRISTINE LN	GARDEN GROVE	158.25
10130203	13401 LILLY ST	GARDEN GROVE	156.61
09912102	10722 MCKEEN ST	GARDEN GROVE	156.61
10034333	13271 PINTO RD	GARDEN GROVE	156.61
09040324	12182 ROBERT LN	GARDEN GROVE	156.61
10135120	13241 PALM ST	GARDEN GROVE	154.00
09952450	10612 MAST AVE	GARDEN GROVE	153.54
08937413	10236 MALINDA LN	GARDEN GROVE	151.04
09912120	10711 PALOMA AVE	GARDEN GROVE	150.78
13315406	12312 LAMBERT CIR	GARDEN GROVE	150.62
13319120	9105 SHERLOCK LN	GARDEN GROVE	149.51
08930509	11052 SONGISH ST	GARDEN GROVE	148.12
09049119	11832 DELLA LN	GARDEN GROVE	147.84
23157404	12811 OERTLY DR	GARDEN GROVE	147.29
23135106	12341 NADINE CIR	GARDEN GROVE	146.08
09050408	11471 CHAPMAN AVE	GARDEN GROVE	145.59
89058092	10866 WESTMINSTER AVE	GARDEN GROVE	145.17
09743227	8692 HEWITT LN	GARDEN GROVE	145.17
13041212	6511 SANTA BARBARA AVE	GARDEN GROVE	145.17
89058092	10866 WESTMINSTER AVE	GARDEN GROVE	145.17
10851115	10691 ANCHOR AVE	GARDEN GROVE	145.17
13019405	12161 DIAMOND ST	GARDEN GROVE	145.17
09743227	8692 HEWITT LN	GARDEN GROVE	145.17
09727102	13522 PURDY ST	GARDEN GROVE	145.17
13041212	6511 SANTA BARBARA AVE	GARDEN GROVE	145.17
13019503	12202 SAPPHIRE ST	GARDEN GROVE	145.17
13029104	5481 VANGUARD AVE	GARDEN GROVE	145.17
23131143	12111 SUNGROVE ST	GARDEN GROVE	142.86
23131133	12071 FIREBRAND ST	GARDEN GROVE	141.42
23138219	12631 DUNGAN LN	GARDEN GROVE	139.46
10144408	13381 PARTRIDGE ST	GARDEN GROVE	135.31
13307144	9412 BIXBY AVE	GARDEN GROVE	135.10
10148214	13342 LARAMORE LN	GARDEN GROVE	134.88
12749207	10561 HARCOURT AVE	ANAHEIM	134.65
23315417	12222 CLIFFWOOD AVE	GARDEN GROVE	134.65
23145219	12361 LAMPSON AVE	GARDEN GROVE	134.65

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
10167109	13182 ROBERTA PL	GARDEN GROVE	134.65
13234104	11672 GILBERT ST	GARDEN GROVE	134.20
21512101	12241 HAGA ST	GARDEN GROVE	134.17
21510219	12731 LORNA ST	GARDEN GROVE	133.55
12758322	10962 FRALEY ST	ANAHEIM	133.10
13201329	11151 BOWLES AVE	GARDEN GROVE	132.53
08959104	11281 PALMWOOD DR	GARDEN GROVE	132.24
10106409	12691 RANCHERO WAY	GARDEN GROVE	132.24
23314235	11691 LEOTA LN	GARDEN GROVE	130.74
09940334	14356 BOWEN ST	GARDEN GROVE	130.43
13342114	12816 LUCILLE AVE	GARDEN GROVE	129.49
09031221	11571 DORADA AVE	GARDEN GROVE	128.11
13030124	5371 AMY AVE	GARDEN GROVE	126.19
13030124	5371 AMY AVE	GARDEN GROVE	126.19
08935313	11911 FAYE AVE	GARDEN GROVE	125.60
08929307	12171 MOCKINGBIRD CT	GARDEN GROVE	125.24
08922215	12551 FLETCHER DR	GARDEN GROVE	124.11
09037316	11851 COMSTOCK RD	GARDEN GROVE	123.65
13320139	8871 DUDMAN DR	GARDEN GROVE	123.06
09939110	14171 DEANANN PL	GARDEN GROVE	122.71
93953248	10845 SONOMA LN	GARDEN GROVE	121.43
08926433	10942 HOLLY DR	GARDEN GROVE	121.21
23138336	12722 DUNGAN LN	GARDEN GROVE	120.90
23155714	12672 BLUE SPRUCE AVE	GARDEN GROVE	120.86
09944308	14371 PLEASANT ST	GARDEN GROVE	120.71
21702323	5341 CHRISTAL AVE	GARDEN GROVE	119.86
21702323	5341 CHRISTAL AVE	GARDEN GROVE	119.86
10165202	12968 TRASK AVE	GARDEN GROVE	118.98
13347407	12931 LOUISE ST	GARDEN GROVE	118.07
21512418	12261 PENTAGON ST	GARDEN GROVE	117.01
13084217	5832 HUNTLEY AVE	GARDEN GROVE	115.92
12757211	10871 HARCOURT AVE	ANAHEIM	115.12
10050418	13018 MAPLE DR	GARDEN GROVE	111.13
13329110	12602 LEROY AVE	GARDEN GROVE	110.87
13018120	6581 VANGUARD AVE	GARDEN GROVE	109.10
10808204	10662 MELRIC AVE	GARDEN GROVE	104.95
09026303	12892 SAFFORD E	GARDEN GROVE	104.54
13032427	5361 SANTA MONICA AVE	GARDEN GROVE	102.18
23110206	13122 ASPENWOOD AVE	GARDEN GROVE	100.61
13085303	12281 BAILEY ST	GARDEN GROVE	100.17
13085303	12281 BAILEY ST	GARDEN GROVE	100.17
09937213	10341 WOODBURY RD	GARDEN GROVE	99.87
09909419	13162 WESTLAKE ST	GARDEN GROVE	99.46
09044319	11461 KATHY LN	GARDEN GROVE	97.12
12739106	10421 PERDIDO ST	ANAHEIM	95.79
09007310	11101 JERRY LN	GARDEN GROVE	95.69
09811214	9551 SUTHERLAND WAY	GARDEN GROVE	94.37
09930306	13615 BOWEN ST	GARDEN GROVE	94.37
13034504	11912 WINTON ST	GARDEN GROVE	94.24
13328105	12551 LUCILLE AVE	GARDEN GROVE	93.63

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
13235403	11572 CAPRI DR	GARDEN GROVE	92.36
09950309	10632 LINNELL AVE	GARDEN GROVE	92.36
09764113	13352 LUCILLE ST	GARDEN GROVE	92.36
13214110	9781 OMA PL	GARDEN GROVE	92.36
13210109	9662 KATELLA AVE	ANAHEIM	91.77
09840109	9112 INGRAM AVE	GARDEN GROVE	91.39
13061611	12251 CHASE ST	GARDEN GROVE	90.57
13061611	12251 CHASE ST	GARDEN GROVE	90.57
13017411	6971 VANGUARD AVE	GARDEN GROVE	89.24
13017411	6971 VANGUARD AVE	GARDEN GROVE	89.24
08943119	12221 ARKLEY DR	GARDEN GROVE	88.87
13217206	9351 VONS DR	GARDEN GROVE	88.87
12721119	9552 ORANGE AVE	ANAHEIM	88.87
13118104	8451 AUGUSTA DR	ANAHEIM	88.87
12738620	9941 CHANTICLEER RD	ANAHEIM	88.87
12759505	10822 JEAN ST	ANAHEIM	88.87
12722508	9642 STONYBROOK DR	ANAHEIM	88.87
13345318	8831 ANTHONY AVE	GARDEN GROVE	88.87
23145113	12311 BECK AVE	GARDEN GROVE	88.87
08933312	11871 EDGEWOOD LN	GARDEN GROVE	88.87
13216301	11332 GILBERT ST	GARDEN GROVE	88.87
09843124	13632 MCMAINS ST	GARDEN GROVE	88.87
08947609	10461 PARLIAMENT AVE	GARDEN GROVE	88.87
09008306	12341 PINE ST	GARDEN GROVE	88.87
10131516	12142 QUATRO AVE	GARDEN GROVE	88.87
08950309	11621 STEPHANIE LN	GARDEN GROVE	88.87
23118204	13182 TWINTREE CIR	GARDEN GROVE	88.87
13063203	12652 SYLVAN ST	GARDEN GROVE	88.87
13063203	12652 SYLVAN ST	GARDEN GROVE	88.87
23125203	12542 TWINTREE LN	GARDEN GROVE	88.46
09043003	11792 DANIEL AVE	GARDEN GROVE	88.04
09943330	13802 WARD ST	GARDEN GROVE	86.76
09701134	13082 COAST ST	GARDEN GROVE	86.41
09015458	11390 STANFORD AVE	GARDEN GROVE	84.22
23110143	12802 ARLETTA CIR	GARDEN GROVE	83.73
09038220	12061 KATHY LN	GARDEN GROVE	83.49
13206108	11121 HOMEWAY DR	GARDEN GROVE	82.31
08958407	10321 MALINDA LN	GARDEN GROVE	79.90
13245619	8811 CHAPMAN AVE	GARDEN GROVE	73.92
23122310	12691 AUDREY CIR	GARDEN GROVE	73.72
13034310	5471 HOLLAND AVE	GARDEN GROVE	72.73
13018427	6512 LAURELTON AVE	GARDEN GROVE	72.73
13066305	5852 CERULEAN AVE	GARDEN GROVE	72.73
13034310	5471 HOLLAND AVE	GARDEN GROVE	72.73
21703209	5422 PARK AVE	GARDEN GROVE	72.73
21707121	12396 SAINT MARK ST	GARDEN GROVE	72.73
13347127	12741 ADELLE ST	GARDEN GROVE	71.78
08925117	12031 DIANE ST	GARDEN GROVE	70.17
21510105	12549 JOSEPHINE ST	GARDEN GROVE	69.06
23123320	13301 BLUE SPRUCE AVE	GARDEN GROVE	68.24

Parcel #	Site Address #/Name	City	Net Total 2021 Delinquent Refuse
09029402	12781 LEMONWOOD LN	GARDEN GROVE	64.75
10165202	12968 TRASK AVE	GARDEN GROVE	63.62
09737303	8152 CENTRAL AVE	GARDEN GROVE	62.03
09017204	12902 CIVIC CENTER DR	GARDEN GROVE	59.64
13332205	9581 LENORE DR	GARDEN GROVE	59.25
08950303	11561 STEPHANIE LN	GARDEN GROVE	59.25
23140117	12231 DUNKLEE LN	GARDEN GROVE	58.42
13073117	12891 SYLVAN ST	GARDEN GROVE	55.76
12724146	9651 COLONY ST	ANAHEIM	54.37
10010165	13402 ASHWOOD ST	GARDEN GROVE	52.84
09950309	10632 LINNELL AVE	GARDEN GROVE	51.22
13210107	9632 KATELLA AVE	ANAHEIM	50.58
08948102	10322 PARLIAMENT AVE	GARDEN GROVE	44.46
10034705	11892 BANNER DR	GARDEN GROVE	44.02
12755215	10822 RUSTIC LN	ANAHEIM	41.75
09846503	9591 MALLARD AVE	GARDEN GROVE	41.75
23123313	12641 SPINNAKER ST	GARDEN GROVE	41.60
08940406	11631 MEDINA DR	GARDEN GROVE	41.37
13206226	9142 BICKLEY CIR	GARDEN GROVE	40.89
13220109	9052 VONS DR	GARDEN GROVE	38.60
13314224	9641 LAMPSON AVE	GARDEN GROVE	37.71
13051133	6691 PARK AVE	GARDEN GROVE	36.07
23146412	12301 MAYPOLE DR	GARDEN GROVE	35.12
10062206	11292 ANABEL AVE	GARDEN GROVE	34.30
08941315	11962 OLD FASHION WAY	GARDEN GROVE	34.30
10144617	12501 TRASK AVE	GARDEN GROVE	32.37
09008103	12282 ELMWOOD ST	GARDEN GROVE	31.96
09941302	10431 HAZARD AVE	GARDEN GROVE	29.62
08952307	10841 DANBERRY DR	GARDEN GROVE	29.62
09907134	13281 CYPRESS ST	GARDEN GROVE	29.47
13340132	12761 GILBERT ST	GARDEN GROVE	28.80
13316315	12402 JEROME ST	GARDEN GROVE	28.80
13248217	8661 MARYLEE DR	GARDEN GROVE	27.95
			464,669.58

City of Garden Grove

INTER-DEPARTMENT MEMORANDUM

To: Scott Stiles From: William E. Murray

Dept.: General Manager Dept.: Public Works

Subject: Award a contract to AKM Consulting Engineers for preparation of the 2021 Sewer System Rehabilitation Plan - Phase II. (Cost: \$1,018,016) (*Action Item*) Date: 7/27/2021

OBJECTIVE

To recommend that the Garden Grove Sanitary District (District) award a contract to AKM Consulting Engineers for professional engineering services for the Sewer System Rehabilitation Plan - Phase II.

BACKGROUND

Phase II of the District's sewer system consists of approximately 500,000 linear feet generally concentrated in the eastern part of the District's service area. It is recommended by the State of California that the sewer system be evaluated at least every ten years. The last assessment of the Phase II Sewer System was in September 2005. Therefore, a reassessment is now due.

DISCUSSION

Staff requested proposals from three (3) firms to provide professional engineering services. Two (2) consultants submitted proposals. A panel of three members rated the submitted proposals on the basis of qualifications without considering cost. Based on evaluation results, AKM Consulting Engineers rated highest in qualifications and its ability to provide professional engineering services for this project. The following is a summary of the ratings with the highest total being the most qualified:

	AKM Consulting Engineers Irvine, CA	Psomas Santa Ana, CA

Rater A	162.0	154.0
Rater B	161.5	154.5
Rater C	172.0	166.5
Totals	495.5	475.0

Upon selection of the most qualified firm, Water Services staff interviewed AKM Consulting Engineers and negotiated an agreement for its services.

FINANCIAL IMPACT

There is no impact to the General Fund. This project is included in the 2021-2022 Capital Improvement Budget, and will be financed with Sewer Funds, in the amount of \$1,018,016.

RECOMMENDATION

It is recommended that the Sanitary District Board:

- Award a contract to AKM Consulting Engineers for professional engineering services for preparation of the 2021 Sewer System Rehabilitation Plan - Phase II, in the amount of \$1,018,016; and
- Authorize the General Manager to execute the agreement on behalf of the Sanitary District, and make minor modifications as appropriate thereto.

By: Liyan Jin, Associate Engineer

ATTACHMENTS:

Description	Upload Date	Type	File Name
Attachment 2_Professional Service Agreement	7/12/2021	Agreement	2_Professional_Service_Agreement_AKM.pdf
Attachment 1_Location Map	7/12/2021	Exhibit	1_2021_Sewer_Rehab_Phase_II_Location_Map.pdf

CONSULTANT AGREEMENT

THIS AGREEMENT is made this **27th** day of **July** 2021, by the GARDEN GROVE SANITARY DISTRICT, a California special district ("DISTRICT"), and AKM Consulting Engineers, a California Corporation ("CONSULTANT").

RECITALS

The following recitals are a substantive part of this Agreement:

1. This Agreement is entered into pursuant to Board authorization dated July 27, 2021
2. DISTRICT desires to utilize the services of CONSULTANT to provide **Engineering Consulting Services for Preparation of the 2021 Sewer System Rehabilitation Plan - Phase II**
3. CONSULTANT is qualified by virtue of experience, training, education and expertise to accomplish services.

AGREEMENT

THE PARTIES MUTUALLY AGREE AS FOLLOWS:

1. **Term of Agreement:** This Agreement shall cover services rendered from date of this Agreement until the services are completed, compensation reaches the not to exceed amount, or sooner terminated per Section 3.5
2. **Services to be Provided:** The services to be performed by CONSULTANT shall consist of the services as further specified in CONSULTANT'S proposal attached hereto as Exhibit A and incorporated herein by reference. CONSULTANT agrees that its provision of Services under this agreement shall be within accepted accordance with customary and usual practices in CONSULTANT'S profession. By executing this Agreement, CONSULTANT warrants that it has carefully considered how the work should be performed and fully understands the facilities, difficulties, and restrictions attending performance of the work under this agreement.
3. **Compensation.** CONSULTANT shall be compensated as follows:
 - 3.1 Amount. Compensation under this Agreement shall be per fee schedule included in the Proposal.
 - 3.2 Not to Exceed. Compensation under this Agreement shall not exceed **\$1,018,016.**

- 3.3 Payment. For work under this Agreement, payment shall be made per monthly invoice. For extra work not a part of this Agreement, a written authorization by DISTRICT will be required.
- 3.4 Records of Expenses. CONSULTANT shall keep complete and accurate records of payroll costs, travel and incidental expenses. These records will be made available at reasonable times to DISTRICT.
- 3.5 Termination. DISTRICT and CONSULTANT shall each have the right to terminate this Agreement, without cause, by giving thirty-(30) days written notice of termination to the other party. If DISTRICT terminates the project, then the provisions of paragraph 3 shall apply to that portion of the work completed.

4. **Insurance Requirements**

- 4.1 Commencement of Work CONSULTANT shall not commence work under this Agreement until all certificates and endorsements have been received and approved by the DISTRICT. All insurance required by this Agreement shall require the carrier or agent to notify the DISTRICT of any material change, cancellation, or termination at least thirty (30) days in advance.
- 4.2 Workers Compensation Insurance For the duration of this Agreement, CONSULTANT and all subcontractors shall maintain Workers Compensation Insurance in the amount and type required by law, if applicable. The insurer shall waive its rights of subrogation against the DISTRICT, its officers, officials, agents, employees, and volunteers.
- 4.3 Insurance Amounts CONSULTANT shall maintain the following insurance for the duration of this Agreement:
 - a) Commercial general liability in the amount of \$1,000,000 per occurrence; (claims made and modified occurrence policies are not acceptable); Insurance companies must be admitted and licensed in California and have a Best's Guide Rating of A-, Class VII or better, as approved by the DISTRICT;
 - b) Automobile liability in the amount of \$1,000,000 per occurrence; (claims made and modified occurrence policies are not acceptable) Insurance companies must be admitted and licensed in California and have a Best's Guide Rating of A-, Class VII or better, as approved by the DISTRICT.
 - c) Professional liability in the amount of \$1,000,000 per occurrence; Insurance companies must be acceptable to DISTRICT and have an AM Best's Guide Rating of A-, Class VII or better, as approved by the DISTRICT. If the policy is written on a "claims made" basis, the policy shall be continued in full force and effect at all

times during the term of the agreement, and for a period of three (3) years from the date of the completion of services provided. In the event of termination, cancellation, or material change in the policy, professional/consultant shall obtain continuing insurance coverage for the prior acts or omissions of professional/consultant during the course of performing services under the term of the agreement. The coverage shall be evidenced by either a new policy evidencing no gap in coverage, or by obtaining separate extended "tail" coverage with the present or new carrier.

