

NEW APPLICATION

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9 Attorneys for Liberty Utilities (Litchfield Park Water & Sewer) Corp.

11 BEFORE THE ARIZONA CORPORATION COMMISSION

12 COMMISSIONERS

13 JIM O’CONNOR, Chairman
14 LEA MÁRQUEZ PETERSON
15 ANNA TOVAR
16 NICK MYERS
KEVIN THOMPSON

17 IN THE MATTER OF THE APPLICATION
OF LIBERTY UTILITIES (LITCHFIELD
18 PARK WATER & SEWER) CORP. FOR AN
EXTENSION OF ITS EXISTING
19 CERTIFICATE OF CONVENIENCE AND
NECESSITY.

DOCKET NO:

APPLICATION FOR EXTENSION
OF CERTIFICATE OF
CONVENIENCE AND NECESSITY

22 In accordance with A.A.C. R14-2-602, Liberty Utilities (Litchfield Park Water &
23 Sewer) Corp. (“Liberty Litchfield Park” or “Applicant”), an Arizona public service
24 corporation, applies to the Arizona Corporation Commission (“Commission”) for an order
25 approving the extension of Liberty Litchfield Park’s existing Certificate of Convenience
26 and Necessity (“CC&N”) for wastewater utility services to include ViaWest Properties The
27 Base Industrial Park, which is a development located in certain defined portions of
28 Maricopa County, Arizona, as hereinafter defined.

Snell & Wilmer
LLP
LAW OFFICES
One East Washington Street, Suite 2700
Phoenix, Arizona 85004-2556
602.382.6000

VIAWEST PROPERTIES THE BASE INDUSTRIAL PARK

1
2 1. ViaWest Properties The Base Industrial Park development (also referred to as
3 the “Property” or “Extension Area”) will consist of approximately 15 industrial buildings,
4 ranging in sizes from 40,000 square feet to 265,000 square, on approximately 143.88 acres.
5 The Property is located at approximately the northwest corner of West Bethany Home Road
6 and North Litchfield Road, Glendale, Arizona. More specifically, the Property is comprised
7 of Parcels 501-58-001L, 501-62-018D and 501-62-018V.

8 2. The Property is owned by The Base Phase 1 Owner, LLC, owner of Parcel
9 501-58-001L, and The Base Phase 2 Owner, LLC, owner of Parcels 501-62-018D, and 501-
10 62-018V, (collectively, the “Property Owner”).

11 3. The Property Owner has retained Kimley-Horn and Associates, Inc. as the
12 civil project engineer to engineer the Property’s connection to Liberty Litchfield Park’s
13 sewer collection system. To date, none of these lots have been developed. The Property
14 will undergo development in two phases, the northern portion will begin construction in Q1
15 2023 with an assumed 13-month construction period and the southern portion will
16 commence upon completion of the northern portion, assumed Q1 2024. The onsite sewer
17 system will be designed in accordance with Liberty Litchfield Park’s guidelines.

18 4. The Property Owner has requested Liberty Litchfield Park to provide sewer
19 services to the Property. *See Exhibit 1* for formal request for service. The Extension Area
20 is within Liberty Litchfield Park’s water service area and water supplied to the Property
21 will be provided from Liberty Litchfield Park’s existing water supply wells and distribution
22 lines.

23 5. All wastewater flows generated by the Property will be delivered to Liberty
24 Litchfield Park’s existing Palm Valley Water Reclamation Facility (“PVWRF”). Currently,
25 Liberty Litchfield Park’s existing PVWRF does not have any unallocated treatment capacity
26 for new developments and connections. Liberty Litchfield Park is in the process of
27 constructing the new Sarival Wastewater Recycling Facility (“Sarival WRF”) located on
28 Bullard Road in Goodyear, Arizona. The Sarival WRF will be constructed as a membrane

1 bioreactor plant (MBR) with an operating capacity of four (4) million gallons per day
2 (MGD) of wastewater treatment capacity expandable to 8 MGD. At this time, Sarival WRF,
3 which was originally scheduled to be in service by quarter three of 2024, is anticipated to
4 be fully operational in May 2024 based on the most recent, accelerated construction
5 timeline. As such, wastewater service to the Extension Area is conditioned upon the earlier
6 of: 1) the issuance of a final Maricopa County permit authorizing the operation of the
7 Sarival WRF; or 2) a determination by Liberty, in its sole discretion, that the receipt of the
8 Extension Area's wastewater would not cause any flow or effluent quality limits of the
9 individual permit for the facility to be exceeded consistent with AAC R18-9-E301.C.1. The
10 Property will be served from 8" sewer mains running in the proposed streets into Liberty
11 Litchfield Park's PVWRF.

12 CC&N EXTENSION APPLICATION

13 6. Applicant's legal name, mailing address and telephone number are: Liberty
14 Utilities (Litchfield Park Water & Sewer) Corp., 14920 W. Camelback Road, Litchfield
15 Park, Arizona, 85340, (623) 935-9367. Applicant is a public service corporation formed for
16 the purpose of providing water and wastewater utility service in Maricopa County, Arizona.
17 Liberty Litchfield Park is a private water and wastewater utility company in the Phoenix
18 Active Management Area. Liberty Litchfield Park holds CC&Ns issued by the Commission
19 authorizing Liberty Litchfield Park to provide public water and wastewater utility service
20 within its certificated service areas. Liberty Litchfield Park's CC&Ns generally
21 encompasses an approximately 22 square-mile area west of the Agua Fria River between
22 Luke Air Force Base and interstate highway I-10.

23 7. The name, address, and corporate structure for Liberty Litchfield Park is set
24 forth in the attached **Exhibit 2**, including the amount of stock authorized and subsequently
25 issued. The names, titles, and mailing addresses for Liberty Litchfield Park's officers and
26 directors are also set forth on the attached **Exhibit 2**. Liberty Litchfield Park does not own
27 an interest in any other utility companies. Liberty Litchfield Park's parent company owns
28 seven other public service corporations providing water and wastewater utility service in

1 Arizona.

2 8. Liberty Litchfield Park's Certificate of Good Standing from the Commission
3 is attached hereto as **Exhibit 3**.

4 9. Liberty Litchfield Park's management contact is Moses Thompson, President
5 (AZ/TX), 14222 W. McDowell Rd, Goodyear, AZ 85395. Mr. Thompson's telephone
6 number is (623)-695-4342 and his email address is Moses.Thompson@libertyutilities.com.

7 10. Liberty Litchfield Park's operator certified by the Arizona Department of
8 Environmental Quality ("ADEQ") is Terry Gilbertson, Senior Operations Manager, whose
9 business address is 14222 W. McDowell Rd, Goodyear, AZ 85395. Mr. Gilbertson's
10 telephone number is (623) 298-4825. Mr. Gilbertson is Liberty Litchfield Park's onsite
11 manager.

12 11. Liberty Litchfield Park's attorneys for this application are as follows:

13 Kelly A. Daly
14 Paloma Scheiferstein
15 SNELL & WILMER LLP
16 One East Washington St., Suite 2700
17 Phoenix, Arizona 85004
18 Telephone: (602) 382-6000
19 E-Mail: kdaly@swlaw.com; pscheiferstein@swlaw.com

20 Todd Wiley
21 Vice President – Associate General Counsel
22 14920 W. Camelback Road
23 Litchfield Park, AZ 85340
24 Telephone: (623) 298-3770
25 Email: Todd.Wiley@libertyutilities.com

26 All case filings, correspondence, data requests and/or other requests for information should
27 be directed to Ms. Daly, Ms. Scheiferstein, and Mr. Wiley.

28 12. The Extension Area (which is also the Property) is owned entirely by the
Property Owner. As a result, there are no landowners within the Extension Area that are
not requesting an extension of wastewater utility services by Liberty Litchfield Park.

1 13. The legal description for the Extension Area is detailed in **Exhibit 4** and, is
2 as follows:

3
4 North Parcel:

5 THAT PORTION OF THE SOUTHEAST QUARTER OF SECTION 9,
6 TOWNSHIP 2 NORTH, RANGE 1 WEST OF THE GILA AND SALT RIVER
7 MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY
8 DESCRIBED AS FOLLOWS:

9 COMMENCING AT THE EAST QUARTER CORNER OF SAID SECTION 9
10 FROM WHICH THE SOUTHEAST CORNER OF SAID SECTION 9 BEARS
11 SOUTH 00°04'10" WEST, A DISTANCE OF 2613.16 FEET;

12 THENCE ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID
13 SECTION 9, SOUTH 00°04'10" WEST, A DISTANCE OF 208.03 FEET;

14 THENCE LEAVING SAID EAST LINE, NORTH 89°55'50" WEST, A DISTANCE
15 OF 55.00 TO THE WEST RIGHT OF WAY LINE OF LITCHFIELD ROAD AND
16 THE POINT OF BEGINNING;

17 THENCE ALONG SAID RIGHT OF WAY LINE, SOUTH 00°04'10" WEST, A
18 DISTANCE OF 1616.01 FEET;

19 THENCE LEAVING SAID RIGHT OF WAY LINE, NORTH 88°47'14" WEST, A
20 DISTANCE OF 1562.62 FEET;

21 THENCE NORTH 89°05'20" WEST, A DISTANCE OF 715.79 FEET;

22 THENCE NORTH 00°12'21" EAST, A DISTANCE OF 520.40 FEET TO THE
23 BEGINNING OF A CURVE CONCAVE SOUTHEASTERLY WHOSE RADIUS
24 BEARS SOUTH 51°00'04" EAST, A DISTANCE OF 6500.00 FEET;

25 THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE TO THE
26 RIGHT, THROUGH A CENTRAL ANGLE OF 1°02'36", FOR AN ARC LENGTH
27 OF 118.36 FEET;

28 THENCE NORTH 00°12'21" EAST, A DISTANCE OF 1002.32 FEET;

 THENCE SOUTH 88°53'38" EAST, A DISTANCE OF 2199.55 FEET TO THE
POINT OF BEGINNING.

 SAID PARCEL CONTAINS 3,596,106 SQUARE FEET OR 82.55 ACRES MORE

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OR LESS.

South Parcel:

A PORTION OF THE SOUTHEAST QUARTER OF SECTION 9 AND THE NORTHEAST QUARTER OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 1 WEST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE EAST QUARTER CORNER OF SAID SECTION 16 FROM WHICH THE NORTHEAST CORNER OF SAID SECTION 16 BEARS NORTH 00°05'09" WEST, A DISTANCE OF 2593.53 FEET;

THENCE ALONG THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 16, NORTH 00°05'09" EAST, A DISTANCE OF 1297.53 FEET;

THENCE LEAVING SAID EAST LINE, NORTH 89°54'51" WEST, A DISTANCE OF 55.00 FEET TO THE WEST RIGHT OF WAY LINE OF LITCHFIELD ROAD AND THE POINT OF BEGINNING;

THENCE LEAVING SAID RIGHT OF WAY LINE, NORTH 89°00'30" WEST, A DISTANCE OF 2049.94 FEET;

THENCE NORTH 00°04'10" EAST, A DISTANCE OF 1667.37 FEET;

THENCE NORTH 89°55'50" WEST, A DISTANCE OF 229.06 FEET;

THENCE NORTH 00°12'21" EAST, A DISTANCE OF 426.70 FEET;

THENCE SOUTH 89°05'20" EAST, A DISTANCE OF 715.79 FEET;

THENCE SOUTH 00°04'31" WEST, A DISTANCE OF 755.05 FEET;

THENCE SOUTH 88°47'08" EAST, A DISTANCE OF 1562.78 FEET TO SAID WEST RIGHT OF WAY LINE OF LITCHFIELD ROAD;

THENCE ALONG SAID RIGHT OF WAY LINE, SOUTH 00°04'13" WEST, A DISTANCE OF 33.00 FEET;

THENCE CONTINUING ALONG SAID RIGHT OF WAY LINE, SOUTH 00°05'09" WEST, A DISTANCE OF 33.01 FEET;

THENCE LEAVING SAID RIGHT OF WAY LINE, NORTH 88°47'08" WEST, A DISTANCE OF 495.00 FEET;

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THENCE SOUTH 00°05'21" WEST, A DISTANCE OF 352.00 FEET;

THENCE SOUTH 88°47'08" EAST, A DISTANCE OF 495.02 FEET TO SAID WEST RIGHT OF WAY LINE;

THENCE ALONG SAID RIGHT OF WAY LINE, SOUTH 00°05'09" WEST, A DISTANCE OF 385.61 FEET;

THENCE LEAVING SAID RIGHT OF WAY LINE, NORTH 89°54'39" WEST, A DISTANCE OF 590.04 FEET;

THENCE SOUTH 35°46'14" WEST, A DISTANCE OF 390.67 FEET;

THENCE SOUTH 43°00'02" EAST, A DISTANCE OF 64.68 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHEASTERLY WHOSE RADIUS BEARS NORTH 46°59'58" EAST, A DISTANCE OF 373.00 FEET;

THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE, TO THE LEFT, THROUGH A CENTRAL ANGLE OF 24°03'51", FOR AN ARC LENGTH OF 156.66 FEET;

THENCE SOUTH 67°03'52" EAST, A DISTANCE OF 44.39 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHERLY WHOSE RADIUS BEARS NORTH 22°56'08" EAST, A DISTANCE OF 373.00 FEET;

THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE, TO THE LEFT, THROUGH A CENTRAL ANGLE OF 22°02'50", FOR AN ARC LENGTH OF 143.53 FEET;

THENCE SOUTH 89°05'48" EAST, A DISTANCE OF 465.70 FEET TO SAID WEST RIGHT OF WAY LINE OF LITCHFIELD ROAD;

THENCE ALONG SAID RIGHT OF WAY LINE, SOUTH 00°05'09" WEST, A DISTANCE OF 19.90 FEET TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINS 2,671,545 SQUARE FEET OR 61.330 ACRES MORE OR LESS.

14. The Extension Area is located in the City of Glendale within Maricopa County. The cities of Litchfield Park, Phoenix, Peoria, El Mirage, Surprise, Youngtown,

1 Glendale, Goodyear, and Avondale also are located within five miles of the Extension Area.
2 See **Exhibit 5** for a simple map of the five-mile radius.

3 15. Liberty Litchfield Park currently operates both a water system and a
4 wastewater system in the area and its current water and wastewater CC&N boundaries are
5 adjacent to the Extension Area.

6 The necessary on-site wastewater facilities will be installed to serve the Property.
7 The Engineering Wastewater Report is attached as **Exhibit 6** and shows the necessary on-
8 site wastewater facilities to be installed including an 8-inch diameter wastewater main
9 throughout the development. Off-site improvements will consist of a new 12-inch trunk line
10 in Litchfield Road from approximately Camelback Road to the point of need adjacent to the
11 Property (approximately one (1) mile in length). The Engineering Wastewater Report
12 includes a map showing the proposed location of the principal components of the
13 wastewater system planned for the Extension Area.

14 16. Connection of the facilities to service the area will be completed after the
15 approval of the extension of the CC&Ns and after the completion of Liberty Litchfield
16 Park's new wastewater treatment facility now commonly referred to as the Sarival WRF.

17 17. Documentation supporting the estimated total cost for construction of the
18 facilities required to provide wastewater service to the Extension Area is attached as
19 **Exhibit 7**. Construction of the required on-site wastewater facilities will be privately
20 funded. Construction of any required off-site facilities will be financed using either
21 contributions in aid of construction ("CAIC") from Hook-Up Fees or capital provided by
22 Liberty Litchfield Park.

23 18. For service to the Extension Area, Liberty Litchfield Park will be charging its
24 tariff rates and charges as approved by the Commission. A copy of Liberty Litchfield Park's
25 existing tariff schedules is attached as **Exhibit 8**.

26 19. A general Statement of Financial Condition for Liberty Litchfield Park is
27 attached as **Exhibit 9**.

28 20. Liberty Litchfield Park's estimated annual operating revenue and operating

1 expenses, projected income statements, projected balance sheets and plant expenditures for
2 the first five years of operation in the Extension Area are shown in **Exhibit 10**.

3 21. Liberty Litchfield Park is the only regulated utility providing wastewater
4 service within one mile of the Extension Area. Detailed maps of Liberty Litchfield Park's
5 existing wastewater CC&N areas and the Extension Area are attached as **Exhibit 11**. This
6 Exhibit includes two separate maps, including: **(A)** Map of Existing Wastewater Service
7 Area; **(B)** Second Map of Existing Wastewater Service Area; **(C)** Map of Extension
8 Wastewater Service Area. Together, these maps show the Extension Area and its
9 relationship to the service areas of other public service corporations, municipalities and/or
10 districts currently providing wastewater service within one mile of the Extension Area, with
11 identification of the entity providing service and each type of service being provided. These
12 maps also include:

- 13 • the boundaries of the Extension Area, with the total acreage noted;
- 14 • the land ownership boundaries within the Extension Area, with the acreage of
15 each separately owned parcel within the Extension Area noted;
- 16 • the owner of the parcel within the Extension Area;
- 17 • that there are not any known wastewater service connections already being
18 provided service by the Applicant within the Extension Area; and
- 19 • the location of all parcels for which a copy of a request for service has been
20 submitted.

21 22. A copy of the form of notice to be sent to managers/administrators for
22 municipalities within a five-mile radius of the Extension Area is attached as **Exhibit 12**.

23 23. The estimated number of customers to be served during the first five years of
24 wastewater utility service to the Extension Area are shown in **Exhibit 13**.

25 24. The Extension Area is located within the Liberty Litchfield Park's approved
26 Maricopa Association of Governments ("MAG") planning area.

27 25. If necessary, Liberty Litchfield Park will submit a franchise application to the
28 Maricopa County Board of Supervisors after the approval of this Application to include the

1 Extension Area.

2 26. Approvals to Construct will be obtained from ADEQ and provided to the
3 Commission as soon as they are issued and received.

4 27. Liberty Litchfield Park will treat all wastewater generated within the
5 Extension Area at PVWRF. Treated effluent will be delivered for direct use or recharged
6 into the regional aquifer at Liberty Litchfield Park's Aquifer Replenishment Facility.

7 28. Liberty Litchfield Park's Aquifer Protection Permit for PVWRF issued by
8 ADEQ is attached as **Exhibit 14**.

9 29. Liberty Litchfield Park's Wastewater Use Data Sheets is attached as
10 **Exhibit 15**.

11 30. ADEQ's *Substantive Policy – 4.01 General Permits as it relates to*
12 *Wastewater Treatment Plant ("WWTP") Capacity* (the "ADEQ Policy") has become
13 effective. In addition, on January 25, 2023, ADEQ issued the APP to Liberty Litchfield
14 Park for Sarival WRF in the amount of 4.4 million gallons per day ("MGD"). The combined
15 impact of these two actions means that ADEQ recognizes that Liberty has 4.4 MGD of
16 available wastewater treatment capacity for purposes of determining whether Liberty has
17 sufficient capacity to serve new developments and issuance of approvals to construct for
18 new developments. Consistent with this ADEQ Policy and the issuance of the Sarival WRF
19 APP, Liberty has sufficient wastewater capacity for purposes of granting these CC&N
20 extension applications. The ADEQ Policy is attached as **Exhibit 16** and Sarival WRF's
21 APP is attached as **Exhibit 17**.

22 31. A notarized Affidavit in support of this Application on behalf of Liberty
23 Litchfield Park is attached as **Exhibit 18**.

24 32. For the reasons stated herein, Liberty Litchfield Park maintains that this
25 Application is in the public interest and should be granted. There is a need for regulated
26 wastewater utility services to the Extension Area in Maricopa County to ensure the public
27 health and foster orderly growth.

28 WHEREFORE, Liberty Litchfield Park respectfully requests the following:

1 A. That the Commission consider and act upon this Application as timely as
2 possible and schedule a hearing, if necessary, on this matter;

3 B. That upon completion of said hearing, the Commission enter an Order
4 approving this Application and extending Liberty Litchfield Park's wastewater CC&N to
5 include the Extension Area as described in **Exhibit 4**; and,

6 C. That the Commission grant such other and further relief as may be appropriate
7 under the circumstances herein.

8 *RESPECTFULLY SUBMITTED* this 23rd day of May, 2023.

9
10 SNELL & WILMER L.L.P.

11
12 By: */s/ Paloma Scheiferstein*
13 Kelly A. Daly
14 Paloma Scheiferstein
15 One East Washington St., Suite 2700
16 Phoenix, Arizona 85004

17 and

18 LIBERTY UTILITIES

19 Todd Wiley
20 V.P. and Associate & General Counsel
21 14920 W. Camelback Road
22 Litchfield Park, Arizona 85340

23 Attorneys for Liberty Utilities (Litchfield
24 Park Water & Sewer) Corp.

25 **ORIGINAL** eFiled
26 this 23rd day of May 2023 with:

27 Docket Control
28 Arizona Corporation Commission
1200 W. Washington Street
Phoenix, AZ 85007

/s/ Paloma Scheiferstein

EXHIBITS

- 1
- 2 1. Exhibit 1 – The Base Industrial Park’s Request for Service
- 3 2. Exhibit 2 - Corporate Information for Liberty Utilities (Litchfield Park Water & Sewer)
- 4 Corp.
- 5 3. Exhibit 3 - Certificate of Good Standing from the Arizona Corporation Commission
- 6 4. Exhibit 4 – Legal Description of Extension Area
- 7 5. Exhibit 5 – Map of Municipalities within a Five-Mile Radius
- 8 6. Exhibit 6 - Engineering Wastewater Report
- 9 7. Exhibit 7 – Engineering Estimate of Project Costs
- 10 8. Exhibit 8 – Liberty Litchfield Park’s Tariff Rate Schedules
- 11 9. Exhibit 9 - General Statement of Financial Condition – Comparative Income Statement
- 12 10. Exhibit 10 – Estimated Annual Operating Revenue and Expenses, Income Statements,
- 13 Balance Sheets and Plant Expenditures – First Five Years
- 14 11. Exhibit 11A - Map of Existing Service Area
- 15 Exhibit 11B – Second Map of Existing Service Area
- 16 Exhibit 11C – Map of Extension Wastewater Service Area
- 17 12. Exhibit 12 - Form of Notice to be Sent to Municipalities within 5 Miles of Extension Area
- 18 13. Exhibit 13 - Estimated Number of Customers – First Five Years
- 19 14. Exhibit 14 - ADEQ PVWRF Aquifer Protection Permit
- 20 15. Exhibit 15 – Wastewater Use Data Sheet
- 21 16. Exhibit 16 – ADEQ Policy
- 22 17. Exhibit 17 – ADEQ Sarival WRF Aquifer Protection Permit
- 23 18. Exhibit 18 - Notarized Affidavit on Behalf of Liberty Litchfield Park
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Exhibit 1
The Base Industrial Park's Request for Service



Sent Via E-mail Only

TO:
Mickey Chetty
Liberty Utilities
12725 W. Indian School Rd. Ste. D-101
Avondale, AZ 85392

FROM:
Steven Schwarz, President
The Base Phase 2 Owner, LLC
2390 E. Camelback Rd. Ste. 305
Phoenix, AZ 85016

Re: Written Request for Service at The Base Industrial Park Phase 2

1. Developer Point of Contact:

Alex Boles
Senior Vice President, Investment and Development
E: aboles@viawestgroup.com
M: 615.439.5564

Developer Secondary Point of Contact:

Rodney Boden
Vice President, Investment and Development
E: rboden@viawestgroup.com
M: 808.840.3985

Civil Engineering Point of Contact:


Eric A. Whitehurst, P.E.
Kimley-Horn & Associates E:
eric.whitehurst@kimley-horn.com
M: 623.217.6345

2. Legal Description: (please see Exhibit A)

3. Project Location: Approximately the SWC of Bethany Home Road and Litchfield Rd, Glendale, AZ
APN #s
501-62-018V and 501-62-018D

4. Project Size: +/- 61.33 Acres, or 2,671,545 square feet
5. Type of Service being Requested:
Water and Sewer to serve an approximately 780,600 square foot industrial-type development
6. Water / Sewer Facilities
We acknowledge that the Project will not receive wastewater treatment service until the completion of the Sarival Water Reclamation Facility.
7. Project / Construction Timeline
Start Date: Approximately October 2024
End Date: Approximately January 2026
8. Water / Sewer Usage:
TBD

DocuSigned by:



DF4D7EF82932448...

Steven Schwarz, President

04-19-2023 | 10:30 PDT

Date

Exhibit A
*Legal Description**

Exhibit A – Southern Parcel Legal Description.

LEGAL DESCRIPTION

A PORTION OF THE SOUTHEAST QUARTER OF SECTION 9 AND THE NORTHEAST QUARTER OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 1 WEST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE EAST QUARTER CORNER OF SAID SECTION 16 FROM WHICH THE NORTHEAST CORNER OF SAID SECTION 16 BEARS NORTH 00°05'09" WEST, A DISTANCE OF 2593.53 FEET;

THENCE ALONG THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 16, NORTH 00°05'09" EAST, A DISTANCE OF 1297.53 FEET;

THENCE LEAVING SAID EAST LINE, NORTH 89°54'51" WEST, A DISTANCE OF 55.00 FEET TO THE WEST RIGHT OF WAY LINE OF LITCHFIELD ROAD AND THE POINT OF BEGINNING;

THENCE LEAVING SAID RIGHT OF WAY LINE, NORTH 89°00'30" WEST, A DISTANCE OF 2049.94 FEET;

THENCE NORTH 00°04'10" EAST, A DISTANCE OF 1667.37 FEET;

THENCE NORTH 89°55'50" WEST, A DISTANCE OF 229.06 FEET;

THENCE NORTH 00°12'21" EAST, A DISTANCE OF 426.70 FEET;

THENCE SOUTH 89°05'20" EAST, A DISTANCE OF 715.79 FEET;

THENCE SOUTH 00°04'31" WEST, A DISTANCE OF 755.05 FEET;

THENCE SOUTH 88°47'08" EAST, A DISTANCE OF 1562.78 FEET TO SAID WEST RIGHT OF WAY LINE OF LITCHFIELD ROAD;

THENCE ALONG SAID RIGHT OF WAY LINE, SOUTH 00°04'13" WEST, A DISTANCE OF 33.00 FEET;

THENCE CONTINUING ALONG SAID RIGHT OF WAY LINE, SOUTH 00°05'09" WEST, A DISTANCE OF 33.01 FEET;

THENCE LEAVING SAID RIGHT OF WAY LINE, NORTH 88°47'08" WEST, A DISTANCE OF 495.00 FEET;

THENCE SOUTH 00°05'21" WEST, A DISTANCE OF 352.00 FEET;

THENCE SOUTH 88°47'08" EAST, A DISTANCE OF 495.02 FEET TO SAID WEST RIGHT OF WAY LINE;

THENCE ALONG SAID RIGHT OF WAY LINE, SOUTH 00°05'09" WEST, A DISTANCE OF 385.61 FEET;

THENCE LEAVING SAID RIGHT OF WAY LINE, NORTH 89°54'39" WEST, A DISTANCE OF 590.04 FEET;

THENCE SOUTH 35°46'14" WEST, A DISTANCE OF 390.67 FEET;

THENCE SOUTH 43°00'02" EAST, A DISTANCE OF 64.68 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHEASTERLY WHOSE RADIUS BEARS NORTH 46°59'58" EAST, A DISTANCE OF 373.00 FEET;

THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE, TO THE LEFT, THROUGH A CENTRAL ANGLE OF 24°03'51", FOR AN ARC LENGTH OF 156.66 FEET;

THENCE SOUTH 67°03'52" EAST, A DISTANCE OF 44.39 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHERLY WHOSE RADIUS BEARS NORTH 22°56'08" EAST, A DISTANCE OF 373.00 FEET;

THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE, TO THE LEFT, THROUGH A CENTRAL ANGLE OF 22°02'50", FOR AN ARC LENGTH OF 143.53 FEET;

THENCE SOUTH 89°05'48" EAST, A DISTANCE OF 465.70 FEET TO SAID WEST RIGHT OF WAY LINE OF LITCHFIELD ROAD;

THENCE ALONG SAID RIGHT OF WAY LINE, SOUTH 00°05'09" WEST, A DISTANCE OF 19.90 FEET TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINS 2,671,545 SQUARE FEET OR 61.330 ACRES MORE OR LESS.