An Additional Insured Endorsement, **ongoing and completed operations**, for the policy under section 4.3 (a) shall designate DISTRICT, its officers, officials, employees, agents, and volunteers as additional insureds for liability arising out of work or operations performed by or on behalf of the CONSULTANT. CONSULTANT shall provide to DISTRICT proof of insurance and endorsement forms that conform to DISTRICT's requirements, as approved by the DISTRICT.

An Additional Insured Endorsement for the policy under section 4.3 (b) shall designate DISTRICT, its officers, officials, employees, agents, and volunteers as additional insureds for automobiles owned, lease, hired, or borrowed by CONSULTANT. CONSULTANT shall provide to DISTRICT proof of insurance and endorsement forms that conform to DISTRICT's requirements, as approved by the DISTRICT.

For any claims related to this Agreement, CONSULTANT's insurance coverage shall be primary insurance as respects to DISTRICT, its officers, officials, employees, agents, and volunteers. Any insurance or self-insurance maintained by the DISTRICT, its officers, officials, employees, agents, or volunteers shall be excess of the CONSULTANT's insurance and shall not contribute with it.

If CONSULTANT maintains higher insurance limits than the minimums shown above, CONSULTANT shall provide coverage for the higher insurance limits otherwise maintained by the CONSULTANT.

5. **Non-Liability of Officials and Employees of the DISTRICT.** No official or employee of DISTRICT shall be personally liable to CONSULTANT in the event of any default or breach by DISTRICT, or for any amount, which may become due to CONSULTANT.
6. **Non-Discrimination.** CONSULTANT covenants there shall be no discrimination against any person or group due to race, color, creed, religion, sex, marital status, age, handicap, national origin or ancestry, in any activity pursuant to this Agreement.
7. **Independent Contractor.** It is understood and agreed that CONSULTANT, including CONSULTANT's employees, shall act and be independent

contractor(s) and not agent(s) or employee(s) of DISTRICT, and that no relationship of employer-employee exists between the parties. CONSULTANT's assigned personnel shall not obtain or be entitled to any rights or benefits that accrue to, or are payable to, DISTRICT employees, and CONSULTANT shall so inform each employee organization and each employee who is hired or retained under this Agreement. DISTRICT is not required to make any deductions or withholdings from the compensation payable to CONSULTANT under the provisions of this Agreement, and is not required to issue W-2 Forms for income and employment tax purposes for any of CONSULTANT's assigned personnel. CONSULTANT hereby expressly assumes all responsibility and liability for the payment of wages and benefits to its assigned personnel, and all related reporting and withholding obligations. CONSULTANT hereby agrees to indemnify and hold DISTRICT harmless from any and all claims or liabilities that DISTRICT may incur arising from any contention by any third party, including, but not limited to, any employee of CONSULTANT or any federal or state agency or other entity, that an employer-employee relationship exists by reason of this Agreement, including, without limitation, claims that DISTRICT is responsible for retirement or other benefits allegedly accruing to CONSULTANT's assigned personnel.

8. **Compliance With Law.** CONSULTANT shall comply with all applicable laws, ordinances, codes and regulations of the federal, state and local government. CONSULTANT shall comply with, and shall be responsible for causing all contractors and subcontractors performing any of the work pursuant to this Agreement, if any, to comply with, all applicable federal and state labor standards, including, to the extent applicable, the prevailing wage requirements promulgated by the Director of Industrial Relations of the State of California Department of Labor. The DISTRICT makes no warranty or representation concerning whether any of the work performed pursuant to this Agreement constitutes public works subject to the prevailing wage requirements.
9. **Disclosure of Documents.** All documents or other information developed or received by CONSULTANT are confidential and shall not be disclosed without authorization by DISTRICT, unless disclosure is required by law.
10. **Ownership of Work Product.** All documents or other information developed or received by CONSULTANT shall be the property of DISTRICT. CONSULTANT shall provide DISTRICT with copies of these items upon demand or upon termination of this Agreement.
11. **Conflict of Interest and Reporting.** CONSULTANT shall at all times avoid conflict of interest or appearance of conflict of interest in performance of this Agreement.
12. **Notices.** All notices shall be personally delivered or mailed to the below listed addresses, or to such other addresses as may be designated by written notice. These addresses shall be used for delivery of service of process.

(a) Address of CONSULTANT is as follows:

AKM Consulting Engineers
553 Wald
Irvine, California 92618

(b) Address of DISTRICT is as follows (with a copy to):

Engineering:	General Counsel
Garden Grove Sanitary Dist.	Garden Grove Sanitary District
P.O. Box 3070	P.O. Box 3070
Garden Grove, CA 92840	Garden Grove, CA 92840

13. **CONSULTANT'S Proposal.** This Agreement shall include CONSULTANT'S proposal, Exhibit "A" hereto, which shall be incorporated herein. In the event of any inconsistency between the terms of the proposal and this Agreement, this Agreement shall govern.
14. **Licenses, Permits and Fees.** At its sole expense, CONSULTANT shall obtain a **Garden Grove Business License**, all permits and licenses as may be required by this Agreement.
15. **Familiarity With Work.** By executing this Agreement, CONSULTANT warrants that: (1) it has investigated the work to be performed; (2) it has investigated the site of the work and is aware of all conditions there; and (3) it understands the facilities, difficulties and restrictions of the work under this Agreement. Should CONSULTANT discover any latent or unknown conditions materially differing from those inherent in the work or as represented by DISTRICT, it shall immediately inform DISTRICT of this and shall not proceed, except at CONSULTANT's risk, until written instructions are received from DISTRICT.
16. **Time of Essence.** Time is of the essence in the performance of this Agreement.
17. **Limitations Upon Subcontracting and Assignment.** The experience, knowledge, capability and reputation of CONSULTANT, its principals and employees were a substantial inducement for DISTRICT to enter into this Agreement. CONSULTANT shall not contract with any other entity to perform the services required without written approval of the DISTRICT. This Agreement may not be assigned voluntarily or by operation of law, without the prior written approval of DISTRICT. If CONSULTANT is permitted to subcontract any part of this Agreement, CONSULTANT shall be responsible to DISTRICT for the acts and omissions of its subcontractor as it is for persons directly employed. Nothing contained in this Agreement shall create any

contractual relationship between any subcontractor and DISTRICT. All persons engaged in the work will be considered employees of CONSULTANT. DISTRICT will deal directly with and will make all payments to CONSULTANT.

18. **Authority to Execute.** The persons executing this Agreement on behalf of the parties warrant that they are duly authorized to execute this Agreement and that by executing this Agreement, the parties are formally bound.
19. **Indemnification.** To the fullest extent permitted by law, CONSULTANT agrees to protect, defend, and hold harmless DISTRICT and its elective or appointive boards, officers, agents, and employees from any and all claims, liabilities, expenses, or damages of any nature, including attorneys' fees, for injury or death of any person, or damages of any nature, including interference with use of property, arising out of, or in any way connected with the negligence, recklessness and/or intentional wrongful conduct of CONSULTANT, CONSULTANT'S agents, officers, employees, subcontractors, or independent contractors hired by CONSULTANT in the performance of the Agreement. The only exception to CONSULTANT'S responsibility to protect, defend, and hold harmless DISTRICT, is due to the negligence, recklessness and/or wrongful conduct of DISTRICT, or any of its elective or appointive boards, officers, agents, or employees.

This hold harmless agreement shall apply to all liability regardless of whether any insurance policies are applicable. The policy limits do not act as a limitation upon the amount of indemnification to be provided by CONSULTANT.
20. **Modification.** This Agreement constitutes the entire agreement between the parties and supersedes any previous agreements, oral or written. This Agreement may be modified only by subsequent mutual written agreement executed by DISTRICT and CONSULTANT.
21. **Waiver.** All waivers of the provisions of this Agreement must be in writing by the appropriate authorities of the DISTRICT and CONSULTANT.
22. **California Law.** This Agreement shall be construed in accordance with the laws of the State of California. Any action commenced about this Agreement shall be filed in the central branch of the Orange County Superior Court.
23. **Interpretation.** This Agreement shall be interpreted as though prepared by both parties
24. **Preservation of Agreement.** Should any provision of this Agreement be found invalid or unenforceable, the decision shall affect only the provision interpreted, and all remaining provisions shall remain enforceable.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS THEREOF, these parties hereto have caused this Agreement to be executed as of the date set forth opposite the respective signatures.

"DISTRICT"
GARDEN GROVE SANITARY DIST.

Dated: _____, 2021

By: _____

General Manager

ATTEST

"CONSULTANT"
AKM Consulting Engineers

Secretary

By: _____

Title: _____ President

Dated: _____, 2021

Dated: June 10, 2021

APPROVED AS TO FORM:

If CONSULTANT/CONTRACTOR is a corporation, a Corporate Resolution and/or Corporate Seal is required. If a partnership, Statement of Partnership must be submitted to DISTRICT

Omar Sanborn
General Counsel

Dated: 7 - 7, 2021

EXHIBIT A

SCOPE OF SERVICES / FEE SCHEDULE



AKM Consulting Engineers

553 Wald

Irvine, CA 92618

Telephone: 949.753.7333 Facsimile: 949.753.7320

www.akmce.com

June 4, 2021

Garden Grove Sanitary District

13802 Newhope Street

Garden Grove, California 92843

Attention: Ms. Liyan Jin, Associate Engineer

Subject: Proposal for 2021 Sewer System Rehabilitation Plan Phase II

Dear Ms. Jin:

AKM Consulting Engineers is pleased to submit this proposal for the subject project in response to your request for proposal dated April 8, 2021. Our proposal is valid for a period of 90 days from the date of this proposal.

Garden Grove Sanitary District (District) completed the previous Sewer System Rehabilitation Plan for Phase II in September 2005, which was over ten years ago. Per The District's criteria, the District would like to reassess the condition of the Phase II sewer mains. Subsequently, the Sewer System Rehabilitation Plan – Phase II will include preliminary project locations, prioritized based on severity and risk, and costs to rehabilitate the sewer system. AKM understands The District's needs and goals for the project, and are willing to adjust and accommodate any necessary deadlines within the schedule to produce cost estimates or recommended projects before the end of 2021.

Important elements of the project include

- CCTV inspection services of 500,000 feet of sewer mains in the Phase II vicinity, ranging from 6-inch to 18-inch in diameter
- Assess all CCTV inspections and provide a detailed evaluation of selected inspections that display significant defects of representative defect types.
- Develop an Inspection Report Database Summary and use this report as the basis for prioritizing and developing future rehabilitation projects, both structural and operation and maintenance recommendations
- A report documenting the assessments, conclusions, and final recommendations

Based upon our understanding of the project's scope of work; our knowledge of Garden Grove Sanitary District's system, resources and needs; and our extensive experience in serving numerous agencies in wastewater system operation and maintenance, we have assembled a Project Team with unsurpassed experience to undertake this project. Ms. Diann Pay, PE, will serve as Project Manager. Ms. Pay has over 24 years of water resources engineering experience, and has completed over 34 wastewater master plans and condition assessment projects. She will be assisted by Mr. Jon Nitta, PE who will serve as Project Engineer, and Ms. Haly Herrera, PE who will serve as Associate Engineer. Mr. Zeki Kayiran will provide QA/QC and he has over 47 years of experience in water resources engineering. He served as Garden Grove Sanitary District's District Engineer for over ten years, and was instrumental in establishing the District's Sewer System Rehabilitation Plan. Our project team includes two specialty sub-consultant. Empire Pipe Cleaning and Inspection, Inc. will perform cleaning and CCTV Inspections and Traffic Control Engineering will prepare traffic control plans, if required by the City of Garden Grove.

Our Project Team has been responsible for successful completion of Sewer Master Plans and Condition Assessment for the Garden Grove Sanitary District, East Orange County Water District, Camarillo Sanitary District, Irvine Ranch Water District, Cities of Brea, Cypress, Fountain Valley, Newport Beach, Stanton, Seal Beach, La Habra, Corona,



Ontario, Alhambra, Manhattan Beach, Redondo Beach, El Segundo, Palos Verdes Estates, Inglewood, Culver City, Claremont, San Clemente and Norwalk. AKM has been assisting the City of Los Angeles with its Settlement Agreement by assessing the condition of its sewers since 2003.

Our staff is very experienced in sewer system condition assessment and risk analysis evaluations. We have four (4) employees who are NASSCO certified pipeline, lateral, and manhole condition assessors.

We appreciate the opportunity to submit our proposal and look forward to being of continued service to the Garden Grove Sanitary District. Should you have any questions or require additional information, please do not hesitate in contacting the undersigned.

Very truly yours,

AKM Consulting Engineers

A handwritten signature in blue ink, appearing to read "Zeki Kayiran", with a long, flowing horizontal line extending to the right.

Zeki Kayiran, P.E.
Principal



SECTION

Cover Letter

1	Approach	Approach 1
	General Approach	Approach 1
	Quality Control Plan.....	Approach 6
2	Scope of Work	Scope 1
	Task 1 – Project Meetings.....	Scope 1
	Task 2 – Meetings	Scope 1
	Task 3 – Data Collection and Review	Scope 1
	Task 4 – Preparation of the Condition Assessment.....	Scope 1
3	Schedule.....	Schedule 1
4	Project Team	Team 1
	a. Management Structure	Team 1
	b. Project Organizational Chart.....	Team 1
	c. Project Team	Team 3
	d. Resumes	Team 4
5	Work Hour Estimate.....	Hours 1
6	Project Team Experience.....	Experience 1
7	References.....	References 1
8	Professional Fee Proposal	Fee 1

*** Fee proposal under separate envelope*

Section 1 - Approach

The Garden Grove Sanitary District's (District) Sewer System Rehabilitation Plan was initiated as part of the District's compliance with the Santa Ana Regional Board's Waste Discharge Requirements for Sewage Collection Agencies in Orange County within the Santa Ana Region, Order No. R8-2002-0014. The Santa Ana Regional Board's Order formed the basis of the subsequent Statewide General Waste Discharge Requirements, Order No. 2006-0003. The initial Sewer System Rehabilitation Plan concentrated on the gravity collection system in the central portion of the District's service area between Chapman Avenue and Trask Avenue to the north and south, and Beach Boulevard and Ninth Street to the west and east. AKM Consulting Engineers (AKM) assisted the District in obtaining Cooperative Projects funding for the Orange County Sanitation District (OCSD), which covered a majority of the CCTV inspection work. The District's established program implemented most of the recommendations of its Sewer System Rehabilitation Plan. The District continued closed circuit television (CCTV) inspection of its gravity sewer system in subsequent phases and its rehabilitation and replacement program.

The District's criteria for inspecting the condition of gravity sewers concentrated on the "severe" and "major" defect categories, with sewers ranked as in "fair" and "good" condition being re-inspected every 10 years. Therefore, per its criteria, the District desires to re-inspect the sewers in Phase II, assess their condition, and update its Sewer System Rehabilitation Plan.

PROJECT GENERAL APPROACH

CCTV Inspection Work

There is an estimated 500,000 feet (this value includes a 10% increase to account for any potential additional length found during the field inspections) of gravity sewers in the Phase II area that the District would like to be CCTV inspected and rehabilitation recommendations developed for. AKM anticipates the CCTV inspection work to be completed in about 8 months of starting. In order to complete the required scope of work in a timely manner, AKM proposes to implement the following:

1. Typically, one truck/crew can inspect about 2,500 to 3,000 feet of sewer pipe in one work day. This is equivalent to 267 to 200 work days. There are approximately 150 work days in the months of July, August, September, October, November, December, January, and February excluding weekends and holidays. Empire Pipe Cleaning and Equipment, Inc. (EPCE) plans to use more than one truck/crew at a time, when they have it available, to complete the CCTV inspection work within eight months. If the CCTV inspection work starts at the beginning of July 2021, it is anticipated to be completed by the middle of February 2022.
2. EPCE will provide a "2-Week Look Ahead" map (Figure 1-1) to the District prior to their next work schedule. This will inform the District of where EPCE is planning on cleaning and/or inspecting sewers in the upcoming 2 weeks. This effort will allow the District ample time to notify residents, if needed, and coordinate additional tasks that may be needed to be done in order for EPCE to clean and inspect the locations successfully and efficiently. For example, coordination between EPCE and District staff may be needed for areas that may have access restrictions, specific traffic control needs, or that need to be inspected during night-time hours due to high flows in the sewers or heavy traffic conditions during normal working hours.

Photograph 1-1

Combination Trucks: Vector, Bucher, and Vac Con



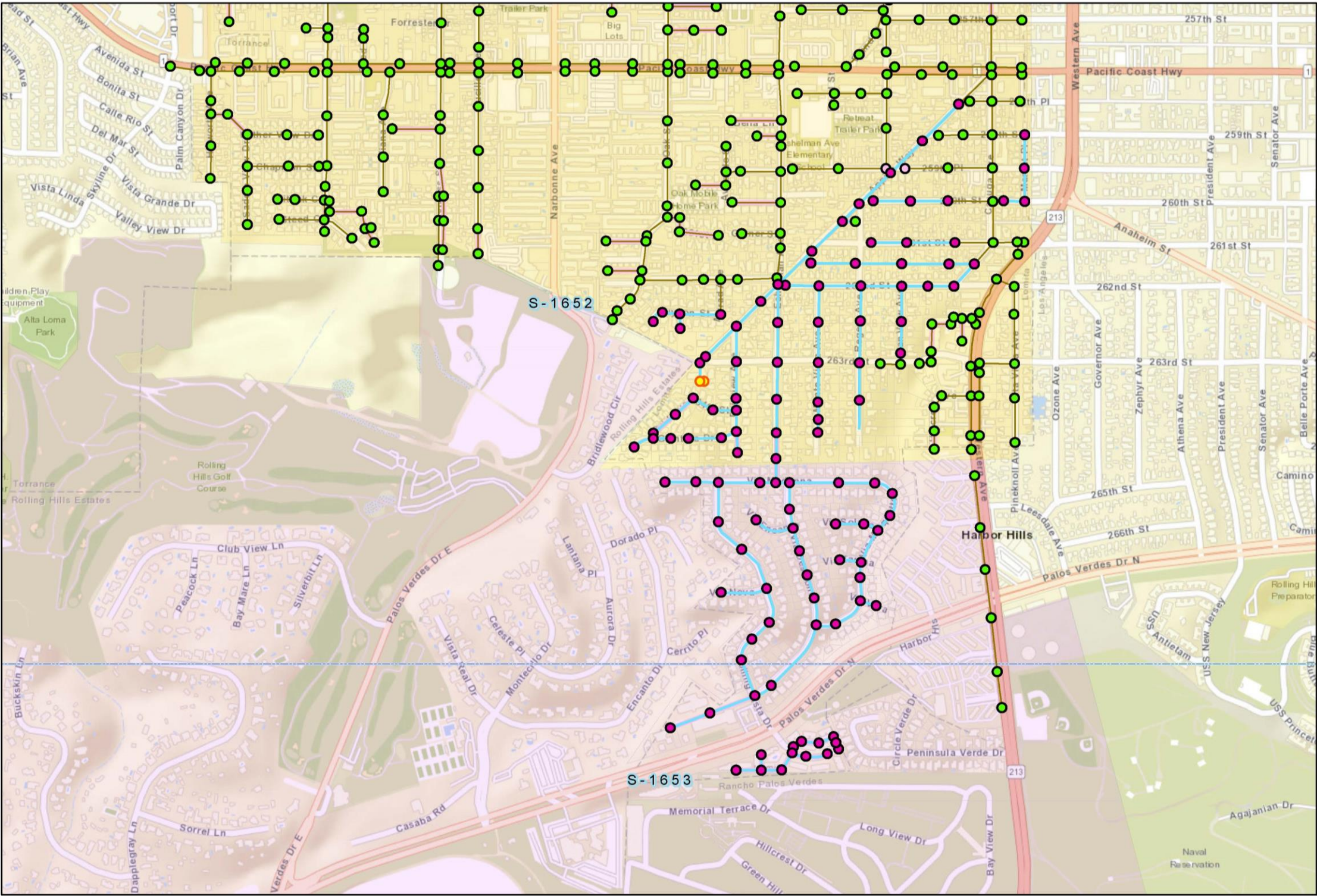
Photograph 1-2

GIS Tracking and Status Reports for CCTV





Figure 1-1
Two Week Look Ahead Map



Project Sample
Empire Pipe Cleaning
(714) 639-8352

City of Lomita

Measure_Status

- <all other values>
- Access_Issue
- Complete
- ✕ Does_Not_Exist
- GIS_Map_Issue
- Pending
- sPipe

Pipe_Status

- Abandon
- Scheduled CCTV
- CL_Pending
- Reclean
- See_Notes
- TV_Complete
- TV_Pending
- MSA_Complete
- MSA
- GIS_Map_Issue
- Does_Not_Exist
- Lomita_sPipes_Easements
- <all other values>

AGENCYNAME

- California Water Service Company - Palos Verdes
- Lomita City of - Water
- Grid_Map
- Parcels
- World Street Map

Two week look ahead
for April 5th
to April 19th

The sewer pipes South
of PCH are projected
to be cleaned in this
schedule.





3. EPCE will report progress to AKM Consulting Engineers (AKM) on a bi-weekly basis and submit samples of inspections completed. If the progress made indicates that the estimated 8-month schedule will not be met, EPCE and AKM will meet immediately to discuss reasons for the delays and develop action items to resolve them. If it cannot be readily resolved, the team will meet with District staff to discuss.
4. EPCE Project Management Team uses a Cloud based data interface. This is a new tool the EPCE has implemented since the last time they conducted inspections for the District. This tool will allow EPCE to track the project status live as the field crews complete work. Each crew will be assigned a username and specific area of the project. As tasks are completed, the crews will report their findings on a software application and the data will be stored in the cloud. This data will then be able to be retrieved quickly back in the office for EPCE staff to obtain real time updates. Each project can be specifically built to track specific data fields. For this project, EPCE will track the following:
 - a. Date of inspection
 - b. Operator that completed the task – for cleaning and CCTV inspections
 - c. Pipe Diameter
 - d. Footage of inspections
 - e. Truck ID
 - f. Pipe Status:
 - CCTV Inspection Complete
 - CCTV Inspection Pending – The crews tried it inspect the pipe and could not access for any reason. This would be documented in the notes.
 - Reclean – The pipe was not cleaned sufficiently for the inspection. The cleaning crew will come back and clean the pipe again and the pipe will be reinspected later.
 - Abandoned - The pipe is no longer in use.
 - GIS Issue – The map does not match what is in the field.
 - MSA – Inspection could not be completed manhole to manhole and a reverse inspection is not possible.
 - MSA Complete – The inspection was completed going both ways and the overlap point was reached.
 - DNE – Pipe does not exist in the field.
 - CL_Complete – When the pipe is cleaned and ready for CCTV inspection.
 - CL_Pending – If a pipe cannot be cleaned or accessed this will also have a comment in the notes field.
 - See Notes – This is to address all other conditions that are not covered by the other options.
5. An interactive dashboard will be used to track and calculate the project progress with live data. An example of the dashboard is shown in Figure 1-2. The dashboard has 9 key tracking functions:
 - a. Project Percent Completed – Shows the percent of the project completed based on segments attempted.
 - b. Completed Inspection – Tracks the number of completed inspections and compares them to the number of segments assigned to the project.
 - c. Pending Inspection - Tracks the number of pending inspections and compares them to the number of segments assigned to the project. This generates an action item why this is pipe is not inspected.
 - d. Cleaned Pipe – When the pipe is cleaned this lets the CCTV crews know what is ready ahead of them and where to go. If this count starts to drop it lets us know we need to add additional resources or adjust for the project's needs. .



Figure 1-2
Example Dashboard



- e. Pipes Need Recleaning – Pipes that need to be recleaned are flagged here to ensure the CCTV inspections are progressing efficiently. This creates an action item for the cleaning crew to adjust their approach in cleaning this area based on the notes by the CCTV operator.
 - f. MAS Inspections – This counts the number of MSA codes used in the CCTV inspections. If a pipe has an MSA this is a red flag for the Engineers to look at this segment to address why the pipe is not operating properly or does not have proper access to maintain the pipe.
 - g. Completed MSA Inspection - This is a red flag for the Engineers to look at this segment to address why the pipe is not operating properly.
 - h. Date Range
 - i. Pipe Diameter
6. EPCE has also built a client interface program that is ArcGIS compatible and can allow access to the District and/or AKM. Through the interface, AKM or the District can see in real time, the progress EPCE is making throughout the project and see exactly where the CCTV crews are located.

CCTV Inspection Review and Recommendations

After and during the completion of the CCTV Inspections, the following will be implemented to execute the final deliverable of the Sewer Rehabilitation Plan for the Phase II sewer mains:

1. Select inspections will be reviewed by AKM staff to ensure the quality of the work being completed by EPCE's field staff.
2. AKM will utilize an ArcGIS-based asset integrity management and capital planning program called InfoAsset Planner to compile the CCTV inspection data. This program is compatible with Pipeline Assessment and Certification Program (PACP) software and therefore has the ability to easily upload the CCTV inspection data from a standard PACP exchange database. The use of this program will help to reduce the amount of time AKM spends on compiling and summarizing the data to create the requested Inspection Report Database Summary. It also can provide additional graphics and tables to support the findings in the CCTV data and provides additional quality control for the CCTV inspection task.
3. AKM is capable and willing to vary the project schedule and deliverables to accommodate any project deadlines that need to be met by the District. Some examples are provided below:



- a. **Alternative 1** – Ideally, AKM will wait to compile all of the CCTV data after all Phase II sewer mains are inspected. We will review, summarize, and build a rehabilitation plan that is fully prioritized based on defect severity, likelihood of failure, and consequence of failure (including the triple bottom line items, social, economic, and environmental factors). One comprehensive report will be provided, including maps, figures, lengths, and preliminary costs for the recommended rehabilitation projects, separated by structural deficiencies and Operation and Maintenance deficiencies. Alternative 1 is the most efficient way for AKM to complete the work.
- b. **Alternative 2** – AKM is aware that the District may need some rehabilitation recommendation information before the end of the year (December 2021) to provide preliminary budget requirements for sewer rehabilitation for the years 2021-2022 and 2022-2023 and to start planning for the rehabilitation design.
 - i. **Alternative 2A** - If the District needs a budgetary cost estimate developed before the end of 2021, AKM will collect the CCTV inspection data up to the end of about November 2021. This first set of data will be imported to InfoAsset and the “severe” and “major” defects will be mapped. A cost





estimate for rehabilitation and replacement of sewers will be developed based off of the CCTV inspection database information. The cost estimate can then be adjusted for the entire Phase II area by assuming that the same percentage of “severe” and “major” defects will be found in the remaining inspections.

- ii. **Alternative 2B** - If the District needs specific rehabilitation projects developed prior to December 2021, AKM will collect CCTV inspection data up to the end of about September 2021. This will be less than half the data for Phase II. The data will be analyzed in detail (review of CCTV inspection videos) to develop rehabilitation recommendations. A prioritized rehabilitation plan, including maps, figures, and preliminary costs will be developed for this first set of data. The District can then use this information to expedite the design phase of the highest priority sewer mains.

AKM will compile the results from this first set of data with the results from the second set of data into one comprehensive report that includes recommendations for the entire Phase II project.

QUALITY CONTROL PLAN

A key element in the successful completion of any project is the implementation of a quality assurance/quality control program. Success is achieved through the efforts of qualified professionals effectively employing their skills and following a deliberate program of quality assurance to monitor and verify that the project is complete and accurate. For each project, AKM utilizes a project quality control plan that includes the following items:

- Review of project deliverables, and definition of procedures and required standards.
- Description of specific quality control procedures to be followed in specific activities, including the level and frequency of review required.
- Identification of elements of the project requiring special quality control attention or emphasis.
- Identification of technical experts required for review and consultation.
- Estimate of resources required for quality control functions.

To effectively manage the entire team’s work and ensure that all activities are coordinated, AKM will prepare and issue a project procedure protocol to all team personnel. The project procedures will cover communications, documentation, project files and other project specific procedures.

- ✓ **Work Plan** – AKM will develop a detailed work plan identifying all tasks, activities, reports and other documents to be produced, the required work-hours and the start and completion dates for each.
- ✓ **Budget** – Based on the work plan, a detailed budget will be developed covering labor and other expenses for each task group or work breakdown component. The budget will be time-phased to provide the base for financial control.
- ✓ **Schedule** – The schedule will be a time-phased critical path network showing the interdependencies between various activities and designating project performance milestones.

Examples of Quality Control and Cost Control Implementation

Some key examples of how quality control and cost control has been implemented include:

- **City of Brea** – AKM was hired by the City of Brea to complete a Sewer Master Plan in 2019. The scope of work included the review of CCTV records, condition assessment, and development of replacement/rehabilitation projects to be included in the Capital Improvement Program. The CCTV inspection was conducted by a CCTV inspection contractor hired by the City under a separate contract.

To ensure the quality of the CCTV inspection contractor’s work, AKM reviewed the first 1,000 feet of CCTV inspections and provided comments prior to the continuation of inspections. This allowed AKM to verify that the NASSCO PACP standards were being adhered to such as appropriate speed of camera and lighting, use of NASSCO defect codes, development of a proper PACP exchange database, and appropriate labels on videos. Providing this feedback at the beginning of the project allowed for more accurate and organized CCTV data throughout the project and dramatically improved the overall quality of the final deliverable.



- **Garden Grove Sanitation District** – AKM was hired by Garden Grove Sanitary District to complete the Sewer Rehabilitation Plan, Phase 1 sewer mains in 2017. To control the cost of the project, InfoAsset Planner was heavily used to check CCTV data, summarize and correct defect information, and provide rehabilitation recommendations. This software allowed AKM to efficiently and effectively create Capital Improvement Projects and develop a complete Sewer Rehabilitation Plan about \$70,000 under the proposed fee estimate. It has been utilized in multiple projects since to continue to ascertain any cost concerns from our clients and act as another source of quality control by ingesting the CCTV data creating a user-friendly environment for the end user.

Section 2 - Scope of Work

This section of the proposal describes the proposed scope of work for the development of the Garden Grove Sanitary District's (District) 2021 Sewer System Rehabilitation Plan – Phase II.

Task 1: Project Management

We will submit an initial project schedule with pertinent milestones for the major tasks involved in the project, particularly the Closed Circuit Television (CCTV) inspection work conducted in the field and the development of the Sewer System Rehabilitation Plan. The schedule shall be updated monthly or as required when there are major changes.

We will complete the CCTV inspection work within a time frame of about 8 months (July 2021 through February 2022). Analysis and development of the Sewer System Rehabilitation Plan will be completed following the completion of the CCTV inspection work and will continue into the second quarter of 2022, unless a different schedule is requested by the District (as explained in The Approach Section). Please see attached project schedule in Section 3 of this proposal.

A monthly update of the project schedule and a project status report will be submitted with our monthly invoice for the project.

Task 2: Meetings

AKM and Empire Pipe Cleaning and Equipment, Inc. (EPCE) staff will attend a kick-off meeting with Garden Grove Sanitary District (District) staff prior to the start of field work. At this meeting, we will discuss project objectives and the logistics of the field work, such as contact information, traffic control requirements, work hour limitations, and work plan.

We will meet to review the draft report submittal and discuss any comments District staff may have. The comments will be addressed in the final report submittal.

Draft meeting minutes will be sent to the District for review via email within five working days after the meeting. Final meeting minutes will be submitted via email in PDF format within two working days following receipt of the final District comments.

Task 3: Data Collection and Review

We will review all records made available by District staff, including but not limited to

- Previous Sewer System Rehabilitation Plans (including Phase I, conducted in 2017)
- Field notes related to the access of specified manholes in the Phase II area
- Any other data or information that may affect CCTV logistics

Task 4: Preparation of the Condition Assessment

Task 4A: CCTV Inspection of 500,000 feet of Sewer

Closed Circuit Television (CCTV) inspections will be conducted of the 500,000 feet of sewer identified by the Garden Grove Sanitary District (District) as shown in Exhibit A of the RFP. The inspections will be performed by Empire Pipe Cleaning and Equipment, Inc. (EPCE) utilizing the National Association of Sewer Service Companies (NASSCO) Pipeline Assessment and Certification Program (PACP) guidelines. Situations that require entry into manholes will follow EPCE protocol and CAL OSHA Standards for confined space. EPCE will follow safe practices while working on the project.

We will obtain the District's most current Sewer GIS to use as the base data of this project. The pipe and manhole IDs will be uploaded to EPCE's



Photograph 2-1
EnviroSight CCTV Inspection and Pipeline Scanning Truck

software before any field work is started. This will ensure that the same naming conventions are used for the CCTV recordings and that they will ultimately be compatible with the City's GIS system. We will initially work with the City of Garden Grove Information Technology (IT) staff to obtain the GIS data and clarify what IDs should be utilized.

The sewer lines will be CCTV inspected in accordance with the NASSCO PACP Standard for CCTV Assessment and scope of work outlined in the RFP. EPCE uses Pipeline Observation System Management (POSM) as the primary software collection system for CCTV Inspections.



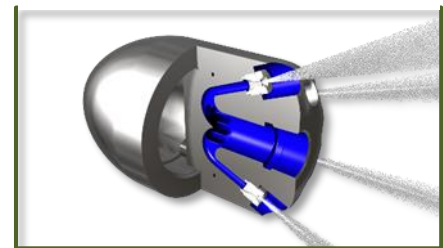
All the CCTV Operators are NASSCO PACP (pipe), MACP (manhole), and LACP (lateral) Certified. POSM and NASSCO PACP Standards creates the database that rates both the structural and maintenance severity of the pipeline segments utilizing a 1 to 5 defect rating system for each assessment. POSM allows for easy integration with many GIS Platforms. POSM Digital Software Collection System allows the user to choose various settings for video recording. This includes the resolution, MPEG Format, and type of video file. Normally we record in MPEG 4 format since this produces the best quality for the given storage size. Resolution will be a minimum of 352 x 240 but can be changed if storage size dictates differently. The CCTV inspection data will be delivered in the following manner:

- Summary of all inspections with indexing
- Video and Images associated with each inspection
- The plot of the pipe with the defects shown with distance in the pipe
- NASSCO PACP Defect report for Structural and Maintenance with ratings
- Observation Reports with images
- PACP Exchange Database

EPCE will provide personnel and equipment to clean approximately 500,000 LF of sewer lines as shown in the map provided as Exhibit A of the RFP. The following will be reported for all cleaning services:

- The cleaning crew will document the cleaning process and a cleaning log will be documented for District Staff Review. Any additional information will be shown in the comments section and any potential "Red Flag" conditions will be immediately reported to the District Staff
- If EPCE's crews discover any overflow or blockage situations, immediate action to mitigate the conditions will be taken and we will provide additional support if needed. We will notify the appropriate District Staff of the situation immediately. Standards for Sewer Overflow Response will follow the the District's Standards. Follow up reports will be submitted.
- EPCE will use City GIS data to track the segments completed and those which have not been completed. This data will be used to generate visual maps showing the progress of the project.

**Photograph 2-2
Cleaning Nozzle**



The sewer system will be cleaned using high velocity water pressure and vacuum to remove the debris from the line. Standard cleaning will be from the downstream manhole toward the upstream manhole, utilizing water flow to bring back the debris to the downstream manhole at which time will be vacuumed. In the event the nozzle cannot make it to the next manhole a reverse setup will be attempted to clean the line. Any manholes not accessible will be noted on the cleaning reports. The sewer pipes will be cleaned to ensure that a quality inspection can be completed. Cleaning Crews will document their findings on a cleaning log. EPCE will require access to hydrants for water and all manholes shall be accessible. The District will be responsible for locating and raising any manholes that are buried. Manholes that are buried, locked, or paved over will be referred to the District for assistance. EPCE will use the proper cleaning tools based on the types of debris/solids that need to be removed. Traffic Control will be implemented based on the requirements outlined in the Manual of Uniform Traffic Control Devices (MUTCD) Guidelines.

EPCE will provide sufficient crews to complete the inspections within an 8-month time frame and is available to start in July 2021.

Task 4B: Compile, Review, and Prepare Inspection Report Summary

We propose to utilize Innovyze's InfoAsset Planner software program to compile the CCTV inspection data. The InfoAsset Planner program is an ArcGIS-based asset integrity management and capital planning software for water and wastewater networks. It is a powerful tool that assists in characterizing the likelihood and consequence of failure for individual pipes in a network. InfoAsset Planner is a National Association of Sewer Service Companies (NASSCO) certified product.

The inspection data collected for this project will follow the Pipeline Assessment and Certification Program (PACP) standards and can therefore be easily imported into the InfoAsset Planner software, which already identifies with the same coding system that is required by PACP. InfoAsset Planner is a GIS based software and has the capability to incorporate any asset data that is in the District's Sewer GIS as well as the CCTV inspection data.

Importing the CCTV inspection data into InfoAsset Planner will allow us to plot the locations of the identified defects graphically on the Sewer GIS. We will also be able to more easily filter through the data to find the locations of the most severe defects or operations and maintenance issues. We will also be able to link the recorded video locations to the map, making it easier and more efficient for us to review them during the course of the project.