LEGEND

P.O.C. = POINT OF COMMENCING
 P.O.B. = POINT OF BEGINNING

E 1/4 CORNER
 SEC. 9, T2N, R1W

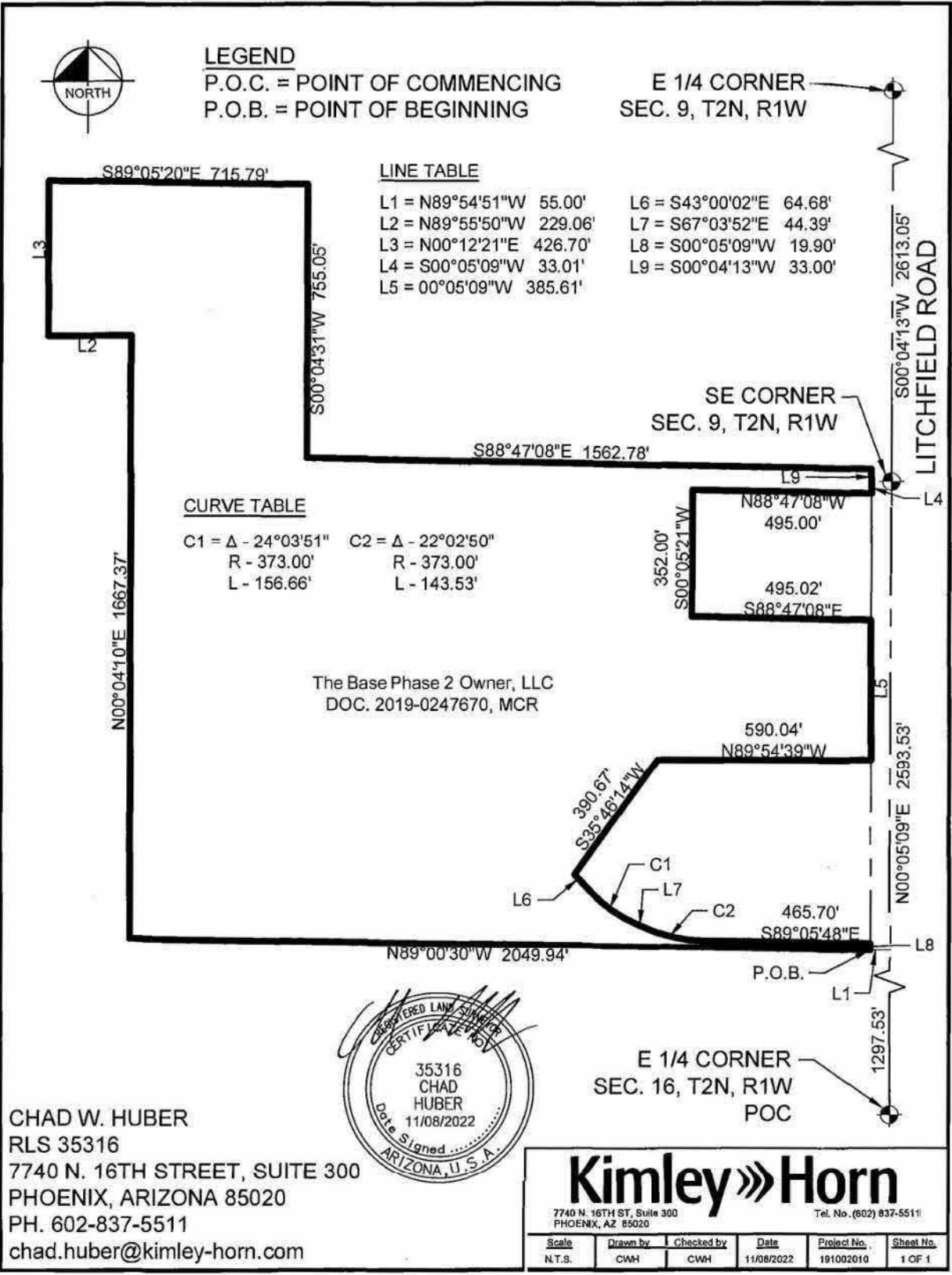
LINE TABLE

L1 = N89°54'51"W 55.00'	L6 = S43°00'02"E 64.68'
L2 = N89°55'50"W 229.06'	L7 = S67°03'52"E 44.39'
L3 = N00°12'21"E 426.70'	L8 = S00°05'09"W 19.90'
L4 = S00°05'09"W 33.01'	L9 = S00°04'13"W 33.00'
L5 = 00°05'09"W 385.61'	

CURVE TABLE

C1 = Δ - 24°03'51"	C2 = Δ - 22°02'50"
R - 373.00'	R - 373.00'
L - 156.66'	L - 143.53'

The Base Phase 2 Owner, LLC
 DOC. 2019-0247670, MCR



CHAD W. HUBER
 RLS 35316
 7740 N. 16TH STREET, SUITE 300
 PHOENIX, ARIZONA 85020
 PH. 602-837-5511
 chad.huber@kimley-horn.com



E 1/4 CORNER
 SEC. 16, T2N, R1W
 POC

Kimley»Horn
 7740 N. 16TH ST, Suite 300 PHOENIX, AZ 85020 Tel. No. (602) 837-5511

Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
N.T.S.	CWH	CWH	11/08/2022	191002010	1 OF 1

LIBERTY UTILITIES DEVELOPMENT GUIDE
MARICOPA COUNTY, AZ

Project/Developer Information



GENERAL INFORMATION

Owner Name: The Base Phase 2 Owner, LLC

Contact Name: Alex Boles

Address: 2390 E Camelback Rd. Ste 305 Phoenix, AZ 85016

Phone #: 615.439.5564 Email: aboles@viawestgroup.com

Applicant Name (if other than owner): _____

Address: _____

Phone #: _____ Email: _____

Project Engineer: Kimley-Horn & Associates

Contact Name: Eric A. Whitehurst

Address: 7740 N 16th St. #300, Phoenix, AZ 85020

Phone #: 623.217.6345 Email: eric.whitehurst@kimley-horn.com

Name of Development: The Base Industrial Park Phase 2

Project Name to be known as (if different than above): _____

Location: SWC Bethany Home Rd & Litchfield Rd

Parcel #: _____
501-62-018V and 501-62-018D

AGREEMENT INFORMATION

Name of company entering into the agreement: The Base Phase 2 Owner, LLC

Name, title, and address of individual who will sign the agreement: Steven Schwarz, President
2390 E Camelback Rd. Ste 305 Phoenix, AZ 85016

State of incorporation of company (AZ, CA, etc.): _____
Delaware Limited Liability Corporation

Type of company (Inc., LLC, LP, etc.): LLC

County and State where agreement will be notarized: Maricopa, AZ

LIBERTY UTILITIES DEVELOPMENT GUIDE
MARICOPA COUNTY, AZ

PROJECT INFORMATION

Utility you are requesting service from:

Liberty Utilities (Litchfield Park Water & Sewer) Corp. Liberty Utilities (Black Mountain Sewer) Corp.

General Description of what Utility service is being requested and for what purpose (i.e. requesting sewer service for 132 single-family lots):

Requesting sewer and water services for approximately 780,600 square feet of industrial type product.

Have preliminary plans been developed? If yes, please attach a copy. If no, please attach any available site plans.

Water: Yes No

Sewer: Yes No

Estimated Start Date: Water: _____ **Estimated Completion Date:** Water: _____
Sewer: _____ Sewer: _____

We acknowledge that the Project will not receive wastewater treatment service until the completion of the Sarival Water Reclamation Facility.

No. of water meters required and sizes, including irrigation (i.e. 3/8 - 1/2 inch meters): Approximately 15 6-in meters for Phase 2 and an additional 7 1.5-in meters for landscaping.

No. of fire services required, including sizes (contact local Fire Department for requirements): Assuming 7 8-10 in meters for all buildings.

IF MULTIPLE USES, PLEASE FILL OUT ALL THAT APPLY

RESIDENTIAL PROJECTS - SINGLE FAMILY

Total residential acreage: _____ Total Number of lots: _____

Project Amenities (check all that apply):

Pool Clubhouse Park
Occupancy: _____ Occupancy: _____ No. of bathrooms: _____
Showers? : _____ Showers? : _____ No. of Parking Spaces: _____
Kitchen? : _____

Other

Please give a detailed description : _____

LIBERTY UTILITIES DEVELOPMENT GUIDE
MARICOPA COUNTY, AZ

RESIDENTIAL PROJECTS - MULTI-FAMILY

Total acreage: _____ Number of units: _____

Project Amenities (check all that apply):

D Pool Occupancy: _____ Showers? : _____	D Clubhouse Occupancy: _____ Showers? : _____ Kitchen? : _____	D Park No. of bathrooms: _____
---	--	--

D Laundry No. of machines: _____	D Theater (if separate from clubhouse) No. of seats: _____
--	--

D Other
Please give a detailed description : _____

COMMERCIAL PROJECTS

Retail

(a) Total Site Acreage: _____
(b) Square Footage of store area: _____

Office

(a) Total Site Acreage: _____
(b) Square Footage of office space: _____
(c) Total occupancy: _____

Restaurant

(a) Total Site Acreage: _____
(b) Square Footage of building: _____
(c) Total occupancy: _____
(d) Estimated number of meals served per day: _____

School

(a) Total Site Acreage: _____
(b) Number of Staff: _____

LIBERTY UTILITIES DEVELOPMENT GUIDE
MARICOPA COUNTY, AZ

(c) Number of Students: _____

(d) Grade (i.e. K - 8): _____

(e) Check all that apply:
 Cafeteria Gym Showers Boarding

Other

(a) Total Site Acreage: 61.33 acres

(b) Square Footage of Building(s): 780,600 square feet

(c) Relevant Information: Industrial type product to be built from raw land on a speculative basis

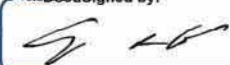
THIS FORM MUST BE ACCOMPANIED BY A WRITTEN REQUEST FOR SERVICE SIGNED BY THE OWNER, WITH AN ATTACHED WRITTEN LEGAL DESCRIPTION. This request must include the owner's name, project name and location (Parcel No., cross streets, address), type of service being requested (water, sewer – commercial, residential, multi-family), estimated start and completion dates, and an estimate of the water demand and/or sewer flows required for this project. Please address the letter to the Manager of Development Services.

I, the owner or owner's legal representative, hereby certify:

- 1) The information contained on this form is true and correct to the best of my knowledge. I understand that this information will be used to determine my initial administrative deposit, which will be due prior to the review of Construction Plans and Master Plans and any further coordination.
- 2) I have been provided with a copy of Utility's Development Guide, and General Construction Guide to read and understand. It is understood that this Development Guide outlines procedural requirements for water and/or sewer line extensions and additions, as well as A.A.C. R14-2-406.
- 3) I understand I will be responsible for all costs related to my development as it pertains to obtaining utility service. These costs can include, but are not limited to, hook-up fees (if applicable), other costs (if applicable), and costs related to the design, construction, and installation; which includes inspections and plan review, as well as utility administration to prepare appropriate agreements. It is further understood that these costs will be outlined in a Line Extension Agreement and/or Service Connection Agreement.

Steven Schwarz _____

President _____

Name Signed by:

Signature DF4D7EF82932448...

Title
04-19-2023 | 10:30 PDT
Date



Sent Via E-mail Only

TO:
Mickey Chetty
Liberty Utilities
12725 W. Indian School Rd. Ste. D-101
Avondale, AZ 85392

FROM:
Steven Schwarz, President
The Base Phase 1 Owner, LLC
2390 E. Camelback Rd. Ste. 305
Phoenix, AZ 85016

Re: Written Request for Service at The Base Industrial Park Phase I

1. Developer Point of Contact:
Alex Boles
Senior Vice President, Investment and Development
E: aboles@viawestgroup.com
M: 615.439.5564

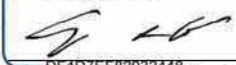
Developer Secondary Point of Contact:
Rodney Boden
Vice President, Investment and Development
E: rboden@viawestgroup.com
M: 808.840.3985

Civil Engineering Point of Contact:
Eric A. Whitehurst, P.E.
Kimley-Horn & Associates E:
eric.whitehurst@kimley-horn.com
M: 623.217.6345

2. Legal Description: (please see Exhibit A)
3. Project Location: Approximately the NWC of Bethany Home Road and Litchfield Rd, Glendale, AZ
APN #s
501-58-001L

4. Project Size: +/- 82.55 Acres, or 3,596,106 square feet
5. Type of Service being Requested:
Water and Sewer to serve an approximately 1.2MM square foot industrial-type development
6. Water / Sewer Facilities
We acknowledge that the Project will not receive wastewater treatment service until the completion of the Sarival Water Reclamation Facility.
7. Project / Construction Timeline
Start Date: Approximately June 2023
End Date: Approximately September 2024
8. Water / Sewer Usage:
TBD

DocuSigned by:



DF4D7EF82932448...
Steven Schwarz, President

04-19-2023 | 10:30 PDT

Date

Exhibit A
*Legal Description**

Exhibit A – Northern Parcel Legal Description.

LEGAL DESCRIPTION

THAT PORTION OF THE SOUTHEAST QUARTER OF SECTION 9, TOWNSHIP 2 NORTH, RANGE 1 WEST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE EAST QUARTER CORNER OF SAID SECTION 9 FROM WHICH THE SOUTHEAST CORNER OF SAID SECTION 9 BEARS SOUTH 00°04'10" WEST, A DISTANCE OF 2613.16 FEET;

THENCE ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 9, SOUTH 00°04'10" WEST, A DISTANCE OF 208.03 FEET;

THENCE LEAVING SAID EAST LINE, NORTH 89°55'50" WEST, A DISTANCE OF 55.00 TO THE WEST RIGHT OF WAY LINE OF LITCHFIELD ROAD AND THE POINT OF BEGINNING;

THENCE ALONG SAID RIGHT OF WAY LINE, SOUTH 00°04'10" WEST, A DISTANCE OF 1616.01 FEET;

THENCE LEAVING SAID RIGHT OF WAY LINE, NORTH 88°47'14" WEST, A DISTANCE OF 1562.62 FEET;

THENCE NORTH 89°05'20" WEST, A DISTANCE OF 715.79 FEET;

THENCE NORTH 00°12'21" EAST, A DISTANCE OF 520.40 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTHEASTERLY WHOSE RADIUS BEARS SOUTH 51°00'04" EAST, A DISTANCE OF 6500.00 FEET;

THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, THROUGH A CENTRAL ANGLE OF 1°02'36", FOR AN ARC LENGTH OF 118.36 FEET;

THENCE NORTH 00°12'21" EAST, A DISTANCE OF 1002.32 FEET;

THENCE SOUTH 88°53'38" EAST, A DISTANCE OF 2199.55 FEET TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINS 3,596,106 SQUARE FEET OR 82.55 ACRES MORE OR LESS.

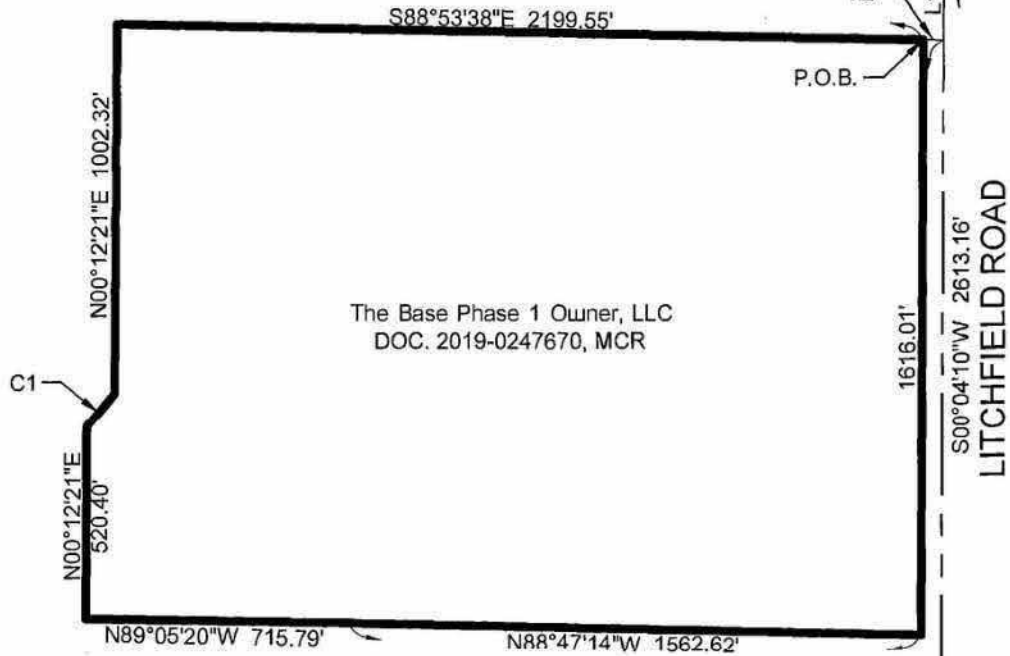




CURVE TABLE

C1 = Δ - 1°02'36"
 R - 6500.00'
 L - 118.36'

E 1/4 CORNER
 SEC. 9, T2N, R1W
 P.O.C.



The Base Phase 1 Owner, LLC
 DOC. 2019-0247670, MCR

LINE TABLE

L1 = S00°04'10\"/>

SE CORNER
 SEC. 9, T2N, R1W



CHAD W. HUBER
 RLS 35316
 7740 N. 16TH STREET, SUITE 300
 PHOENIX, ARIZONA 85020
 PH. 602-837-5511
 chad.huber@kimley-horn.com

LEGEND

P.O.C. = POINT OF COMMENCING
 P.O.B. = POINT OF BEGINNING

Kimley»Horn

7740 N. 16TH ST, Suite 300
 PHOENIX, AZ 85020

Tel. No. (602) 837-5511

Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
N.T.S.	CWH	CWH	07/07/2022	191002009	3 OF 3

LIBERTY UTILITIES DEVELOPMENT GUIDE
MARICOPA COUNTY, AZ

Project/Developer Information



GENERAL INFORMATION

Owner Name: The Base Phase 1 Owner, LLC

Contact Name: Alex Boles

Address: 2390 E Camelback Rd. Ste 305 Phoenix, AZ 85016

Phone #: 615.439.5564 Email: aboles@viawestgroup.com

Applicant Name (if other than owner): _____

Address: _____

Phone #: _____ Email: _____

Project Engineer: Kimley-Horn & Associates

Contact Name: Eric A. Whitehurst

Address: 7740 N 16th St. #300, Phoenix, AZ 85020

Phone #: 623.217.6345 Email: eric.whitehurst@kimley-horn.com

Name of Development: The Base Industrial Park Phase I

Project Name to be known as (if different than above): _____

Location: NWC Bethany Home Rd & Litchfield Rd

Parcel #: _____
501-58-001L

AGREEMENT INFORMATION

Name of company entering into the agreement: The Base Phase 1 Owner, LLC

Name, title, and address of individual who will sign the agreement: Steven Schwarz, President
2390 E Camelback Rd. Ste 305 Phoenix, AZ 85016

State of incorporation of company (AZ, CA, etc.): _____
Delaware Limited Liability Corporation

Type of company (Inc., LLC, LP, etc.): LLC

County and State where agreement will be notarized: Maricopa, AZ

LIBERTY UTILITIES DEVELOPMENT GUIDE
MARICOPA COUNTY, AZ

PROJECT INFORMATION

Utility you are requesting service from:

Liberty Utilities (Litchfield Park Water & Sewer) Corp. Liberty Utilities (Black Mountain Sewer) Corp.

General Description of what Utility service is being requested and for what purpose (i.e. requesting sewer service for 132 single-family lots):

Requesting sewer and water services for approximately 1.2MM square feet of industrial type product.

Have preliminary plans been developed? If yes, please attach a copy. If no, please attach any available site plans.

Water: Yes No

Sewer: Yes No

Estimated Start Date: Water: _____ **Estimated Completion Date:** Water: _____
Sewer: _____ Sewer: _____

We acknowledge that the Project will not receive wastewater treatment service until the completion of the Sarival Water Reclamation Facility.

No. of water meters required and sizes, including irrigation (i.e. 3/8 - 1/2 inch meters): Approximately 15 6-in meters for Phase 1 and an additional 7 1.5-in meters for landscaping.

No. of fire services required, including sizes (contact local Fire Department for requirements): Assuming 7 8-10 in meters for all buildings.

IF MULTIPLE USES, PLEASE FILL OUT ALL THAT APPLY

RESIDENTIAL PROJECTS - SINGLE FAMILY

Total residential acreage: _____ Total Number of lots: _____

Project Amenities (check all that apply):

Pool Clubhouse Park
Occupancy: _____ Occupancy: _____ No. of bathrooms: _____
Showers? : _____ Showers? : _____ No. of Parking Spaces: _____
Kitchen? : _____

Other

Please give a detailed description : _____

LIBERTY UTILITIES DEVELOPMENT GUIDE
MARICOPA COUNTY, AZ

RESIDENTIAL PROJECTS - MULTI-FAMILY

Total acreage: _____ Number of units: _____

Project Amenities (check all that apply):

D Pool Occupancy: _____ Showers? : _____
D Clubhouse Occupancy: _____ Showers? : _____
D Park No. of bathrooms: _____
Kitchen? : _____

D Laundry No. of machines: _____
D Theater (if separate from clubhouse) No. of seats: _____

D Other
Please give a detailed description : _____

COMMERCIAL PROJECTS

Retail

(a) Total Site Acreage: _____
(b) Square Footage of store area: _____

Office

(a) Total Site Acreage: _____
(b) Square Footage of office space: _____
(c) Total occupancy: _____

Restaurant

(a) Total Site Acreage: _____
(b) Square Footage of building: _____
(c) Total occupancy: _____
(d) Estimated number of meals served per day: _____

School

(a) Total Site Acreage: _____
(b) Number of Staff: _____

LIBERTY UTILITIES DEVELOPMENT GUIDE
MARICOPA COUNTY, AZ

(c) Number of Students: _____

(d) Grade (i.e. K - 8): _____

(e) Check all that apply:
 Cafeteria Gym Showers Boarding

Other

(a) Total Site Acreage: 82.55 acres

(b) Square Footage of Building(s): 1.2MM square feet

(c) Relevant Information: Industrial type product to be built from raw land on a speculative basis

THIS FORM MUST BE ACCOMPANIED BY A WRITTEN REQUEST FOR SERVICE SIGNED BY THE OWNER, WITH AN ATTACHED WRITTEN LEGAL DESCRIPTION. This request must include the owner's name, project name and location (Parcel No., cross streets, address), type of service being requested (water, sewer – commercial, residential, multi-family), estimated start and completion dates, and an estimate of the water demand and/or sewer flows required for this project. Please address the letter to the Manager of Development Services.

I, the owner or owner's legal representative, hereby certify:

- 1) The information contained on this form is true and correct to the best of my knowledge. I understand that this information will be used to determine my initial administrative deposit, which will be due prior to the review of Construction Plans and Master Plans and any further coordination.
- 2) I have been provided with a copy of Utility's Development Guide, and General Construction Guide to read and understand. It is understood that this Development Guide outlines procedural requirements for water and/or sewer line extensions and additions, as well as A.A.C. R14-2-406.
- 3) I understand I will be responsible for all costs related to my development as it pertains to obtaining utility service. These costs can include, but are not limited to, hook-up fees (if applicable), other costs (if applicable), and costs related to the design, construction, and installation; which includes inspections and plan review, as well as utility administration to prepare appropriate agreements. It is further understood that these costs will be outlined in a Line Extension Agreement and/or Service Connection Agreement.

Steven Schwarz _____

President _____

Name Signed by:

Title



04-19-2023 | 10:30 PDT

DF4D7EF82932448...
Signature

Date

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Exhibit 2

Liberty Utilities Corporate Information

EXHIBIT 2

CORPORATE INFORMATION

Applicant Proper Name: Liberty Utilities (Litchfield Park Sewer) Corp.

Applicant Address: 14920 W. Camelback Road
Litchfield Park, AZ 85340

Corporate Structure: For-profit Chapter "C" Corporation
500,000 Shares authorized
7,820 shares issued on February 24, 2003

Officers: Moses Thompson, President
14920 W. Camelback Road
Litchfield Park, AZ 85340

Crystal Greene, Vice President Finance
14920 W. Camelback Road
Litchfield Park, AZ 85340

Directors: Arun Banksota, Director
354 Davis Road
Oakville, ON L6J 2X1

Johnny Johnston, COO
354 Davis Road
Oakville, ON L6J 2X1

Brian Thomas
14920 W. Camelback Road
Litchfield Park, AZ 85340

Virginia L. Grebbien
913 Encanada Drive
La Habra Heights, CA 90631

Christopher Robert Stump
14920 W. Camelback Road
Litchfield Park, AZ 85340

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Exhibit 3
Certificate of Good Standing from
the Arizona Corporation Commission

STATE OF ARIZONA



**Office of the
CORPORATION COMMISSION**

CERTIFICATE OF GOOD STANDING

I, the undersigned Executive Director of the Arizona Corporation Commission, do hereby certify that:

LIBERTY UTILITIES (LITCHFIELD PARK WATER & SEWER) CORP.

ACC file number: 00456262

was incorporated under the laws of the State of Arizona on 09/21/1954;

That all annual reports owed to date by said corporation have been filed or delivered for filing, and all annual filing fees owed to date have been paid; and

That, according to the records of the Arizona Corporation Commission, said corporation is in good standing in the State of Arizona as of the date this Certificate is issued.

This Certificate relates only to the legal existence of the above named entity as of the date this Certificate is issued, and is not an endorsement, recommendation, or approval of the entity's condition, business activities, affairs, or practices.

IN WITNESS WHEREOF, I have hereunto set my hand, affixed the official seal of the Arizona Corporation Commission, and issued this Certificate on this date: **03/20/2023**



A handwritten signature in cursive script that reads "Kim Battista".

Kim Battista, Interim Executive Director

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Exhibit 4
Legal Description of Extension Area

LEGAL DESCRIPTION

THAT PORTION OF THE SOUTHEAST QUARTER OF SECTION 9, TOWNSHIP 2 NORTH, RANGE 1 WEST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE EAST QUARTER CORNER OF SAID SECTION 9 FROM WHICH THE SOUTHEAST CORNER OF SAID SECTION 9 BEARS SOUTH 00°04'10" WEST, A DISTANCE OF 2613.16 FEET;

THENCE ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 9, SOUTH 00°04'10" WEST, A DISTANCE OF 208.03 FEET;

THENCE LEAVING SAID EAST LINE, NORTH 89°55'50" WEST, A DISTANCE OF 55.00 TO THE WEST RIGHT OF WAY LINE OF LITCHFIELD ROAD AND THE POINT OF BEGINNING;

THENCE ALONG SAID RIGHT OF WAY LINE, SOUTH 00°04'10" WEST, A DISTANCE OF 1616.01 FEET;

THENCE LEAVING SAID RIGHT OF WAY LINE, NORTH 88°47'14" WEST, A DISTANCE OF 1562.62 FEET;

THENCE NORTH 89°05'20" WEST, A DISTANCE OF 715.79 FEET;

THENCE NORTH 00°12'21" EAST, A DISTANCE OF 520.40 FEET TO THE BEGINNING OF A CURVE CONCAVE SOUTHEASTERLY WHOSE RADIUS BEARS SOUTH 51°00'04" EAST, A DISTANCE OF 6500.00 FEET;

THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, THROUGH A CENTRAL ANGLE OF 1°02'36", FOR AN ARC LENGTH OF 118.36 FEET;

THENCE NORTH 00°12'21" EAST, A DISTANCE OF 1002.32 FEET;

THENCE SOUTH 88°53'38" EAST, A DISTANCE OF 2199.55 FEET TO THE POINT OF BEGINNING.

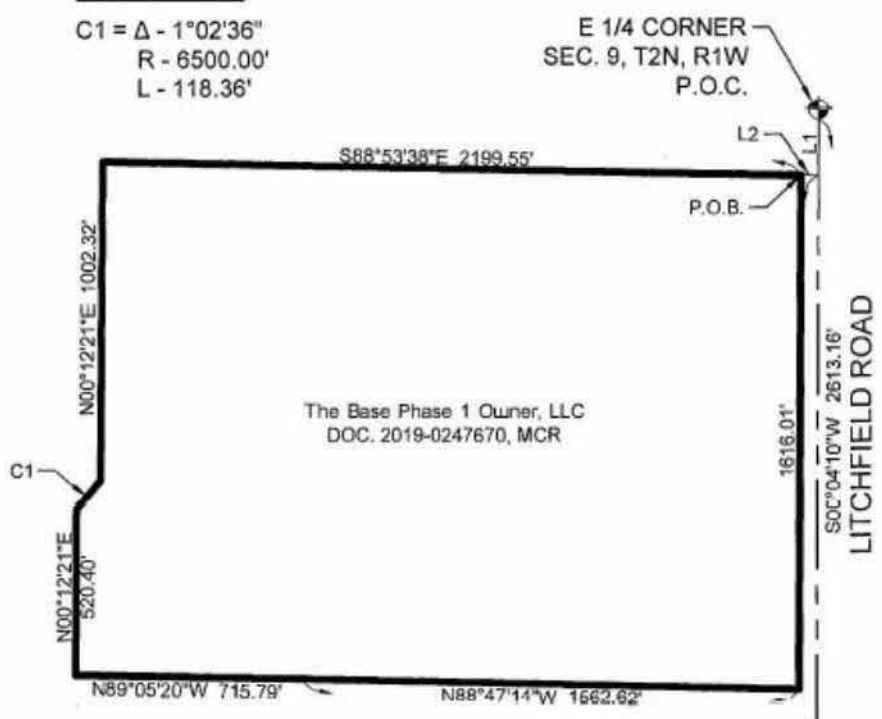
SAID PARCEL CONTAINS 3,596,106 SQUARE FEET OR 82.55 ACRES MORE OR LESS.





CURVE TABLE

C1 = Δ - 1°02'36"
R - 6500.00'
L - 118.36'



E 1/4 CORNER
SEC. 9, T2N, R1W
P.O.C.

L2
L1

P.O.B.

LITCHFIELD ROAD

The Base Phase 1 Owner, LLC
DOC. 2019-0247670, MCR

LINE TABLE

L1 = S00°04'10\"W 208.03'
L2 = S89°55'50\"E 55.00'

SE CORNER
SEC. 9, T2N, R1W



CHAD W. HUBER
RLS 35316
7740 N. 16TH STREET, SUITE 300
PHOENIX, ARIZONA 85020
PH. 602-837-5511
chad.huber@kimley-horn.com

LEGEND

P.O.C. = POINT OF COMMENCING
P.O.B. = POINT OF BEGINNING

Kimley»Horn
 7740 N. 16TH ST, Suite 300
 PHOENIX, AZ 85020
 Tel. No. (602) 837-6611

Drawn	Checked	Date	Project No.	Sheet No.
N.T.S.	CWH	07/07/2022	191002009	3 OF 3

LEGAL DESCRIPTION

A PORTION OF THE SOUTHEAST QUARTER OF SECTION 9 AND THE NORTHEAST QUARTER OF SECTION 16, TOWNSHIP 2 NORTH, RANGE 1 WEST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE EAST QUARTER CORNER OF SAID SECTION 16 FROM WHICH THE NORTHEAST CORNER OF SAID SECTION 16 BEARS NORTH 00°05'09" WEST, A DISTANCE OF 2593.53 FEET;

THENCE ALONG THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 16, NORTH 00°05'09" EAST, A DISTANCE OF 1297.53 FEET;

THENCE LEAVING SAID EAST LINE, NORTH 89°54'51" WEST, A DISTANCE OF 55.00 FEET TO THE WEST RIGHT OF WAY LINE OF LITCHFIELD ROAD AND THE POINT OF BEGINNING;

THENCE LEAVING SAID RIGHT OF WAY LINE, NORTH 89°00'30" WEST, A DISTANCE OF 2049.94 FEET;

THENCE NORTH 00°04'10" EAST, A DISTANCE OF 1667.37 FEET;

THENCE NORTH 89°55'50" WEST, A DISTANCE OF 229.06 FEET;

THENCE NORTH 00°12'21" EAST, A DISTANCE OF 426.70 FEET;

THENCE SOUTH 89°05'20" EAST, A DISTANCE OF 715.79 FEET;

THENCE SOUTH 00°04'31" WEST, A DISTANCE OF 755.05 FEET;

THENCE SOUTH 88°47'08" EAST, A DISTANCE OF 1562.78 FEET TO SAID WEST RIGHT OF WAY LINE OF LITCHFIELD ROAD;

THENCE ALONG SAID RIGHT OF WAY LINE, SOUTH 00°04'13" WEST, A DISTANCE OF 33.00 FEET;

THENCE CONTINUING ALONG SAID RIGHT OF WAY LINE, SOUTH 00°05'09" WEST, A DISTANCE OF 33.01 FEET;

THENCE LEAVING SAID RIGHT OF WAY LINE, NORTH 88°47'08" WEST, A DISTANCE OF 495.00 FEET;

THENCE SOUTH 00°05'21" WEST, A DISTANCE OF 352.00 FEET;

THENCE SOUTH 88°47'08" EAST, A DISTANCE OF 195.02 FEET TO SAID WEST RIGHT OF WAY LINE;

THENCE ALONG SAID RIGHT OF WAY LINE, SOUTH 00°05'09" WEST, A DISTANCE OF 385.61 FEET;

THENCE LEAVING SAID RIGHT OF WAY LINE, NORTH 89°54'39" WEST, A DISTANCE OF 590.04 FEET;

THENCE SOUTH 35°46'14" WEST, A DISTANCE OF 390.67 FEET;

THENCE SOUTH 43°00'02" EAST, A DISTANCE OF 64.68 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHEASTERLY WHOSE RADIUS BEARS NORTH 46°59'58" EAST, A DISTANCE OF 373.00 FEET;

THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE, TO THE LEFT, THROUGH A CENTRAL ANGLE OF 24°03'51", FOR AN ARC LENGTH OF 156.66 FEET;

THENCE SOUTH 67°03'52" EAST, A DISTANCE OF 44.39 FEET TO THE BEGINNING OF A CURVE CONCAVE NORTHERLY WHOSE RADIUS BEARS NORTH 22°56'08" EAST, A DISTANCE OF 373.00 FEET;

THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE, TO THE LEFT, THROUGH A CENTRAL ANGLE OF 22°02'50", FOR AN ARC LENGTH OF 143.53 FEET;

THENCE SOUTH 89°05'48" EAST, A DISTANCE OF 465.70 FEET TO SAID WEST RIGHT OF WAY LINE OF LITCHFIELD ROAD;

THENCE ALONG SAID RIGHT OF WAY LINE, SOUTH 00°05'09" WEST, A DISTANCE OF 19.90 FEET TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINS 2,671,545 SQUARE FEET OR 61.330 ACRES MORE OR LESS.