We will prepare a database summarizing the findings of CCTV reports and recordings. At a minimum, the database will include the following:

- Inspection Number
- Inspection Location
- Inspection Date
- Manhole Identification Numbers
- Pipe Identification Numbers
- Direction of Camera during Inspection
- Size of Pipe
- Material of Pipe
- Length of Pipe
- Number of Occurrences of Each Structural and Operation and Maintenance Deficiency

The InfoAsset Planner Program will allow us to easily account for the reverse inspections that are recorded. InfoAsset Planner will combine the data for these reaches to create a comprehensive summary table.



Task 4C – 4E: Review CCTV Recordings for Significant Defect Locations and Update CCTV Inspection Data

The CCTV recordings will be prioritized per the database summary. Although each reach is given a condition grade per the PACP standards, we will also base our prioritization on the type and number of defects identified in each recording. The pipes that are believed to be at higher risk of collapse and blockages, and therefore have a greater potential for causing a sanitary sewer overflow will be given the highest priority. For example, a pipe with a severe structural defect such as broken pipe, a hole in the pipe, or a large joint offset might be given a higher priority than a pipe with many other less severe defects such as cracks or fractures.

Based on the prioritized database, we will select representative reaches of the system to review the CCTV recordings in detail to ensure compliance with CCTV standards and procedures and further prioritize the sewers for replacement and/or repair. We do not anticipate that all the CCTV recordings will have to be reviewed in detail. Based on our experience, we expect to review up to 20 percent of the pipe reaches inspected. This amount may increase or decrease following review of the CCTV database.

We will review the CCTV recordings for those reaches identified as a high priority. We will verify the completeness of the inspection recordings and reports, and update the inspection database as necessary.

If additional deficiencies or discrepancies are found, we will make note of them and modify the summary database to include the changes. The inspection summary report will be updated accordingly.

Task 4F – 4H: Rehabilitation Recommendations

Rank and Prioritize CCTV Data

We will identify and prioritize the condition deficiencies, therefore identifying the critical sewer mains in need of replacement, rehabilitation and/or repair. The focus will be on sewer pipes that are at risk of collapse or prone to more frequent blockages.

We will utilize the same ranking and prioritization system as the District's previous Sewer System Rehabilitation Plans. This will provide the District with the ability to determine the changes in condition in any particular pipe more easily. The priority categories used previously are as follows:

- **Severe Condition** – This category primarily includes structural defects of deformed pipe, hole in pipe, broken pipe, and large joint offsets.
- **Major Condition** – This category primarily includes structural defects of multiple fractures, medium joint offsets and major sags. Pipes with a large number of cracks are also included.
- **Moderate Condition** – Pipes in this category have fractures, cracks, small and medium joint offsets, and sags.
- **Minor Condition** – Pipes in this category have slight sags, cracks, and small joint offsets.
- **O&M** – This condition is for operational and maintenance problems and construction feature defects. There are no structural defects.
- **No Defects** – This condition is for pipes with no structural, operation and maintenance or construction feature defects.

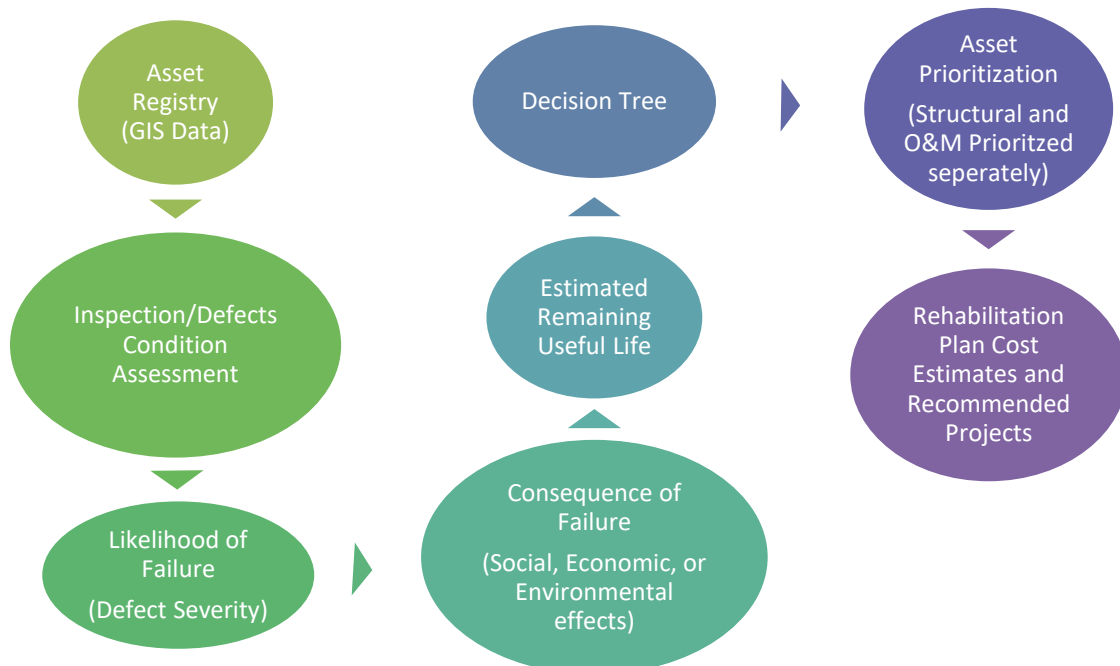


Develop Replacement and Rehabilitation Recommendations

Pipe reaches and structures determined to fall in the “Severe” or “Major” categories will form the basis of rehabilitation and replacement recommendations. Cost estimates will be developed to remedy the condition

Figure 2-1

General Work Flow for CCTV Assessments and Rehabilitation Plan



deficiencies identified. We will review any recent project bids that the District has collected and use this as the basis for estimating the cost of the future improvements. A general work flow for preparing the Sewer Rehabilitation Plan is shown in Figure 2-1.

Identify Operation and Maintenance Deficiencies

Operation and maintenance (O&M) defects such as grease accumulation, root intrusion, and debris/deposits will be considered separately. Often times, these defects will require additional cleaning or root cutting, but will not necessarily need replacement. Maps of each type of O&M issue will be prepared showing the locations in which they are identified. Recommendations for additional cleaning or root cutting will be made as needed.

Task 4I: Prepare Sewer System Rehabilitation Plan – Phase II Report

We will prepare the District's 2021 Sewer System Rehabilitation Plan, Phase II Report. The report will summarize all work completed, documenting the CCTV inspections, the condition assessment, and the rehabilitation and replacement recommendations.

Deliverables:

Deliverables will include:

- Four (4) hard-bound copies of the draft assessment report
- Four (4) hard-bound copies of the final assessment report
- External portable hard drive of all the CCTV inspection data, including video recordings, CCTV inspection reports in PDF, PACP exchange database, and jpg images

All work will be completed at AKM Consulting Engineers office in Irvine, California.

Task 5 (Optional): Traffic Control Design

Based on discussions with District staff, it is unknown if traffic control design will be required by the City. We have therefore included traffic control design as an optional item. If needed, Traffic Control Engineering, Inc. (TCE) will be responsible for the development of traffic control strategies in coordination with the City of Garden Grove. TCE will develop final traffic control plans consistent with City and Caltrans standards including signing, legends, and other construction detour standards.

The assumptions to complete the traffic control design are as follow:

- Traffic and all roadways to be restored during non-working hours.
- No temporary striping or traffic signal design included.
- Detailed location specific traffic control plans will be prepared at all signalized intersections on arterial streets.
- Typical lane closure plans will be prepared for mid-block lane closures on arterial streets.
- All other project side streets shall follow MUTCD Guidelines for lane closure traffic control.



The proposed project area consists of a total of 57 signalized intersections that may need traffic control. The fee estimate assumes 40 of these locations will need to have traffic control plans developed.

Typical mid-block lane closure plans will be prepared for the following locations:

Street	Location
Century Blvd.	Garden Grove Bl. to Euclid St.
Trask Ave.	Taft Ave. to Fairview St.
Westminster Bl.	Euclid Ave. to Fairview St.
Garden Grove Bl.	Century Bl. to Lewis St.



Lampson Ave.	9th St. to Lewis St.
Chapman Ave.	9th St. to Lewis St.
Orange Ave.	9th St. to West St.
Euclid Ave.	Garden Grove Bl. to Westminster Ave.
9th St.	Orangewood Ave. to Garden Grove Bl.
West St.	Orangewood Ave. to Garden Grove Bl.
Street	Location
Newhope Ave.	Garden Grove. Bl. to Westminster Ave.
Harbor Blvd.	Chapman Ave. to Westminster Ave.
Haster St.	Chapman Ave. to Garden Grove Bl.
Fairview St.	Garden Grove Bl. to Trask Ave.
Lewis St.	Chapman Ave. to Garden Grove Bl.

If the aforementioned traffic control plans will be required by the City of Garden Grove, the start date of the CCTV inspections will be impacted. Traffic control plans will be developed and submitted to the City for approval prior to the start date of the field work.



Section 3 - Project Schedule

AKM's proposed project schedule is illustrated on the following page. It has been prepared to properly address the requirements of the scope of work. AKM Consulting Engineers has the resources to accomplish the anticipated work within the schedule shown. The schedule is contingent upon implementation of the scope of work as contained within this proposal and the receipt of requested information in a timely manner. Depending on the City of Garden Grove requirements, traffic control plans may have to be prepared and submitted to the City for approval prior to the start of CCTV inspections. It should be noted that this will impact the start date of the field work. It will not extend the time it will take to complete the inspections. The optional traffic control design task is not indicated on the provided schedule.

Changes to the scope may affect the project schedule. However, it is acknowledged that time is and will remain of the essence throughout the course of the work. Correspondingly, all schedule modifications will be treated in a manner reflecting this consideration.

PROJECT SCHEDULE
Garden Grove Sanitary District
2021 Sewer System Rehabilitation Plan
Phase 2
June 2021

ID	Task Name	Duration	Start	Finish																																																				
					6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3	10/10	10/17	10/24	10/31	11/7	11/14	11/21	11/28	12/5	12/12	12/19	12/26	1/2	1/9	1/16	1/23	1/30	2/6	2/13	2/20	2/27	3/6	3/13	3/20	3/27	4/3	4/10	4/17	4/24	5/1	5/8						
1	Task 1 - Project Management	222 days	Thu 7/1/21	Fri 5/6/22																																																				
2	Task 2 - Meetings	222 days	Thu 7/1/21	Fri 5/6/22																																																				
3	Task 3 - Data Collection and Review	7 days	Thu 7/1/21	Fri 7/9/21																																																				
4	Task 4 - Preparation of Condition Assessment	222 days	Thu 7/1/21	Fri 5/6/22																																																				
5	4A CCTV Inspection of 500,000 Feet of Sewer	162 days	Thu 7/1/21	Fri 2/11/22																																																				
6	4B Compile, Review, and Prepare Inspection Reports	10 days	Mon 2/14/22	Fri 2/25/22																																																				
7	4C-E Review CCTV Recordings for Significant Defect Locations and Update CCTV Inspection Data	24 days	Mon 2/28/22	Thu 3/31/22																																																				
8	4F-H Rehabilitation Recommendations	25 days	Mon 3/21/22	Fri 4/22/22																																																				
9	4I Prepare Sewer System Rehabilitation Plan - Phase II Report	15 days	Mon 4/18/22	Fri 5/6/22																																																				

Task

Split

Milestone

Summary

Project Summary

External Tasks

External MileTask

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Progress

Split

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Section 4- Project Team

PROJECT MANAGEMENT STRUCTURE

AKM Consulting Engineers (AKM) utilizes a project management approach that focuses on completing technically outstanding projects on time, and within budget. Our methodology is described below.

PROJECT MANAGEMENT

The engineering organization and the Project Teams proposed by AKM are structured to respond to the technical and managerial requirements of the project by assigning very senior, highly qualified personnel. They will function in a simple organization with clear lines of delegated authority and responsibility. Our Project Manager will be the principal point of contact with Garden Grove Sanitary District (District), and will have full technical and administrative responsibility for the project. The team assembled for the project includes all of the major disciplines required to expeditiously complete the assignment.

PROJECT SCHEDULE

The schedule for the project is developed to provide a reasonable performance period in line with the client's schedule. The schedule will be updated monthly, or more frequently if needed, and reviewed at progress meetings so that the District and AKM are aware of and can respond to critical items. In effect, they will become the master project control tools.

PROGRESS REPORTING

AKM recognizes the District's need for comprehensive, up-to-date information on project status. Monthly reports will be prepared in a format to be agreed upon with the District and will contain the following, as a minimum.

- **Contract Fact Sheet** – Summarizing key contract data and status.
- **Progress Narrative** – Describing the key accomplishment during the reporting period, with charts and diagrams.
- **Schedule Status** – A discussion of the progress achieved during the month and to date as compared to the scheduled progress, and a discussion of factors affecting the schedule, accompanied by the updated schedule.
- **Cost Status** – Narrative discussion of events occurring during the month which affect the estimate at completion.
- **Problems and Issues** – Including discussion of potential cost and schedule impacts, actions being taken to mitigate the problems, and action required by the District.

PROJECT TEAM ORGANIZATIONAL CHART

The Project Team organization is illustrated on the Project Organizational Chart in this section, along with detailed resumes describing specific experience of the Project Team members. In addition to the key personnel shown on the following project organizational chart, AKM has additional support personnel available to assist on the project, as necessary.

AKM'S INTEGRATED PROJECT MANAGEMENT

PROJECT IDENTIFICATION

- Listen to Client/User
- Ascertain Project Needs
- Identify Problems/Constraints
- Review Schedule and Budget
- Review Site and Data
- Determine Expectations
- Determine Approval Process and Permitting Agencies
- Establish Scope of Technical Services

WORK PROGRAM

- Establish Work Plan and Schedule
- Establish Work Breakdown Structure (WBS)
- Determine Resources
- Review and Adjust the Work Plan and Schedule
- Establish Project Milestones

TECHNICAL EXECUTION

- Project Execution
- Concept and Criteria Review by AKM Principal Engineer not directly involved with any day to day project details
- Discipline Check
- Internal QC and Constructability Review by QA/QC Team

PROJECT MANAGEMENT

- Technical Review
- Progress Reporting
- Comparison of Progress with WBS and Resource Loaded Schedule
- Resolution of Discrepancies
- Identification of Sources and Impacts
- Development of Mitigation
- Continuous Coordination
- QA/QC Completion

Garden Grove Sanitary District

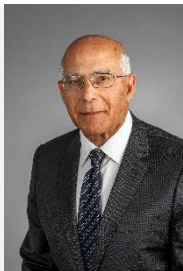
PROJECT MANAGER

Diann Pay, P.E.
Registration: RCE CA C60298
NASCCO PACP, MACP, LACP U-1003-947
Education: M.S. Environmental Water Resources (UC Berkeley); BS Civil Engineering (UCLA)
Years of Experience: 24 Years with AKM: 24



PRINCIPAL IN CHARGE / QA/QC

Zeki Kayiran, P.E.
Registration: RCE CA C29330
Education: M.S. Civil Engineering (CSULB); B.S. Civil Engineering (Robert College)
Years of Experience: 47 Years with AKM: 31



PROJECT ENGINEER

Jon Nitta, P.E.
Registration: RCE CA 69987
NASCCO PACP, MACP, LACP U-1106-4046
Education: B.S. Civil Engineering (UCLA)
Years of Experience: 19 Years with AKM: 19



ASSOCIATE ENGINEER

Haly Herrera, P.E.
Registration: RCE CA C92354
NASCCO PACP, MACP, LACP U-1014-06022537
Education: B.S. Environmental Engineering (UC Irvine)
Years of Experience: 7 Years with AKM: 7



CCTV INSPECTION

EMPIRE PIPE CLEANING AND EQUIPMENT
Craig Van Thyne
Registration: NASSCO Certified CCTV Inspection Operator; California State Contractor License C36 and C42 (363528)
Education: M.S., Metallurgical Engineering (Colorado School of Mines) B.S. Metallurgical Engineering (Iowa State University)

TRAFFIC CONTROL

TRAFFIC CONTROL ENGINEERING
David Kuan, P.E., R.T.E.
Registration: RTE California (1429) RCE California (C57387)
Education: M.S. Civil Engineering (UC Berkeley); B.S. Civil Engineering (UC Irvine)

PROJECT TEAM

The engineering organization and the project team proposed by AKM are structured to respond to the technical and managerial requirements of the project by assigning very senior, highly qualified personnel to the work. They will function in a simple organization with clear lines of delegated authority and responsibility.

Our project manager will be the principal point of contact with the District, and will have full technical and administrative responsibility for the work. All identified personnel will be assigned to the project. All project team members have long tenure with AKM, and we do not reassign or substitute staff assigned to specific projects. The following provides brief descriptions of their roles and experience. Our project team organization is also illustrated in this section.

Diann Pay, P.E. | Project Manager

Registration: RCE, CA, C60298 (2002) ; NASCCO PACP, MACP, and LACP Certified [U-1003-947] 50% Available

Ms. Diann Pay, P.E., a certified pipeline assessor by the NASSCO Pipeline Assessment and Certification Program, will be Project Manager. Ms. Pay has served in this capacity during the preparation of thirty four (34) sewer master plans and sewer system management plans, all of which included sewer system evaluation and capacity assurance plans, system condition assessment, and the preparation of sewer system rehabilitation plans. She is intimately familiar with the Statewide Waste Discharge Requirements because of her involvement in the preparation of master plans and sewer system management plans in accordance with the Statewide General Waste Discharge Requirements. Ms. Pay has overseen the condition assessment and project prioritization of over 7.6-million feet of sewer pipes.



Zeki Kayiran, P.E. | Principal-in-Charge and QA/QC

Registration: RCE, CA (C29330) 20% Available

Mr. Zeki Kayiran, P.E. will be in charge of QA/QC. Mr. Kayiran's experience includes the completion of thirty nine (39) sewer master plans and sewer system management plans, that all included the development of sewer system rehabilitation plans. Many of the Master Plans and Sewer System Management Plans included a financial evaluation of the sewer utility and a rate study as a part of the scope of work. He was actively involved in the development of the Statewide Waste Discharge Requirements, and was instrumental in having a separate Sewer System Rehabilitation Plan under the Operation and Maintenance Plan. He has served as the District Engineer for the Garden Grove Sanitary District, and provides expert services to the City of Los Angeles Bureau of Sanitation in wastewater planning.



Jon Nitta, P.E. | Project Engineer

Registration: RCE, CA [2006] C69987; NASCCO PACP, MACP and LACP Certified [U-1106-4046] 50% Available

Mr. John Nitta, P.E. will be the project engineer responsible for reviewing the inspection reports and recordings, conducting condition assessments, and making replacement/rehabilitation recommendations. Mr. Nitta is a NASSCO certified pipeline, lateral and manhole assessor. He served for 3 years on an assignment to the City of Los Angeles Bureau of Sanitation where he developed the Secondary System Capacity Evaluation Procedures and prepared the first one for Sewershed W15. He was also responsible for condition assessment of over 1.8 million feet of sewers, as well as the condition assessment for the City of Seal Beach, Irvine Ranch Water District, and Garden Grove Sanitary District.



Haly Herrera, P.E. | Associate Engineer

Registration: Registered Civil Engineer, California C92354; NASCCO PACP, MACP and LACP Certified [U-1014-06022537] 80% Available

Ms. Haly Herrera is a staff engineer for AKM Consulting Engineers. She specializes in planning and design of water, recycled water, and wastewater systems. Ms. Herrera has completed 6 sewer master plan and condition assessment projects. She is a NASSCO certified pipeline, lateral and manhole assessor. She was the staff engineer responsible for conducting the reliability and redundancy analyses in InfoMaster for the Irvine Ranch Water District's sewer collection system. She was also responsible for the development of alternative repair,



replacement, and/or rehabilitation recommendations along with cost estimates for identified sewer reaches with severe structural defects for the City of Redondo Beach. Segment repair/replacement action drawings were created for over 170 sewer reaches. The action drawings showed the locations of the defects found by CCTV inspections and the limits of recommendations such as spot repair, lining, or full replacement. Haly worked on The District's Phase I Sewer Rehabilitation Plan (2017-2018) – Used InfoAsset, reviewed data and videos, developed recommendations, developed project locations and cost estimates.



Empire Pipe Cleaning and Equipment / CCTV Inspection

Contact: Craig Van Thyne

Registration: NASSCO Certified CCTV Inspection Operator; California State Contractor License C36 and C42 (363528)

The AKM Consulting Engineers Project Team includes Empire Pipe Cleaning and Equipment, Inc. (EPCE) under the direction of Mr. Craig Van Thyne. Mr. Van Thyne is the Vice President and Co-owner of EPCE. EPCE will provide services for CCTV cleaning and inspections. EPCE field crew and Project Managers are NASSCO certified Pipeline CCTV Inspection Operators. EPCE performed the CCTV inspection services on several projects, either as a sub-consultant to AKM or as a separate consultant to an agency that AKM was also working for. Projects AKM and EPCE have collaborated on include work for the Cities of Manhattan Beach, Alhambra, the Garden Grove Sanitary District, Fountain Valley, Palos Verdes Estates, Cypress, Newport Beach, Norwalk, and Stanton. In 2017-2018, EPCE completed the cleaning and inspection work for the Garden Grove Sanitary District's Sewer System Rehabilitation Plan, Phase I as a sub-consultant to AKM.

Traffic Control Engineering / Traffic Control

Contact: David Kuan, P.E., R.T.E.

Registration: RTE California (1429) RCE California (C57387)

If required by the City of Garden Grove, David Kuan, P.E., R.T.E., will oversee the preparation of traffic control plans. He has a substantial track record in preparing traffic management plans and construction traffic control plans. Traffic Control Engineering's familiarity with local government requirements will be a great asset in assuring timely project completion.

RESUMES

Brief resumes of our proposed project team members are located on the following pages.

DIANN PAY, P.E.

PROJECT MANAGER

24 YEARS OF EXPERIENCE
24 YEARS WITH AKM



PROFESSIONAL REGISTRATION

Registered Civil Engineer, California (C60298)
NASCCO PACP, MACP, LACP (U-1003-947)

EDUCATION

M.S., Environmental Water Resources (UC Berkeley)
B.S., Civil Engineering (UCLA)

Mr. Pay is the Director of Planning for AKM Consulting Engineers. In this capacity she specializes in planning and design of potable water, recycled water and wastewater systems. She is a certified pipeline, manhole, and lateral assessor by the NASSCO Pipeline Assessment and Certification Program. She has been responsible for condition assessment of over 10 million feet of sewer pipe. She has served as Project Manager, Project Engineer or Lead Engineer during the preparation of thirty-three (34) sewer master plans/updates. Ms. Pay's previous sewer collection system calibrated model development, master planning, condition assessment, and sewer system rehabilitation plan experience includes the following:

- Sewer Condition Assessment (over 7 million feet of sewer pipe)
- Sewer Master Plans and Sewer System Management Plans (34)
- Development of Sewer Models
- Rain Dependent Inflow and Infiltration Analyses
- Sewer Risk Assessment
- Sewer Pump Station Condition Assessment
- Sewer Feasibility Studies (31)
- Septic Tank Conversion Evaluations
- Overflow Emergency Response Plans (5)
- Operation and Maintenance Programs (21)
- FOG Discharge Manuals (4)
- Regional Connection Studies (BOD5 and TSS Loads)
- Interagency Shared Facility Studies

RELATED EXPERIENCE

- Sewer Collection System Master Plan for the Irvine Ranch Water District – Project Manager - 11 pump stations, diversion facilities and siphons; and conducted reliability and redundancy analyses in InfoMaster.
- Sewer Condition Assessment for the City of Redondo Beach – Project Engineer - 170 sewer reaches
- System Evaluation and Capacity Assurance Plan, Rehabilitation and Replacement Program, Wastewater System Operation and Maintenance Program for the City of Redondo Beach - Project Engineer -110 miles of sewers; an operation and maintenance program that includes a root control program; capacity analysis, and the preparation of a prioritized CIP.
- Sewer Master Plan for the City of Manhattan Beach - Lead Engineer - 223,000 feet of gravity system pipe and 1075 manholes, capacity analysis, additional 102,000 feet of gravity pipe and 416 manholes was inspected and evaluated under a separate contract.
- Sewer Master Plan for the City of Newport Beach - Project Engineer - 349,000 feet of pipe, preparing a prioritized CIP for system

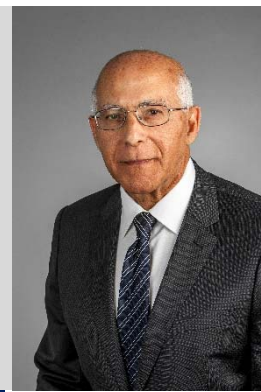
replacement and rehabilitation, and operation and maintenance recommendations.

- Sewer System Rehabilitation Plan for the City of Alhambra – Project Engineer - 665,798 feet of gravity system pipe
- Sewer Master Plan Update for the City of Seal Beach – Project Engineer - entire collection system and the pump stations
- Sewer Master Plan for the City of Cypress (2) - Project Engineer - 523,000 feet of pipe and provided detailed recommendations for rehabilitation and replacement, as well as operation and maintenance.
- Sewer Master Plan for the City of Fountain Valley (2) - Project Engineer - 702,000 feet of pipe, preparation of a prioritized replacement/rehabilitation plan, and operation and maintenance recommendations.
- Sewer Master Plan for the City of Seal Beach (2) - Staff Engineer - 170,000 feet of pipe, and developing a prioritized capital improvement program for elimination of the condition deficiencies as part of the Sewer System Rehabilitation Plan.
- Sewer Master Plan for the City of La Habra – Project Engineer - 662,000 feet of pipe with the use of CCTV inspection reports and recordings; preparation of rehabilitation and replacement recommendations as well as operation and maintenance recommendations; prioritized CIP; and cost estimates.
- Sewer Master Plan for the City of Palos Verdes Estates (2) – Project Engineer - 329,000 feet of the gravity sewers through review of CCTV inspection reports and recordings, and developing a prioritized capital improvement program for elimination of the deficiencies.
- Waste Discharge Requirements Compliance for the Garden Grove Sanitary District – Project Engineer - 1,800,000 feet of gravity system pipe, and preparation of a detailed rehabilitation/replacement CIP, as well as operation and maintenance recommendations to be added to the existing program.
- Waste Discharge Requirements Compliance for the City of Brea (2) - Project Engineer -580,000 feet of pipe through CCTV inspection reports and recordings, preparation of a CIP for system rehabilitation and replacement.

ZEKI KAYIRAN, P.E.

Principal - in - Charge
QA/QC Manager

46 YEARS OF EXPERIENCE
30 YEARS WITH AKM



PROFESSIONAL REGISTRATION

Registered Civil Engineer, California (C29330)

EDUCATION

M.S., Civil Engineering (CSU Long Beach)

B.S., Civil Engineering (Robert College)

Mr. Kayiran provides comprehensive technical and management expertise in the planning and design of a wide variety of water resources engineering projects. His professional background includes a blend of consulting engineering and academic experience, including a part-time instruction in the field of fluid mechanics and hydraulic design at California State University, Long Beach. He has been responsible for planning, design, and construction management/inspection services for over 1,000,000 feet of pipelines, 60 sewer pump stations, as well as evaluation of over 120. He has provided expert witness services to Garden Grove Sanitary District and Costa Mesa Sanitary District, as well as to the Cities of Alhambra and Huntington Beach involving their sewer systems. Mr. Kayiran's previous sewer planning and sewer design experience includes:

- Contract Sanitary District Engineer
- Wastewater Pipeline Design (over 500,000 feet)
- Sewer Master Plans and Sewer System Management Plans (39)
- Wastewater Water Pump Stations (60)
- Preliminary Design Reports, Alignment Studies, Plan Preparation, Specifications, Estimates, Construction Management and Inspection, and Construction Support
- Expert Witness Services to Public Agency Clients
- Sewer Hydraulic Models
- Flow Monitoring Studies
- Rain Dependent Inflow and Infiltration Analyses
- Gravity Sewer Condition Assessment (CCTV)
- Sewer Risk Assessment
- Sewer Pump Station Condition Assessment
- Overflow Emergency Response Plans (7)
- Operation and Maintenance Programs (27)
- FOG Discharge Manuals (8)
- Regional Connection Studies (BOD5 and TSS Loads)
- Sewer Rate Studies

RELATED EXPERIENCE

- Waste Discharge Requirements Compliance for the Garden Grove Sanitary District – Project Manager -1,800,000 feet of gravity system pipe and development of rehabilitation/replacement projects and operation and maintenance recommendations
- Sewer System Management Plan and Rate Study for the City of Brea (3) - Project Manager - 580,000 feet of pipe procured by the City, and developing rehabilitation/replacement as well as operation and maintenance recommendations
- Sewer Collection System Master Plan for the Irvine Ranch Water District – Principal in Charge - 11 pump stations, diversion facilities

and siphons; and conducted reliability and redundancy analyses in InfoMaster

- Wastewater Master Plan for the City of Manhattan Beach – Project Manager - 223,000 feet of gravity system pipe, 1075 manholes, and 8 pump stations; capacity analysis, and preparation of a prioritized CIP. An additional 102,000 feet of gravity pipe and 416 manholes
- Sewer Master Plan for the City of Newport Beach – Project Manager - 20 pump stations and review of CCTV inspection reports and recordings of 349,000 feet of pipe, preparing a prioritized CIP
- Sewer Master Plan and Rate Study for the City of Fountain Valley (2) - Project Manager - 50 percent of the system, and development of a capital improvement program
- Sewer Master Plan Update for City of Seal Beach – Principal in Charge
- Sewer Condition Assessment for the City of Redondo Beach – Principal in Charge
- Sewer System CCTV Inspection, Condition Assessment, and Design of Replacement and Rehabilitation Projects at Various Locations for the City of Redondo Beach – Principal in Charge
- Sewer System Master Plan and Rate Study for the City of El Segundo (2) - Project Manager
- Sewer Master Plan for Culver City – Principal in Charge
- Sewer Master Plan for the City of Claremont – Principal in Charge
- System Evaluation and Capacity Assurance Plan for the City of El Segundo – Principal in Charge
- Sewer Master Plan and Update for the City of Stanton – Principal-in-Charge Rehabilitation Plan elements of the Sewer System Management Plan.
- Sewer Master Plan for the City of Ontario Old Model Colony – Project Manager
- Waste Discharge Requirements Compliance for the City of Newport Beach - Project Manager
- Sewer System Management Plan for the City of Norwalk – Project Manager

JON NITTA, P.E.

PROJECT ENGINEER

19 YEARS OF EXPERIENCE

19 YEARS WITH AKM



PROFESSIONAL REGISTRATION

Registered Civil Engineer, California (C69987)

NASCCO PACP, MACP, LACP (U-1106-4046)

EDUCATION

Bachelor of Science, Civil Engineering (UCLA)

Mr. Nitta is a Senior Engineer with AKM Consulting Engineers. In this capacity, he has been responsible for pipeline, pump station and master planning assignments and rehabilitation plans. He is a certified pipeline and manhole assessor (certified in 2007) by the NASCCO Pipeline Assessment and Certification Program. His previous experience encompasses a range of water resources projects including developing calibrated hydraulic models, conducting condition assessments, preparing master plans, and preparation of plans and specifications. His experience includes:

- Sewer Pump Station Condition Assessment (CCTV)
- Sewer Master Plans and Sewer System Management Plans
- Sewer Rate Studies
- Sewer Hydraulic Models
 - Sewer Geodatabase and Model Geometry
 - Flow Monitoring, Sewer Unit Flow Factors, Sewer Return Ratios, Peaking Relationships
 - Model Calibration
 - System Analysis
 - Capital Improvement Program
- Flow Monitoring Studies
- Rain Dependent Inflow and Infiltration Analyses
- Experienced in Innovyze InfoSewer and InfoSWMM
- Wastewater Pipeline Design
- Sewer Pump Station Plan Preparation, Specifications and Estimates
- Coordination of design and drafting team members
- Preliminary Design Reports and Alignment Studies for sewer and water pipeline projects.
- Water Pipeline Plan Preparation, Specification and Estimates

RELATED EXPERIENCE

- Sewer System Planning for the Garden Grove Sanitary District – Project Engineer - 1,300,000 feet of the system, provided rehabilitation/replacement recommendations, as well as operation and maintenance recommendations
- Sewer Collection System Master Plan for the Irvine Ranch Water District – Project Engineer
- Sewer Master Plan for East Orange County Water District – Project Engineer – 700,000 feet (70 percent) of the system through reviews of CCTV inspection reports and recordings
- System Evaluation and Capacity Assurance Plan, Rehabilitation and Replacement Program, Wastewater System Operation and Maintenance Program for the City of Redondo Beach - Project Engineer - 110 miles of sewers, an operation and maintenance program that

includes a root control program, capacity analysis, and the preparation of a prioritized CIP

- Condition Assessment of the City of Brea Sewer System - Project Engineer - 580,000 feet of pipe through reviews of CCTV inspection reports and recordings
- City of Seal Beach Sewer System Condition Assessment – Project Engineer - 170,000 feet of pipe, and developing a prioritized capital improvement program for elimination of the condition deficiencies
- Sewer Master Plan for the City of Stanton – Project Engineer
- City of Norwalk Sewer System Management Plan – Project Engineer
- Sewer Master Plan for the City of Cypress - Staff Engineer - 523,000 feet of pipe.
- Sewer Master Plan for the City of Fountain Valley - Staff Engineer - 302,000 feet (43 percent) of the system through reviews of the CCTV inspection reports and recordings
- Sewer Master Plan for the City of Palos Verdes Estates – Staff Engineer - 329,000 feet of the gravity sewers through review of CCTV inspection reports and recordings, and developing a prioritized capital improvement program
- Sewer Master Plan for the City of El Segundo – Staff Engineer - 264,000 feet of pipe through review of CCTV reports and recordings, identifying hydraulic and condition deficiencies; and preparation of a capital improvement plan
- City of Los Angeles Sewer Pipe Inventory Corrections - Staff Engineer responsible for identifying the discrepancies between multiple sewer pipe databases, maps, and plans, and implementing corrections.
- City of Los Angeles Sewershed Planning Reports - Staff Engineer - 1,300,000 feet of pipe and provided rehabilitation/replacement
- Sewer Master Plan and Waste Discharge Requirements Compliance for the City of Newport Beach - Staff Engineer
- Camarillo Sanitary District Sewer System Management Plan – Staff Engineer

Haly Herrera, P.E..

Associate Engineer

7 YEARS OF EXPERIENCE
7 YEARS WITH AKM



PROFESSIONAL REGISTRATION

Registered Civil Engineer California (C92354)
NASSCO PACP, MACP, LACP (U-1014-06022537)

EDUCATION

Bachelor of Science, Environmental Engineering -
University of California, Irvine

Ms. Herrera is a staff engineer for AKM Consulting Engineers. In this capacity she has specialized in the planning of water, recycled/non-domestic water, and wastewater systems. She is a certified pipeline and manhole assessor by the NASSCO Pipeline Assessment and Certification Program and has her Professional Engineering Certification for the State of California. Her related experience includes:

- Sewer Master Plans (8)
- Sewer Hydraulic Model
 - Sewer Geodatabase and Model Geometry
 - Flow Monitoring, Sewer Unit Flow Factors, Sewer Return Ratios, Peaking Relationships
 - Model Calibration
 - System Analysis
 - Capital Improvement Program
- Flow Monitoring Studies
- Sewer Feasibility Studies
- Gravity Sewer Condition Assessment (CCTV)
- Septic Tank Conversion Evaluations
- Sewer Risk Assessment
- Familiar with Innovyze InfoSewer and InfoSWMM
- Familiar with Innovyze Info Asset Planner (formally InfoMaster)
- Operation and Maintenance Program
- Sewer System Management Plan Audits
- Sewer Pump Station Condition Assessment
- Vertical Asset Register Population

RELATED EXPERIENCE

- **Rehabilitation and Replacement Program - Phase 1 for Garden Grove Sanitary District** - Staff Engineer responsible for the review of 300,000 feet of CCTV inspections, development of prioritization of projects, and creation of a comprehensive replacement and rehabilitation improvement program.
- **Sewer Collection System Master Plan for the Irvine Ranch Water District** - Associate Engineer for the work which created a dynamic hydraulic model of the entire system; conducted extensive flow monitoring for use in model calibration; calibrated the model with dry and wet weather flows; conducted capacity analyses of the existing and future system; assessed 11 pump stations, diversion facilities and siphons; and conducted reliability and redundancy analyses in InfoMaster.
- **Sewer Master Plan for Culver City** - Associate Engineer responsible for the development of a calibrated hydraulic model, conducting

hydraulic analyses, evaluation of four lift stations, and a preliminary evaluation of the SCADA system.