LEGEND

P.O.C. = POINT OF COMMENCING
P.O.B. = POINT OF BEGINNING

E 1/4 CORNER
SEC. 9, T2N, R1W

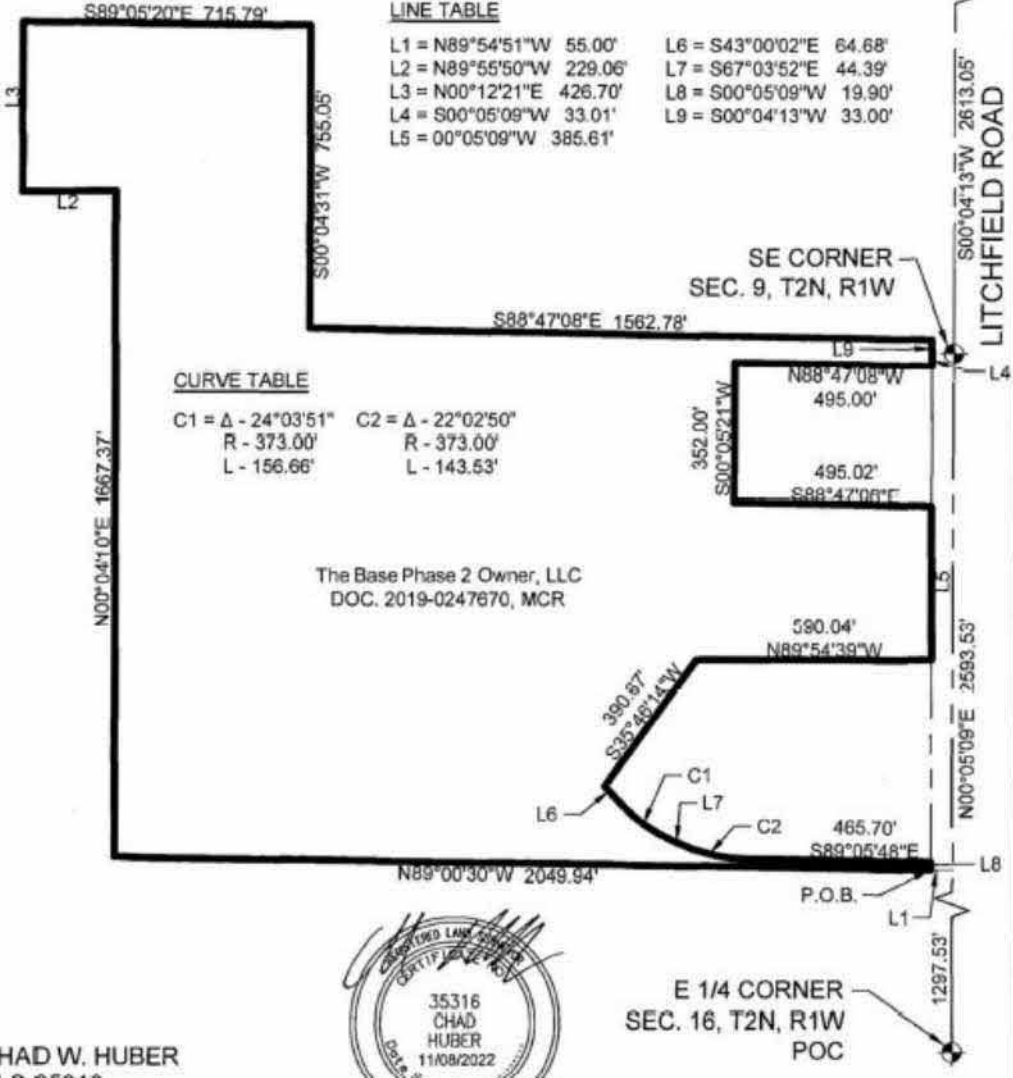
LINE TABLE

- L1 = N89°54'51"W 55.00'
- L2 = N89°55'50"W 229.06'
- L3 = N00°12'21"E 426.70'
- L4 = S00°05'09"W 33.01'
- L5 = 00°05'09"W 385.61'
- L6 = S43°00'02"E 64.68'
- L7 = S67°03'52"E 44.39'
- L8 = S00°05'09"W 19.90'
- L9 = S00°04'13"W 33.00'

CURVE TABLE

- C1 = Δ - 24°03'51" R - 373.00' L - 156.66'
- C2 = Δ - 22°02'50" R - 373.00' L - 143.53'

The Base Phase 2 Owner, LLC
DOC. 2019-0247670, MCR



CHAD W. HUBER
 RLS 35316
 7740 N. 16TH STREET, SUITE 300
 PHOENIX, ARIZONA 85020
 PH. 602-837-5511
 chad.huber@kimley-horn.com

Kimley»Horn

7740 N. 16TH ST., SUITE 300
PHOENIX, AZ 85020 Tel. No. (602) 837-5511

Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
N.T.S.	CHW	CHW	11/08/2022	201002010	1 OF 1

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Exhibit 5
Map of Municipalities within a Five-Mile Radius

- City of Glendale
- No City/Town
- City of Goodyear
- City of Litchfield Park
- City of El Mirage
- City of Surprise
- City of Avondale
- City of Peoria

The CC&N Extension Area consists of 7 parcels. The total Extension Area is approximately 143.38 acres. The current owner of the parcels is Airpark 30, LLC, except for parcel 501-62-018D, which is owned by VWP Litchfield Donut, LLC. There are no existing sewer service connections within the CC&N Extension area.

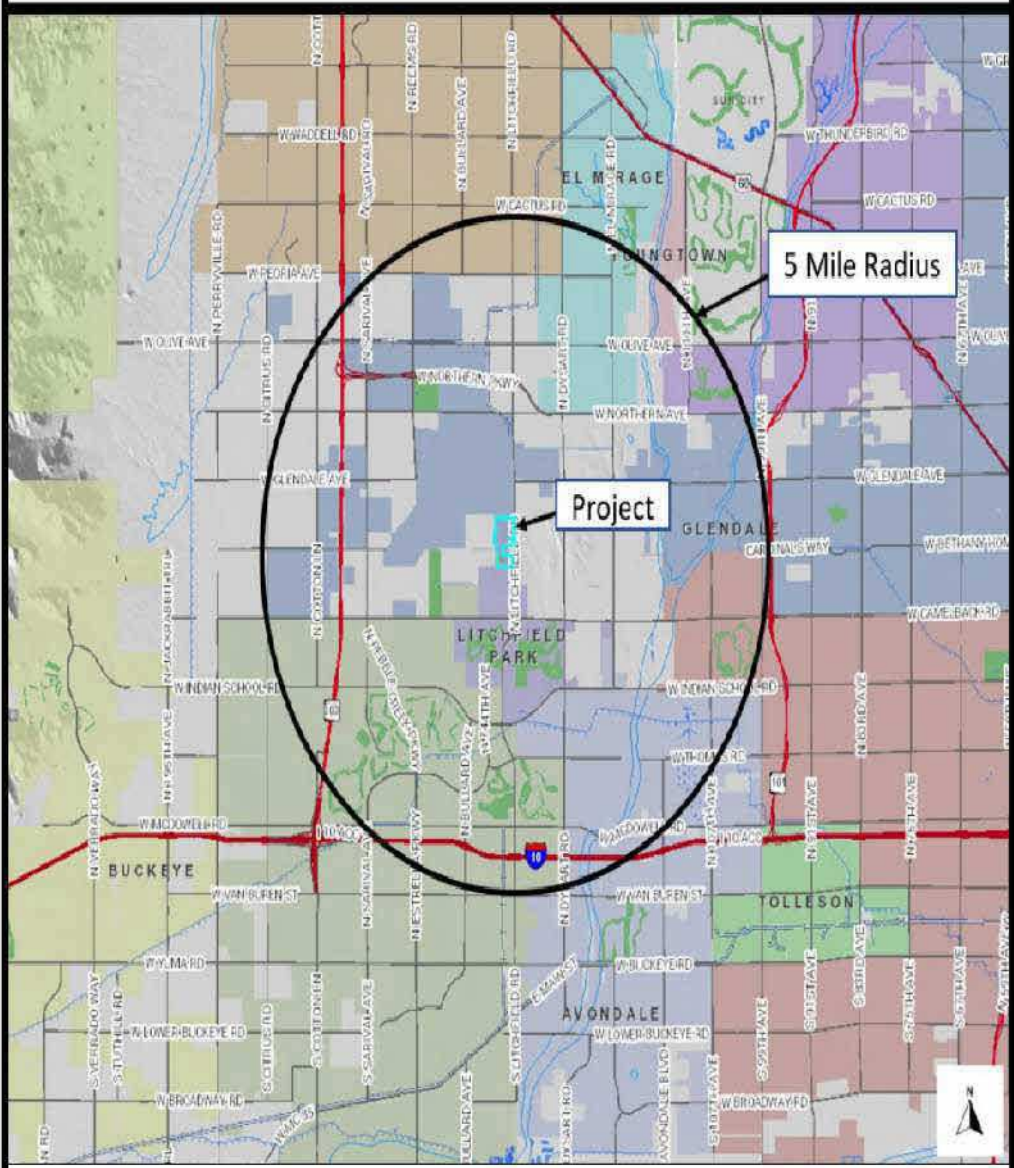


Exhibit 5
MAP OF 5 MILE RADIUS AND ADJACENT MUNICIPALITIES
THE BASE INDUSTRIAL PARK
 Glendale, AZ

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Exhibit 6
Engineering Wastewater Report

The Base Industrial Park

MASTER SEWER SYSTEM ANALYSIS



APRIL 2023

Prepared By:

Kimley»»Horn

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2.2	PREVIOUS STUDIES.....	2
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6.1	PROPOSED SEWER SYSTEM LAYOUT.....	5
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6.3	PROPOSED SPECIAL WASTEWATER FACILITIES.....	6
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Appendix B – Land Use Map
Appendix C – City of Glendale Quarter Section Maps
Appendix D – Proposed Sewer Infrastructure Exhibit
Appendix E – Victory Base 60% Offsite Sewer Plan by EPS Group, INC
Appendix F – Sewer Flow Calculations
Appendix G – Opinion of Probable Costs

1.0 INTRODUCTION

1.1 PROJECT DESCRIPTION

A new industrial development will be located on multiple parcels of land. This project is phased, and the project will include warehouse developments as well as supporting roadway, utility, drainage, and site infrastructure.

1.2 SITE LOCATION

The site encompasses approximately 143.88 acres in Glendale, Arizona, near the northwest corner of W Bethany Home Road and N Litchfield Road. The north phase of the site is approximately 82.55 acres, and the south phase is approximately 61.33 acres. The site is located in a portion of the Southeast Quarter of Section 9, Township 2 North, Range 1 West of the Gila and Salt River Base and Meridian in Maricopa County, Arizona. See Appendix A for the Vicinity Map. The north phase is parcel 501-58-001L (82.55 acres). The south phase includes parcels 501-62-018V (56.96 acres) and parcel 501-62-018D (4.37 acres). The site is zoned Light Industrial (M-1). More specifically, the site is bounded by the Litchfield Road alignment to the east, vacant property owned by Luke Airforce Base to the north and west, vacant property owned by Sun Health Services to the south, and an existing storage site in between the two phases. The site slopes from the northwest to the southeast at approximately 0.35%. Refer to Appendix B for the Land Use Map.

1.3 PURPOSE

This sewer report for The Base Industrial Park is intended to satisfy the City of Glendale Engineering Design and Construction Standards and the Liberty Utilities Development Guide. It provides a description of the sewer system requirements (demands), infrastructure location and sizing, and phasing for The Base Industrial Park.

1.4 OBJECTIVES

This sewer report provides an infrastructure plan for the development of The Base Industrial Park that will meet the City of Glendale and Liberty Utilities guidelines. The report will demonstrate the following:

- Wastewater demands for the site development.
- Location and size of proposed wastewater infrastructure improvements necessary to serve the site and future development of the surrounding the site.

2.0 DESIGN DOCUMENTATION

2.1 DESIGN PROCEDURES, POLICIES, AND METHODOLOGIES

The proposed sewer network for the site was analyzed using FlowMaster by Bentley. The sewer analysis utilized the Manning's equation for gravity flow pipes to determine the size of the wastewater infrastructure in accordance with the following standards as outlined in Chapter 7 of the 2015 City of Glendale Engineering Design and Construction Standards and Section 2 of the 2014 Liberty Utilities Development Guide.

- Minimum velocity in gravity sewer lines shall be not less than 2.0 fps based upon Manning's formula with an "n" value of 0.013. (P.31, Liberty Utilities Development Guide)
- Maximum velocity will be limited to 10 fps for gravity sewer pipe. (P.31, Liberty Utilities Development Guide)
- Sewer capacity ratio (d/D) for gravity sewer pipes shall be no greater than 0.75 in the maximum peak flow condition. (P.31, Liberty Utilities Development Guide)

2.2 PREVIOUS STUDIES

No previous studies have been done for this site.

3.0 DESCRIPTION OF EXISTING SEWER INFRASTRUCTURE

3.1 EXISTING SEWER INFRASTRUCTURE

The site currently consists of vacant desert. No wastewater infrastructure currently exists on-site. This site will be serviced by Liberty Utilities.

No wastewater infrastructure currently exists off-site in Litchfield Rd to the east or Super Saber St to the north. Prior to construction, a sewer main will be constructed within Litchfield Rd by others. This sewer main is proposed to begin at the intersection of Super Sabre Street and Litchfield Road. The sewer is designed to flow south within Litchfield Road until the intersection with Bethany Home Road. The sewer is designed to flow east within Bethany Home Road until tying into an existing manhole at the intersection with 135th Avenue. See Appendix E for EPS Group, Inc Sewer Main Plans.

See Appendix C for the City of Glendale Quarter Section Maps showing no existing City sewer infrastructure around the site.

4.0 DEMANDS

4.1 GENERAL

The sewer demands for The Base Industrial Park will be determined based on Arizona Administrative Code and Liberty Utilities Development Guide. This report will review the demands for both phases of the site which encompasses approximately 143 acres. Liberty Utilities Development Guide requires industrial buildings an average flow of 1,500 gal/acre/day. The entirety of the site is M-1 zoning for light industrial. Refer to Appendix B for the Land Use Map. A capacity letter from Liberty is required by MCESD, when applying for an ATC, to ensure that the system has available capacity to accept the demands. Liberty is in the process of constructing the new Sarival Water Reclamation Facility ("Sarival WRF") located on Sarival Road in Goodyear, Arizona. The Sarival WRF will be constructed as a membrane bioreactor plant with an operating capacity of four (4) million gallons per day (MGD) of wastewater treatment capacity expandable to 8 MGD. For the new plant Liberty expects testing to begin in late 2023 or January 2024 with full operations in May 2024. Meanwhile, the Company's Palm Valley Water Reclamation Facility does not have any unallocated treatment capacity for new developments and connections. As such wastewater service for new service connections is not expected to be available in Liberty's service area until the estimated completion of Sarival WRF in May of 2024 or such earlier time when Liberty determines it has sufficient interim capacity to serve developer demands.

4.2 SITE SEWER DEMANDS

As noted above, the site is divided into two phases zoned for industrial use and will include 15 buildings. The sewer demands for each building are based on the size of each building in relation to the overall size of the site. Each building is converted to a percentage of total building area. The percentage of building area is multiplied by the total site area to determine a design area for each building relative to the total site area. Tables 1, 2, and 3 below provides the design flow rates for each phase of the site and the total site per Liberty Utilities Development Guide.

Table 1: North Phase Sewer Demand Calculations

Connection	Use	Sewage Demand Rate		Demand Criteria		Sewage Design Flow [GPD]
		gpd/ac	unit	No.	unit	
Building 1	Industrial/Warehouse	1500	gpd/ac	5.92	ac	8,880
Building 2	Industrial/Warehouse	1500	gpd/ac	21.52	ac	32,280
Building 3	Industrial/Warehouse	1500	gpd/ac	9.18	ac	13,770
Building 4	Industrial/Warehouse	1500	gpd/ac	10.65	ac	15,975
Building 5	Industrial/Warehouse	1500	gpd/ac	9.86	ac	14,790
Building 6	Industrial/Warehouse	1500	gpd/ac	11.48	ac	17,220
Building 7	Industrial/Warehouse	1500	gpd/ac	13.57	ac	20,355
Total						123,270

Table 2: South Phase Sewer Demand Calculations

Connection	Use	Sewage Demand Rate		Demand Criteria		Sewage Design Flow [GPD]
		gpd/ac	unit	No.	unit	
Building 8	Industrial/Warehouse	1500	gpd	10.33	ac	15,495
Building 9	Industrial/Warehouse	1500	gpd	8.96	ac	13,440
Building 10	Industrial/Warehouse	1500	gpd	5.24	ac	7,860
Building 11	Industrial/Warehouse	1500	gpd	5.24	ac	7,860
Building 12	Industrial/Warehouse	1500	gpd	11.03	ac	16,545
Building 13	Industrial/Warehouse	1500	gpd	3.21	ac	4,815
Building 14	Industrial/Warehouse	1500	gpd	6.00	ac	9,000
Building 15	Industrial/Warehouse	1500	gpd	11.11	ac	16,665
Total						91,680

Table 3: Total Sewer Demand Calculations

Phase	Use	Sewage Demand Rate		Demand Criteria		Sewage Design Flow [GPD]
		gpd/ac	unit	No.	unit	
North	Industrial/Warehouse	1500	gpd	82.18	ac	123,270
South	Industrial/Warehouse	1500	gpd	61.11	ac	91,680
Total						214,950

4.3 ADJACENT PARCEL SEWER DEMANDS

Information about adjacent parcel sewer demands is unknown.

5.0 DATA ANALYSIS METHODS

5.1 DESIGN CRITERIA

The proposed sewer system is analyzed using Bentley FlowMaster which uses Manning's equation. The following design criteria will be used:

- Minimum pipe diameter of six inches
- Minimum mean full flow velocity of 2.0 feet per second (fps)
- Manning's "n" value of 0.013
- Maximum peak flow velocity of 10 fps
- Maximum depth to Diameter (d/D) ratio of 0.75 for pipes at peak hour

In general, The Base Industrial Park slopes from the northeast to the southwest at approximately 1.8%, with greater slope in the north-south direction. Sewer mains running in the east-west direction will be designed with minimal slopes, and sewer mains running in a north-south direction will have greater slopes that can be adjusted to achieve a desirable sewer depth.

6.0 RESULTS

6.1 PROPOSED SEWER SYSTEM LAYOUT

As previously noted, a sewer main will be constructed in Litchfield Road by others. The proposed sewer system for The Base Industrial Park site will connect to this new sewer main to provide service for each building on site.

The north phase sewer system will consist of two 8" PVC sewer lines that run west to east and tie into separate manholes along the constructed 12" PVC sewer main in Litchfield Road. All buildings except one will be provided with a 6" service line that ties into one of the 8" sewer lines. Building number 2 will be provided with three 6" service lines that tie into the northern most 8" sewer line.

The south phase sewer system will consist of an 8" PVC sewer line that begins near the SWC of the site and flows north. The 8" sewer changes directions at a manhole and flows east until tying into an existing manhole at the intersection of Bethany Home Road and Litchfield Road. 6" building sewer services tie into the 8" sewer line before discharging into the public sewer system.

The 8" sewer mains on the site will run at a slope of 0.35% while the 6" services will run at a slope of 0.84%.

Refer to Appendix D for the Proposed Sewer Infrastructure Exhibit showing the existing and proposed sewer infrastructure. Refer to Appendix F for Sewer Capacity Calculations.

6.2 CONFORMANCE TO PREVIOUS STUDIES

No previous studies have been done for this site.

6.3 PROPOSED SPECIAL WASTEWATER FACILITIES

No special wastewater facilities are proposed for this site.

6.4 PROJECT PHASING

This site will be constructed in two phases, a north and south phase.

The north phase will consist of seven industrial buildings on approximately 82.55 acres. Each of these buildings will be provided with sewer services that are independent from the south phase.

The south phase will consist of eight industrial buildings on approximately 61.33 acres. Each of these buildings will be provided with sewer services that are independent from the north phase.

The off-site sewer improvements will be constructed by others prior to The Base Industrial Park site. Refer to Appendix E for a preliminary public sewer main design.

7.0 CONCLUSION

7.1 OVERALL PROJECT

Based on the results of this sewer system analysis, the following can be concluded:

- Sewer service can be provided for the site from future sewer main constructed by others in Litchfield Rd.
- The sewer demand calculations are based on conservative assumptions; the proposed sewer layout will be able to handle the sewer demands.

This sewer system analysis is intended to provide a level of assurance that sewer service can be provided to the site. It is also intended to provide guidance for future developments.

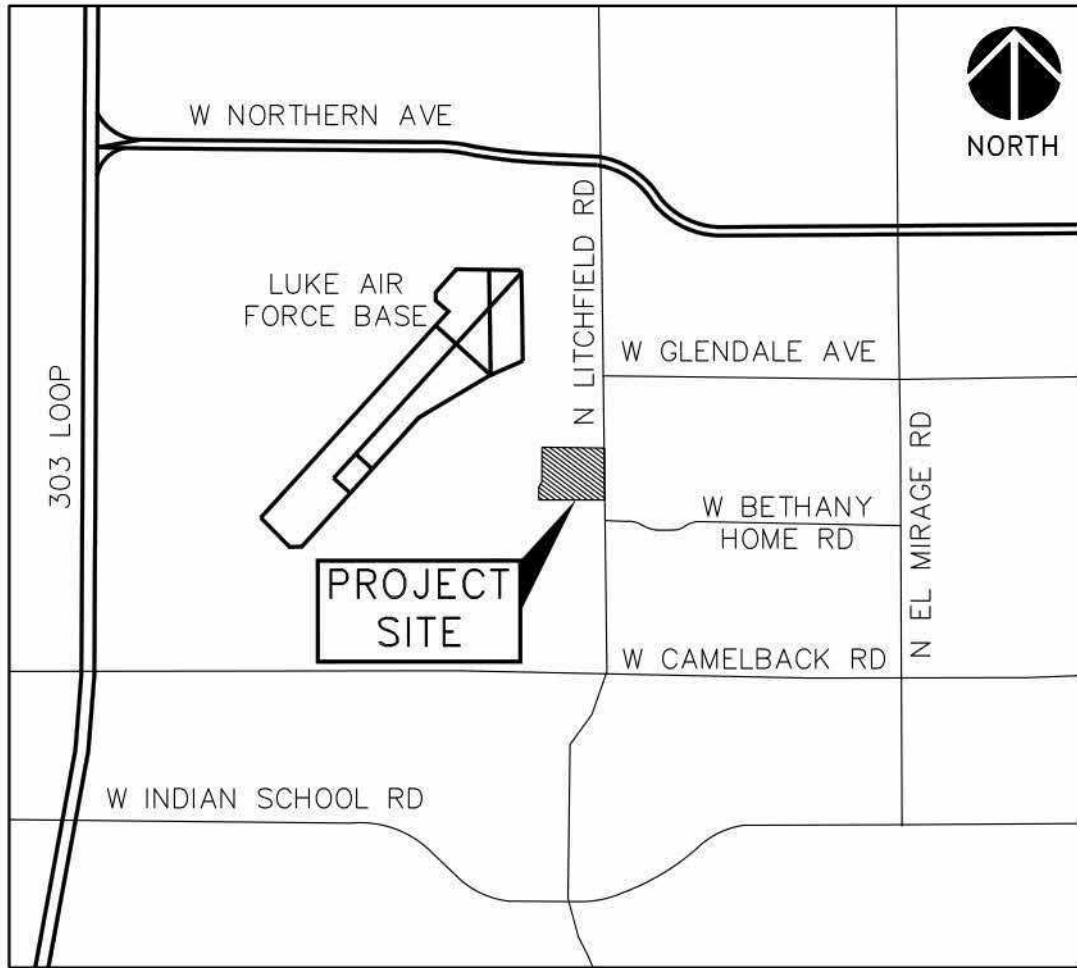
8.0 REFERENCES

FlowMaster v8i, Bentley Systems, Inc. and FlowMaster User's Guide. 2017

Liberty Utilities Development Guide Maricopa County, AZ, January 2014.

Offsite 60% Sewer Plans for Victory Base Litchfield Rd. & Bethany Home Rd. November 2021.

Appendix A – Vicinity Map



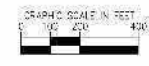
SITE LOCATION MAP

GLENDAL, AZ
N.T.S.

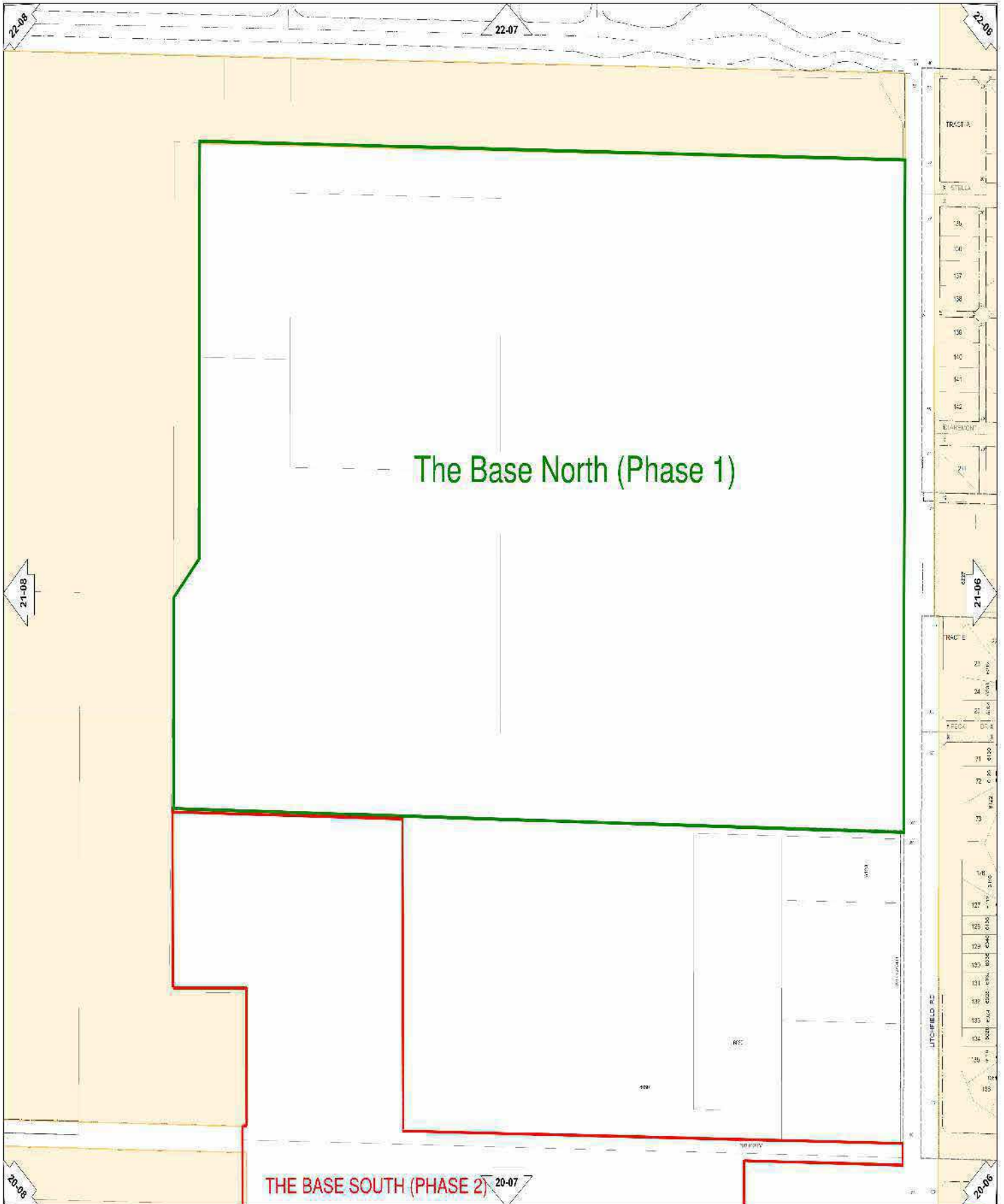


Appendix B – Land Use Map

\\s01\apps\GIS\Projects\2020\20200909 - LINDSEY SCHEIDT\Map\2020\20200909 - LINDSEY SCHEIDT\Map\2020\20200909 - LINDSEY SCHEIDT.dwg



Appendix C – City of Glendale Quarter Section Maps



The Base North (Phase 1)

THE BASE SOUTH (PHASE 2) 20-07



LEGEND			



COMMENTS

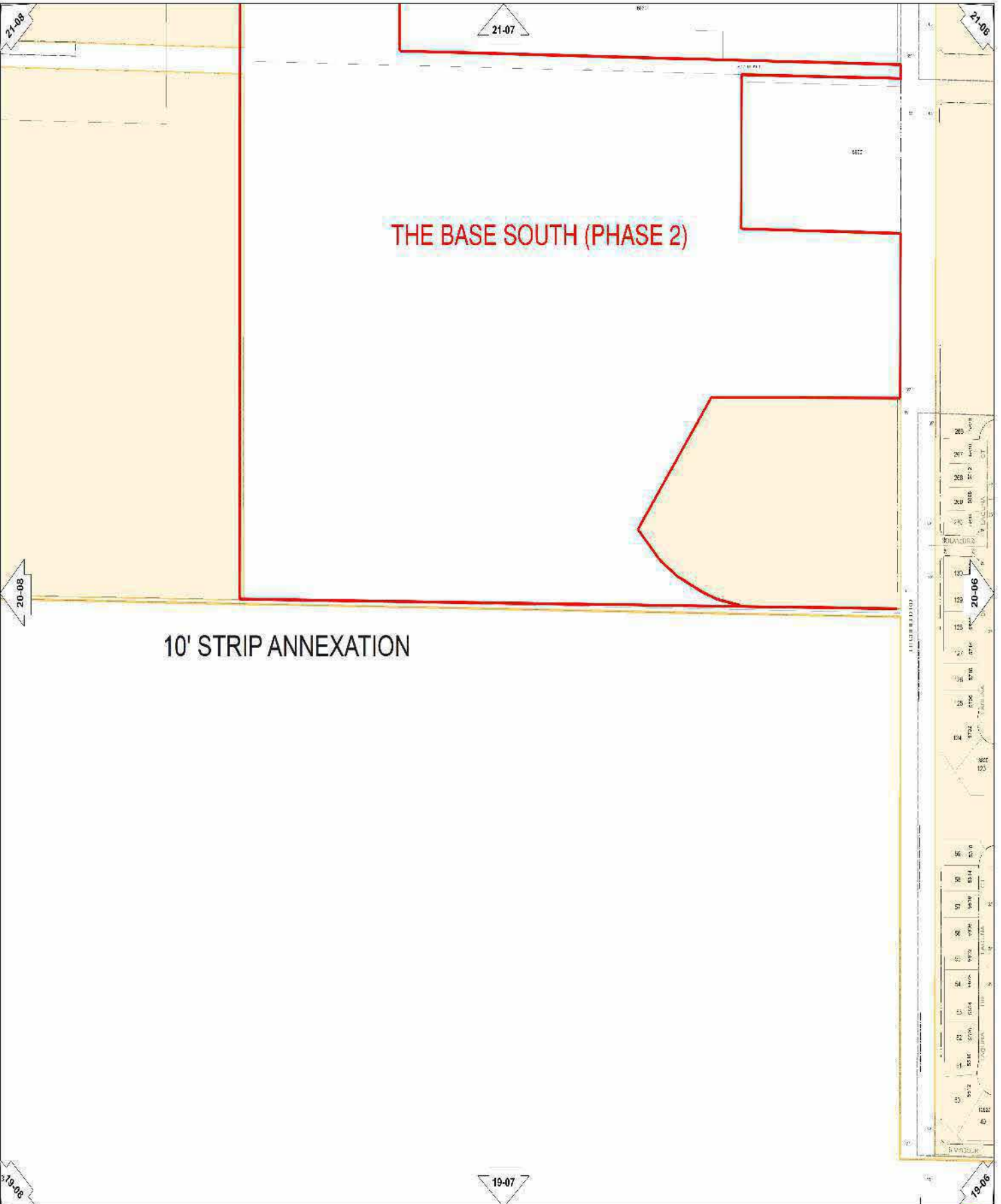
THIS INFORMATION IS SOLO FOR REFERENCE ONLY & WHILE EVERY EFFORT HAS BEEN TAKEN IN ITS PREPARATION, THE CITY OF GLENDALE ENGINEERING DEPT. DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN HEREOF.