- **Sewer Master Plan Update for the City of Seal Beach** Associate Engineer responsible for updating and calibrating of the hydraulic model, conducting hydraulic analyses, condition assessment of the entire collection system and the pump stations, formulating a short and long term capital improvement plans, preparation of a detailed Overflow Emergency Response Plan, and updating of the Sewer System Management Plan.
- **Sewer Condition Assessment for the City of Redondo Beach** - Staff Engineer responsible for developing alternative repair, replacement, and/or rehabilitation recommendations along with cost estimates for identified sewer reaches with severe structural defects. Segment repair/replacement action drawings were created for over 150 sewer reaches. The action drawings showed the locations of the defects found by CCTV inspections and the limits of recommendations such as spot repair, lining, or full replacement.
- **City of Claremont Sewer Master Plan** - Staff Engineer responsible for developing a calibrated system hydraulic model based upon the City's existing Sewer GIS, flow monitoring data, and water use data. Also responsible for capacity analysis and preparation of a prioritized capacity CIP.
- **System Evaluation and Capacity Assurance Plan for the City of El Segundo** - Staff Engineer responsible for update of City's hydraulic model using InfoSewer software. The model update encompassed a review of as-built plans and adding the facilities constructed since the completion of the last master plan, the development of unit flow factors based on water use data, the assignment of sewer loads to manholes, the development of dry weather peaking formulas based on pump station SCADA data (influent flows), and confirming the normal flow paths at diversion structures.

CRAIG VAN THYNE

EMPIRE PIPE CLEANING AND EQUIPMENT

CCTV Inspection



PROFESSIONAL REGISTRATION

NASSCO Certified CCTV Inspection Operator
California State Contractor License C36 and C42 #363528

EDUCATION

M.S. Metallurgical Engineering, Colorado School of Mines
B.S. in Metallurgical Engineering, Iowa State University

Mr. Van Thyne is the Vice-President and co-owner of Empire Pipe Cleaning and Equipment, Inc. In this capacity, he coordinates the field operations of the cleaning and television inspection project leaders; interfaces with customers and software/hardware development of television inspection equipment. Mr. Van Thyne's experience includes the following:

- ***CCTV Inspection for the Garden Grove Sanitary District*** – System cleaning, CCTV inspection, and development of inspection reports, recordings, and databases of 699,400 feet of gravity sewers in accordance with NASSCO PACP standards in three phases as part of the District's Sewer System Rehabilitation Plan
- ***Cleaning and CCTV Inspection for Condition Assessment for LACDPW*** – System cleaning, CCTV Inspection and development of inspection reports and databases. EPCE completed 12 projects from the period of 2005 to 2016 with various JOC General Contractors. EPCE completed over 5,000,000 lineal feet of assessments in Accordance with NASSCO PACP Standards All projects were completed 100% without delays. 2005-2015
- ***CCTV Inspection and Manhole Inspection for the City of Hermosa Beach*** – System cleaning, CCTV inspection, and development of inspection reports, recordings, and databases of approximately 200,000 Lineal Feet in accordance with NASSCO PACP/MACP standards as part of the City's Sewer Master Plan 2016-2018
- ***CCTV Inspection and Manhole Inspection for the City of La Palma*** – System cleaning, CCTV inspection, Manhole Inspections, and reporting approximately 180,000 Lineal Feet and associated Manholes in accordance with NASSCO PACP/MACP standards as part of the City's Sewer Master Plan 2015 to present.
- ***CCTV Inspection and Manhole Inspection for the City of Manhattan Beach*** – System cleaning, CCTV inspection, and development of inspection reports, recordings, and databases of approximately 44 miles of gravity sewers and 743 manholes in accordance with NASSCO PACP and MACP standards as part of the City's Sewer Master Plan (Phase I). Empire Pipe completed inspection of an additional 19 miles of gravity sewers and 416 manholes for Phase II of the City's condition assessment program.
- ***CCTV Inspection for the City of Alhambra*** - System cleaning, CCTV inspection, and development of inspection reports, recordings, and databases of 665,798 feet of gravity sewers in accordance with NASSCO PACP standards as part of the City's Sewer Rehabilitation Plan.
- ***CCTV Inspection for the City of Newport Beach*** - System cleaning, CCTV inspection, and development of inspection reports, recordings,

and databases of 349,000 feet of pipe in accordance with NASSCO PACP standards as part of the City's Sewer Master Plan.

- ***CCTV Inspection for the City of Fountain Valley*** – System cleaning and development of inspection reports, recordings, and databases of 702,000 feet of gravity system in accordance with NASSCO PACP standards as part of the City's Sewer Master Plan.
- ***CCTV Inspection for the City of Palos Verdes Estates*** – System cleaning and development of inspection reports, recordings, and databases of 329,000 feet of gravity system in accordance with NASSCO PACP standards as part of the City's Sewer Master Plan.
- ***CCTV Inspection for the City of Cypress*** – System cleaning and development of inspection reports, recordings, and databases of 100,000 feet of gravity system in accordance with NASSCO PACP standards as part of the City's Sewer Master Plan.
- ***CCTV Inspection for the City of Cerritos*** – System cleaning and development of inspection reports, recordings, and databases of 250,000 feet of gravity system in accordance with NASSCO PACP standards as part of the City's annual maintenance program.
- ***CCTV Inspection for the City of Norwalk*** – System cleaning and development of inspection reports, recordings, and databases of 475,000 feet of gravity system in accordance with NASSCO PACP standards as part of the City's maintenance program.
- ***CCTV Inspection for the City of San Diego Metropolitan Wastewater Department*** – System cleaning and development of inspection reports, recordings, and databases of 400,000 feet of gravity system in accordance with NASSCO PACP standards as part of the City's WDR compliance.
- ***CCTV Inspection for the Midway City Sanitary District*** – System cleaning and development of inspection reports, recordings, and databases of 750,000 feet of gravity system in accordance with NASSCO PACP standards as part of the District's Sewer Master Plan.

DAVID KUAN, P.E., R.T.E

TRAFFIC CONTROL ENGINEERING

Role: Traffic Control

PROFESSIONAL REGISTRATION

Traffic Engineering, California 1986 RTE1429
Civil Engineering, California 1997, C57387

EDUCATION

Master of Science, Civil Engineering - University of California, Berkeley
Bachelor of Arts, Civil Engineering - University of California, Irvine

Mr. Kuan is President of the firm Traffic Control Engineering, Inc. which was organized in 1989. During the years with Traffic Control Engineering, Inc.,

Prior to organizing his own consulting firm, he served the City of Orange as the City Transportation Engineer from 1984 to 1989. During his tenure with the City, he conducted a wide variety of traffic and transportation projects, both at local and regional levels. He was directly in charge of developing the City's General Plan Circulation Element as well as a new circulation master plan for a 7100 acre planning area. He later gained new responsibility of serving the City's Transportation Planning Committee, responsible for a broad range of traffic and transportation projects.

Mr. Kuan was also the City of Orange's Transportation Demand Management Coordinator, responsible for formulating and implementing traffic reduction measures for the City and major employers in the City. Mr. Kuan has worked on numerous state and federal grants and funding programs, including OTS, HES, OCUTT, FETSIM, AHFP, and FAU. While with the City of Orange, Mr. Kuan had a close working relationship with Caltrans and other governmental transportation agencies including OCTA, OCTD, Transportation Corridor Agency, etc.. He represented the City working with Caltrans in developing I-5 widening/interchange alternatives, Has also served on the Rt. 55 Car-Pool Lane Technical Advisory Committee. Mr. Kuan's experience and familiarity with various governmental agencies is a valuable asset in providing expedient project approval process.

Prior to 1984, Mr. Kuan was engaged by the firm of PRC Voorhees. During the years he was with that firm, he was responsible for numerous traffic/transportation projects including impact analysis, access studies, parking studies, traffic signal coordination, circulation master plan and general plan throughout Southern California.

Mr. David Kuan holds a Master's Degree in Transportation Engineering from the University of California at Berkeley, served as Chairperson of Orange County Traffic Engineering Council (OCTEC), is a member of the Institute of Transportation Engineer (ITE), WATCH committee and also registered as a Professional Engineer (Traffic and Civil) in the State of California.

Mr. Kuan has conducted traffic engineering designs for numerous major construction projects as follows:

- Harbor Area Recycled Water Conveyance Pipeline for West Basin Municipal Water District
- SR 243 - Strawberry Creek Bridge Improvement
- SR 55 - HOV Lane Widening Project
- SR 39 - Beach Blvd. Super Street Project
- Los Angeles County Jail Expansion Project
- City of Los Angeles Figueroa St. Sewer Relief Project
- Mobil Oil M-70 West Coast Pipeline Replacement Project
- Orange County Water District Green Acre Project
- North Outfall Sewer Rehab. in Vista Del Mar in LA
- Figueroa St. Sewer Relief Project in L.A
- NCOS-NOS Maze Rehab. for City of Los Angeles
- Halladay St. Sewer Rehab. in City of Santa Ana
- LA County Sanitation Moneta Extension Trunk Sewer in Gardena
- LA County Sanitation Anaheim St. Trunk Sewer in Long Beach
- Manchester Ave. Relief Trunk Sewer in City of Los Angeles
- Irvine Ave. Water Main Replacement for Newport Beach
- South Coast Water District Annual Valve Replacement in Dana Point
- Irvine Ranch Water District Turtle Rock Pressure Improvement in Irvine
- South Coast Water District Water Importation Project in of San Clemente, Dana Point and San Juan Capistrano
- Badillo-Grand Transmission Water Line for Walnut Valley Water Dist. in Cities of Walnut, West Covina, Covina and Los Angeles County
- City of Escondido Citywide Reclaimed Water Distribution System
- Verdugo Canyon Reclaimed Water in City of Glendale
- LA Water & Power Council St. Area Cement Lining Project and 7th St. Cement Lining Project



Section 5 - Work Hour Estimate

AKM's proposed project staff hour is presented on the following page. Our rate schedule and fee is presented in separate envelope, as requested in the RFP. It has been prepared to properly address the project scope of work contained in our proposal. The proposed fee reflects our understanding of the scope of work based upon the District's Request for Proposal, and information provided. We will be happy to refine the scope of work as desired by the Garden Grove Sanitary District, and make changes to the fee proposal to correspond to the final scope of work.



STAFF HOUR & FEE ESTIMATE Garden Grove Sanitary District 2021 Sewer System Rehabilitation Phase II June 4, 2021						
	Project Manager	Project Engineer	Associate Engineer	QA/QC	Office Support	Total Hours
Task 1 - Project Management						
Project Management	16	12				28
Task 2 - Meetings						
Meetings	8	8		4		20
Task 3 - Data Collection and Review						
Data Collection and Review	4	8	8			20
Task 4 - Preparation of the Condition Assessment						
A ¹ CCTV Inspection of 500,000 feet of Sewer	8	16	16			40
B Compile, Review, and Prepare Inspection Reports	4	12	40			56
C-E Review CCTV Recordings for Significant Defect Locations and Update CCTV Inspection Data	16	24	260	4		304
F-H Rehabilitation Recommendations	16	44	140	12		212
I Prepare Sewer System Rehabilitation Plan - Phase II Report	16	24	80	12	24	156
Total Hours	104	172	544	32	24	836
Task 5 - Traffic Control Design (Optional)						
Traffic Control Design (Optional)	16	24				40

¹ The total length shown in the GIS plus 10%



Section 6 - Project Team Experience

AKM Consulting Engineers has a long and distinguished track record (over 30 years) of providing quality engineering services, especially with respect to planning and design of wastewater, potable water, and recycled water systems. Specific examples of AKM's related experience are listed below. These projects are representative of the types of work that AKM staff members have completed and are similar in nature to those projects proposed by the City.

	<p>SEWER MASTER REHABILITATION PLAN, PHASE I (2018) GARDEN GROVE SANITARY DISTRICT - 13802 NEWHOPE ST, GARDEN GROVE, CA 92843 CONTACT: MR. BRENT HAYES, SANITATION SUPERVISOR (714) 741-5976 BRENTH@CH.CI.GARDEN-GROVE.CA.US AKM STAFF: Z. KAYIRAN, (PIC), D. PAY (PM), H. HERRERA (CONDITION ASSESSMENT)</p>
<p>Garden Grove Sanitary District's wastewater collection system consists of 1,698,223 feet (321.6 miles) of gravity sewers ranging in size from 4-inch to 24-inch in diameter, and three (3) pump stations. It serves most of the areas within the City of Garden Grove boundaries, as well as portions of the Cities of Anaheim, Stanton, and Orange, and unincorporated Orange County territories, and conveys the tributary wastewater flows to Orange County Sanitation District trunk and interceptor sewers. The service area population is 180,000. AKM Consulting Engineers has been performing the sewer system planning work for the Garden Grove Sanitary District since 1999. AKM completed the District's System Evaluation and Capacity Assurance Plan, and the Operation and Maintenance Plan of the SSMP, and recommended replacement, repair, and rehabilitation project. The Operation and Maintenance Plan included CCTV inspection and condition assessment of 1,800,000 feet of gravity sewers, and three sewer pump stations, and preparation of the Sewer System Rehabilitation Plan.</p> <p>As a follow up to the initial inspections, AKM and Empire Pipe Cleaning and Equipment, Inc. conducted CCTV inspection of the first 300,000 feet of gravity sewers, conducted condition assessment, and provided a new Sewer System Rehabilitation Plan in 2018. The plan included detailed repair, rehabilitation, and replacement projects.</p>	
	<p>SEWER SYSTEM MANAGEMENT PLAN; MASTER PLAN (2003, 2005, 2008, 2020) CITY OF CYPRESS – 5275 ORANGE AVENUE, CYPRESS, CA 90630 CONTACT: MR. DOUG DANCs, PUBLIC WORKS DIRECTOR (714) 229-6744 DDANCs@CI.CYPRESS.CA.US AKM STAFF: Z. KAYIRAN (PM), D. PAY (PE), M. YING (HYDRAULIC ANALYSIS), J. NITTA (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), J. LOAGUE (QA/QC)</p>
<p>AKM prepared the original Master Plan in 2003, and completed updates in 2005 and 2008 in accordance with the Statewide Waste Discharge Requirements (WDR). The scope of work included collection of sewer system data, preparation of a sewer GIS, a complete calibrated hydraulic model; flow monitoring for the purpose of developing unit wastewater flow factors, peaking criteria, model calibration and a detailed I&I study; condition assessment of 535,000 feet of pipe; capacity evaluation of the system with the existing and ultimate land use in the service area; evaluation of the condition and capacity of the City's sewer pump station; and formulation of a prioritized 10-year capital improvement program. AKM also prepared the City's Design and Performance Provisions.</p> <p>AKM is currently finalizing the City's SSMP documents update, as required by the WDR. This project included the development of an SSMP audit, SSMP update, and development of comprehensive Sewer Overflow Emergency Response Plan.</p>	
	<p>SEWER SYSTEM MASTER PLAN, RATE STUDY, AND SSMP UPDATE (2000, 2008, 2018) CITY OF SEAL BEACH – 211 8TH STREET, SEAL BEACH, CA 90740 CONTACT: MR. DARRICK ESCOBEDO, WATER SERVICES SUPERVISOR (562) 431-2527 x1409 AKM STAFF: Z. KAYIRAN (PM), D. PAY (PE), J. NITTA (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), J. LOAGUE (QA/QC)</p>
<p>AKM Consulting Engineers has been providing sewer planning work for the City of Seal Beach since 1998. AKM completed the system inventory, developed a hydraulic model of the system, and completed the Sewer Master Plan in 1999. Sewer Master Plan updates were performed in 2005 and 2018. Unit flow factors for various land uses were developed from flow monitoring. Water meter records for high water users were obtained for accurate model development. The model was calibrated with the dry weather flows and adjusted for full occupancy of the tributary areas based upon General Plan land uses. AKM developed criteria for the gravity system, as well as for the pump</p>	



stations, and analyzed the capacity of the existing system. Condition of the system was assessed based upon field reviews of existing pump stations, sample manholes and review of CCTV recordings/reports that covered over 95 percent of the system. A 15-year capital improvement program, as well as a subsequent system upgrade/replacement program were established. AKM made recommendations on system operations and maintenance, and recommended appropriate staffing levels to carry out these tasks.



CONDITION ASSESSMENT AND CAPACITY EVALUATION (2018) Los Angeles Sanitation (LASAN) - 2714 Media Center Drive, Los Angeles, CA 90065 AKM Staff: J. Nitta (PE), M. Sangare (PE)

Since 2003, AKM has been in contract with the City of Los Angeles Bureau of Sanitation assisting with condition assessment and capacity evaluation as part of the City's effort to comply with the terms of a settlement agreement resulting from a third party lawsuit. AKM established procedures for developing hydraulic models of Los Angeles' over 230 secondary systems by preparing the first such model for the City utilizing Innovyze InfoSewer software. Currently, this assignment has been extended from 2006 to the present, and AKM will continue to serve the Bureau of Sanitation on these planning tasks.



SEWER MASTER PLAN AND SEPTIC TO SEWER CONVERSION STUDY (2018, 2019) EAST ORANGE COUNTY WATER DISTRICT - 185 N. McPHERSON RD, ORANGE, CA 92869 CONTACT: LISA OHLUND, FORMER GENERAL MANAGER (949) 842-3351 LOHLUND@ME.COM AKM STAFF: Z. KAYIRAN (PIC), D. PAY (PM), J. NITTA (PE), H. HERRERA (CONDITION ASSESSMENT)

East Orange County Water District provides sewer service to an area of 10,000 acres and 18,000 customers. The gravity sewer system consists of 171 miles of pipe, ranging in size from 4-inches to 27-inches.

The scope of work included the development of a calibrated hydraulic model, development of system evaluation criteria, determination of future development areas and loads, hydraulic capacity analysis, condition assessment of pipes and 500 manholes, and a risk analysis to prioritize gravity pipes and develop recommendations for future inspection, rehabilitation, and/or replacement work.



The gravity sewer risk analysis was conducted utilizing Innovyze's InfoMaster program (InfoAsset Planner), an ArcGIS based asset integrity management and capital planning software package. AKM compiled 7 years of historical CCTV data and used it along with the hydraulic model results to develop a likelihood of failure (LoF) for each pipe. The proximity to waterways and maximum rate of flow were utilized to develop the consequence of failure (CoF) for each pipe. The LoF and CoF were then used to assign each pipe a risk category/priority and a decision tree was created to also assign each pipe with an associated action item for future inspection and/or maintenance.

It is estimated that there are about 500 parcels in the EOCWD service area that currently have septic systems in place. In the future, EOCWD may have to provide sewer service to these parcels. AKM completed a Septic to Sewer Connection Study. The study identified the location of septic systems in the service area and then planned out how sewer service could be provided to these properties in the future. This may involve the construction of gravity sewers, grinder pumps at individual properties discharging to common force mains, lift stations, and force mains. It also may require easements to be obtained and/or other properties to be purchased. Cost estimates were developed for proposed sewer facilities as well as for the conversion of septic systems and connection to EOCWD's sewer system.