THIS DRAWING IS FOR VISUAL EFFECTS ONLY. DO NOT SCALE. PLOT DATE: JUL 14, 2021

CITY OF GLENDALE
ENGINEERING DEPARTMENT
SEWER QUARTER-SECTION MAP
NO. 21-07

SE 1/4 SEC 8 T-2-N R-4-W





THE BASE SOUTH (PHASE 2)

10' STRIP ANNEXATION

LEGEND

	MANHOLE		CATCH BASIN		SEWER
	STORM SEWER		WATER MAIN		PROPOSED SEWER
	PROPOSED STORM SEWER		PROPOSED WATER MAIN		PROPOSED STORM SEWER



COMMENTS

THIS INFORMATION IS SOLELY FOR REFERENCE ONLY AND WHILE EVERY EFFORT HAS BEEN TAKEN IN ITS PREPARATION BY THE CITY OF GLENDALE ENGINEERING DEPT. DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN HEREOF.

THIS DRAWING IS FOR VISUAL EFFECTS ONLY. DO NOT SCALE. PLOT DATE: JUL 14, 2021

CITY OF GLENDALE

ENGINEERING DEPARTMENT
SEWER QUARTER-SECTION MAP
NO. 20-07
NE 1/4 SEC 16 T-2-N R-4-W
SUNSHINE, CALIF.

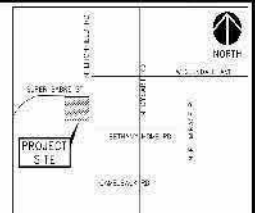
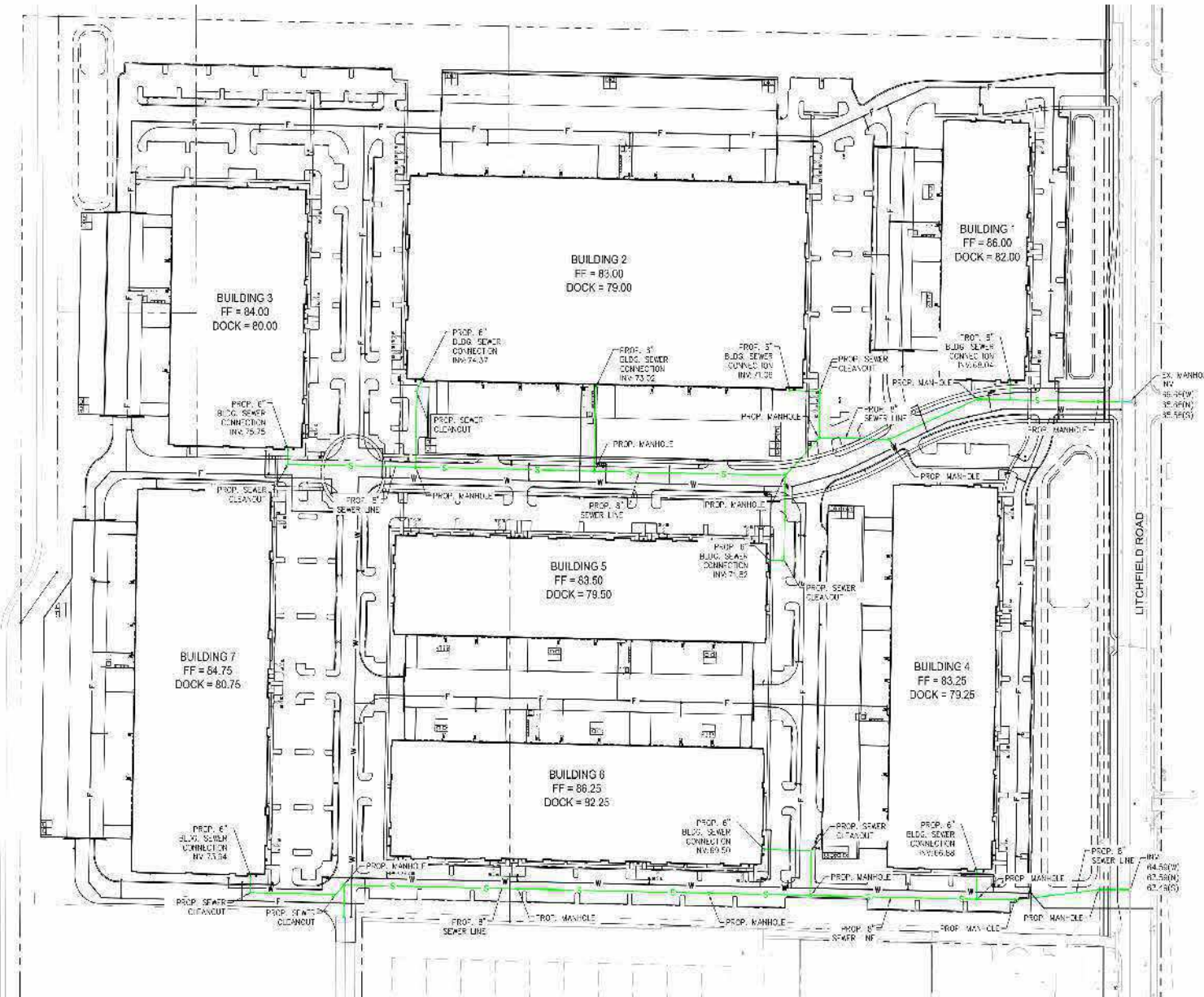


22217.2023

Appendix D – Proposed Sewer Infrastructure Exhibit

PROJECT No. 151200209
 SCALE: 1/8" = 1'-0"
 DRAWN BY: RJD
 CHECKED BY: EAW
 DATE: 10/25/2007
 SHEET No. UT1
 OF 1 SHEETS
 DATE: 10/25/2007

EXHIBIT B



VICINITY MAP
 S. PIMA F. 27
 N.T.S.



Kimley»Horn

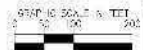
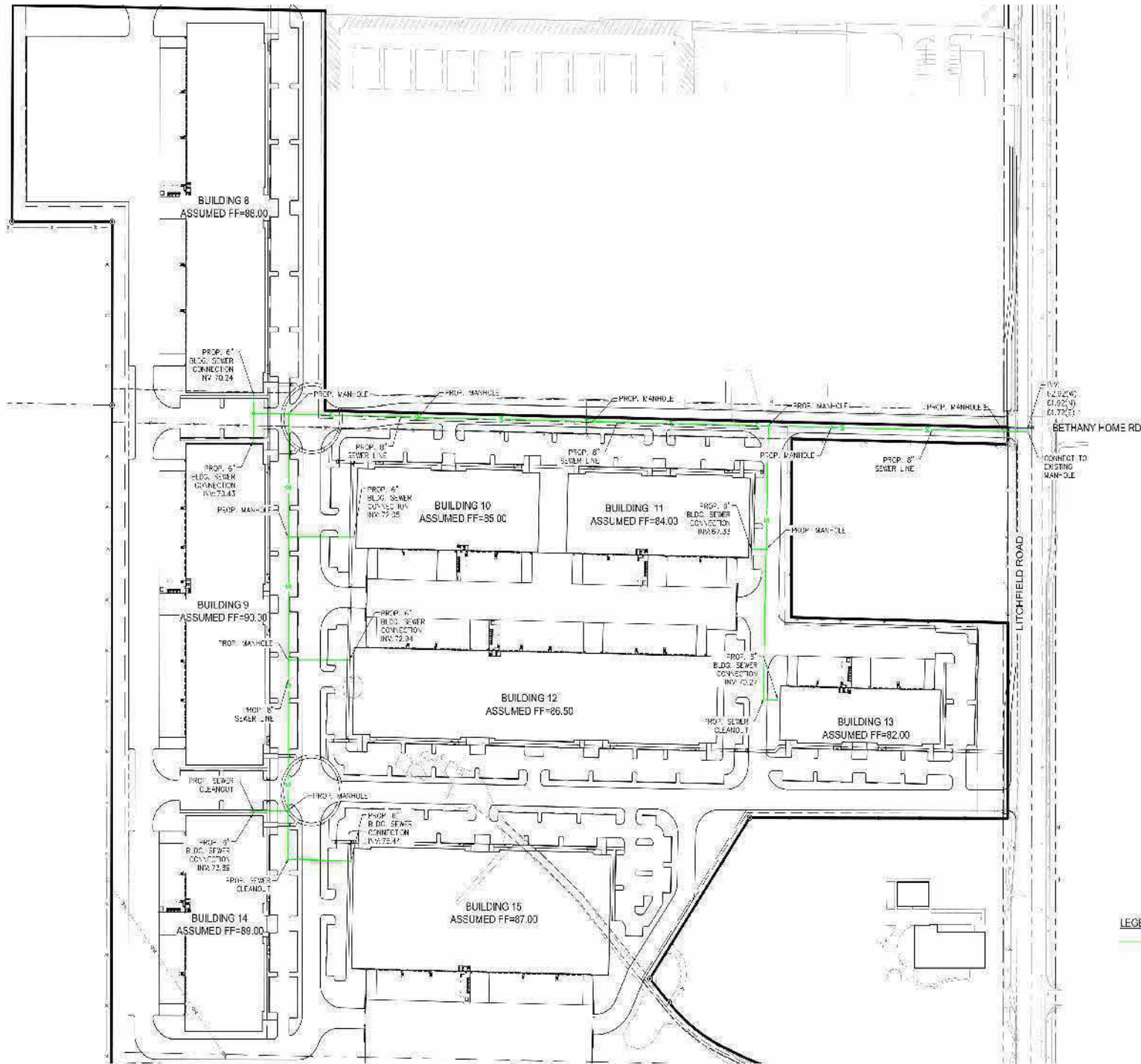
-VIAWEST- Group
 LITCHFIELD 82

BETHANY HOME ROAD & LITCHFIELD ROAD
THE BASE INDUSTRIAL PARK - NORTH
 GLENDALE, ARIZONA 85340

PROJECT No.	151200209
SCALE (H/S)	1/8" = 1'-0"
SCALE (V/S)	AS SHOWN
DRAWN BY	RJD
CHECKED BY	EAW
DATE	10/25/2007

UT1
 1 OF 1 SHEETS
 DATE: 10/25/2007

EXHIBIT 3



Kimley»Horn

-VIAWEST
Group
LITCHFIELD 82

BETHANY HOME ROAD & LITCHFIELD ROAD
THE BASE INDUSTRIAL PARK - SOUTH
GLENDALE, ARIZONA 85340

PROJECT No.
1E1002009
SCALE (H): 1"=100'
SCALE (V): AS SHOWN
DRAWN BY: RJC
CHECKED BY: EAW
DATE: 10/25/2007

UT1
1 OF 1 SHEETS

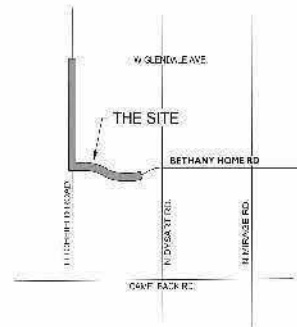
22-17-2022
KIMLEY-HORN AND ASSOCIATES, INC. 1400 WEST WASHINGTON AVENUE, SUITE 200, GLENDALE, ARIZONA 85340
PROJECT NO. 1E1002009 - THE BASE INDUSTRIAL PARK - SOUTH
SHEET NO. UT1 OF 1 SHEETS
DATE: 10/25/2007

Appendix E – Victory Base 60% Offsite Sewer Plan by EPS Group, INC

OFFSITE SEWER PLANS FOR VICTORY BASE LITCHFIELD RD & BETHANY HOME RD

MARICOPA COUNTY, ARIZONA

PORTIONS OF THE WEST HALF OF SECTION 10, TOWNSHIP 2 NORTH, RANGE 1 WEST
OF GILA AND SALT RIVER MERIDIAN,
MARICOPA COUNTY, ARIZONA



VICINITY MAP
N1E

OWNER
JOHN W. SHANKLEY
VICTORY BASE RE, LLC
PO BOX 817
ROCKWELL, TX 76787
EMAIL: JSHANKLEY@VICTORYBASE.COM

ENGINEER
EPS GROUP, INC.
1130 N. ALPINE SCHOOL RD., SUITE 100
MESA, AZ 85201
TEL: (480) 593-2250
FAX: (480) 593-2258
CONTACT: BRANDON ACURE, P.E.
EMAIL: b.acure@epsgrp.com

SHEET INDEX:

DESCRIPTION	CSD#	SHEET NO
COVER SHEET	CS01	1
GENERAL NOTES	CS02	2
ESTIMATE QTY QUANTITIES, SECTIONS & DETAILS	CS03	3
SEWER PLAN AND PROFILES	CS04 - CS09	4-9

APPROVAL

DESIGNER:
THE COUNTY ENGINEER HAS REVIEWED THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS OR OMISSIONS.

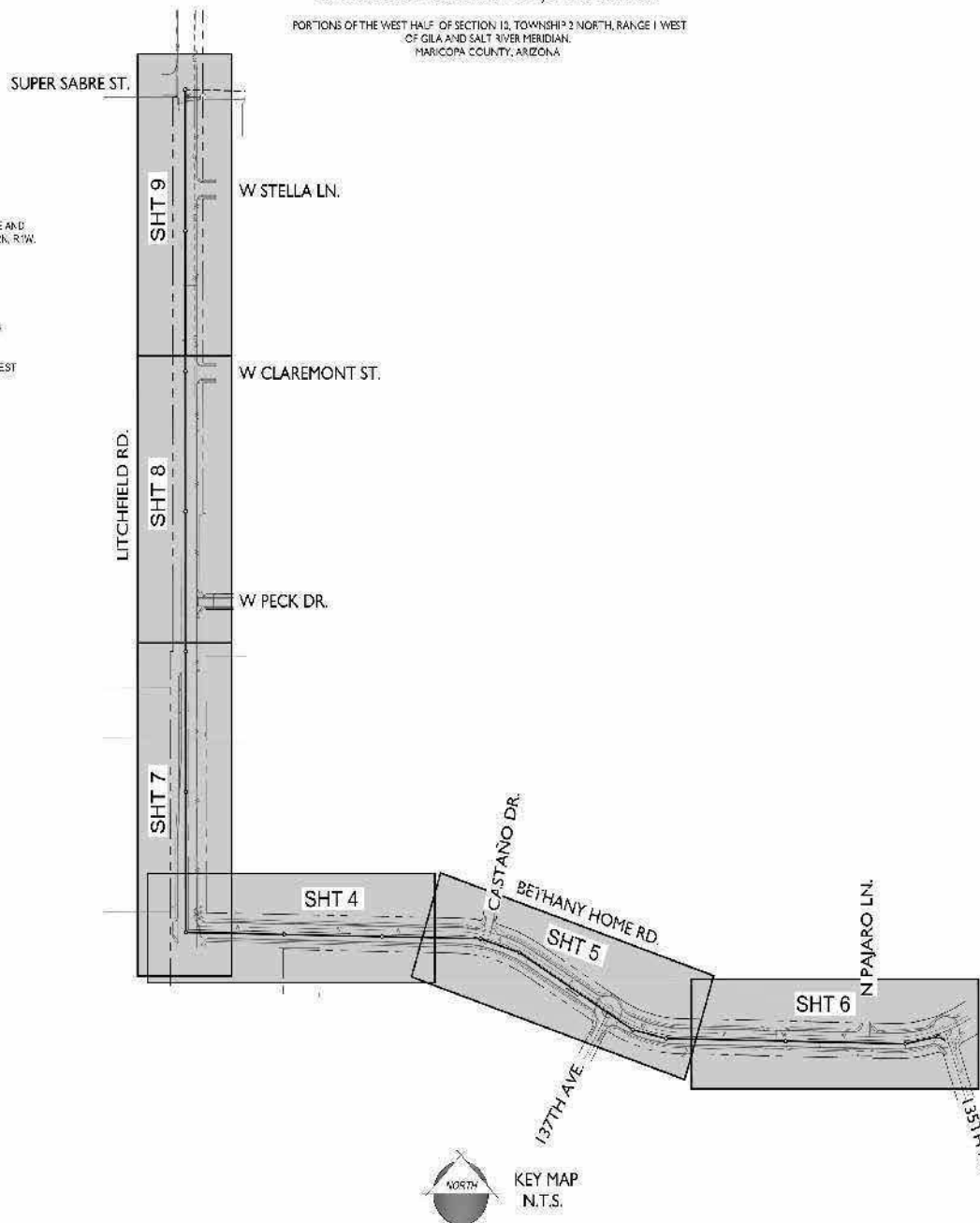
MARICOPA COUNTY ENGINEER: [Signature] DAU

MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT
MCDP/PERMITAL SERVICES/DESIGN/REGISTRATION [Signature] DWT

LIBERTY UTILITIES (115-115 PARKWAY AND SPANER) [Signature] DWL

UTILITY COMPANIES DATE SUBMITTED

UTILITY COMPANIES	DATE SUBMITTED
ELECTRIC: W-ZONE PUBLIC SERVICE	
TELEPHONE: CORTELUMEX	
CITY: COX COMMUNICATIONS	
WATER: LIBERTY UTILITIES	
SEWER: LIBERTY UTILITIES	
GAS: SOUTHWEST GAS	



BENCHMARK
51961 MARICOPA COUNTY HIGHWAY DEPARTMENT (MCD) BRASS CAP IN
HANDHOLE STAMPED "N38" AT THE INTERSECTION OF W GLENDALE AVENUE AND
LITCHFIELD ROAD ALSO BEING THE NORTHWEST CORNER OF SECTION 10 T2N, R1W.

ELEVATION = 1073.313'
DATUM = NAVD83

BASIS OF BEARING
THE WEST LINE OF THE NORTHWEST 1/4 OF SECTION 10, TOWNSHIP 2 NORTH,
RANGE 1 WEST, OF THE GILA AND SALT RIVER MERIDIAN, ACCORDING TO
DOCUMENT NO. 2004-117869, MARICOPA COUNTY RECORDS,
THE BEARING OF WHICH IS: NORTH 00 DEGREES 03 MINUTES 17 SECONDS WEST

FLOOD ZONE
THE PROPERTY SHOWN HEREIN IS LOCATED IN ZONE "X" AND ZONE "A1" ON:
FEMA FIRM PANEL NO. 040101600M, DATED SEPTEMBER 18, 2020.

- LEGEND**
- | | |
|---------------------------------|-------------------------|
| FG FINISHED GRADE | ROW RIGHT OF WAY |
| TOW TOP OF WALL | SM SEWER MANHOLE |
| TOTF TOP OF FOOTING | TRANS TRANSFORMER |
| CUA CONCRETE MASONRY UNIT | FR ELECTRICAL BOX |
| APN ASSessorS PARCEL NUMBER | TSP TRAFFIC SIGNAL POLE |
| MCR MARICOPA COUNTY RECORDS | TBR TRAFFIC SIGNAL BOX |
| COLL CITY OF LITCHFIELD PARKWAY | OFF OFFICE |
| ABC ADDRESS BASE COURSE | CSG CUL-DE-SAC GUTTER |
| C CONCRETE | RT RIGHT |
| VIN VINYLIM | LI LEFT |
| PL PROPERTY LINE | S SECTION LINE |
| TC TOP OF CURB | EX EXISTING |
| GR GROUND | P PAVEMENT |
| UG UNDERGROUND | RD ROSTERMAN |
| RHS RHYTHM | VG VERTICAL GUTTER |
| CL CENTER LINE | CL CENTER LINE |
| PE FULL BOX | EL ELEVATION |



Liberty
1400 W. GOLF LINK ROAD
TOMBHED PARK, AZ 85204
MAIN OFFICE: (602) 954-3557
CONSTRUCTION PROJECTS: (602) 954-3557



Victory Base
Offsite Sewer Plans
MARICOPA COUNTY, ARIZONA
Cover Sheet

Scale: 1" = 40'-0"
Date: 11-12-2021
Drawn: EPS
Checked: EPS

50% PLANS
11-12-2021

Sheet No.
21-1287
CS01
Sheet No.
1
of 9

MCDOT GENERAL NOTES FOR RIGHT-OF-WAY PERMITS

- 1. ALL WORK SHALL CONFORM TO THE REVISIONS OF THE UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS... 2. THE ENGINEERING DESIGNS ON THESE PLANS ARE ONLY APPROVED BY MCDOT IN CONCEPT AND NOT IN DETAIL... 3. AN APPROVED SET OF PLANS SHALL BE ON THESE DURING CONSTRUCTION AND AVAILABLE TO MCDOT AND OTHER INSPECTORS... 4. ROAD CURBS CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM WITH SPECIAL ORDINANCE NO. 100... 5. CONTRACTOR SHALL NOTIFY THE MCDOT INSPECTION DEPT. AT LEAST 24 HOURS IN ADVANCE OF ANY CONSTRUCTION... 6. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED PERMITS FOR EARTH MOVING FROM MARICOPA COUNTY... 7. PRIOR TO CONDUCTING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL OBTAIN FROM THE ARIZONA STATE HISTORICAL PRESERVATION OFFICE... 8. EXCEPT UNDER EMERGENCY CONDITIONS, ROADS SHALL NOT BE CLOSED FOR CONSTRUCTION ACTIVITY... 9. PRIOR TO MOVING OR DESTROYING PROPERTY TO LATER IN THE SPECIES, THE CONTRACTOR SHALL FILE A WRITTEN NOTICE OF INTENT... 10. PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK, BASE COURSE AND FINISHING SURFACE, SLOTTED SOULIETS OF SIDEWALKS AND KERBS... 11. ALL PAVEMENT DESIGN SHALL BE SUBMITTED TO MCDOT FOR REVIEW AND APPROVAL... 12. ALL STRUCTURES SUCH AS MANHOLES, VALVES, BOXES AND COVERS AND MONITORING WELLS MUST BE MARKED WITH AT LEAST TWO REFLECTIVE YELLOW 4.5 FOOT DIAMETER STRUCTURES ARE LOCATED OUTSIDE THE TRAVELLED WAY... 13. PAVEMENT MARKING AND PAVEMENT RELOCATION SHALL CONFORM TO REQUIREMENTS OF SPECIFICATION SECTION 100... 14. ALL EXISTING PAVEMENT MARKINGS, TRAFFIC SIGNS AND SIGNAL EQUIPMENT THAT NEED TO BE REMOVED, SALVAGED, RELOCATED OR REPAIRED... 15. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS... 16. DISPOSED OF ALL WASTE MATERIAL WITH THE RESPONSIBILITY OF THE CONTRACTOR.

LIBERTY UTILITIES SEWER NOTES

- 1. CONTRACTOR SHALL FURNISH AND PLACE A WATER TIGHT PLUG IN THE EXISTING SEWER MAINS AT ALL POINTS OF CONNECTIONS TO THE EXISTING SEWER SYSTEM... 2. MANHOLES SHALL BE CONSTRUCTED IN CONFORMANCE WITH AND SHALL MEET THE REQUIREMENTS OF ENGINEERING BULLETIN NO. 11... 3. GLENNBOUTS SHALL BE CONSTRUCTED IN CONFORMANCE WITH AND SHALL MEET THE REQUIREMENTS OF THE UTILITIES MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE... 4. POLYVINYL CHLORIDE (PVC) SEWER PIPE, EPOXY UNED DUCTILE IRON (DIP) PIPE AND ALL SERVICE LINES SHALL BE CONSTRUCTED IN CONFORMANCE WITH AND SHALL MEET THE REQUIREMENTS OF THE UTILITIES SPECIFICATIONS... 5. SEWER LINE EXCAVATION, BACKFILL AND COMPACTION SHALL CONFORM TO MAG STANDARD 601 AND 615... 6. THE CONTRACTOR SHALL SUBMIT A FLOW MANAGEMENT PLAN TO THE UTILITY FOR APPROVAL PRIOR TO CONSTRUCTION... 7. THE SEWER SHALL BE CONSTRUCTED WITH A MINIMUM OF 7.5 FT. FOR TRUNK LINES AND 5.0 FT. MINIMUM FOR ALL OTHER PROVIDED THAT SERVICE LINES HAVE 4.5 FT. MINIMUM COVER AT PROPERTY LINE.

LIBERTY UTILITIES SEWER NOTES (CONTINUED)

- 8. MANHOLE DEFLECTION TESTS, LOW PSI TEST, VIDEO INSPECTIONS AND VACUUM TEST REQUIREMENTS SHALL BE IN CONFORMANCE WITH UTILITY MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE AND DEVELOPMENT GUIDE... 9. ALL INFRASTRUCTURE SERVICES AND FACILITIES INSTALLED ON THE CUSTOMER SIDE OF THE CLEAR CUT/JUNCTION OR PROPERTY LINE IS CONSIDERED PRIVATE AND SHALL NOT BE OWNED, OPERATED, OR MAINTAINED BY THE UTILITY... 10. GREASE, OIL, OR SAND INTERCEPTORS MUST BE PROVIDED FOR RESTAURANTS, FAST FOOD ESTABLISHMENTS, AUTO REPAIR SHOPS, CARWASHES AND OTHER FACILITIES... 11. MARKING TAPE SHALL BE LOCATED AT A MINIMUM OF ONE (1) FOOT ABOVE SEWER LINE... 12. TRACER WIRE SHALL BE #12 GAUGE COPPER WIRE, WIRE NUTS NEED TO BE DRY SPLICE WATER-PROOF GEL PAKS, TRACER WIRE IS TO BE BROUGHT UP TO GRADE AT EACH CLEANOUT, MANHOLE, ETC. THE TRACER WIRE IS TO BE PLACED INSIDE THE MANHOLE AT THE RING AND COVER.

LIBERTY UTILITIES GENERAL NOTES

- 1. THIS PLAN SET SHALL AUTOMATICALLY TERMINATE IF DEVELOPER FAILS TO BEGIN CONSTRUCTION WITHIN ONE (1) YEAR FROM THE PLAN APPROVAL DATE... 2. THE CONTRACTOR IS HEREBY ADVISED THAT THE PRODUCTS AND WORKMANSHIP FOR THIS PROJECT ARE WARRANTED TO THE UTILITY FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF THE SIGNED UTILITY FINAL ACCEPTANCE LETTER... 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL FACILITIES PRIOR TO CONSTRUCTION... 4. THE UTILITY SHALL BE CONTACTED AT LEAST 48 HOURS (2 BUSINESS DAYS) PRIOR TO BEGINNING ANY CONSTRUCTION... 5. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION... 6. ALL MATERIAL, WORKMANSHIP, INSTALLATION AND CONSTRUCTION PRACTICE SHALL BE IN ACCORDANCE WITH AND SHALL MEET THE REQUIREMENTS OF THE UTILITIES MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE... 7. CONSTRUCTION WORK CONCEALED WITHOUT PRIOR INSPECTION BY THE UTILITY OR ITS DESIGNATED REPRESENTATIVE SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE... 8. A SIGNED AND APPROVED SET OF UTILITY CONSTRUCTION PLANS MUST BE ON THE JOB SITE AT ALL TIMES... 9. ALL FACILITIES TO BE OWNED BY THE UTILITY SHALL BE LOCATED IN DESIGNATED EASEMENTS OR RIGHTS OF WAY... 10. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL REGULATORY AGENCIES PRIOR TO STARTING CONSTRUCTION... 11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS... 12. ALL SURVEYING AND CONSTRUCTION STAKING SHALL BE PROVIDED BY A LAND SURVEYOR/ENGINEER REGISTERED IN THE STATE OF ARIZONA... 13. THE CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND MATERIALS SUBMITTALS TO THE UTILITY FOR APPROVAL PRIOR TO CONSTRUCTION... 14. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND UTILITY AND MUST BE RESOLVED BEFORE PROCEEDING WITH THE WORK... 15. DISCLAIMER: THE UTILITY IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS IN THE DEVELOPMENT GUIDE OR CONSTRUCTION GUIDE... 16. IF UNANNOUNCED CONDITIONS ARE ENCOUNTERED DURING THE COURSE OF THE CONSTRUCTION AND ARE BEYOND THE SCOPE OF THE DESIGN, THE ENGINEER SHALL PROVIDE THE UTILITY WRITTEN NOTIFICATION... 17. RECORD DRAWINGS (AS-BUILTS) SHALL CONFORM TO THE UTILITIES MARICOPA COUNTY DEVELOPMENT GUIDE AND GENERAL CONSTRUCTION GUIDE... 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE, MAINTENANCE, REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS... 19. ALL PAVEMENT REPLACEMENT SHALL CONFORM TO THE UTILITY'S STANDARDS AND SPECIFICATIONS... 20. ALL MAIN, SERVICE AND DRY UTILITY SEPARATION SHALL CONFORM TO UTILITY MARICOPA COUNTY GENERAL CONSTRUCTION GUIDE AND DEVELOPMENT GUIDE.

ENGINEERS GENERAL NOTES

- 1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF WORK INVOLVED AS INDICATED ON THE PLANS... 2. ALL DISCREPANCIES BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS SHALL BE NOTED BY THE CONTRACTOR AND BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO BEGINNING WORK... 3. THE CONTRACTOR SHALL LOCATE, PROCURE, DELIVER, INSTALL AND MAINTAIN ALL SPECIFIED CONSTRUCTION MATERIALS... 4. THE WORK SHALL BE SUBJECT TO INSPECTION BY THE ENGINEER AND HIS OR HER AUTHORIZED REPRESENTATIVE... 5. ANY WORK PERFORMED WITHOUT APPROVAL OF THE ENGINEER AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE... 6. THE PROPOSED IMPROVEMENTS ADJUT PRIVATE PROPERTY AND CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE DISRUPTION AND DISTURBANCE TO ADJACENT RESIDENTS AND THEIR PROPERTY... 7. ALL MATERIALS AND EQUIPMENT SHALL BE PROVIDED AND INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS... 8. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FURNISHED AND INSTALLED UNDER THE CONTRACT... 9. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF 24" X 36" AS-BUILT DRAWINGS WITHIN THE ORIGINAL PLAN AND ANY DEVIATION FROM THE ORIGINAL PLAN CLEARLY SHOWN... 10. CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING IMPROVEMENTS IN THE PUBLIC RIGHT-OF-WAY FROM DAMAGE... 11. CONTRACTOR SHALL REMOVE ALL GENERATED TRASH, CONSTRUCTION AND DEMOLITION WASTE AND OTHER DEBRIS THAT CANNOT BE RECYCLED... 12. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FURNISHED AND INSTALLED UNDER THE CONTRACT... 13. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF 24" X 36" AS-BUILT DRAWINGS WITHIN THE ORIGINAL PLAN AND ANY DEVIATION FROM THE ORIGINAL PLAN CLEARLY SHOWN.

GRADING NOTES

- 1. CONTRACTOR SHALL REPAIR GRADE AT DISTURBED AREAS IN THE PUBLIC RIGHT-OF-WAY. FINISH GRADING SHALL INCLUDE THE REMOVAL OF ROCKS, LIMESTONES, DEBRIS, ETC. FROM THE SITES AND INSURE POSITIVE DRAINAGE TOWARDS THE STREET... 2. WHERE APPLICABLE, ALL DISTURBED AND GRADED AREAS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE FULFILLED WITH A MINIMUM OF 2 INCHES OF DECOMPOSED GRANITE (DG) WATCHING THE COLOR AND SIZE OF GRANITE IN ADJACENT AREAS AND/OR SALVAGING AND REUSING THE EXISTING DG TO THE SATISFACTION OF THE ENGINEER... 3. ALL EXISTING LANDSCAPE PLANTS (TREES, SHRUBS, SUCкулЕНTS, CACTI, ETC.) LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY AND/OR COMPLICATED WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED AND PROPERLY DISPOSED AT NO ADDITIONAL COST TO THE OWNER.

LAYOUT AND SURVEY NOTES

- 1. CONTRACTOR TO VERIFY ENTIRE LAYOUT PRIOR TO START OF CONSTRUCTION WITH ENGINEER... 2. NO UNDERGROUND UTILITIES OR SUBSURFACE IMPROVEMENTS WERE MAPPED AS PART OF THE SURVEY, UNLESS OTHERWISE NOTED.

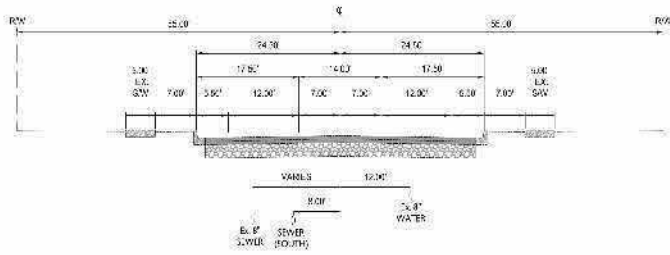
WATER AND SEWER NOTES:

- 1. ALL VALVES SHALL CONFORM TO ANSWA STANDARDS ANWA C-600 OR C-603... 2. PRESSURE TESTING OF WATER LINES SHALL BE IN ACCORDANCE WITH ANWA C-603 OR MAG STANDARD R1-15... 3. ALL NEW ELEMENTS OF A DISTRIBUTION SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH FED R 609 ANWA C-651... 4. TEST EACH SEGMENT OF THE SEWER LINE FOR LEAKAGE USING THE APPROPRIATE ASTM TEST FOR THE PIPE MATERIAL... 5. PERFORM A DEFLECTION TEST OF THE TOTAL LENGTH OF ALL SEWER LINES MADE OF FLEXIBLE MATERIALS TO ENSURE THAT THE INSTALLATION MEETS OR EXCEEDS THE MANUFACTURER'S REQUIREMENTS AND RECORD THE RESULTS... 6. EACH MANHOLE WILL BE TESTED ACCORDING TO R16-5901.1.3.E AND F.

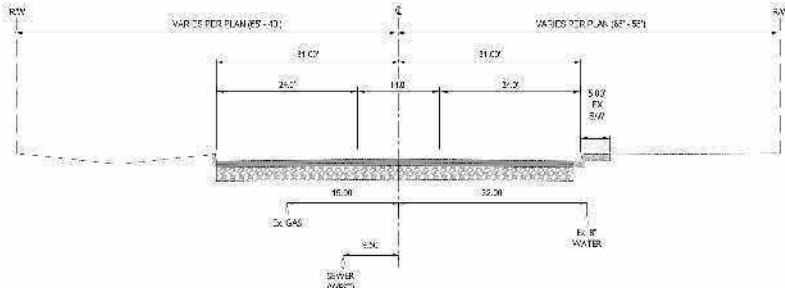
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21-1287 - VICTORY BASE OFFSITE SEWER PLANS

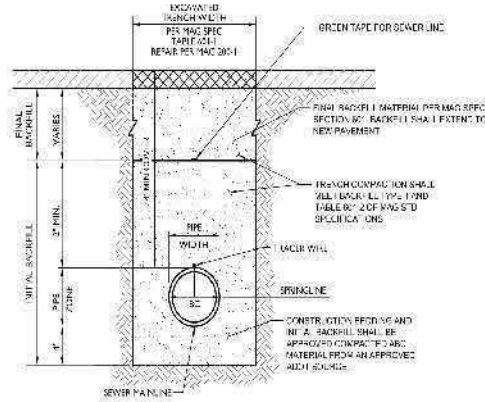
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ROAD SECTION: BETHANY HOME ROAD
UTILITY LOCATION (LOOKING WEST)
NTS



ROAD SECTION: LITCHFIELD ROAD
UTILITY LOCATION (LOOKING NORTH)
NTS



TRENCH NOTES:

- FOR AREAS TO HOLD EXISTING OR PROPOSED PAVEMENT, FILL AS NECESSARY WITH FINISH BACKFILL TO MINIMUM AVERAGE GRADE WITH SURROUNDING EXISTING GRADES.
- BACKFILL TO BE PLACED IN MAXIMUM 8" LIFTS, EACH LIFT TO BE 2 PERCENTAGE PORTS OF 90 TON WHEEL LOADS AND MEET MINIMUM COMPACTION WATER CONCENTRATION IS NOT ALLOWED MINIMUM SHIMS REQUIRED UNDER PIPE.
- NO EXTRACTS NECESSARY AFTER TRENCH HAS BEEN BACKFILLED AND IS WAITING FOR PAVEMENT PLACEMENT.
- TRENCH EXCAVATION FILL AND SOFT WORK SHALL CONFORM TO MAG SECTION 67.
- ALL DEBRIS AND EXCESS EXCAVATION MATERIAL SHALL BE REMOVED FROM THE SITE.

A SEWER LINE TRENCH
(NTS) DETAIL

ESTIMATED QUANTITIES

QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY.
ENGINEER MAKES NO GUARANTEE OF ACCURACY.

PUBLIC SEWER NOTES:

- ◆ INSTALL ACTUAL PRECAST CONCRETE SEWER MANHOLE BASE PER MAG STD. DTL. 001-10-102 WITH 30" FRAME & COVER PER MAG STD. DTL. 001-10-101. 1 EA
- ◆ INSTALL 12" PRECAST CONCRETE SEWER LINE PER MAG SPECIFICATION 601.15 A - BEST PRACTICES SPECIFICATION (SEE MAG STD. DTL. 001-10-101). 3,500 LF
- ◆ CONTACT TO EXISTING SEWER MAINLINE CONTRACTOR TO VERIFY EXACT LOCATION AND INVERT PRIOR TO TRENCHING NOTER ENGINEER ON ANY DISCREPANCY PRIOR TO CONSTRUCTION. 1 EA
- ◆ SAWCUT REMOVE & PATCH PAVEMENT IN UNDER MAG 206-1. 3,200 SQ



Victory Base
Offsite Sewer Plans
VBA-COPL-QUANT-022020
Estimate of Quantities & Sections

Item	Quantity	Unit

Scale: 1" = 10'-0"

Drawn: EPS
Checked: EPS

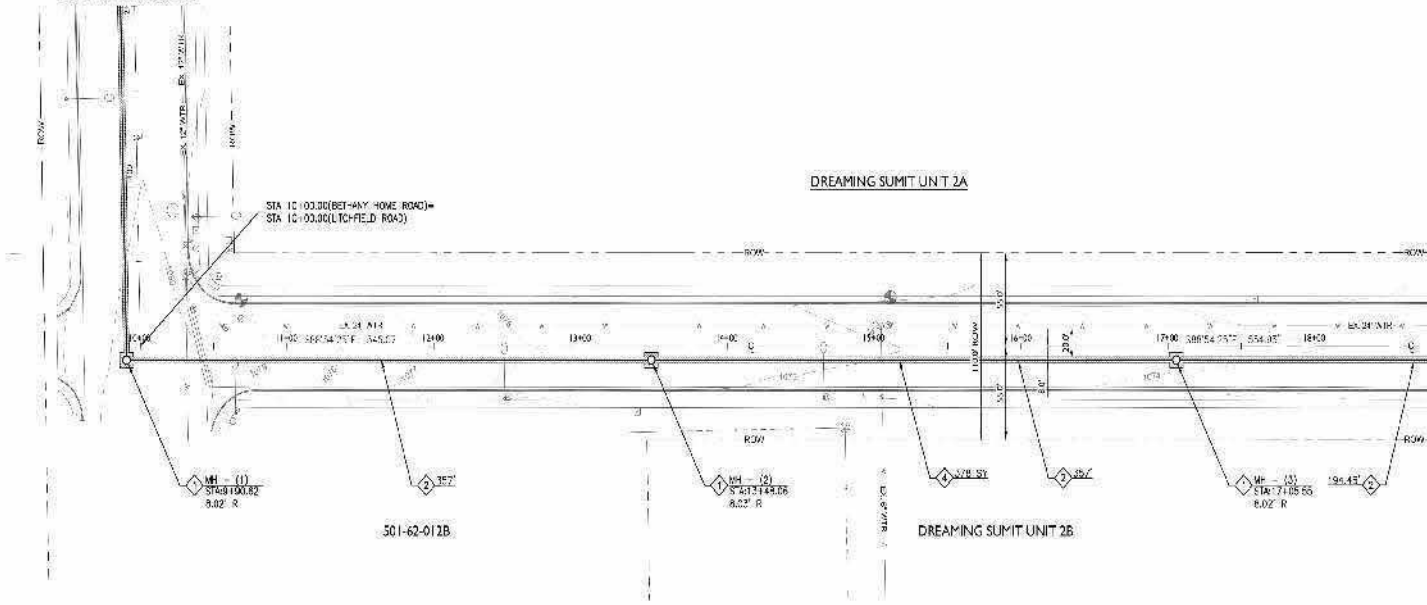
50% PLANS
11-12-2021

Sheet No.
21-1287
CS03
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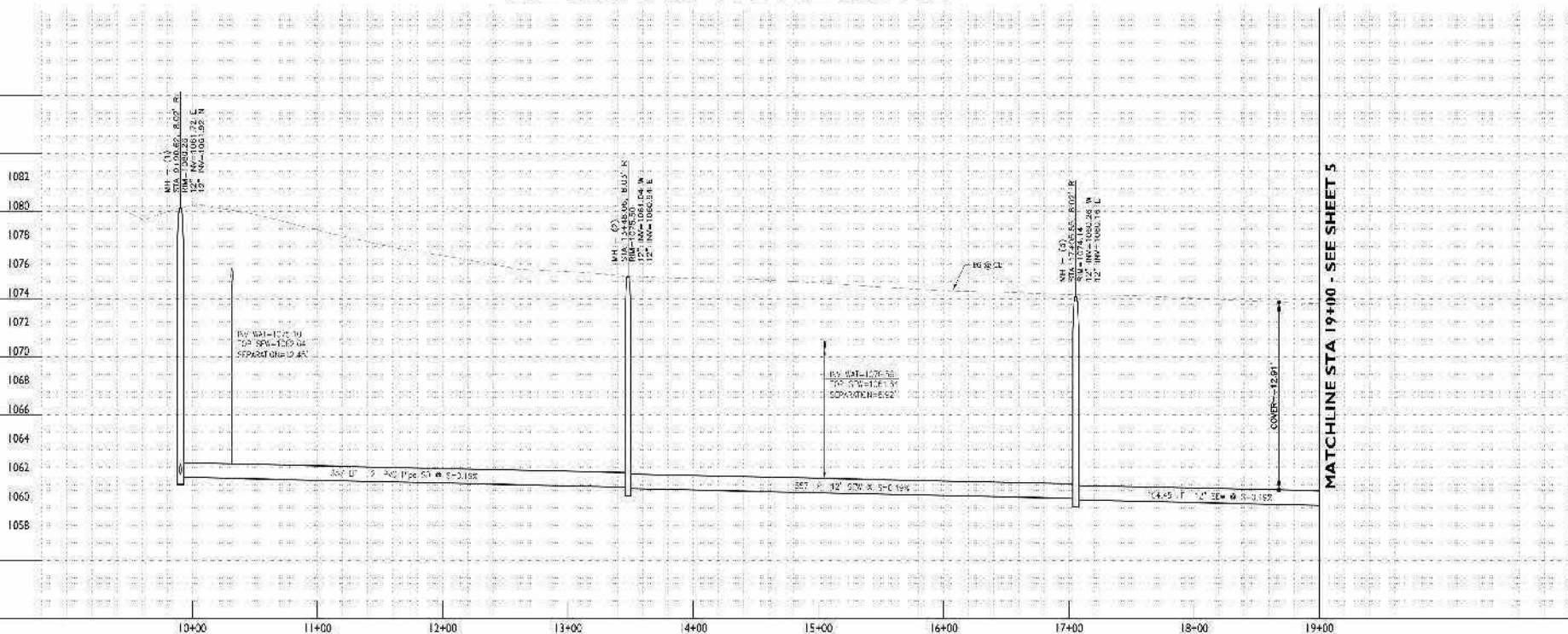
21-1287 - VICTORY BASE OFFSITE SEWER PLANS

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SEE SHEET 7
LITCHFIELD RD



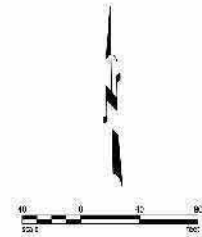
BETHANY HOME ROAD



- CONSTRUCTION NOTES
- ① INSTALL 60" DIA. PRE-CAST CONCRETE SEWER MH & BASE PER MAG STD. DETL. 420-1 & 420-2 WITH 30" FRAME & COVER PER MAG STD. DETL. 424-1. 2 EA
 - ② INSTALL 12" PVC SDP 35 SEWER LINE PER MAG SPECIFICATION 608.45 LF 60" 2.015 & LIBERTY UTILITIES SPECIFICATION BEDDING & INITIAL BACKFILL PER DETAIL & ON SHEET 3.
 - ③ SAWCUT, REMOVE & REPLACE PAVEMENT IN KIND PER MAG 200-1 37E SY

MATCHLINE STA 19+00 - SEE SHEET 5

MATCHLINE STA 19+00 - SEE SHEET 5



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Victory Base Offsite Sewer Plans
VIA CDMA COUNTY, ARIZONA

Sewer Plan & Profile

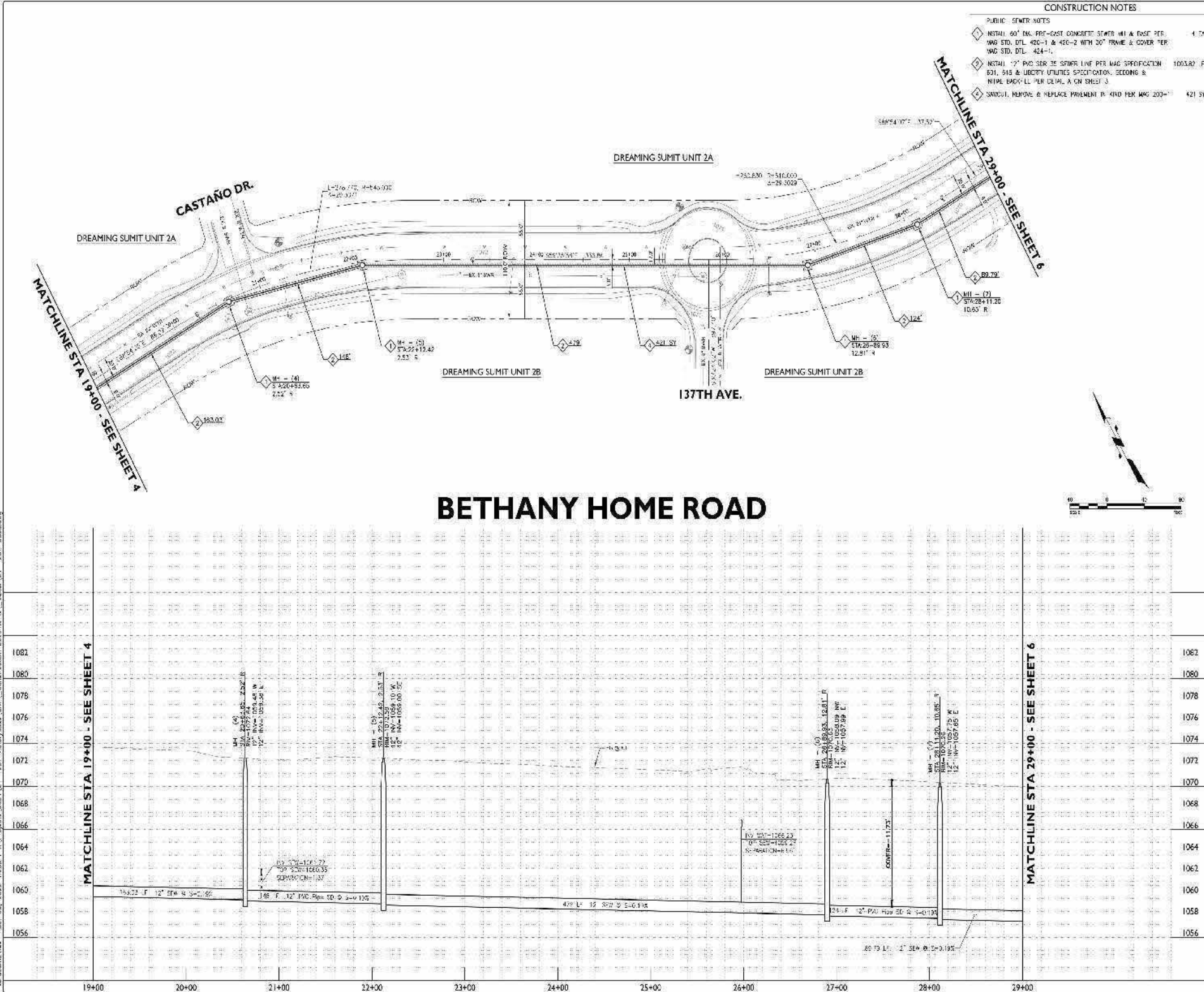
Project: 21-1287
Subproject: CS04

50% PLANS
11-12-2021

Sheet No. 4 of 9

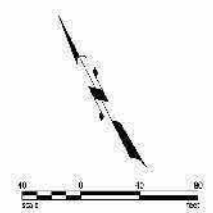
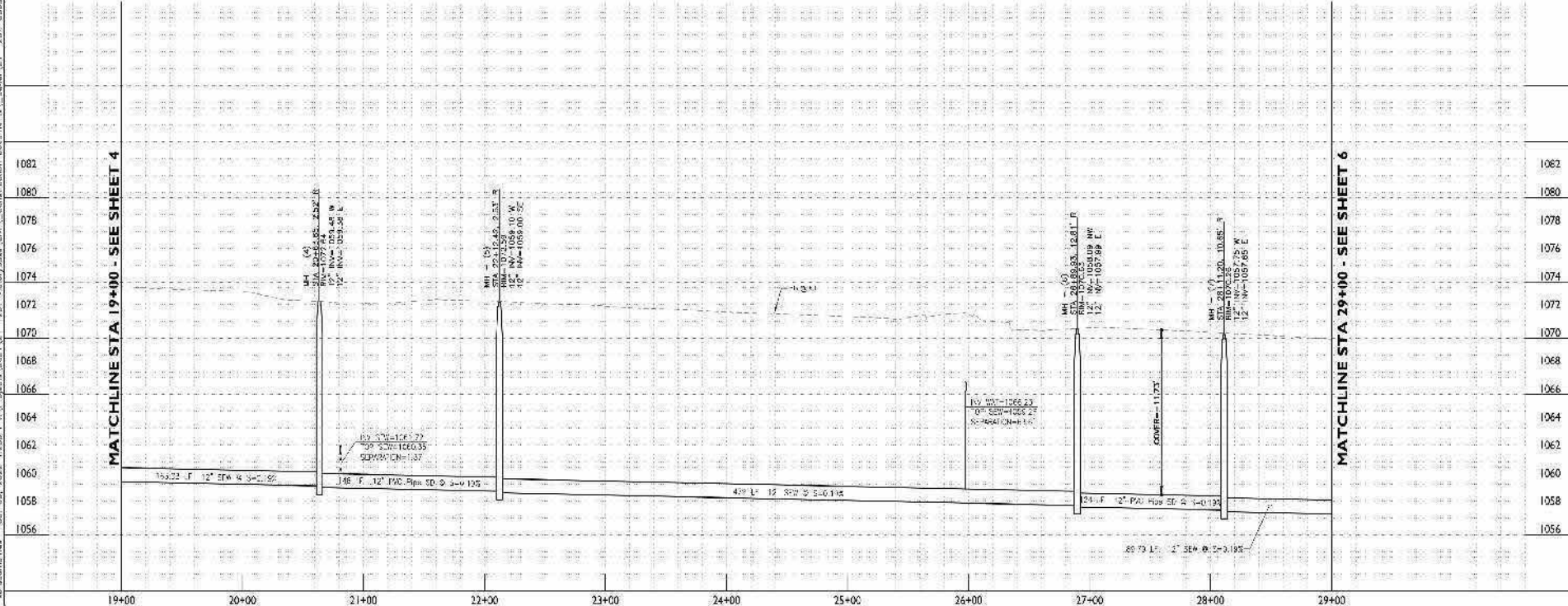
21-1287 - VICTORY BASE OFFSITE SEWER PLANS

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- CONSTRUCTION NOTES**
- PUBLIC SEWER NOTES
 - NETALL 60" DIA. PRE-CAST CONCRETE SEWER MH & BASE PER MAG STD. DTL 420-1 & 420-2 WITH 30" FRAME & COVER PER MAG STD. DTL 424-1. 4 2A
 - NETALL 72" DIA. SER. 35 SEWER LINE PER MAG SPECIFICATION 831, 845 & LIBERTY UTILITIES SPECIFICATION, SECOND & FINAL BACK-UP PER CEVAL A ON SHEET 3. 1003.82 F
 - SAW-CUT, REMOVE & REPLACE PAVEMENT IN 4'X4' PER MAG 200-1. 421 5T

BETHANY HOME ROAD



EPS GROUP

Victory Base
Offsite Sewer Plans
SMA CDPA, COVANT, ARIZONA

Sewer Plan & Profile

Project: _____

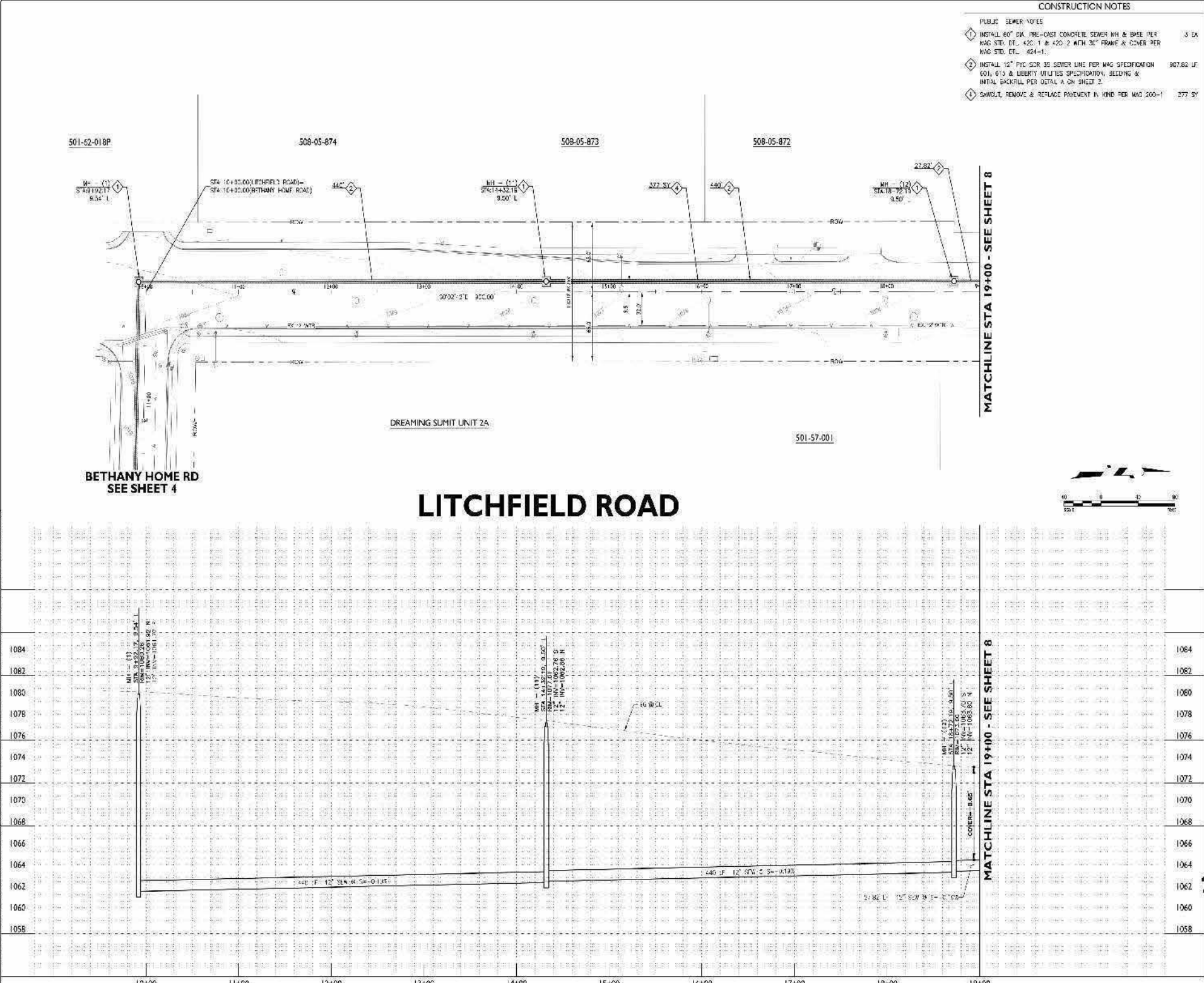
Revisions: _____

DATE: 11-12-2021

Sheet No. **5** of 9

21-1287 - VICTORY BASE OFFSITE SEWER PLANS

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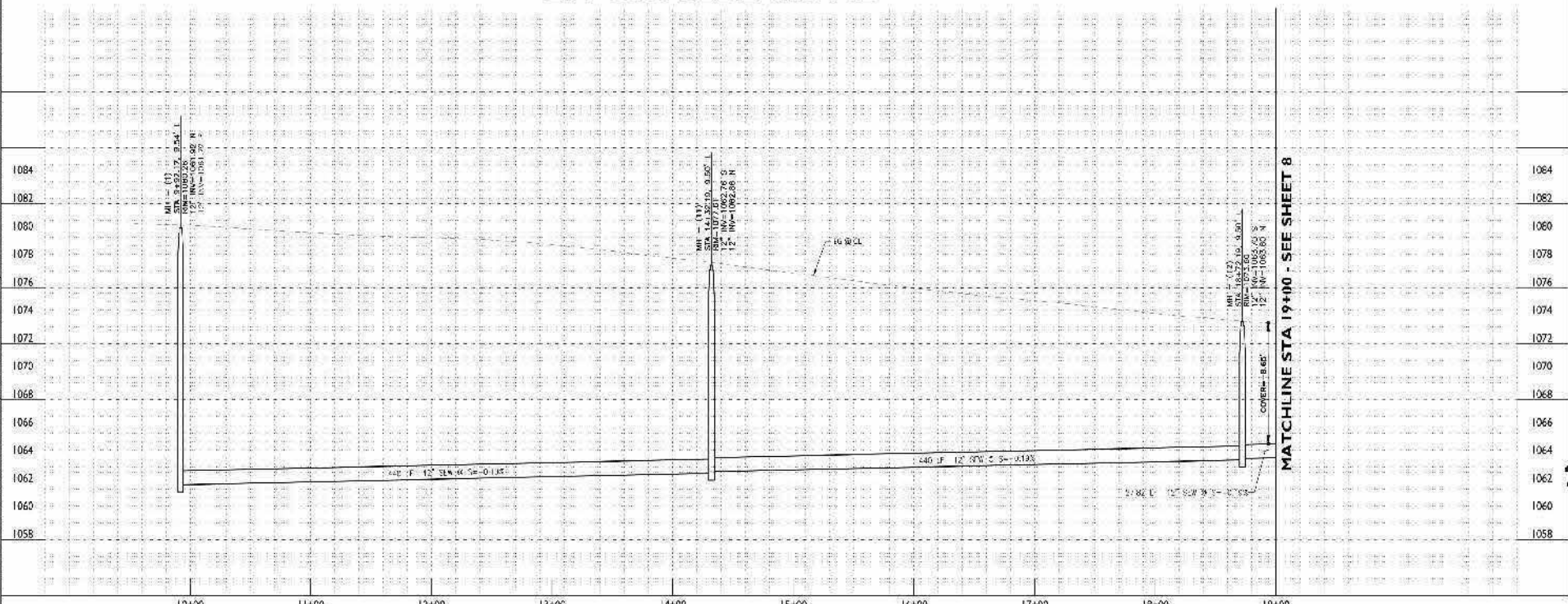
CONSTRUCTION NOTES

INSTALL 60" DIA. PRE-CAST CONCRETE SEWER MH & BASE PER MAG STD. DET. 420-1 & 420-2 WITH 30" FRAME & COVER PER MAG STD. DET. 424-1.	3 EA
INSTALL 12" PVC SDR 35 SEWER LINE PER MAG SPECIFICATION 601, 613 & UTILITY UTILITIES SPECIFICATION, BEDDING & INITIAL BACKFILL PER DETAIL A ON SHEET 2.	907.82 LF
SAW-CUT, REMOVE & REPLACE PAVEMENT IN KIND PER MAG 200-1	277 SY