SEWER MASTER PLAN (2017)

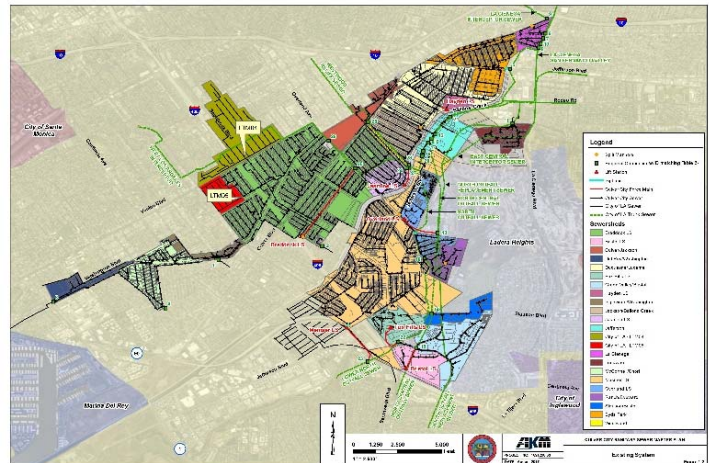
CITY OF CULVER CITY - 9770 CULVER BLVD, CULVER CITY, CA 90232

CONTACT: MATE GASPAR, ENGINEERING SERVICES MANAGER (310) 253-5602

MATE.GASPAR@CULVERCITY.ORG

AKM STAFF: Z. KAYIRAN (PIC), D. PAY (PM), J. NITTA (PE), J. LOAGUE (PE), H. HERRERA (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT)

The City of Culver City's existing sewage collection system is made up of a network of gravity sewers and seven (7) sewer lift stations. The gravity system consists of approximately 87 miles (457,617 feet) of pipe with sizes ranging from 4-inches to 24-inches in diameter, and 2,000 manholes. Sewage from a portion of the City of Los Angeles territories enters Culver City's sewer system. This sewage, along with all of the sewage generated within Culver City's service area, is transported to one of the City of Los Angeles Outfall Sewers for further conveyance to the Hyperion Water Reclamation Plant. The City is under contract with the City of Los Angeles to treat an average of 6.7 mgd. At the time of the Master Plan study, the total sewage generation within the City's service area was estimated at 3.77 mgd.



In 2016, Culver City had an estimated resident population of 40,448, and a daytime population estimated at about 100,000 due to the industries located within the City. The City encompasses approximately 5 square miles of residential, commercial, and industrial land.

The scope of work of the Sewer Master Plan included the development of a calibrated hydraulic model, development of system evaluation criteria, hydraulic capacity analysis, assessment of lift stations, evaluation of the SCADA system, and the development of a comprehensive capital improvement program. The City previously conducted CCTV inspections of its gravity sewer system. Inspections were reviewed by City staff, who then assessed the condition of the pipes and planned rehabilitation and replacement projects. AKM inspected four (4) of the City owned lift stations and made detailed improvement recommendations for these facilities. The City opted not to inspect the remaining lift stations due to the fact that they were planned to be abandoned or replaced in the near future.

AKM completed a preliminary evaluation of the City's SCADA system as a part of the Master Plan work. It was found that the City's SCADA system had numerous limitations and restrictions that did not allow information to be conveyed to operators in an easy and understandable way. It was concluded that the data monitored and collected from four different systems should be integrated into a single software platform. A detailed equipment study was recommended for each lift station and of the four existing SCADA systems.



SEWER MASTER PLAN (2017)

CITY OF CLAREMONT - 207 HARVARD AVE, CLAREMONT, CA 91711

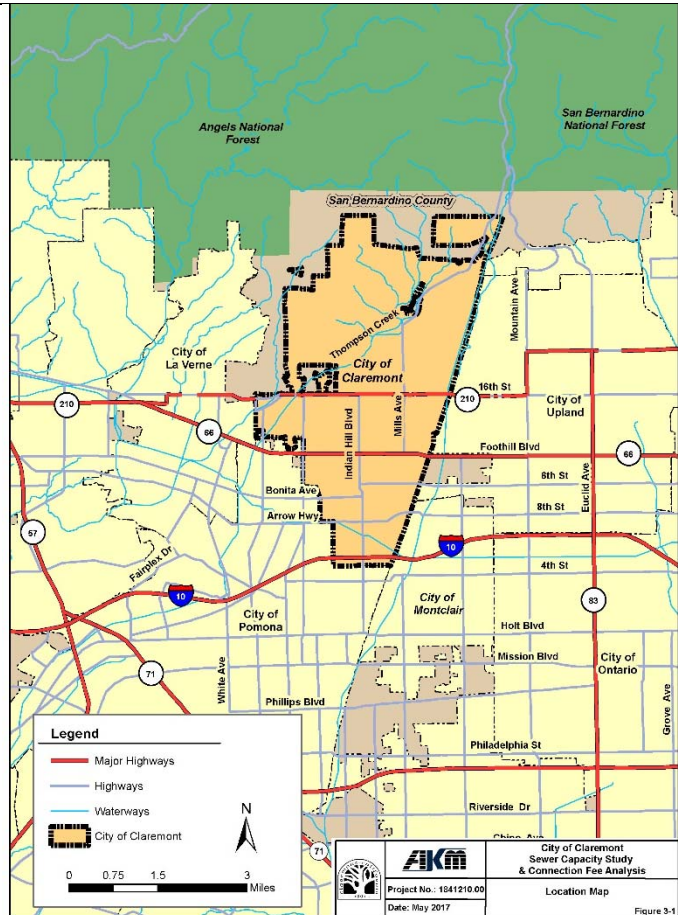
CONTACT: VINCENT RAMOS, ASSOCIATE ENGINEER (909) 399-5395 VRAMOS@CI.CLAREMONT.CA.US

AKM STAFF: Z. KAYIRAN (PIC), D. PAY (PM), J. NITTA (PE), H. HERRERA (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT)

The City of Claremont's existing wastewater collection system service area is approximately 7,484 acres. The system is made up of 638,048 feet of gravity pipe, ranging in size from 4-inches to 18-inches. The system also includes one pump station and 374 feet of 6-inch ACP force main. There is approximately 2,643 manholes and cleanouts. All of the wastewater collected by the City is transported to one of the County Sanitation Districts of Los Angeles County's (CSDL) trunk sewers. The wastewater eventually is treated at the CSDL San Jose Creek Water Reclamation Plant (SJCWRP).

The objective of this study was to evaluate the capacity of the City's sewer collection system and provide a framework for undertaking the construction of new and replacement facilities for serving the wastewater collection needs in an efficient and cost effective manner, as well as evaluate and update the sewer connection fees. AKM verified sewer system geometry/mapping, delineated tributary areas, conducted flow monitoring, developed sewage unit flow factors and peaking relationships, and ultimately developed a calibrated hydraulic model. The model was then used to evaluate the capacity of the collection system pipes and identify existing and future capacity deficiencies. Capital improvement project recommendations with cost estimates were included in the Master Plan document.

The total buy-in cost was calculated based upon the replacement value of the existing facilities and the recommended improvement project costs for the next 5 years. Sewer connection fees for an equivalent residential unit (ERU) was then determined based upon the ratio of the buy-in cost and the total number of ERUs.



SEWER MASTER PLAN (2016)

IRVINE RANCH WATER DISTRICT - 15600 SAND CANYON AVE, IRVINE, CA 92618

CONTACT: MR. BARKEV MESERLIAN, CURRENTLY EXECUTIVE MANAGER OF ENGINEERING AND OPERATIONS FOR WEST BASIN MUNICIPAL WATER DISTRICT (310) 660-6223 BARKEVM@WESTBASIN.ORG

AKM STAFF: Z. KAYIRAN (PIC), D. PAY (PM), J. NITTA (PE), J. LOAGUE (PE), H. HERRERA (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT)

Irvine Ranch Water District provides sewer service to 97,000 service connections and a daytime population of approximately 530,000 people. The sewer collection system service area is approximately 92.5 square miles and includes portions or all of the Cities of Irvine, Lake Forest, Tustin, Newport Beach, and Orange and unincorporated Orange County. The sewer collection system is made up of 1,009 miles of gravity sewer mains, 2 water recycling plants, 23 lift stations and associated force mains, 19 siphons, and 7 diversion structures. At the time of the study, approximately 20.3 mgd and 3.4 mgd of sewage was being conveyed to Michelson Water Recycling Plant and Los Alisos Water Recycling Plant, respectively.

The scope of services for the Master Plan consisted of a flow monitoring plan; development of sewer flow generation factors; update of sewer flow projections; development of existing and future dynamic hydraulic models; update of sewer system design and performance criteria; existing and future system capacity analyses; condition assessment of 11 lift stations, diversion structures, and siphons; development of prioritized capital improvement program; and a reliability and redundancy analysis.

The hydraulic simulations were performed utilizing **Innovyze's InfoSWMM**, which is a fully dynamic geospatial wastewater and stormwater modeling and management software application. It is a fully ArcGIS integrated program that is capable of calculating backwater effects throughout a collection system.





Field reviews of 11 lift stations, 19 siphons, and 7 diversion structures were conducted. Summary assessment reports with detailed rehabilitation and replacement recommendations were developed for each facility.

InfoMaster, an ArcGIS based asset integrity management and capital planning software package, was utilized to conduct a risk and reliability analysis of IRWD's system. It was used to assist in characterizing the likelihood and consequence of failure for individual pipes in the network. Likelihood of failure and consequence of failure elements were selected and weighted. The overall risk associated with a failure event is a function of the likelihood of failure and consequence of failure. A risk matrix was utilized to develop a gravity system risk profile. A decision tree was created and used to formulate recommended action items.



WDR COMPLIANCE (SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN, REHABILITATION AND REPLACEMENT PROGRAM, O&M PROGRAM, AND DESIGN AND PERFORMANCE PROVISIONS) (2015)

CITY OF REDONDO BEACH - 415 DIAMOND STREET, REDONDO BEACH, CA 90277

CONTACT: MS. GERALDINE TRIVEDI ASSOCIATE CIVIL ENGINEER (310) 318-0661 X2036 GERALDINE.TRIVEDI@REDONDO.ORG
AKM STAFF: Z. KAYIRAN (PM), D. PAY (PE), J. NITTA (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), J. LOAGUE (QA/QC)

The City of Redondo Beach's wastewater collection system serves a tributary area of about 6.4 square miles, and a population of about 69,000. The gravity system consists of 107.4 miles (566,854 ft) of pipe and 2,482 manholes and cleanouts. The system also includes sixteen (16) pump stations and 6,578 feet of associated forcemains. All sewage generated within the City (5.99 mgd average dry weather flow) is conveyed to the Los Angeles County Sanitation District system, including two small areas (8 acres and 11 acres) that drain through the City of Torrance system.

The scope of work included preparation of a System Evaluation and Capacity Assurance Plan and Rehabilitation and Replacement Program. This work entailed the development of a calibrated hydraulic model in InfoSewer utilizing the City's existing sewer GIS data; flow monitoring and review of water use information for the purpose of developing unit wastewater flow factors, peaking criteria, and model calibration; condition assessment of approximately 495,000 feet of sewer pipe previously CCTV inspected by the City; capacity evaluation of the system with the existing and future land use in the service area; evaluation of the condition and capacity of the City's 16 sewer pump stations; development of recommendations to improve the operation and maintenance program; development of a root control program; and formulation of a prioritized capital improvement program. At this time, AKM also completed Sewer Design and Performance Provisions for the City.

AKM prepared the City's Wastewater System Operation and Maintenance Program document to comply with the Statewide Waste Discharge Requirements. This document contained recommendations for preventative maintenance activities for the collection system and pump stations, recommendations for pipe and manhole inspections with inspection schedules, and recommendations for a root control program. In 2015, AKM completed CCTV inspection of 98% of the entire system (556,100 feet), assessed its condition, and provided rehabilitation and repair project design services. We also performed a third party review of the City's sewer division's organization structure and workflow, and identified the City's strengths and opportunities. Recommendations were made to increase their operation and maintenance staff.



SEWER MASTER PLAN (2014)

CITY OF MANHATTAN BEACH - 3621 BELL AVENUE, MANHATTAN BEACH, CA 90266

CONTACT: MR. JUSTIN GERVAIS, WASTEWATER SUPERVISOR (310) 802-5320 JGERVAIS@CITYMB.INFO

AKM STAFF: Z. KAYIRAN (PM), D. PAY (PE), J. NITTA (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), J. LOAGUE (QA/QC)

The City of Manhattan Beach has a population of 36,718. The City provides sewer service to approximately 3.9 square miles of land located within its corporate boundaries through a system that consists of 81.6 miles (430,784 ft) of pipe and 2,086 manholes and cleanouts. The system also includes eight (8) pump stations and 5,114 feet of associated forcemains.



The scope of services for the Master Plan included collection of sewer system data, preparation of the sewer GIS, review of water use records and flow monitoring for purposes of developing unit wastewater flow factors, peaking criteria, and model calibration; development of a calibrated system hydraulic model, capacity analysis, service criteria; CCTV inspection and condition assessment of 228,000 feet of pipe and 1,075 manholes, and development of a prioritized CIP with cost estimates. As part of this project, AKM evaluated the condition and capacity of the eight (8) sewer pump stations. AKM also prepared the City's stand-alone FOG Control Program document to comply with the SWRCB WDR.



AKM continued with the condition assessment work for the City to in 2010, 2011, and 2012, to complete CCTV inspections and evaluations of its entire system. AKM assessed the conditions of these sewers and manholes and made recommendations for facility improvements.

In 2015, AKM updated the City's emergency overflow response plan, which included site-specific operating procedures to respond to sewer system overflows at each of the City's eight (8) pump stations and/or forcemain failure. AKM developed weekday and weekend diurnal curves for each pump station based upon SCADA data for use in developing the response recommendations. AKM also developed procedures to respond to a SSO that extends to the Los Angeles County Department of Public Works storm water pump stations, and detention basins.



SEWER MASTER PLAN, AND SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN UPDATE (2004, 2015)

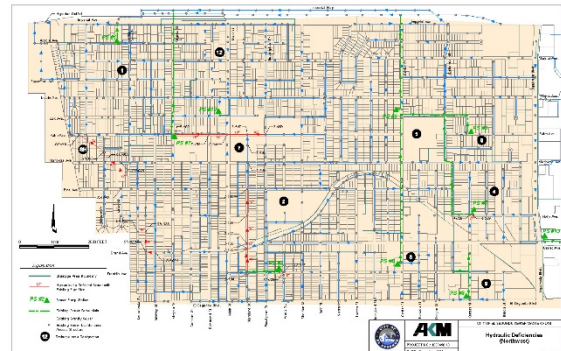
CITY OF EL SEGUNDO - 350 MAIN ST, EL SEGUNDO, CA 90245

CONTACT: MR. LIFAN XU PRINCIPAL CIVIL ENGINEER (310) 524-2368 LXU@ELSEGUNDO.ORG

AKM STAFF: Z. KAYIRAN (PIC), D. PAY (PM), J. NITTA (PE), J. LOAGUE (QA/QC), H. HERRERA (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT)

AKM completed the City of El Segundo's Sewer Master Plan in 2002, and completed the update to the System Evaluation and Capacity Assurance Plan in 2014.

The City encompasses approximately 5.5 square miles of residential, commercial, and industrial land. The nighttime population is approximately 17,000, while the daytime population is over 85,000. The wastewater collection system was made up of a network of gravity sewers and ten (10) sewer pump stations. The gravity system consists of 50 miles of pipe and 1,038 maintenance access structures. The portion of the City west of Sepulveda Boulevard drains to the City of Los Angeles facilities at two locations, for treatment at the Hyperion Treatment Plant. The areas east of Sepulveda Boulevard drain to the Los Angeles County Sanitation District facilities.



The scope of services for the Master Plan consisted of a comprehensive condition assessment, as well as capacity evaluation of the entire system. Information for the system hydraulic model and inventory were developed from record drawings of the existing facilities. The City had the portion of its system west of Sepulveda Boulevard (761 segments of gravity sewer with a total length of 192,300 feet), which drains to the Hyperion Plant, CCTV inspected prior to the commencement of the Master Plan study. AKM reviewed the CCTV summary reports, and representative recordings to determine the condition of the collection system. AKM inspected nine of the ten sewer pump stations (AKM had designed the improvements to Pump Station 13 in 1999), as part of the condition assessment. The results of this effort were documented in a database for subsequent use in prioritizing the improvement projects.

AKM prepared a hydraulic model of the entire system, and evaluated its hydraulic capacity. As part of this effort, AKM procured flow monitoring at key locations for developing unit flow factors, peaking relationships, and model calibration. As a supplement to the project, AKM completed the sewer GIS.

AKM developed a capital improvement program with alternative implementation schedules, and presented the final study in a Master Plan report. Subsequently, AKM conducted a financial study, worked with a Council established advisory committee, and established a sewer enterprise fund as well as sewer service charges to fully fund the CIP, operation and maintenance, and compliance with the upcoming regulations.



SEWER SYSTEM MANAGEMENT PLAN AND FINANCIAL ANALYSIS (2013)

CAMARILLO SANITARY DISTRICT – 601 CARMEN DRIVE, CAMARILLO, CA 93010

CONTACT: MS. LUCIA MCGOVERN, DEPUTY DIRECTOR OR PUBLIC WORKS (805) 388-5334

LMCGOVERN@CI.CAMARILLO.CA.US

AKM STAFF: Z. KAYIRAN (PM), D. PAY (PE), J. NITTA (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), J. LOAGUE (QA/QC)

AKM completed nearly all elements of the District's Sewer System Management Plan, including the City's Goals, Organization, Legal Authority, Operation and Maintenance Program, Design and Performance Provisions, FOG Control Program, System Evaluation and Capacity Assurance Plan, and Communications Program; and updated the Overflow Emergency Response Plan. As required by the SWRCB WDR, AKM conducted SSMP Audits for the District in 2011 and 2013. The System Evaluation and Capacity Assurance Plan was based on the existing GIS, reviewed by AKM, and updated to reflect the missing information. The model was calibrated based on extensive flow monitoring and water meter data tied to parcels. As part of this project, AKM evaluated the condition and capacity of the four sewer pump stations. A prioritized list of improvements was prepared for implementation. AKM later designed the improvements to Pump Stations No.6, and No.2, which had recurring ragging problems.



SEWER SYSTEM MANAGEMENT PLAN AND RATE STUDY (2009, 2012)

CITY OF NORWALK – 12700 NORWALK BOULEVARD, NORWALK, CA 90650

CONTACT: MS. ADRIANA FIGUEROA, ADMINISTRATIVE SERVICES MANAGER (Currently Public Works Director for the City of Paramount 562-220-2020)

AKM STAFF: Z. KAYIRAN (PM), D. PAY (PE), J. NITTA (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), J. LOAGUE (QA/QC)

The City of Norwalk sewer system serves the area consisting of all lands within its corporate boundaries (9.35 square miles) as well as a portion of the City of Santa Fe Springs (148 acres) at the northern and southeastern abutment to the City. The City provides sewer service to a population of approximately 109,700. The existing sewer collection system consists of 865,000 feet (164 miles) of gravity sewers ranging in size from 6-inches to 18-inches in diameter, including 16 siphons. The City also owns three (3) lift stations with approximately 162 feet of force main.