Victory Base
Offsite Sewer Plans
WVA CDPA COUNTY, ARIZONA
Sewer Plan & Profile

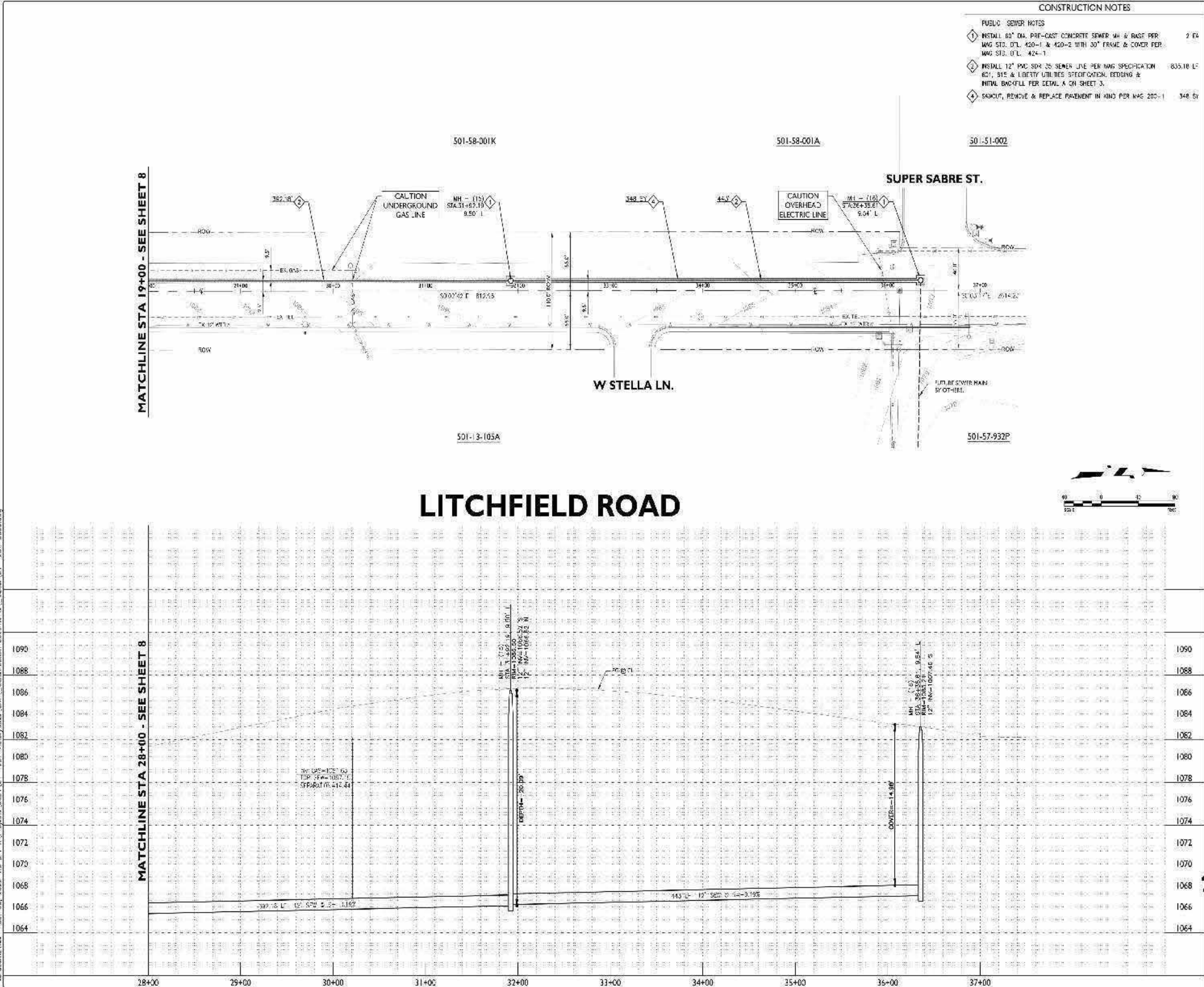
LITCHFIELD ROAD



Revisions	
Sheet No.	21-1287
Sheet No.	7 of 9
50% PLANS	11-12-2021
CS07	

21-1287 - VICTORY BASE OFFSITE SEWER PLANS

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CONSTRUCTION NOTES

DESCRIPTION	QUANTITY
INSTALL 60" DIA. PRE-CAST CONCRETE SEWER MH & BASE PER MAG STD. 07L 420-1 & 420-2 WITH 30" FRAME & COVER PER MAG STD. 07L 424-1	2 EA
INSTALL 12" PVC SD4 20' SEWER LINE PER MAG SPECIFICATION 601, 515 & LIBERTY UTILITIES SPECIFICATION, BEDDING & INITIAL BACKFILL PER DETAIL 3 ON SHEET 3.	635.10 LF
SAW CUT, REMOVE & REPLACE PAVEMENT IN KIND PER MAG 202-1	348.5Y

MATCHLINE STA 19+00 - SEE SHEET 8

MATCHLINE STA 28+10 - SEE SHEET 8

LITCHFIELD ROAD

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EPS GROUP

Victory Base
 Offsite Sewer Plans
 WVA CDPA COUNTY, ARIZONA

Sewer Plan & Profile

Project:
 Revision:
 Date:
 Scale:

50% PLANS
 11-12-2021
 No
 21-1287
 CS09
 Sheet No.
 9
 of 9

Appendix F – Sewer Flow Calculations

Worksheet for Building 1

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	1.000 %
Diameter	6.0 in
Discharge	8,880.00 gal/day
Results	
Normal Depth	0.6 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.3 ft
Hydraulic Radius	0.4 in
Top Width	0.31 ft
Critical Depth	0.7 in
Percent Full	10.8 %
Critical Slope	0.814 %
Velocity	1.20 ft/s
Velocity Head	0.02 ft
Specific Energy	0.08 ft
Froude Number	1.104
Maximum Discharge	390,086.31 gal/day
Discharge Full	362,632.88 gal/day
Slope Full	0.001 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	10.8 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.6 in
Critical Depth	0.7 in
Channel Slope	1.000 %
Critical Slope	0.814 %

Worksheet for Building 2

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	1.000 %
Diameter	6.0 in
Discharge	32,280.00 gal/day
Results	
Normal Depth	1.2 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.5 ft
Hydraulic Radius	0.7 in
Top Width	0.40 ft
Critical Depth	1.3 in
Percent Full	20.2 %
Critical Slope	0.728 %
Velocity	1.77 ft/s
Velocity Head	0.05 ft
Specific Energy	0.15 ft
Froude Number	1.173
Maximum Discharge	390,086.31 gal/day
Discharge Full	362,632.88 gal/day
Slope Full	0.008 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	20.2 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	1.2 in
Critical Depth	1.3 in
Channel Slope	1.000 %
Critical Slope	0.728 %

Worksheet for Building 3

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	0.840 %
Diameter	6.0 in
Discharge	13,770.00 gal/day
Results	
Normal Depth	0.8 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.4 ft
Hydraulic Radius	0.5 in
Top Width	0.35 ft
Critical Depth	0.9 in
Percent Full	13.8 %
Critical Slope	0.767 %
Velocity	1.30 ft/s
Velocity Head	0.03 ft
Specific Energy	0.10 ft
Froude Number	1.047
Maximum Discharge	357,520.01 gal/day
Discharge Full	332,358.52 gal/day
Slope Full	0.001 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	13.8 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.8 in
Critical Depth	0.9 in
Channel Slope	0.840 %
Critical Slope	0.767 %

Worksheet for Building 4

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	1.000 %
Diameter	6.0 in
Discharge	15,975.00 gal/day
Results	
Normal Depth	0.9 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.4 ft
Hydraulic Radius	0.5 in
Top Width	0.35 ft
Critical Depth	0.9 in
Percent Full	14.3 %
Critical Slope	0.751 %
Velocity	1.44 ft/s
Velocity Head	0.03 ft
Specific Energy	0.10 ft
Froude Number	1.144
Maximum Discharge	390,086.31 gal/day
Discharge Full	362,632.88 gal/day
Slope Full	0.002 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	14.3 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.9 in
Critical Depth	0.9 in
Channel Slope	1.000 %
Critical Slope	0.751 %

Worksheet for Building 5

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	1.020 %
Diameter	6.0 in
Discharge	14,790.00 gal/day
Results	
Normal Depth	0.8 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.4 ft
Hydraulic Radius	0.5 in
Top Width	0.34 ft
Critical Depth	0.9 in
Percent Full	13.7 %
Critical Slope	0.775 %
Velocity	1.41 ft/s
Velocity Head	0.03 ft
Specific Energy	0.10 ft
Froude Number	1.141
Maximum Discharge	393,967.87 gal/day
Discharge Full	366,241.25 gal/day
Slope Full	0.002 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	13.7 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.8 in
Critical Depth	0.9 in
Channel Slope	1.020 %
Critical Slope	0.775 %

Worksheet for Building 6

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	1.000 %
Diameter	6.0 in
Discharge	17,220.00 gal/day
Results	
Normal Depth	0.9 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.4 ft
Hydraulic Radius	0.6 in
Top Width	0.36 ft
Critical Depth	0.9 in
Percent Full	14.8 %
Critical Slope	0.766 %
Velocity	1.47 ft/s
Velocity Head	0.03 ft
Specific Energy	0.11 ft
Froude Number	1.142
Maximum Discharge	390,086.31 gal/day
Discharge Full	362,632.88 gal/day
Slope Full	0.002 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	14.8 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.9 in
Critical Depth	0.9 in
Channel Slope	1.000 %
Critical Slope	0.766 %

Worksheet for Building 7

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	0.950 %
Diameter	6.0 in
Discharge	20,355.00 gal/day
Results	
Normal Depth	1.0 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.4 ft
Hydraulic Radius	0.6 in
Top Width	0.37 ft
Critical Depth	1.0 in
Percent Full	16.3 %
Critical Slope	0.753 %
Velocity	1.51 ft/s
Velocity Head	0.04 ft
Specific Energy	0.12 ft
Froude Number	1.124
Maximum Discharge	380,209.11 gal/day
Discharge Full	353,450.81 gal/day
Slope Full	0.003 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	16.3 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	1.0 in
Critical Depth	1.0 in
Channel Slope	0.950 %
Critical Slope	0.753 %

Worksheet for Building 8

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	1.000 %
Diameter	6.0 in
Discharge	15,495.00 gal/day
Results	
Normal Depth	0.8 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.4 ft
Hydraulic Radius	0.5 in
Top Width	0.35 ft
Critical Depth	0.9 in
Percent Full	14.1 %
Critical Slope	0.773 %
Velocity	1.42 ft/s
Velocity Head	0.03 ft
Specific Energy	0.10 ft
Froude Number	1.142
Maximum Discharge	390,086.31 gal/day
Discharge Full	362,632.88 gal/day
Slope Full	0.002 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	14.1 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.8 in
Critical Depth	0.9 in
Channel Slope	1.000 %
Critical Slope	0.773 %

Worksheet for Building 9

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	1.000 %
Diameter	6.0 in
Discharge	13,440.00 gal/day
Results	
Normal Depth	0.8 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.4 ft
Hydraulic Radius	0.5 in
Top Width	0.34 ft
Critical Depth	0.8 in
Percent Full	13.2 %
Critical Slope	0.768 %
Velocity	1.36 ft/s
Velocity Head	0.03 ft
Specific Energy	0.09 ft
Froude Number	1.131
Maximum Discharge	390,086.31 gal/day
Discharge Full	362,632.88 gal/day
Slope Full	0.001 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	13.2 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.8 in
Critical Depth	0.8 in
Channel Slope	1.000 %
Critical Slope	0.768 %

Worksheet for Building 10

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	1.000 %
Diameter	6.0 in
Discharge	7,860.00 gal/day
Results	
Normal Depth	0.6 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.3 ft
Hydraulic Radius	0.4 in
Top Width	0.30 ft
Critical Depth	0.6 in
Percent Full	10.2 %
Critical Slope	0.814 %
Velocity	1.16 ft/s
Velocity Head	0.02 ft
Specific Energy	0.07 ft
Froude Number	1.097
Maximum Discharge	390,086.31 gal/day
Discharge Full	362,632.88 gal/day
Slope Full	0.000 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	10.2 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.6 in
Critical Depth	0.6 in
Channel Slope	1.000 %
Critical Slope	0.814 %

Worksheet for Building 11

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	1.000 %
Diameter	6.0 in
Discharge	7,860.00 gal/day
Results	
Normal Depth	0.6 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.3 ft
Hydraulic Radius	0.4 in
Top Width	0.30 ft
Critical Depth	0.6 in
Percent Full	10.2 %
Critical Slope	0.814 %
Velocity	1.16 ft/s
Velocity Head	0.02 ft
Specific Energy	0.07 ft
Froude Number	1.097
Maximum Discharge	390,086.31 gal/day
Discharge Full	362,632.88 gal/day
Slope Full	0.000 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	10.2 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.6 in
Critical Depth	0.6 in
Channel Slope	1.000 %
Critical Slope	0.814 %

Worksheet for Building 12

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	1.000 %
Diameter	6.0 in
Discharge	16,545.00 gal/day
Results	
Normal Depth	0.9 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.4 ft
Hydraulic Radius	0.5 in
Top Width	0.35 ft
Critical Depth	0.9 in
Percent Full	14.6 %
Critical Slope	0.760 %
Velocity	1.44 ft/s
Velocity Head	0.03 ft
Specific Energy	0.11 ft
Froude Number	1.135
Maximum Discharge	390,086.31 gal/day
Discharge Full	362,632.88 gal/day
Slope Full	0.002 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	14.6 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.9 in
Critical Depth	0.9 in
Channel Slope	1.000 %
Critical Slope	0.760 %

Worksheet for Building 13

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	1.000 %
Diameter	6.0 in
Discharge	4,815.00 gal/day
Results	
Normal Depth	0.5 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.3 ft
Hydraulic Radius	0.3 in
Top Width	0.27 ft
Critical Depth	0.5 in
Percent Full	8.0 %
Critical Slope	0.878 %
Velocity	1.01 ft/s
Velocity Head	0.02 ft
Specific Energy	0.06 ft
Froude Number	1.073
Maximum Discharge	390,086.31 gal/day
Discharge Full	362,632.88 gal/day
Slope Full	0.000 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	8.0 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.5 in
Critical Depth	0.5 in
Channel Slope	1.000 %
Critical Slope	0.878 %

Worksheet for Building 14

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	1.000 %
Diameter	6.0 in
Discharge	9,000.00 gal/day
Results	
Normal Depth	0.7 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.3 ft
Hydraulic Radius	0.4 in
Top Width	0.31 ft
Critical Depth	0.7 in
Percent Full	10.9 %
Critical Slope	0.814 %
Velocity	1.21 ft/s
Velocity Head	0.02 ft
Specific Energy	0.08 ft
Froude Number	1.105
Maximum Discharge	390,086.31 gal/day
Discharge Full	362,632.88 gal/day
Slope Full	0.001 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	10.9 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.7 in
Critical Depth	0.7 in
Channel Slope	1.000 %
Critical Slope	0.814 %

Worksheet for Building 15

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	1.000 %
Diameter	6.0 in
Discharge	16,665.00 gal/day
Results	
Normal Depth	0.9 in
Flow Area	0.0 ft ²
Wetted Perimeter	0.4 ft
Hydraulic Radius	0.5 in
Top Width	0.35 ft
Critical Depth	0.9 in
Percent Full	14.6 %
Critical Slope	0.761 %
Velocity	1.45 ft/s
Velocity Head	0.03 ft
Specific Energy	0.11 ft
Froude Number	1.137
Maximum Discharge	390,086.31 gal/day
Discharge Full	362,632.88 gal/day
Slope Full	0.002 %
Flow Type	Supercritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	14.6 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	0.9 in
Critical Depth	0.9 in
Channel Slope	1.000 %
Critical Slope	0.761 %

Worksheet for North Site North Main

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	0.350 %
Diameter	8.0 in
Discharge	69,720.00 gal/day
Results	
Normal Depth	2.1 in
Flow Area	0.1 ft ²
Wetted Perimeter	0.7 ft
Hydraulic Radius	1.2 in
Top Width	0.59 ft
Critical Depth	1.8 in
Percent Full	26.3 %
Critical Slope	0.651 %
Velocity	1.48 ft/s
Velocity Head	0.03 ft
Specific Energy	0.21 ft
Froude Number	0.737
Maximum Discharge	497,009.51 gal/day
Discharge Full	462,031.05 gal/day
Slope Full	0.008 %
Flow Type	Subcritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	24.2 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	2.1 in
Critical Depth	1.8 in
Channel Slope	0.350 %
Critical Slope	0.651 %

Worksheet for North Site South Main

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	0.350 %
Diameter	8.0 in
Discharge	53,550.00 gal/day
Results	
Normal Depth	1.8 in
Flow Area	0.1 ft ²
Wetted Perimeter	0.7 ft
Hydraulic Radius	1.1 in
Top Width	0.56 ft
Critical Depth	1.6 in
Percent Full	23.0 %
Critical Slope	0.664 %
Velocity	1.36 ft/s
Velocity Head	0.03 ft
Specific Energy	0.18 ft
Froude Number	0.731
Maximum Discharge	497,009.51 gal/day
Discharge Full	462,031.05 gal/day
Slope Full	0.005 %
Flow Type	Subcritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	28.3 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	1.8 in
Critical Depth	1.6 in
Channel Slope	0.350 %
Critical Slope	0.664 %

Worksheet for South Site Main

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.013
Channel Slope	0.350 %
Diameter	8.0 in
Discharge	91,680.00 gal/day
Results	
Normal Depth	2.4 in
Flow Area	0.1 ft ²
Wetted Perimeter	0.8 ft
Hydraulic Radius	1.4 in
Top Width	0.61 ft
Critical Depth	2.1 in
Percent Full	30.2 %
Critical Slope	0.642 %
Velocity	1.60 ft/s
Velocity Head	0.04 ft
Specific Energy	0.24 ft
Froude Number	0.738
Maximum Discharge	497,009.51 gal/day
Discharge Full	462,031.05 gal/day
Slope Full	0.014 %
Flow Type	Subcritical
GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0
GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	24.2 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	2.4 in
Critical Depth	2.1 in
Channel Slope	0.350 %
Critical Slope	0.642 %

Appendix G – Opinion of Probable Costs

Exhibit C

Construction Opinion of Probable Construction Cost

Project Name: The Base Industrial Park

Project Location: NWC of W Bethany Home Road and N Litchfield Road

November 29, 2022

This opinion of probable construction costs assumes the following:

1. The scope of this OPC is limited to the onsite and offsite sewer improvements for the above referenced project.

Sanitary Sewer - North	Quantity	Unit	Unit Cost	Total
6" PVC Sewer Lateral	1442	L.F.	\$75.00	\$108,150.00
8" PVC Sewer Lateral	3177	L.F.	\$87.00	\$276,399.00
Sanitary Sewer Cleanout	7	EA.	\$650.00	\$4,550.00
48" Sewer Manhole	12	EA.	\$9,000.00	\$108,000.00
60" Sewer Manhole	2	EA.	\$10,000.00	\$20,000.00
Sanitary Sewer - North Sub Total				\$517,099.00

Sanitary Sewer - South	Quantity	Unit	Unit Cost	Total
6" PVC Sewer Lateral	1072	L.F.	\$75.00	\$80,400.00
8" PVC Sewer Lateral	2798	L.F.	\$87.00	\$243,426.00
Sanitary Sewer Cleanout	3	EA.	\$650.00	\$1,950.00
48" Sewer Manhole	10	EA.	\$9,000.00	\$90,000.00
60" Sewer Manhole	1	EA.	\$10,000.00	\$10,000.00
Sanitary Sewer - South Sub Total				\$425,776.00

Sanitary Sewer - Offsite	Quantity	Unit	Unit Cost	Total
12" PVC Sewer Main	1072	L.F.	\$93.00	\$99,696.00
60" Sewer Manhole	16	EA.	\$10,000.00	\$160,000.00
Sanitary Sewer - Offsite Sub Total				\$259,696.00

GRAND TOTAL

\$1,202,571.00

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Exhibit 7
Engineering Estimate of Project Costs

Construction Opinion of Probable Construction Cost

Project Name: The Base Industrial Park

Project Location: NWC of W Bethany Home Road and N Litchfield Road

November 29, 2022

This opinion of probable construction costs assumes the following:

- 1. The scope of this OPC is limited to the onsite and offsite sewer improvements for the above referenced project.

Sanitary Sewer - North	Quantity	Unit	Unit Cost	Total
6" PVC Sewer Lateral	1442	L.F.	\$75.00	\$108,150.00
8" PVC Sewer Lateral	3177	L.F.	\$87.00	\$276,399.00
Sanitary Sewer Cleanout	7	EA.	\$650.00	\$4,550.00
48" Sewer Manhole	12	EA.	\$9,000.00	\$108,000.00
60" Sewer Manhole	2	EA.	\$10,000.00	\$20,000.00
Sanitary Sewer - North Sub Total				\$517,099.00

Sanitary Sewer - South	Quantity	Unit	Unit Cost	Total
6" PVC Sewer Lateral	1072	L.F.	\$75.00	\$80,400.00
8" PVC Sewer Lateral	2798	L.F.	\$87.00	\$243,426.00
Sanitary Sewer Cleanout	3	EA.	\$650.00	\$1,950.00
48" Sewer Manhole	10	EA.	\$9,000.00	\$90,000.00
60" Sewer Manhole	1	EA.	\$10,000.00	\$10,000.00
Sanitary Sewer - South Sub Total				\$425,776.00

Sanitary Sewer - Offsite	Quantity	Unit	Unit Cost	Total
12" PVC Sewer Main	1072	L.F.	\$93.00	\$99,696.00
60" Sewer Manhole	16	EA.	\$10,000.00	\$160,000.00
Sanitary Sewer - Offsite Sub Total				\$259,696.00

GRAND TOTAL **\$1,202,571.00**

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Exhibit 8
Liberty Litchfield Park's Tariff Rate Schedules

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Applies to all WATER service areas
PART ONE
STATEMENT OF CHARGES

I. RATES

In Decision No. XXXXX, dated XXXXX, 2018, the Commission authorized the following rates and charges to become effective August 1, 2018:

A. Monthly Minimum Charge**RESIDENTIAL (includes multi-family)**

Meter Size	Minimum Charge ¹ Per Month
5/8" x 3/4" Meter	\$ 12.54
3/4" Meter	12.54
1" Meter	28.22
1 1/2" Meter	62.70
2" Meter	100.32
3" Meter	200.64
4" Meter	313.50
6" Meter	627.00
8" Meter	1,003.20
10" Meter	1,442.10
12" Meter	2,696.10

¹ Low Income Tariff – A 30% discount is available on monthly minimum and commodity charges to qualified residential customers meeting the low income qualifications.

Issued: August 9, 2018

Effective: August 1, 2018

ISSUED BY:
 Matthew Garlick, President
 Liberty Utilities (Litchfield Park Water & Sewer) Corp.
 12725 W. Indian School Road, Suite D-101
 Avondale, AZ 85392
 Decision No. XXXXX

APPROVED FOR FILING
DECISION NO. 76799

Applies to all WATER service areas
PART ONE
STATEMENT OF CHARGES

COMMERCIAL/NON-RESIDENTIAL

Meter Size	Minimum Charge Per Month
5/8" x 3/4" Meter	\$ 12.54
3/4" Meter	12.54
1" Meter	31.35
1 1/2" Meter	62.70
2" Meter	100.32
3" Meter	200.64
4" Meter	313.50
6" Meter	627.00
8" Meter	1,003.20
10" Meter	1,442.10
12" Meter	2,696.10

Issued: August 9, 2018

Effective: August 1, 2018

ISSUED BY:
 Matthew Garlick, President
 Liberty Utilities (Litchfield Park Water & Sewer) Corp.
 12725 W. Indian School Road, Suite D-101
 Avondale, AZ 85392
 Decision No. XXXXX

APPROVED FOR FILING
DECISION NO. 76799

Applies to all **WATER** service areas
PART ONE
STATEMENT OF CHARGES

IRRIGATION

Meter Size	Minimum Charge Per Month
5/8" x 3/4" Meter	\$ 12.54
3/4" Meter	12.54
1" Meter	31.35
1 1/2" Meter	62.70
2" Meter	100.32
3" Meter	200.64
4" Meter	313.50
6" Meter	627.00
8" Meter	1,003.20
10" Meter	1,442.10
12" Meter	2,696.10

Bulk Water Resale	Minimum Charge Per Month
4" Meter ²	\$ 169.29
6" Meter	338.58
8" Meter	543.61
10" Meter	778.73
12" Meter	1,455.89

² Bulk service is limited to customers outside the CC&N.

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Construction Hydrants	Minimum Charge Per Month
Construction Hydrants	\$50.00

Fire Service Lines	Minimum Charge Per Month
Fire Service Lines	By Meter Size*

* Liberty Litchfield Park will charge the monthly meter charge associated with the meter size.

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PART ONE
STATEMENT OF CHARGES

B. Commodity Rates

The rate for use in addition to the minimum stated above shall be at the following rates per 1,000 gallons:

RESIDENTIAL (includes multi-family)

<u>Meter Size</u>	<u>Consumption</u>	<u>Rate³</u>
5/8" x 3/4" Meter and 3/4" Meter	0 to 3,000	\$0.7091
	3,001 to 10,000	1.8437
	10,001 to 20,000	2.8437
	Over 20,000	3.2676
1" Meter	0 to 5,000	0.7091
	5,001 to 19,000	1.8437
	19,001 to 30,000	2.8437
	Over 30,000	3.2676
1 1/2" Meter	0 to 40,000	1.8437
	Over 40,000	3.2676
2" Meter	0 to 60,000	1.8437
	Over 60,000	3.2676
3" Meter	0 to 120,000	1.8437
	Over 120,000	3.2676
4" Meter	0 to 180,000	1.8437
	Over 180,000	3.2676
6" Meter	0 to 360,000	1.8437
	Over 360,000	3.2676
8" Meter	0 to 650,000	1.8437
	Over 650,000	3.2676
10" Meter	0 to 940,000	1.8437
	Over 940,000	3.2676
12" Meter	0 to 1,248,000	1.8437
	Over 1,248,000	3.2676

³ Low Income Tariff – A 30% discount is available on monthly minimum and commodity charges to qualified residential customers meeting the low income qualifications.

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STATEMENT OF CHARGES

COMMERCIAL/NON-RESIDENTIAL

<u>Meter Size</u>	<u>Consumption</u>	<u>Rate</u>
5/8" x 3/4" and 3/4" Meter	0 to 9,000	\$1.8437
	Over 9,000	3.2676
1" Meter	0 to 20,000	1.8437
	Over 20,000	3.2676
1 1/2" Meter	0 to 40,000	1.8437
	Over 40,000	3.2676
2" Meter	0 to 60,000	1.8437
	Over 60,000	3.2676
3" Meter	0 to 120,000	1.8437
	Over 120,000	3.2676
4" Meter	0 to 180,000	1.8437
	Over 180,000	3.2676
6" Meter	0 to 360,000	1.8437
	Over 360,000	3.2676
8" Meter	0 to 650,000	1.8437
	Over 650,000	3.2676
10" Meter	0 to 940,000	1.8437
	Over 940,000	3.2676
12" Meter	0 to 1,248,000	1.8437
	Over 1,248,000	3.2676

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PART ONE
STATEMENT OF CHARGES

IRRIGATION

<u>Meter Size</u>	<u>Consumption</u>	<u>Rate</u>
5/8" x 3/4" and 3/4" Meter	0 to 9,000	\$1.8437
	Over 9,000	3.2676
1" Meter	0 to 20,000	1.8437
	Over 20,000	3.2676
1 1/2" Meter	0 to 40,000	1.8437
	Over 40,000	3.2676
2" Meter	0 to 60,000	1.8437
	Over 60,000	3.2676
3" Meter	0 to 120,000	1.8437
	Over 120,000	3.2676
4" Meter	0 to 180,000	1.8437
	Over 180,000	3.2676
6" Meter	0 to 360,000	1.8437
	Over 360,000	3.2676
8" Meter	0 to 650,000	1.8437
	Over 650,000	3.2676
10" Meter	0 to 940,000	1.8437
	Over 940,000	3.2676
12" Meter	0 to 1,248,000	1.8437
	Over 1,248,000	3.2676

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PART ONE
STATEMENT OF CHARGES

BULK WATER RESALE

<u>Meter Size</u>	<u>Consumption</u>	<u>Rate</u>
4" Meter	All gallons	\$1.5600
6" Meter	All gallons	1.5600
8" Meter	All gallons	1.5600
10" Meter	All gallons	1.5600
12" Meter	All gallons	1.5600

<u>Construction Water</u>	<u>Consumption</u>	<u>Rate</u>
Hydrants	All gallons	\$3.2676

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PART ONE
STATEMENT OF CHARGES

C. Service Line and Meter Installation Charges

(Refundable Pursuant to A.A.C. R14-2-405)

<u>Meter Size</u>	<u>Line</u>	<u>Meter</u>	<u>Total</u>
5/8 x 3/4" Meter	\$ 565.00	\$ 158.00	\$ 723.00
3/4" Meter	565.00	260.00	825.00
1" Meter	629.00	321.00	950.00
1 1/2" Meter	699.00	536.00	1,235.00
2" Turbine Meter	At Cost	At Cost	At Cost
2" Compound Meter	At Cost	At Cost	At Cost
3" Turbine Meter	At Cost	At Cost	At Cost
3" Compound Meter	At Cost	At Cost	At Cost
4" Turbine Meter	At Cost	At Cost	At Cost
4" Compound Meter	At Cost	At Cost	At Cost
6" Turbine Meter	At Cost	At Cost	At Cost
6" Compound Meter	At Cost	At Cost	At Cost
8" Meter & Larger Meters	At Cost	At Cost	At Cost

<u>*Hydrant Meter Deposit</u>	
3" Turbine Meter	\$1,470.00
3" Compound Meter	2,265.00

* Shall have a non-interest bearing deposit of the amount indicated, refundable in its entirety upon return of the meter in good condition and payment of the final bill.

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PART ONE
STATEMENT OF CHARGES

D. Miscellaneous Service Charges

<u>Service</u>	<u>Charge</u>
Establishment per A.A.C. R14-2-403(D)	\$20.00
Re-Establishment of Service per A.A.C. R14-2-403(D)	(b)
Reconnection per A.A.C. R14-2-403(D)	\$50.00
Meter Test (if correct) per A.A.C. R14-2-408(F)	\$25.00
Meter Re-Read (if correct) per A.A.C. R14-2-408(C)	\$5.00
Fire Hydrant Meter Relocation	\$50.00
Fire Hydrant Meter Repair	At Cost
NSF Check per A.A.C. R14-2-409(F)	\$25.00 (a)
Deferred Payment, Per Month	1.50%
Late Charge	(c)
Service Calls After Hours	\$40.00 (d)
Deposit Requirement	(e)
Deposit Interest per A.A.C. R14-2-403(B)	6.00%
Water Hook-Up Fee	(f)

- (a) Liberty Litchfield Park may charge only one NSF fee when customers are billed for water and sewer services on one bill.
- (b) Minimum charge times number of full months off the system per A.A.C. R14-2-403(D).
- (c) Greater of \$5.00 or 1.50% of unpaid balance.
- (d) Customer shall be charged for after-hours service calls outside of normal working hours for work performed at customer's request or convenience.
- (e) Per A.A.C. R14-2-403(B):
Residential – two times the average bill by class according to meter size.
Commercial – two and one-half times the customer's estimated maximum monthly bill.
- (f) Customers shall pay the applicable Water Hook-Up Fees per tariff.

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Applies to all **WATER** service areas
PART ONE
STATEMENT OF CHARGES

II. TAXES AND ASSESSMENTS

In addition to the collection of regular rates, the Company will collect from its customers a proportionate share of any privilege, sales, and use tax per A.A.C. R14-2-409(D)(5).

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Decision No. XXXXX

APPROVED FOR FILING
DECISION NO. 76799

Applies to all **WATER** service areas

PART TWO
STATEMENT OF TERMS AND CONDITIONS

I. PERMITTED COSTS

- A. Costs shall be verified by invoice.
- B. For services that are provided by the Company at cost, costs shall include labor, materials, other charges incurred, and overhead not to exceed 10%. However, prior to any such service being provided, the estimated cost of such service will be provided by the Company to the customer. After review of the cost estimate, the customer will pay the amount of the estimated cost to the Company.
- C. In the event that the actual cost is less than the estimated cost, the Company will refund the excess to the customer within 30 days after completion of the provision of the service or after Company's receipt of invoices, timesheets or other related documents, whichever is later.
- D. In the event the actual cost is more than the estimated cost, the Company will bill the customer for the amount due within 30 days after completion of the provision of the service or after the Company's receipt of invoices, timesheets or other related documents, whichever is later. The amount so billed will be due and payable 30 days after the invoice date. However, if the actual cost is more than five percent (5%) greater than the total amount paid, the customer will only be required to pay five percent (5%) more than the total amount paid, unless the Company can demonstrate that the increased costs were beyond its control and could not be foreseen at the time the estimate for the total amount paid was made.
- E. At the customer's request, the Company shall make available to the customer all invoices, timesheets or related documents that support the cost for providing such service.
- F. Permitted costs shall include any Federal, State or local taxes that are or may be payable by the Company as a result of any tariff or contract for water facilities under which the Customer advances or contributes funds or facilities to the Company.

Applies to all WATER service areas
PART TWO
STATEMENT OF TERMS AND CONDITIONS

II. INTERRUPTIBLE SERVICE; COMPANY’S LIABILITY LIMITATIONS

The Company will supply only such water at such pressures as may be available from time to time as a result of the normal operation of its water system. The Company will maintain a minimum water pressure of 20 p.s.i. and will not guarantee a specific gallons per minute flow rate at any public fire hydrants or fire sprinkler service. In the event service is interrupted, irregular or defective, or fails from causes beyond the Company’s control or through ordinary negligence of its employees or agents, the Company will not be liable for any injuries or damages arising therefrom.

III. TERMINATION OF WATER SERVICE FOR VIOLATION OF WASTEWATER RULES AND REGULATIONS

The Company is authorized to discontinue water service to any person connected to both its water and sewer systems who violates the Company’s wastewater terms and conditions or in any way creates a public health hazard or the likelihood of such a public health hazard. This termination authority also applies to non-payment for wastewater services.

IV. RULES AND REGULATIONS

The Company has adopted the Rules and Regulations established by the Commission as the basis for its operating procedures. A.A.C. R14-2-401 through A.A.C. R14-2-411 will be controlling of Company procedures, unless specific Commission Order(s) provide otherwise.

Applies to all WATER service areas
PART THREE
CROSS-CONNECTION OR BACKFLOW TARIFF

A. PURPOSE:

The purpose of this tariff is to protect Liberty Utilities (Litchfield Park Water & Sewer) Corp. (the "Company") water from the possibility of contamination caused by backflow of contaminants that may be present on the customer's premises by requiring the installation and periodic testing of backflow-prevention assemblies pursuant to the provisions of the Arizona Administrative Code ("A.A.C.") R14-2-405.B.6. and A.A.C. R18-4-215.

B. REQUIREMENTS:

In compliance with the Rules and Regulations of the Arizona Corporation Commission ("Commission") and the Arizona Department of Environmental Quality ("ADEQ"), specifically A.A.C. R14-2-405.B.6 and A.A.C. R18-4-215 relating to backflow prevention:

1. The Company may require a customer to pay for and have installed, and to maintain, test and repair a backflow-prevention assembly if A.A.C. R18-4-215.B or C applies.
2. A backflow-prevention assembly required to be installed by the customer under Paragraph 1 of this tariff shall comply with the requirements set forth in A.A.C. R18-4-215.D and E.
3. Subject to the provisions of A.A.C. R14-2-407 and 410, and in accordance with Paragraphs 1 and 7 of this tariff, the Company may terminate service or deny service to a customer who fails to install a backflow-prevention assembly as required by this tariff.
4. The Company shall give any existing customer who is required to install a backflow-prevention assembly written notice of said requirement. If A.A.C. R14-2-410.B.1.a is **not** applicable, the customer shall be given thirty (30) days from the time such written notice is received in which to comply with this notice. If the customer can show good cause as to why he cannot install the backflow-prevention assembly within thirty (30) days, the Company or Commission Staff may suspend this requirement for a reasonable period of time.
5. Testing shall be in conformance with the requirements of A.A.C. R18-4-215.F. The Company may require the customer to pay to have the backflow-prevention assembly tested as long as the Company does not require an unreasonable number of tests.

Applies to all **WATER** service areas
PART THREE
CROSS-CONNECTION OR BACKFLOW TARIFF

6. The customer shall provide the Company with records of installation and testing. For each backflow-prevention assembly, these records shall include:
 - a. assembly identification number and description;
 - b. location;
 - c. date(s) of test(s);
 - d. description of repairs and recommendations for repairs made by tester;
 - e. tester's name and certificate number; and
 - f. tester's field test kit certification documentation.

7. In the event the backflow-prevention assembly does not function properly or fails any test, and an obvious hazard as contemplated under A.A.C. R14-2-410.B.1.a. exists, the Company may terminate service immediately and without notice. The backflow-prevention assembly shall be repaired or replaced by the customer and retested.

8. In the event the backflow-prevention assembly does not function properly or fails any test, or in the event that a customer fails to comply with the testing requirement, and A.A.C. R14-2-410.B.1.a. is **not** applicable, the backflow-prevention assembly shall be repaired or replaced within fourteen (14) days of the initial discovery of the deficiency in the assembly or its function. Failure to remedy the deficiency of dysfunction of the assembly, or failure to retest, shall be grounds for termination of water service in accordance with A.A.C. R14-2-410.

Applies to all WATER service areas
PART FOUR
CURTAILMENT PLAN

ADEQ Public Water System Number: 07-046

Liberty Utilities (Litchfield Park Water & Sewer) Corp. ("Company") is authorized to curtail water service to all customers within its certified area under the terms and conditions listed in this tariff.

This curtailment plan shall become part of the Arizona Department of Environmental Quality Emergency Operations Plan for the Company.

The Company shall notify its customers of this new tariff as part of its next regularly scheduled billing after the effective date of the tariff or no later than sixty (60) days after the effective date of the tariff.

The Company shall provide a copy of the curtailment tariff to any customer, upon request.

Stage 1 Exists When:

Company is able to maintain water storage in the system at 100 percent of capacity and there are no known problems with its well production or water storage in the system.

Restrictions: Under Stage 1, the Company is deemed to be operating normally and no curtailment is necessary.

Notice Requirements: Under Stage 1, no notice is necessary.

Stage 2 Exists When:

- a. Company's water storage or well production has been less than 80 percent of capacity for at least 48 consecutive hours, and
- b. Company has identified issues such as a steadily declining water table, increased draw down threatening pump operations, or poor water production, creating a reasonable belief the Company will be unable to meet anticipated water demand on a sustained basis.

Restrictions: Under Stage 2, the Company may request the customers to voluntarily employ water conservation measures to reduce water consumption by approximately 50 percent. Outside watering should be limited to essential water, dividing outside watering on some uniform basis (such as even and odd days) and eliminating outside watering on weekends and holidays.

Notice Requirements: Under Stage 2, the Company is required to notify customers by delivering written notice door to door at each service address, or by United States first class mail to the billing address or, at the Company's option, both. Such notice shall notify the customers of the general nature of the problem and the need to conserve water.

Applies to all WATER service areas
PART FOUR
CURTAILMENT PLAN

Stage 3 Exists When:

- a. Company's total water storage or well production has been less than 50 percent of capacity for at least 24 consecutive hours, and
- b. Company has identified issues such as a steadily declining water table, increased draw down threatening pump operations, or poor water production, creating a reasonable belief the Company will be unable to meet anticipated water demand on a sustained basis.

Restrictions: Under Stage 3, the Company shall request the customer to voluntarily employ water conservation measures to reduce daily consumption by approximately 50 percent. All outside watering should be eliminated, except livestock, and indoor water conservation techniques should be employed whenever possible. Standpipe service shall be suspended.

Notice Requirements:

1. Company is required to notify customers by delivering written notice to each service address, or by United States first class mail to the billing address or, at the Company's option, both. Such notice shall notify the customers of the general nature of the problem and the need to conserve water.
2. Beginning with Stage 3, the Company shall post at least two (2) signs showing the curtailment stage. Signs shall be posted at noticeable locations, like at the well sites and at the entrance to major subdivisions served by the Company.
3. The Company shall notify the Consumer Services Section of the Utilities Division of the Corporation Commission at least 12 hours prior to entering Stage 3.

Once Stage 3 has been reached, the Company must begin to augment the supply of water by either hauling or through an emergency interconnect with an approved water supply in an attempt to maintain the curtailment at a level no higher than Stage 3 until a permanent solution has been implemented.

Stage 4 Exists When:

- a. Company's total water storage or well production has been less than 25 percent of capacity for at least 12 consecutive hours, and
- b. Company has identified issues such as a steadily declining water table, increased draw down threatening pump operations, or poor water production, creating a reasonable belief the Company will be unable to meet anticipated water demand on a sustained basis.

Applies to all **WATER** service areas

PART FOUR
CURTAILMENT PLAN

Restrictions: Under Stage 4, Company shall inform the customers of a **mandatory** restriction to employ water conservation measures to reduce daily consumption. Failure to comply will result in customer disconnection. The following uses of water shall be prohibited:

- Irrigation of outdoor lawns, trees, shrubs, or any plant life is prohibited
- Washing of any vehicle is prohibited
- The use of water for dust control or any outdoor cleaning uses is prohibited
- The use of drip or misting systems of any kind is prohibited
- The filling of any swimming pool, spas, fountains or ornamental pools is prohibited
- The use of construction water is prohibited
- Restaurant patrons shall be served water only upon request
- Any other water intensive activity is prohibited

The Company's operation of its standpipe service is prohibited. The addition of new service lines and meter installations is prohibited.

Notice Requirements:

1. Company is required to notify customers by delivering written notice to each service address, or by United States first class mail to the billing address or, at the Company's option, both. Such notice shall notify the customers of the general nature of the problem and the need to conserve water.
2. Company shall post at least two (2) signs showing curtailment stage. Signs shall be posted at noticeable locations, like at the well sites and at the entrance to major subdivisions served by the Company.
3. Company shall notify the Consumer Services Section of the Utilities Division of the Corporation Commission at least 12 hours prior to entering Stage 4.

Once Stage 4 has been reached, the Company must augment the supply of water by hauling or through an emergency interconnect from an approved supply or must otherwise provide emergency drinking water for its customers until a permanent solution has been implemented.

Customers who fail to comply with the above restrictions will be given a written notice to end all outdoor use. Failure to comply within two (2) working days of receipt of the notice will result in temporary loss of service until an agreement can be made to end unauthorized use of outdoor water. To restore service, the customer shall be required to pay all authorized reconnection fees. If a customer believes he/she has been disconnected in error, the customer may contact the Commission's Consumer Services Section at 1-800-222-7000 to initiate an investigation.

Issued: February 17, 2016

ISSUED BY:

Effective: March 18, 2016

Matthew Garlick, President
Liberty Utilities (Litchfield Park Water & Sewer) Corp.
12725 W. Indian School Road, Suite D-101
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APPROVED FOR FILING
DECISION NO. 76799

Applies to all WASTEWATER service areas

PART FIVE
STATEMENT OF CHARGES

I. RATES

In Decision No. XXXXX, dated XXXXX, 2018, the Commission authorized the following rates and charges to become effective August 1, 2018:

A. Monthly Minimum Charge

Residential:	Charge⁴
Residential Service	\$45.23
Multiple Unit Housing – Monthly Per Unit	41.99
Commercial/Non-Residential:	
Small Commercial – Monthly Service	\$76.50
Commercial Measured Service:	
Regular Domestic – Monthly Service Charge	\$ 42.82
Restaurants, Motels, Grocery Store & Dry Cleaning Estab. – Monthly Service	42.82*
Wigwam Resort:	
Wigwam Resort Monthly Rate – Per Room	\$ 41.99
Wigwam Resort Main Hotel Facilities – Per Month	1,662.97
Schools:	
Elementary Schools	\$1,130.81
Middle & High Schools	1,330.37
Community College	2,062.08
Effluent**	Market Rate

*Motels without restaurants included (eliminate multi-unit monthly rate provision).

**Market Rate – Maximum effluent rate shall not exceed \$430 per acre foot based on a potable water rate of \$1.32 per thousand gallons.

⁴ Low Income Tariff – A 30% discount is available on monthly minimum and commodity charges to qualified residential customers meeting the low income qualifications.

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PART FIVE
STATEMENT OF CHARGES
B. Commodity Charge**Commercial/Non-Residential Customers (Water Usage Data Available)***

Regular Domestic per 1,000 gallons water usage	\$3.74
Restaurants, Motels, Grocery Stores & Dry Cleaning Estab. per 1,000 gallons water usage	4.80

Commercial/Non-Residential Customers (Influent Data) **

Regular Domestic per 1,000 gallons measured influent	\$4.67
Restaurants, Motels, Grocery Stores & Dry Cleaning Estab. per 1,000 gallons measured influent	6.62

*For Commercial/Non-Residential Customers that are provided with water service from the Company or whose water usage is available to the Company from another water utility, Company shall bill non-residential customers based on water usage data provided by Liberty Utilities or water usage data provided by another local water provider. If, at any point, Company is unable to obtain actual water usage data for such commercial/non-residential customers, Company shall bill non-residential customers based on the last known, most recent usage data as a proxy. Billing shall be trued up when actual data is obtained. If no water data can be obtained, a non-residential customer may be required to install an influent meter at cost and such customers shall be billed in accordance with the influent data rates set forth above.

** For customers that are not receiving water service from the Company, and/or the Company is not receiving water usage data information from another water provider, a meter to measure influent will be installed at cost and paid by customer and such customers shall be billed in accordance with the influent data rates set forth above.

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Applies to all WASTEWATER service areas
PART FIVE
STATEMENT OF CHARGES

C. Other Service Related Charges

	<u>Charge</u>
Establishment per A.A.C. R14-2-603(D)(1)	\$20.00
Re-Establishment of Service per A.A.C. R14-2-603(D)(1)	(a)
Disconnection	At Cost (b)
Reconnection per A.A.C. R14-2-603(D)(1)	(b)
NSF Check per A.A.C. R14-2-608(E)(1)	\$25.00 (c)
Deferred Payment (per month)	1.50%
Late Charge	(d)
Service Calls After Hours	\$40.00 (e)
Deposit Requirement	(f)
Deposit Interest per A.A.C. R14-2-603(B)	6.00%
Service Lateral Connection Charge – All Sizes	(g)
Collection Main Extension Tariff per A.A.C. R14-2-606(B)	(h)
Influent Meter and Metering System Installation	At Cost (i)
Wastewater Hook-Up Fee	(j)

- (a) Minimum charge times number of months off the system, per A.A.C. R14-2-603(D)(1).
- (b) Customer shall pay the actual cost including costs for excavation and trenching, pipeline modification, sewer block, backfill and grading, road repairs and permitting. Customer will be provided copies of invoices for actual costs incurred. There shall be no charge if no work is performed.
- (c) Liberty Litchfield Park may charge only one NSF fee when customers are billed for water and sewer services on one bill.
- (d) Greater of \$5.00 or 1.50% of unpaid balance.
- (e) Customer shall be charged for after-hours service calls outside of normal working hours for work performed at customer's request or convenience.
- (f) Per A.A.C. R14-2-603(B)(7):
 Residential – two times the average bill by class.
 Commercial – two and one-half times the customer's estimated maximum monthly bill.
- (g) At cost. Customer/Developer shall install or cause to be installed all Service Laterals as a refundable advance in aid of construction.
- (h) All Main Extensions shall be completed at cost and shall be treated as refundable advances-in-aid of construction.
- (i) The cost of the influent meter and metering system installation shall be at the sole expense of the commercial and industrial user and not subject to refund.
- (j) Residential and Commercial - Customers/Developers shall pay the applicable Wastewater Hook-Up Fees per tariff.

Issued: August 9, 2018

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ISSUED BY:
 Matthew Garlick, President
 Liberty Utilities (Litchfield Park Water & Sewer) Corp.
 12725 W. Indian School Road, Suite D-101
 Avondale, AZ 85392
 Decision No. XXXXX

APPROVED FOR FILING
DECISION NO. 76799

Applies to all WASTEWATER service areas

PART FIVE
STATEMENT OF CHARGES

II. TAXES AND ASSESSMENTS

In addition to the collection of regular rates, the Company will collect from its customers a proportionate share of any privilege, sales, and use tax per A.A.C R14-2-608(D)(5).

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Applies to all WASTEWATER service areas
PART SIX
STATEMENT OF TERMS AND CONDITIONS

I. PERMITTED COSTS

- A. Costs shall be verified by invoice.
- B. For services that are provided by the Company at cost, costs shall include labor, materials, other charges incurred, and overhead. However, prior to any such service being provided, the estimated cost of such service will be provided by the Company to the customer. After review of the cost estimate, the customer will pay the amount of the estimated cost to the Company.
- C. In the event that the actual cost is less than the estimated cost, the Company will refund the excess to the customer within 30 days after completion of the provision of the service or after Company's receipt of invoices, timesheets or other related documents, whichever is later.
- D. In the event the actual cost is more than the estimated cost, the Company will bill the customer for the amount due within 30 days after completion of the invoices, timesheets or other related documents, whichever is later. The amount so billed will be due and payable 30 days after the invoice date.
- E. At the customer's request, the Company shall make available to the customer all invoices, timesheets or related documents that support the cost for providing such service.
- F. Permitted costs shall include any Federal, State or local taxes that are or may be payable by the Company as a result of any tariff or contract for wastewater facilities under which the Customer advances or contributes funds or facilities to the Company.

Applies to all WASTEWATER service areas
PART SIX
STATEMENT OF TERMS AND CONDITIONS

II. CUSTOMER DISCHARGE TO SYSTEM**A. Service Subject to Regulation**

The Company provides wastewater service using treatment and collection facilities that are regulated by numerous county, state and federal Statutes and Regulations. Those Regulations include limitations as to domestic strength wastewater and the type of wastewater that may be discharged into the system by any person directly or indirectly connected to the plant.

B. Waste Limitations

The Company has established the permissible limits of concentration as domestic strength wastewater and will limit concentration for various specific substances, materials, waters, or wastes that can be accepted in the sewer system, and to specify those substances, materials, waters, or wastes that are prohibited from entering the sewer system. Each permissible limit so established shall be placed on file in the business office of the Company, with a copy filed with the Commission. No person shall discharge, or cause to be discharged, any new sources of inflow including, but not limited to, storm water, surface water, groundwater, roof runoffs, subsurface drainage, cooling water, or polluted industrial process waters into the sanitary sewer. The Company will require an affidavit from all commercial and industrial customers, and their professional engineer, stating that the wastewater discharged to the system does not exceed domestic strength.

C. Inspection and Right of Entry

Every facility that is involved directly or indirectly with the discharge of wastewater to the Treatment Plant may be inspected by the Company as it deems necessary. These facilities shall include but not be limited to sewer; sewage pumping plants; all processes; devices and connection sewer; and all similar sewerage facilities. Inspections may be made to determine that such facilities are maintained and operated properly and are adequate to meet the provisions of these rules. Inspections may include the collection of samples. Authorized personnel of the Company shall be provided immediate access to all of the above facilities or to other facilities directly or indirectly connected to the Treatment Plant at all reasonable times including those occasioned by emergency conditions. Any permanent or temporary obstruction to easy access to the user's facility to be inspected shall promptly be removed by the facility user or owner at

Applies to all WASTEWATER service areas
PART SIX
STATEMENT OF TERMS AND CONDITIONS

the written or verbal request of the Company and shall not be replaced. No person shall interfere with, delay, resist or refuse entrance to an authorized Company representative attempting to inspect any facility involved directly or indirectly with a discharge of wastewater to the Treatment Plant. Adequate identification shall be provided by the Company for all inspectors and other authorized personnel and these persons shall identify themselves when entering any property for inspection purposes or when inspecting the work of any contractor.

All transient motor homes, travel trailers and other units containing holding tanks must arrive at the Company's service area in an empty condition. Inspection will be required of said units prior to their being allowed to hookup to the wastewater system.

D. Termination of Water Service for Violation of Wastewater Rules and Regulations

The Company is authorized to discontinue water service to any person connected to both its water and sewer systems who violates the Company's wastewater terms and conditions as set forth in this PART SIX or in any way creates a public health hazard or the likelihood of such a public health hazard. This termination authority also applies to non-payment for water or wastewater services.

E. Certain customers are also subject to additional discharge restrictions under the Wastewater Pre-Treatment Standards set forth in PART SEVEN of this Tariff of Rates and Charges.

III. RULES AND REGULATIONS

The Company has adopted the Rules and Regulations established by the Commission as the basis for its operating procedures. A.A.C. R14-2-601 through A.A.C. R14-2-610 will be controlling of Company procedures, unless specifically approved tariffs or Commission Order(s) provide otherwise.

Applies to all **WASTEWATER** service areas
PART SEVEN

PRETREATMENT STANDARDS

Issued: August 9, 2018

Effective: August 1, 2018

ISSUED BY:
Matthew Garlick, President
Liberty Utilities (Litchfield Park Water & Sewer) Corp.
12725 W. Indian School Road, Suite D-101
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Decision No. XXXXX

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PRETREATMENT PROGRAM

The objective of a Pretreatment Program (the General Pretreatment Regulations (40 CFR, Part 403) of Clean Water Act of 1977) is to protect the water quality and is designed to reduce the level of pollutants discharged by industry and other non-domestic wastewater sources into municipal sewer systems, and thereby, reduce the amount of pollutants released into the environment through wastewater. Liberty Utilities (Litchfield Park Water & Sewer) Corp. (Corporation) enforces requirements of the pretreatment program by enforcing the EPA established limits and the State or local authority on the amount of pollutants allowed to be discharged. This requires dischargers to treat their wastewater prior to its discharge in Corporation's collection system.

As specific objectives of this ordinance are outlined below:

1. To prevent the introduction of pollutants into the Corporation wastewater collection system which will interfere with the operation of the system, including the WWTP, or contaminate the resulting sludge
2. To prevent the introduction of pollutants into the Corporation wastewater collection system which will pass through the system, inadequately treated, into receiving waters or the atmosphere or otherwise be incompatible with the system
3. To improve the opportunity to recycle and reclaim waste waters and sludges from the system
4. To provide for equitable distribution of the cost of operating and maintaining the Corporation's wastewater system.

The Corporation will enforce these standards by limiting the following discharges and will review the pretreatment prior to approval of a discharge into its wastewater system:

1. Discharge of any liquids, solids or gases which by reason of their nature or quantity are, or may be, sufficient either alone or by interaction to cause fire or explosion or be injurious in any other way to the operation of the Corporation's WWTP, or the integrity of the sewer system or cause a danger to the public health or safety is prohibited. This prohibition includes but is not limited to waste streams with a closed cup flash point of less than one hundred forty degrees Fahrenheit or sixty degrees Centigrade using the test methods specified in federal regulations, 40 CFR 261.21.
2. Discharge of any solid or viscous substances which will or may cause obstruction to the flow in a sewer or other interference with the operation of the wastewater system is prohibited.
3. Discharge of any wastewater having a pH less than 5.5 or greater than 9.5 SU, or having any other corrosive property capable of causing damage or hazard to structures, equipment, or personnel of the system, or interference with the operation of the Corporation WWTP is prohibited.
4. Discharge of any wastewater containing hazardous substances, toxic, conventional, or non conventional pollutants in sufficient quantity, either singly or by interaction, which could injure or interfere with any wastewater treatment

process, constitutes a health or safety hazard to humans or animals, or exceed the limitations set forth in the LOCAL REGULATORY LIMITS or the categorical pretreatment standards appropriate for the specific industrial user is prohibited. Hazardous substances, toxic, conventional or non conventional pollutants will include, but not be limited to, any pollutant identified in 40 CFR 122 Appendix D Tables II, III, IV, AND V (AZPDES Permit Limits that are applicable), or substances alone or in combination with other constituents that are determined to be toxic by the toxicity test as defined in 40 CFR Part 136 for wastewater or the toxicity characteristic leaching procedure (TCLP) test as defined in 40 CFR Part 261 for biosolids.

5. Discharge of any noxious or malodorous liquids, gases or solids which, either singly or by interaction, are capable of creating a public nuisance or hazard to life or are sufficient to prevent entry into the sewers without special hazardous material protective equipment or clothing for their maintenance and repair is prohibited.
6. Discharge of any substance which may cause the WWTP effluent or treatment residues, biosolids or scums to be unsuitable for reclamation and reuse or which may interfere with such reclamation and reuse process is prohibited. In no case will a substance discharged to the WWTP cause the WWTP to be in a noncompliance with biosolids use or disposal criteria, guidelines or regulations developed under Section 405 of the Clean Water Act, any criteria, guidelines or regulations affecting biosolids uses or disposal developed pursuant to the Solid Waste Disposal Act, the Clean Air Act, the Toxic Substances Control Act or state or local standards applicable to the biosolids management method adopted by the Corporation and/or local and state authorities.
7. Discharge of any substances which will inhibit the operation or performance of the WWTP or pass through the system and cause the WWTP to violate any requirements of any discharge permit issued by the state or federal government is prohibited.
8. Discharge of any substance with objectionable color not removed in the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions, is prohibited.
9. Discharge of any wastewater having a temperature which will inhibit biological activity in the WWTP treatment plant resulting in interference; but in no case, wastewater with a temperature at the introduction into the WWTP which exceeds thirty eight degrees Celsius (one hundred degrees Fahrenheit) is prohibited.
10. Discharge of any slug load, which will mean any pollutant, including oxygen demanding pollutants (BOD, etc.), released in a single extraordinary discharge episode of such volume or strength as to cause interference to the WWTP is prohibited.
11. Discharge of any wastewater containing any radioactive wastes or isotopes of such half-life or concentration as to exceed limits established by state and federal regulations is prohibited.
12. Discharge of any wastewater which causes the WWTP effluent to exhibit toxicity to test organisms in a standard biological toxicity test as defined by local, state or federal requirements, or which the Corporation determines would be toxic to or

- impede the treatment capabilities of the biological processes in the WWTP is prohibited.
13. Discharge of any petroleum oil, non biodegradable cutting oil or products of mineral oil origin that will cause interference or pass through the WWTP is prohibited.
 14. No industrial user of the WWTP may discharge wastes or waste waters containing concentrations of pollutants higher than those listed in TABLE 1.1.

CONVENTIONAL CONTAMINANTS [mg/L]	
Biochemical Oxygen Demand (BOD)	350
Chemical Oxygen Demand (COD)	1000
Ammonia	75
Total Nitrogen- as N	100
Oil and Grease	100
Suspended Solids	350
ORGANIC CONTAMINANTS (mg/L)	
Benzene	Reserved
Ethyl Benzene	Reserved
Toluene	Reserved
Xylenes	Reserved
Reserved	Reserved
Chloroform	Reserved
Total Oil and Grease (hydrocarbons)	100.0

TRACE METALS	
PARAMETER	Daily Average Effluent Limitation (mg/L)
Arsenic (As)	0.112
Beryllium (Be)	0.008
Cadmium (Cd)	0.012
Chloride (Cl)	Reserved
Chromium (Cr)	0.238
Cobalt (Co)	Reserved
Copper (Cu)	Reserved
Cyanide (CN)	Reserved
Fluoride	9.43
Iron (Fe)	Reserved
Lead (Pb)	0.13
Manganese (Mn)	Reserved
Mercury (Hg)	0.0050
Molybdenum (Mo)	Reserved
Nickel (Ni)	0.242
Selenium (Se)	0.142
Silver (Ag)	Reserved
Sulfate (SO ₄)	Reserved
Sulfide (S)	N/A
Thallium (Tl)	0.005
Zinc (Zn)	Reserved

15. The Corporation can accept certain pollutants which are compatible with the WWTP treatment processes, however, the discharge would pay a surcharge, established on quantity, to cover the costs of such treatment.
16. Dilution of a waste is not an acceptable pretreatment strategy.

Waste Discharge Permits

A waste discharge permit is required for industrial and non-domestic wastewater generators for the following conditions:

1. Any discharger subject to National Categorical Pretreatment Standards
2. Any Significant Industrial discharge as defined by the Corporation
3. Any discharger whose discharge who would be in violation with local limits in Table 1.1.
4. Any discharger by State Pretreatment requirements to obtain a permit
5. Any other discharger directed by the Corporation to apply for a permit

Permit Applications and Fees (to be developed based on site specific conditions)**Violations and enforcement (to be developed based on site specific conditions)****Penalties****Installation of Meter**

The Corporation will be responsible, unless the responsibility is given to the discharger by the Corporation for the reading of water and/or wastewater meters when installed in discharger's establishment. All meters shall be installed in a matter consistent with applicable building/plumbing codes and as approved by the Corporation. All meters will be accessible to the Corporation at all times.

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**LIBERTY UTILITIES
(LITCHFIELD PARK WATER & SEWER) CORP.
INDUSTRIAL PRETREATMENT PROGRAM
STANDARD OPERATING PROCEDURES**

1.1 INTRODUCTION

To control the discharge of pollutants to the Nation's waters, the Clean Water Act (CWA) requires the Environmental Protection Agency (EPA) to promulgate regulations related to discharges. Discharges from non-domestic dischargers can impact the operations of the Publicly Owned Treatment Works (POTWs) as the pollutants can pass through or interfere with the operations of the plants, threaten worker's health and safety, or contaminate sludges. POTWs are designed to treat domestic sewage. The non-domestic discharges are regulated by the National Pretreatment Program. Industrial and commercial dischargers known as IUs) are required to obtain permits or other control mechanisms to discharge wastewater to the POTW under the National Pretreatment Program. EPA promulgated the General Pretreatment Regulations (Title 40 Code of Federal Regulations [CFR] Section 403 [40 CFR 403]), which defines the National Pretreatment Program. The Arizona Administrative Code (AAC) R18-9-A905(A)(8)(b) incorporates the General Pretreatment Regulations.

Liberty Utilities (Litchfield Park Water & Sewer) Corp. operates the Palm Valley Water Reclamation Facility located at McDowell Road and Litchfield Park Road. The Palm Valley Water Reclamation Facility, capable of treating wastewater at the capacity approved by the Arizona Department of Environmental Quality (ADEQ), utilizes the Activated Sludge Process (ASP) technology with sequential batch reactors and UV disinfection. Corporation can regulate discharges from IUs for potential contaminants of concern to minimize impact on its POTW under the Corporation's CODE OF PRACTICE (LPSCO-CP-01).

The discharge of toxic and other harmful pollutants from IUs can be effectively controlled through a local pretreatment program that is based on these regulations, structured to address specific local concerns, and enforced through the Corporation Code LPSCO-CP-01.

The objectives of the pretreatment Standard Operating Procedures ("SOP") are:

- To prevent the introduction of pollutants into the Publicly Owned Treatment Works that will interfere with its operation;
- To prevent the introduction of pollutants into the Publicly Owned Treatment Works that will pass through the Publicly Owned Treatment Works, inadequately treated, into receiving waters, or otherwise be incompatible with the Publicly Owned Treatment Works;
- To protect both Publicly Owned Treatment Works personnel who may be affected by wastewater and sludge in the course of their employment and the general public;
- To promote reuse and recycling of industrial wastewater and sludge from the Publicly Owned Treatment Works;
- To provide for fees for the equitable distribution of the cost of operation, maintenance, and improvement of the Publicly Owned Treatment Works; and

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- To enable Corporation to comply with its Arizona Pollutant Discharge Elimination System permit conditions, sludge use and disposal requirements, and any other Federal or State laws to which the Publicly Owned Treatment Works is subject.