AKM completed all elements of the City's Sewer System Management Plan, including the Goals, Organization, Legal Authority, Operation and Maintenance Program, Design and Performance Provisions, FOG Control Program, Overflow Emergency Response Plan, System Evaluation and Capacity Assurance Plan, and Communications Program.

For the System Evaluation and Capacity Assurance Plan, AKM prepared the sewer GIS, which includes all system pipes, from as-built plans. The geometric model was developed from the GIS in H2OMap Sewer. Unit flow factors and peaking criteria were developed based on low demand period water use records and flow monitoring. Model was calibrated utilizing the flow monitoring information. Hydraulic analyses indicated minimal capacity related deficiencies.

For the Operation and Maintenance Program, AKM prepared a map of the storm drain system in addition to the sewer system, which was then used in preparation of the Overflow Emergency Response Plan; assessed the condition of 100,000 feet of the system through reviews of the CCTV inspection records and the pump stations; prepared the Rehabilitation and Replacement Program, including a prioritized CIP; provided operation and maintenance recommendations, including training of the staff.

AKM conducted a financial evaluation of the Sewer Utility in 2012, and recommended a rate structure to adequately fund the proper operation and maintenance of the system, implement the CIP, and comply with regulatory compliance obligations. AKM assisted with preparation of the presentation materials, and participated in the study sessions and council meetings to support the City staff.



WATER, SEWER, AND RECYCLED WATER MASTER PLAN UPDATES (2005, 2009)

CITY OF CORONA – 755 CORPORATION YARD WAY, CORONA, CA 92880

CONTACT: MR. TOM MOODY, GENERAL MANAGER (951) 736-2477 TOM.MOODY@CI.CORONA.CA.US

AKM STAFF: Z. KAYIRAN (PM), D. PAY (PE), J. NITTA (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), G. HOBSON (QA/QC)

AKM Consulting Engineers prepared the City of Corona's water, sewer, and recycled water master plan updates. The City serves 42,000 customers with an average demand of 40,000 acre-feet per year (49,500 acre-feet per year ultimate). The demand is supplied through potable groundwater, a 15 mgd desalter that treats groundwater for nitrates and TDS, imported potable water from the MWD of Southern California, two potable treatment plants that treat raw water from MWD, three wastewater reclamation plants, and a recycled water system.

AKM prepared a users manual and trained the City staff in construction of the model, developing scenarios, conducting analyses used for the Master Plan, creating new scenarios, and adding new facilities to the model.

The total estimated existing average demand for the recycled water system is 3,570 AFY, which represents approximately 25% of the wastewater treated. The existing wastewater system consists of approximately 368 miles of pipe ranging in size from 6 to 42 inches; and the recycled water system consists of 195,000 feet of 4 to 24 inch pipe, with 121,500 feet of pipe is expected to be added to the recycled water system in the future to serve the identified future customers.



SEWER MASTER PLAN AND WDR COMPLIANCE, FINANCIAL EVALUATION, AND RATE STUDY (2001, 2009)

CITY OF BREA – 1 CIVIC CENTER CIRCLE, BREA, CA 92821

AKM STAFF: Z. KAYIRAN (PM), D. PAY (PE), J. NITTA (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), J. LOAGUE (QA/QC)

AKM prepared the original Sewer Master Plan in 2003, and updates in 2005 and 2009 in accordance with WDRs. The scope of work included preparation of a complete hydraulic model and GIS of the collection system, review of CCTV records to assess the condition of the existing system (580,000 feet); flow monitoring for the purpose of developing unit wastewater flow factors, peaking criteria, model calibration and a detailed I&I study; and Communication Program elements of the Sewer System Management Plan.

AKM developed recommendations for new connection fees and a low period water use (wastewater generation) based rate structure based upon the capital improvement and replacement program formulated by the Master Plan in accordance with GASB 34 and Prop 218. AKM conducted a cost of service analysis to determine the appropriate rates for each customer class and meter size, in accordance with Proposition 218. The analysis also included evaluating a pay-as-you-go rate structure versus issuing bonded indebtedness. Ultimately, a pay-as-you-go rate structure was recommended. AKM compared the proposed rates to the existing rate structure, and provided recommendations for a rate increase for implementing the Capital Improvement Program within an eight-year schedule, and the recommended facility replacement program as predicted by the study.



SEWER MASTER PLAN AND REHABILITATION & REPLACEMENT PROGRAM (2004-2007)

CITY OF ALHAMBRA – 111 SOUTH FIRST STREET, ALHAMBRA, CA 91801

CONTACT: MR. DENNIS AHLEN, DEPUTY DIRECTOR OF UTILITIES (626) 570-3274

DAHLEN@CITYOFALHAMBRA.ORG

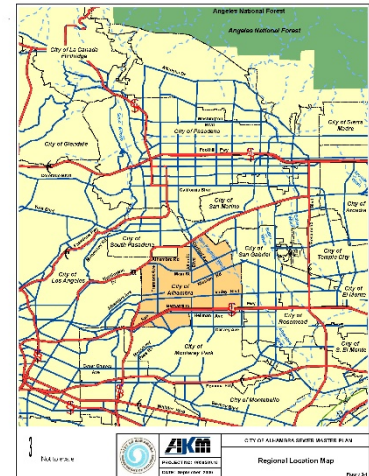
AKM STAFF: Z. KAYIRAN (PM), D. PAY (PE), M. YING (HYDRAULIC ANALYSIS), J. NITTA (HYDRAULIC ANALYSIS/CONDITION ASSESSMENT), J. LOAGUE (QA/QC)

The scope of services for the Master Plan included preparation of a sewer GIS, calibrated system hydraulic model, capacity analysis, a prioritized capital improvement program, and a financial/rate study. Also included in the scope of work was the evaluation of the condition and capacity of the City's seven pump stations. AKM developed the



City's Design and Performance Provisions, including the Standard Plans, and Design Standards for Sewer Facilities. AKM completed the Master Plan in 2007. As a subsequent phase, AKM completed the CCTV inspection and condition assessment of 666,000 feet of pipe and the Sewer System Rehabilitation Plan for the entire system, which was completed in 2009. AKM prepared plans, specifications, and estimates, and provided construction inspection services for the construction of the highest priority condition deficiency mitigation projects, consisting of spot repairs, pipe replacements, and manhole replacements.

AKM conducted a financial evaluation of the sewer enterprise, and developed a sewage generation based rate structure to fund the proper operation and maintenance of the sewer utility, implementing the recommended capital improvement plan, and regulatory compliance in accordance with GASB 34 and Prop 218. AKM presented the study and recommended rates to the City Council at several study sessions and a public hearing. The City approved a new rate, as well as increases for the next five years.



EMPIRE PIPE CLEANING AND EQUIPMENT EXPERIENCE

City of Norwalk (2010-2018)

12650 Imperial Highway, Norwalk CA. 90650

Contact: Julian Lee/ Utilities and Project Manager 562-929-5599 JLee@norwalkca.gov

Annual contract Value of \$325,000.00

Description: EPCE was the service provider for sewer mainline cleaning, lift station cleaning, and frequent trouble spot cleaning for the City of Norwalk. A five-year sewer master plan was developed and used POSM Collection Software for the CCTV Inspection. Plan was updated over a 5-year program. Cleaned 400,000 Feet of Sewer Line annually 2010 to 2017; CCTV Inspection of 250,000 lineal Feet per year 2012- to 2017.

City of La Palma (2010-Current)

7822 Walker Street, La Palma, CA. 90623

Contact: Carlo Nafarette / Public Works Director, City Engineer 714-690-3312 CarloN@cityoflapalma.org

Annual Contract Value \$125,000.00

Description: Citywide Sewer Cleaning, Quarterly Hot Spots, Manhole and CCTV Inspections

City of Cerritos (2010-Current)

18125 S. Bloomfield Ave., Cerritos CA. 90703

Contact: Mary Anne Wozniak 310-603-0220 mwozniak@cerritos.us

Annual Contract Value of \$265,000.00

Description: Annual Cleaning and maintenance of 320,000 Feet of Sewer Line Annual Sewer Cleaning, On Call, Trouble spots, and lift station services.

City of Hermosa Beach (2003-Current)

1315 Valley Drive, Hermosa Beach CA. 90254

Contact: Ells Freeman 310-629-1954 efreeman@hermosabch.org

Annual Contract Value of \$155,000.00

Description: Annual Cleaning and Video Inspection of Sewer Lines

City of Redondo Beach (2016-Current)

531 N Gertruda Avenue, Redondo Beach, CA. 90277

Contact: Mario Carranza / Public Works Supervisor 310-318-0686

Total Value of \$375,000.00

Description: Sewer Cleaning and Video Inspection of Sanitary Sewers 400,000 lineal feet / Citywide CCTV Inspection



Section 7 - References

AKM Consulting Engineers has completed, and/or is currently working on water resources assignments for the following clients. Contacts are listed for your reference to confirm the quality of our work and responsiveness provided by AKM. Other related project experience and descriptions are listed in Section 6 of our proposal.

References:

City of Cypress – 5275 Orange Avenue, Cypress, CA 90630

Contact: Doug Dancs, Community Development Director (714) 229-6744 ddancs@ci.cypress.ca.us

City of Redondo Beach – 415 Diamond Street, Redondo Beach, CA 90277

Contact: Geraldine Trivedi, Associate Civil Engineer (310) 318-0661 x2036 geraldine.trivedi@redondo.org

City of El Segundo – 350 Main Street, El Segundo, CA 90245

Contact: Floriza Rivera, Principal Engineer (310) 524-2361 frivera@elsegundo.org

City of Seal Beach – 211 Eighth Street, Seal Beach, CA 90740

Contact: David Spitz, Associate Civil Engineer (562) 431-2527 dspitz@sealbeachca.gov

East Orange County Water District – 185 N. McPherson Road, Orange, CA 92869

Contact: Lisa Ohlund, Former General Manager (949) 842-3351 lohlund@me.com

Garden Grove Sanitary District – 13802 Newhope Street, Garden Grove, CA 92843

Contact: Rebecca Li, Senior Civil Engineer (714) 714-5562 rebeccal@ggcity.org



Section 8 - Professional Fee Proposal

AKM's Fee Proposal is presented in a separate sealed envelope, as requested in the RFP. It has been prepared to properly address the project's detailed scope of services and assumptions contained in our proposal. Should the scope of services significantly change, we will be happy to discuss the necessary changes in services with the District and make any required adjustments to our budget and schedule.



AKM Consulting Engineers

553 Wald

Irvine, CA 92618

Telephone: 949.753.7333 Facsimile: 949.753.7320

www.akmce.com

June 4, 2021

Garden Grove Sanitary District

13802 Newhope Street

Garden Grove, California 92843

Attention: Ms. Liyan Jin, Associate Engineer

Subject: Proposal for 2021 Sewer System Rehabilitation Plan Phase II

Dear Ms. Jin:

AKM Consulting Engineers is pleased to submit this proposal for the subject project in response to your request for proposal dated April 8, 2021.

Sub-consultant services and out of pocket expenses (blue printing, reproduction and printing, delivery, etc.) will be invoiced at cost plus 10% in order to cover costs associated with administration, coordination and management of subcontractors. Mileage will be invoiced at \$0.65 per mile.

We appreciate the opportunity to submit this fee proposal and look forward to working with the Garden Grove Sanitary District on this most important and challenging project. If you have any questions or require any additional information, please do not hesitate to contact the undersigned.

Very truly yours,
AKM Consulting Engineers

A handwritten signature in blue ink, appearing to read 'Zeki Kayiran'.

Zeki Kayiran, PE
Principal



**AKM CONSULTING ENGINEERS
RATE SCHEDULE**

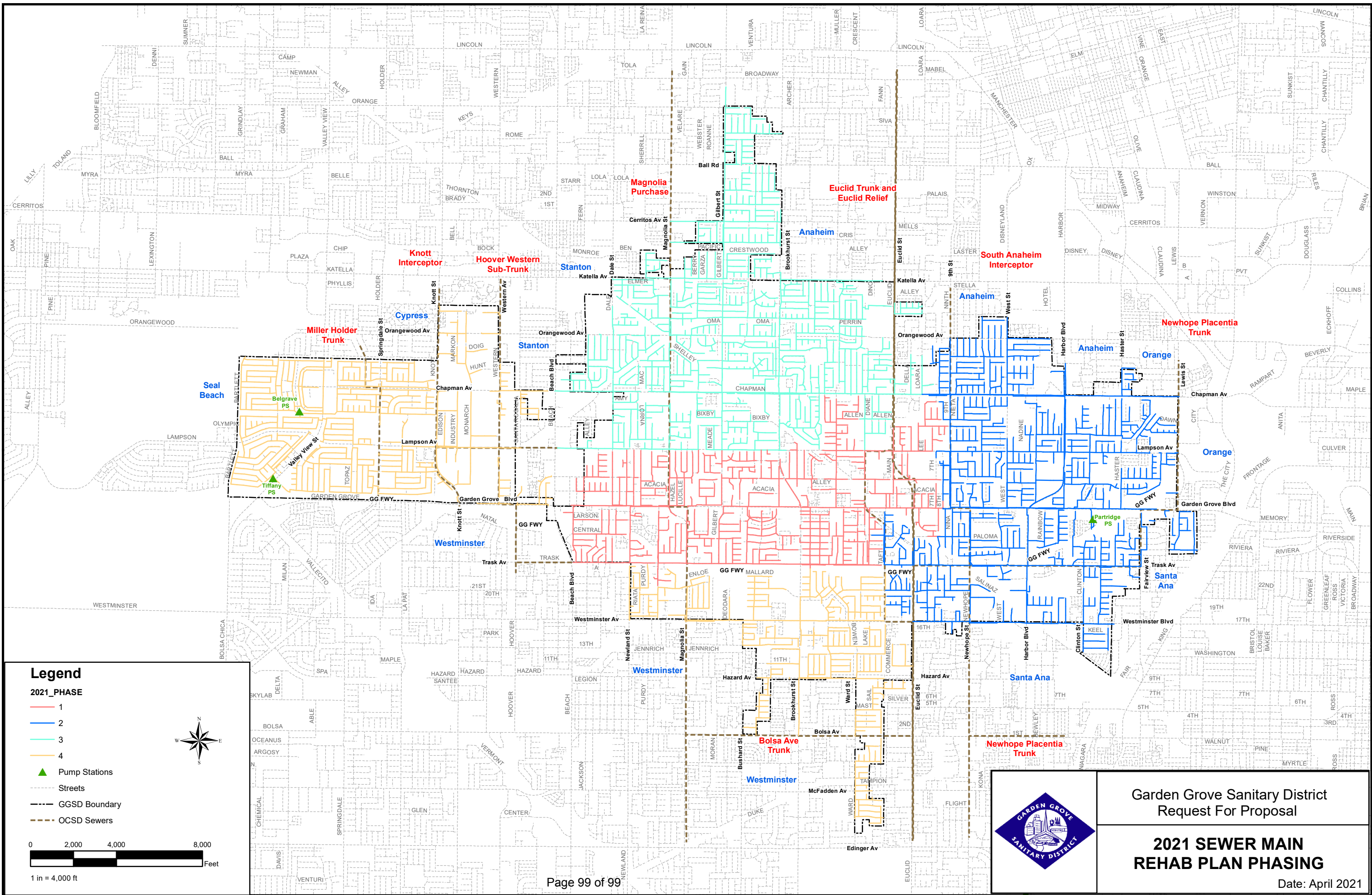
Labor Classification	Hourly Rate 2021
Principal	\$232
Principal Engineer	\$232
Project Manager	\$225
Project Engineer	\$214
Senior Construction Manager	\$213
QA/QC Manager	\$213
Senior Engineer	\$197
Senior Field Engineer / Inspector	\$180
Field Engineer / Inspector	\$158
Associate Engineer	\$153
Staff Engineer	\$135
Financial Analyst	\$125
Senior Designer / Senior CADD Technician	\$107
Designer / CADD Technician	\$99
Assistant Engineer	\$98
Engineering Technician	\$91
Engineering Aide	\$76
Office Support	\$76
Data or Word Processing	\$74

Out of pocket expenses (blueprinting, reproduction and printing, delivery, etc.) will be invoiced at cost plus 10%. Subcontracted services will be marked up 10% in order to cover costs associated with administration, coordination and management of subcontractors. Mileage will be invoiced at \$0.65/mile. This schedule of rates is in effect until December 31, 2021, at which time it may be adjusted.

STAFF HOUR & FEE ESTIMATE
Garden Grove Sanitary District
2021 Sewer System Rehabilitation Phase II
June 4, 2021

	Project Manager	Project Engineer	Associate Engineer	QA/QC	Office Support	Subconsultant	Total Hours	Expenses	Total Cost
Task 1 - Project Management									
Project Management	16	12					28		\$6,168
Task 2 - Meetings									
Meetings	8	8		4			20	\$100	\$4,540
Task 3 - Data Collection and Review									
Data Collection and Review	4	8	8				20	\$100	\$3,936
Task 4 - Preparation of the Condition Assessment									
A ¹ CCTV Inspection of 500,000 feet of Sewer	8	16	16			\$ 701,822	40		\$709,494
B Compile, Review, and Prepare Inspection Reports	4	12	40				56		\$9,564
C-E Review CCTV Recordings for Significant Defect Locations and Update CCTV Inspection Data	16	24	260	4			304		\$49,444
F-H Rehabilitation Recommendations	16	44	140	12			212		\$37,220
I Prepare Sewer System Rehabilitation Plan - Phase II Report	16	24	80	12	24		156	\$1,500	\$27,084
	104	172	544	32	24		836		
Rate (\$/Hr)	\$225	\$214	\$153	\$232	\$76				
Grand Total	\$23,400	\$36,722	\$83,293	\$7,424	\$1,824	\$701,822		\$1,700	\$856,185
Task 5 - Traffic Control Design (Optional)									
Traffic Control Design (Optional)	16	24				\$153,094	40		\$161,830
Grand Total with Optional Item	\$3,600	\$5,136	\$0	\$0	\$0	\$854,916		\$1,700	\$1,018,016

¹ The total length shown in the GIS plus 10%



Legend

2021_PHASE

- 1
- 2
- 3
- 4
- ▲ Pump Stations
- Streets
- GGSD Boundary
- OCSD Sewers

0 2,000 4,000 8,000
Feet
1 in = 4,000 ft



Garden Grove Sanitary District
Request For Proposal

**2021 SEWER MAIN
REHAB PLAN PHASING**

Date: April 2021