These Standard Operating Procedures (SOPs) shall apply to all IUs of the Corporation POTW. The SOPs include the issuance of individual wastewater discharge permits; provides for monitoring, compliance, and enforcement activities; establishes administrative review procedures; requires IUs reporting; and provides for the setting of fees for the equitable distribution of costs resulting from the program established herein.

1.2 ADMINISTRATION

Except as otherwise provided herein, the Corporation Operations Manager shall administer, implement, and enforce the provisions of this SOP. Any powers granted to or duties imposed upon the Corporation Operations Manager may be delegated by the Corporation Operations Manager to a duly authorized Corporation employee.

1.3 ABBREVIATIONS

The following abbreviations, when used in this SOP, shall have the designated meanings:

AZPDES - Arizona Pollutant Discharge Elimination System
 BOD - Biochemical Oxygen Demand
 BMP - Best Management Practice
 BMR - Baseline Monitoring Report
 CFR - Code of Federal Regulations
 CIU - Categorical Industrial User
 COD - Chemical Oxygen Demand
 EPA - U.S. Environmental Protection Agency
 gpd - gallons per day
 IU - Industrial User
 mg/l - milligrams per liter
 NPDES - National Pollutant Discharge Elimination System
 NSCIU - Non-Significant Categorical Industrial User
 POTW - Publicly Owned Treatment Works
 RCRA - Resource Conservation and Recovery Act
 SIU - Significant Industrial User
 SNC - Significant Noncompliance
 TSS - Total Suspended Solids
 U.S.C. - United States Code

ORIGINAL**1.4 DEFINITIONS**

- A. Act or "the Act." The Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 U.S.C. section 1251 et seq.
- B. Approval Authority. Arizona Department of Environmental Quality, the Arizona Administrative Code (AAC) R18-9-A905(A)(8)(b)
- C. Authorized or Duly Authorized Representative of the IU
- (1) If the IU is a corporation:
 - (a) The president, secretary, treasurer, or a vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation; or
 - (b) The manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; can ensure that the necessary systems are established or actions taken to gather complete and accurate information for individual wastewater discharge permit requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - (2) If the IU is a partnership or sole proprietorship: a general partner or proprietor, respectively.
 - (3) If the IU is a Federal, State, or local governmental facility: a director or highest official appointed or designated to oversee the operation and performance of the activities of the government facility, or their designee.
 - (4) The individuals described in paragraphs 1 through 3, above, may designate a Duly Authorized Representative if the authorization is in writing, the authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or having overall responsibility for environmental matters for the company and the written authorization is submitted to Corporation.
- D. Biochemical Oxygen Demand or BOD. The quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedures for five (5) days at 20 degrees centigrade, usually expressed as a concentration (e.g., mg/l).

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- E. Best Management Practices or BMPs means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to implement the prohibitions listed in Section 2.1 A and B [40 CFR 403.5(a)(1) and (b)] and/or the Arizona Administrative Code (AAC) R18-9-A905(A)(8)(b). BMPs include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.
- F. Categorical Pretreatment Standard or Categorical Standard. Any regulation containing pollutant discharge limits promulgated by EPA in accordance with sections 307(b) and © of the Act (33 U.S.C. section 1317) that apply to a specific category of IUs and that appear in 40 CFR Chapter I, Subchapter N, Parts 405 471.
- G. Categorical Industrial User. An IU subject to a categorical Pretreatment Standard or categorical Standard.
- H. Corporation Organizational Structure - The Operations Manager or their designee shall be responsible official who will administer this pretreatment program and the permitting process.
- I. Chemical Oxygen Demand or COD. A measure of the oxygen required to oxidize all compounds, both organic and inorganic, in water.
- J. Control Authority. Corporation
- K. Daily Maximum. The arithmetic average of all effluent samples for a pollutant collected during a calendar day.
- L. Daily Maximum Limit. The maximum allowable discharge limit of a pollutant during a calendar day. Where Daily Maximum Limits are expressed in units of mass, the daily discharge is the total mass discharged over the course of the day. Where Daily Maximum Limits are expressed in terms of a concentration, the daily discharge is the arithmetic average measurement of the pollutant concentration derived from all measurements taken that day.
- M. Environmental Protection Agency or EPA. The U.S. Environmental Protection Agency or, where appropriate, the Regional Water Management Division Director, the Regional Administrator, or other duly authorized official of said agency.
- K. Existing Source. Any source of discharge that is not a "New Source."
- L. Grab Sample. A sample that is taken from a waste stream without regard to the flow in the waste stream and over a period of time not to exceed fifteen (15) minutes.
- M. Indirect Discharge or Discharge. The introduction of pollutants into the POTW from any nondomestic source.

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- N. **Daily Maximum Limit.** The maximum concentration of a pollutant allowed to be discharged at any time, determined from the analysis of any discrete or composited sample collected, independent of the industrial flow rate and the duration of the sampling event.
- O. **Interference.** A discharge that, alone or in conjunction with a discharge or discharges from other sources, inhibits or disrupts the POTW, its treatment processes or operations or its sludge processes, use or disposal; and therefore, is a cause of a violation of Corporation's AZPDES permit or of the prevention of sewage sludge use or disposal in compliance with any of the following statutory/regulatory provisions or permits issued thereunder, or any more stringent State or local regulations: section 405 of the Act; the Solid Waste Disposal Act, including Title II commonly referred to as the Resource Conservation and Recovery Act (RCRA); any State regulations contained in any State sludge management plan prepared pursuant to Subtitle D of the Solid Waste Disposal Act; the Clean Air Act; the Toxic Substances Control Act; and the Marine Protection, Research, and Sanctuaries Act.
- P. **Local Limit.** Specific discharge limits developed and enforced by the Corporation upon industrial or commercial facilities to implement the general and specific discharge prohibitions listed in 40 CFR 403.5(a)(1) and (b).
- Q. **Medical Waste.** Isolation wastes, infectious agents, human blood and blood products, pathological wastes, sharps, body parts, contaminated bedding, surgical wastes, potentially contaminated laboratory wastes, and dialysis wastes.
- R. **Monthly Average.** The sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month.
- S. **Monthly Average Limit.** The highest allowable of "daily maximum discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month.
- T. **New Source.**
- (1) Any building, structure, facility, or installation from which there is (or may be) a discharge of pollutants, the construction of which commenced after the publication of proposed Pretreatment Standards under section 307© of the Act that will be applicable to such source if such Standards are thereafter promulgated in accordance with that section, provided that:
- (a) The building, structure, facility, or installation is constructed at a site at which no other source is located; or
- (b) The building, structure, facility, or installation totally replaces the process or production equipment that causes the discharge of pollutants at an Existing Source; or
- (c) The production or wastewater generating processes of the building, structure, facility, or installation are substantially independent of an Existing Source at

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the same site. In determining whether these are substantially independent, factors such as the extent to which the new facility is integrated with the existing plant, and the extent to which the new facility is engaged in the same general type of activity as the Existing Source, should be considered.

- (2) Construction on a site at which an Existing Source is located results in a modification rather than a New Source if the construction does not create a new building, structure, facility, or installation meeting the criteria of Section (1)(b) or (c) above but otherwise alters, replaces, or adds to existing process or production equipment.
 - (3) Construction of a New Source as defined under this paragraph has commenced if the owner or operator has:
 - (a) Begun, or caused to begin, as part of a continuous onsite construction program
 - (i) any placement, assembly, or installation of facilities or equipment; or
 - (ii) significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or
 - (b) Entered into a binding contractual obligation for the purchase of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.
- U. Noncontact Cooling Water. Water used for cooling that does not come into direct contact with any raw material, intermediate product, waste product, or finished product.
- V. Pass Through. A discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the Corporation's AZPDES permit, including an increase in the magnitude or duration of a violation.
- W. Person. Any individual, partnership, co-partnership, firm, company, corporation, association, joint stock company, trust, estate, governmental entity, or any other legal entity; or their legal representatives, agents, or assigns. This definition includes all Federal, State, and local governmental entities.
- X. pH. A measure of the acidity or alkalinity of a solution, expressed in standard units.
- Y. Pollutant. Dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, Medical Wastes, chemical wastes, biological materials,

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radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, municipal, agricultural and industrial wastes, and certain characteristics of wastewater (e.g., pH, temperature, TSS, turbidity, color, BOD, COD, toxicity, or odor).

- Z. Pretreatment. The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to, or in lieu of, introducing such pollutants into the POTW. This reduction or alteration can be obtained by physical, chemical, or biological processes; by process changes; or by other means, except by diluting the concentration of the pollutants unless allowed by an applicable Pretreatment Standard.
- AA. Pretreatment Requirements. Any substantive or procedural requirement related to pretreatment imposed on a IU, other than a Pretreatment Standard.
- BB. Pretreatment Standards or Standards. Pretreatment Standards shall mean prohibited discharge standards, categorical Pretreatment Standards, and Local Limits.
- CC. Prohibited Discharge Standards or Prohibited Discharges. Absolute prohibitions against the discharge of certain substances; these prohibitions appear in Section 2.1 of this SOP.
- DD. Publicly Owned Treatment Works or POTW. A treatment works, as defined by section 212 of the Act (33 U.S.C. section 1292), which is owned by Corporation. This definition includes any devices or systems used in the collection, storage, treatment, recycling, and reclamation of sewage or industrial wastes of a liquid nature and any conveyances, which convey wastewater to a treatment plant.
- EE. Septic Tank Waste. Any sewage from holding tanks such as vessels, chemical toilets, campers, trailers, and septic tanks.
- FF. Sewage. Human excrement and gray water (household showers, dishwashing operations, etc.).
- GG. Significant Industrial User (SIU). Except as provided in paragraphs (3) and (4) of this Section, a Significant Industrial User is:
- (1) An IU subject to categorical Pretreatment Standards; or
 - (2) An IU that:
 - (a) Discharges an average of twenty five thousand (25,000) gpd or more of process wastewater to the POTW (excluding sanitary, noncontact cooling and boiler blowdown wastewater);
 - (b) Contributes a process waste stream which makes up five (5) percent or more of the average dry weather hydraulic or organic (BOD, ammonia, and/or total nitrogen) capacity of the POTW treatment plant; or

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- (c) Is designated as such by Corporation on the basis that it has a reasonable potential for adversely affecting the POTW's operation or for violating any Pretreatment Standard or Requirement.
- (3) Corporation may determine that an IU subject to categorical Pretreatment Standards is a Non-Significant Categorical IU rather than a Significant IU on a finding that the IU never discharges more than 100 gallons per day (gpd) of total categorical wastewater (excluding sanitary, non-contact cooling and boiler blowdown wastewater, unless specifically included in the Pretreatment Standard) and the following conditions are met:
- The IU, prior to Corporation's finding, has consistently complied with all applicable categorical Pretreatment Standards and Requirements;
 - The IU annually submits the certification statement required in Section 6.14 B [see 40 CFR 403.12(q)], together with any additional information necessary to support the certification statement; and
 - The IU never discharges any untreated concentrated wastewater.
- (4) Upon a finding that a IU meeting the criteria in Subsection (2) of this part has no reasonable potential for adversely affecting the POTW's operation or for violating any Pretreatment Standard or Requirement, Corporation may at any time, on its own initiative or in response to a petition received from an IU, and in accordance with procedures in 40 CFR 403.8(f)(6), determine that such IU should not be considered a Significant IU.
- HH. Slug Load or Slug Discharge. Any discharge at a flow rate or concentration, which could cause a violation of the prohibited discharge standards in Section 2.1 of this SOP. A Slug Discharge is any Discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch Discharge, which has a reasonable potential to cause Interference or Pass Through, or in any other way violate the POTW's regulations, Local Limits or Permit conditions.
- II. Storm Water. Any flow occurring during or following any form of natural precipitation, and resulting from such precipitation, including snowmelt.
- JJ. Corporation Operations Manager The person designated by Corporation to supervise the operation of the POTW, and who is charged with certain duties and responsibilities by this SOP. The term also means a Duly Authorized Representative of the Corporation Operations Manager.
- KK. Total Suspended Solids or Suspended Solids. The total suspended matter that floats on the surface of, or is suspended in, water, wastewater, or other liquid, and that is removable by laboratory filtering.
- LL. User or Industrial User. A source of indirect discharge.

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MM. Wastewater. Liquid and water-carried industrial wastes and sewage from residential dwellings, commercial buildings, industrial and manufacturing facilities, and institutions, whether treated or untreated, which are contributed to the POTW.

NN. Wastewater Treatment Plant or Treatment Plant. That portion of the POTW which is designed to provide treatment of municipal sewage and industrial waste.

2.1 GENERAL SEWER USE REQUIREMENTS

2.2 Prohibited Discharge Standards

A. General Prohibitions. No IU shall introduce or cause to be introduced into the POTW any pollutant or wastewater which causes Pass Through or Interference. These general prohibitions apply to all IUs of the POTW whether or not they are subject to categorical Pretreatment Standards or any other National, State, or local Pretreatment Standards or Requirements.

B. Specific Prohibitions. No IU shall introduce or cause to be introduced into the POTW the following pollutants, substances, or wastewater:

- (1) Pollutants which create a fire or explosive hazard in the POTW, including, but not limited to, waste streams with a closed cup flashpoint of less than 140 degrees F (60 degrees C) using the test methods specified in 40 CFR 261.21;
- (2) Wastewater having a pH less than 5.5 or more than 9.5, or otherwise causing corrosive structural damage to the POTW or equipment;
- (3) Pollutants, including oxygen demanding pollutants (BOD, etc.), released in a discharge at a flow rate and/or pollutant concentration which, either singly or by interaction with other pollutants, will cause Interference with the POTW;
- (5) Wastewater having a temperature greater than 100 degrees F, or which will inhibit biological activity in the treatment plant resulting in Interference.
- (6) Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin, in amounts that will cause Interference or Pass Through;
- (7) Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;
- (8) Trucked or hauled pollutants, except at discharge points designated by Corporation Operations Manager in accordance with Section 3.4 of this SOP;

Pollutants, substances, or wastewater prohibited by this Section shall not be processed or stored in such a manner that they could be discharged to the POTW.

2.3 National Categorical Pretreatment Standards

IUs must comply with the categorical Pretreatment Standards found at 40 CFR Chapter I, Subchapter N, Parts 405-471.

- A. Where a categorical Pretreatment Standard is expressed only in terms of either the mass or the concentration of a pollutant in wastewater, Corporation Operations Manager may impose equivalent concentration or mass limits in accordance with Section 2.2E and 2.2F.
- B. When the limits in a categorical Pretreatment Standard are expressed only in terms of mass of pollutant per unit of production, the Corporation Operations Manager may convert the limits to equivalent limitations expressed either as mass of pollutant discharged per day or effluent concentration for purposes of calculating effluent limitations applicable to individual IUs.
- C. When wastewater subject to a categorical Pretreatment Standard is mixed with wastewater not regulated by the same Standard, Corporation Operations Manager shall impose an alternate limit in accordance with 40 CFR 403.6(e).

2.4 State Pretreatment Standards

IUs must comply with The Arizona Administrative Code (AAC) R18-9-A905(A)(8)(b) incorporates the General Pretreatment Regulations.

2.5 Local Limits

- A. The Corporation Operations Manager is authorized to establish Local Limits pursuant to 40 CFR 403.5©.
- B. The following pollutant limits are established to protect against Pass Through and Interference. No person shall discharge wastewater containing in excess of the following Daily Maximum Limits:

CONVENTIONAL CONTAMINANTS [mg/L]	
PARAMETER	Daily Average Effluent Limitation (mg/L)
Biochemical Oxygen Demand (BOD)	350
Chemical Oxygen Demand (COD)	1000
Ammonia	75
Total Nitrogen- as NO ₃	100
Oil and Grease	100
Suspended Solids	350

VOLATILE ORGANIC CONTAMINANTS (mg/L)	
PARAMETER	Daily Average Effluent Limitation (mg/L)
Benzene	Reserved
Carbon Tetrachloride	Reserved
Chlorobenzene	Reserved
Ethyl Benzene	Reserved
o-Dichlorobenzene	Reserved
Para-dichlorobenzene	Reserved
Trans-1,2-Dichloroethylene	Reserved
1,2-Dichloropropane	Reserved
Ethylbenzene	Reserved
Methylene chloride	Reserved

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PARAMETER	Daily Average Effluent Limitation (mg/L)
Styrene	Reserved
Tetrachloroethylene (PCE)	Reserved
Toluene	Reserved
Total Trihalomethanes	0.60
Chloroform	Reserved
Bromoform	Reserved
Bromodichlormethane	Reserved
Chlorodibromomethane	Reserved
1,2,4-Trichlorobenzene	Reserved
1,1,1-Trichloroethane	Reserved
1,1,2-Trichloroethane	Reserved
Trichloroethylene (TCE)	Reserved
Xylenes (Total)	Reserved
Bromate	Reserved
Chlorate	Reserved
Haloacetic Acids (HAA5)	0.60
Total Oil and Grease (hydrocarbons)	100.0

PARAMETER	Daily Average Effluent Limitation(mg/L)
Arsenic (As)	0.112
Beryllium (Be)	0.008
Cadmium (Cd)	0.012
Chloride (Cl)	Reserved
Cobalt (Co)	Reserved
Copper (Cu)	Reserved
Cyanide (CN)	Reserved
Fluoride (F)	9.43
Iron (Fe)	Reserved
Lead (Pb)	0.13
Manganese (Mn)	Reserved
Mercury (Hg)	0.005
Molybdenum (Mo)	Reserved
Nitrate (NO ₃)	100
Nickel (Ni)	0.242
Selenium (Se)	0.142
Silver (Ag)	Reserved
Sulfate (SO ₄)	Reserved
Sulfide (S)	N/A
Thallium (Tl)	0.005

SYNTHETIC ORGANIC CONTAMINANTS (ppb)	
PARAMETER	Daily Average Effluent Limitation(mg/L)
Acrylamide	Total Toxic Organics (TTO) (Reserved)
Alachlor	2.0
Aldicarb	3.0
Aldicarb Sulfoxide	4.0
Aldicarb Sulfone	2.0
Atrizene	3.0
Benzo(a)pyrene (PAHs)	0.2
Carbofuran	40
Chlordane	2.0
2,4-D	70.0
Di(2-ethylhexyl) adipate	400.0
Di(2-ethylhexyl) phthlate	6.0
Dibromochloro-propane (DBCP)	0.2
Disnoseb	7.0
Diquat	20.0
Endothall	100.0
Endrin	2.0
Epichlorohydrin	TTO (Reserved)
Ethylene Dibromide (EDB)	0.05
Glyphosphate	700.0

Heptachlor	0.4
Heptachlor epoxide	0.2
Hexachlorbenzene	1.0
Hexachlorocyclopentadiene (HEX)	50.0
Lindane	0.2
Methoxychlor	40.0
Oxyamyl (Vydate)	200.0
Pentachlorophenol	1.0
Picloram	500.0
Polychlorinated biphenyls (PCBs)	0.5
Perfluoroalkyl Substances (PFAS)	Reserved
Perfluorooctane, Sulfonate (PFOS)	Reserved
Perfluorooctanoic Acid (PFOA)	Reserved
Simazine	4.0
2,3,7,8-TCDD (Dioxin)	0.00003
Toxaphene	3.0
2,4,5-TP (Silvex)	50.0

The above limits apply at the point where the wastewater is discharged to the POTW. All concentrations for metallic substances are for total metal unless indicated otherwise. Corporation Operations Manager may impose mass limitations in addition to the concentration-based limitations above.

2.6 Corporation Right of Revision

Corporation reserves the right to establish, by SOP or in individual wastewater discharge permits, more stringent Standards or Requirements on discharges to the POTW consistent with the purpose of this SOP.

2.7 Dilution

No IU shall ever increase the use of process water, or in any way attempt to dilute a discharge, as a partial or complete substitute for adequate treatment to achieve compliance with a discharge limitation unless expressly authorized by an applicable Pretreatment Standard or Requirement. Corporation Operations Manager may impose mass limitations on IU who are using dilution to meet applicable Pretreatment Standards or Requirements or in other cases when the imposition of mass limitations is appropriate.

SECTION 3 - PRETREATMENT OF WASTEWATER

3.1 Pretreatment Facilities

IUs shall provide wastewater treatment as necessary to comply with this SOP and shall achieve compliance with all categorical Pretreatment Standards, Local Limits, and the prohibitions set out in Section 2.1 of this SOP within the time limitations specified by EPA, the State, or Corporation Operations Manager, whichever is more stringent. Any facilities necessary for compliance shall be provided, operated, and maintained at the IU's expense. Detailed plans describing such facilities and operating procedures shall be submitted to Corporation Operations Manager for review, and shall be acceptable to Corporation Operations Manager before such facilities are constructed. The review of such plans and operating procedures shall in no way relieve the IU from the responsibility of modifying such facilities as necessary to produce a discharge acceptable to Corporation under the provisions of this SOP.

3.2 Additional Pretreatment Measures

- A. Whenever deemed necessary, Corporation Operations Manager may require IUs to restrict their discharge during peak flow periods, designate that certain wastewater be discharged only into specific sewers, relocate and/or consolidate points of discharge, separate sewage waste streams from industrial waste streams, and such other conditions as may be necessary to protect the POTW and determine the IU's compliance with the requirements of this SOP.

- B. Corporation Operations Manager may require any person discharging into the POTW to install and maintain, on their property and at their expense, a suitable storage and flow control facility to ensure equalization of flow. An individual wastewater discharge permit may be issued solely for flow equalization.
- C. Grease, oil, and sand interceptors shall be provided when, in the opinion of Corporation Operations Manager, they are necessary for the proper handling of wastewater containing excessive amounts of grease and oil, or sand; except that such interceptors shall not be required for residential users. All interception units shall be of a type and capacity approved by Corporation Operations Manager, shall be so located to be easily accessible for cleaning and inspection. Such interceptors shall be inspected, cleaned, and repaired by the IU at their expense.
- D. IUs with the potential to discharge flammable substances may be required to install and maintain an approved combustible gas detection meter.

3.3 Accidental Discharge/Slug Discharge Control Plans

Corporation Operations Manager shall evaluate whether each SIU needs an accidental discharge/slug discharge control plan or other action to control Slug Discharges. Corporation Operations Manager may require any IU to develop, submit for approval, and implement such a plan or take such other action that may be necessary to control Slug Discharges. Alternatively, Corporation Operations Manager may develop such a plan for any IU. An accidental discharge/slug discharge control plan shall address, at a minimum, the following:

- A. Description of discharge practices, including non-routine batch discharges;
- B. Description of stored chemicals;
- C. Procedures for immediately notifying Corporation Operations Manager of any accidental or Slug Discharge, as required by Section 6.6 of this SOP; and
- D. Procedures to prevent adverse impact from any accidental or Slug Discharge. Such procedures include, but are not limited to, inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site runoff, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants, including solvents, and/or measures and equipment for emergency response.

3.4 Hauled Wastewater

- A. Septic tank waste may be introduced into the POTW only at locations designated by Corporation Operations Manager, and at such times as are established by Corporation Operations Manager. Such waste shall not violate Section 2 of this SOP or any other requirements established by Corporation. Corporation Operations Manager may require septic tank waste haulers to obtain individual wastewater discharge permits.

- B. Corporation Operations Manager may require haulers of industrial waste to obtain individual wastewater discharge permits. Corporation Operations Manager may require generators of hauled industrial waste to obtain individual wastewater discharge permits. Corporation Operations Manager also may prohibit the disposal of hauled industrial waste. The discharge of hauled industrial waste is subject to all other requirements of this SOP.
- C. Industrial waste haulers may discharge loads only at locations designated by Corporation Operations Manager. No load may be discharged without prior consent of Corporation Operations Manager. Corporation Operations Manager may collect samples of each hauled load to ensure compliance with applicable Standards. Corporation Operations Manager may require the industrial waste hauler to provide a waste analysis of any load prior to discharge.
- D. Industrial waste haulers must provide a waste tracking form for every load. This form shall include, at a minimum, the name and address of the industrial waste hauler, permit number, truck identification, names and addresses of sources of waste, and volume and characteristics of waste. The form shall identify the type of industry, known or suspected waste constituents, and whether any wastes are RCRA hazardous wastes.

SECTION 4 - INDIVIDUAL WASTEWATER DISCHARGE PERMITS

4.1 Wastewater Analysis

When requested by Corporation Operations Manager, an IU must submit information on the nature and characteristics of its wastewater within 30 days of the request. Corporation Operations Manager is authorized to prepare a form for this purpose and may periodically require IUs to update this information.

4.2 Individual Wastewater Discharge Permit Requirement

- A. No Significant IU shall discharge wastewater into the POTW without first obtaining an individual wastewater discharge permit from Corporation Operations Manager, except that a Significant IU that has filed a timely application pursuant to Section 4.3 of this SOP may continue to discharge for the time period specified therein.
- B. Corporation Operations Manager may require other IUs to obtain individual wastewater discharge permits as necessary to carry out the purposes of this SOP.
- C. Any violation of the terms and conditions of an individual wastewater discharge permit shall be deemed a violation of this SOP and subjects the wastewater discharge permittee to the sanctions set out in Sections 10 through 12 of this SOP. Obtaining an individual wastewater discharge permit does not relieve a permittee of its obligation to comply with all Federal and State Pretreatment Standards or Requirements or with any other requirements of Federal, State, and local law.

4.3 Individual Wastewater Discharge Permitting: Existing Connections

Any IU required to obtain an individual wastewater discharge permit who was discharging wastewater into the POTW prior to the effective date of this SOP and who wishes to continue such discharges in the future, shall, within 90 days after said date, apply to Corporation Operations Manager for an individual wastewater discharge permit in accordance with Section 4.5 of this SOP, and shall not cause or allow discharges to the POTW to continue after 30 days of the effective date of this SOP except in accordance with an individual wastewater discharge permit issued by Corporation Operations Manager .

4.4 Individual Wastewater Discharge Permitting: New Connections

Any IU required to obtain an individual wastewater discharge permit who proposes to begin or recommence discharging into the POTW must obtain such permit prior to the beginning or recommencing of such discharge. An application for this individual wastewater discharge permit, in accordance with Section 4.5 of this SOP, must be filed at least 90 days prior to the date upon which any discharge will begin or recommence.

4.5 Individual Wastewater Discharge Permit Application Contents

- A. All IUs required to obtain an individual wastewater discharge permit must submit a permit application. Corporation Operations Manager may require IUs to submit all or some of the following information as part of a permit application:
- (1) Identifying Information.
 - a. The name and address of the facility, including the name of the operator and owner.
 - b. Contact information, description of activities, facilities, and plant production processes on the premises;
 - (2) Environmental Permits. A list of any environmental control permits held by or for the facility.
 - (3) Description of Operations.
 - a. A brief description of the nature, average rate of production (including each product produced by type, amount, processes, and rate of production), and standard industrial classifications of the operation(s) carried out by such IU. This description should include a schematic process diagram, which indicates points of discharge to the POTW from the regulated processes.
 - b. Types of wastes generated, and a list of all raw materials and chemicals used or stored at the facility which are, or could accidentally or intentionally be, discharged to the POTW;
 - c. Number and type of employees, hours of operation, and proposed or actual hours of operation;

- d. Type and amount of raw materials processed (average and maximum per day);
 - e. Site plans, floor plans, mechanical and plumbing plans, and details to show all sewers, floor drains, and appurtenances by size, location, and elevation, and all points of discharge;
- (4) Time and duration of discharges;
- (5) The location for monitoring all wastes covered by the permit;
- (6) Flow Measurement. Information showing the measured average daily and maximum daily flow, in gallons per day, to the POTW from regulated process streams and other streams, as necessary, to allow use of the combined waste stream formula set out in Section 2.2C (40 CFR 403.6(e)).
- (7) Measurement of Pollutants.
- a. The categorical Pretreatment Standards applicable to each regulated process and any new categorically regulated processes for Existing Sources.
 - b. The results of sampling and analysis identifying the nature and concentration, and/or mass, where required by the Standard or by Corporation Operations Manager, of regulated pollutants in the discharge from each regulated process.
 - c. Instantaneous, Daily Maximum, and long-term average concentrations, or mass, where required, shall be reported.
 - d. The sample shall be representative of daily operations and shall be analyzed in accordance with procedures set out in Section 6.10 of this SOP. Where the Standard requires compliance with a BMP or pollution prevention alternative, the IU shall submit documentation as required by the Corporation Operations Manager or the applicable Standards to determine compliance with the Standard.
 - e. Sampling must be performed in accordance with procedures set out in Section 6.11 of this SOP.
- (8) Any other information as may be deemed necessary by Corporation Operations Manager to evaluate the permit application.
- B. Incomplete or inaccurate applications will not be processed and will be returned to the IU for revision.

4.6 Application Signatories and Certifications

- A. All wastewater discharge permit applications, IU reports and certification statements must be signed by an Authorized Representative of the IU and contain the certification statement in Section 6.14 A. [see Section 1.4 C for definition]

- B. If the designation of an Authorized Representative is no longer accurate because a different individual or position has responsibility for the overall operation of the facility or overall responsibility for environmental matters for the company, a new written authorization satisfying the requirements of this Section must be submitted to Corporation Operations Manager prior to or together with any reports to be signed by an Authorized Representative.

4.7 Individual Wastewater Discharge Permit Decisions

Corporation Operations Manager will evaluate the data furnished by the IU and may require additional information. Within 30 days of receipt of a complete permit application, Corporation Operations Manager will determine whether to issue an individual wastewater discharge permit. Corporation Operations Manager may deny any application for an individual wastewater discharge permit.

SECTION 5 - INDIVIDUAL WASTEWATER DISCHARGE PERMIT ISSUANCE

5.1 Individual Wastewater Discharge Permit Duration

An individual wastewater discharge permit shall be issued for a specified time period, not to exceed five (5) years from the effective date of the permit. An individual wastewater discharge permit may be issued for a period less than five (5) years, at the discretion of Corporation Operations Manager. Each individual wastewater discharge permit will indicate a specific date upon which it will expire.

5.2 Individual Wastewater Discharge Permit Contents

An individual wastewater discharge permit shall include such conditions as are deemed reasonably necessary by Corporation Operations Manager to prevent Pass Through or Interference, protect the quality of the water body receiving the treatment plant's effluent, protect worker health and safety, facilitate sludge management and disposal, and protect against damage to the POTW.

A. Individual wastewater discharge permits must contain:

- (1) A statement that indicates the wastewater discharge permit issuance date, expiration date and effective date;
- (2) A statement that the wastewater discharge permit is nontransferable without prior notification to Corporation in accordance with Section 5.5 of these SOPs, and provisions for furnishing the new owner or operator with a copy of the existing wastewater discharge permit;
- (3) Effluent limits, including Best Management Practices, based on applicable Pretreatment Standards;
- (4) Self-monitoring, sampling, reporting, notification, and record-keeping requirements.

These requirements shall include an identification of pollutants (or best management practice) to be monitored, sampling location, sampling frequency, and sample type based on Federal, State, and local law.

- (5) A statement of applicable civil and criminal penalties for violation of Pretreatment Standards and Requirements, and any applicable compliance schedule. Such schedule may not extend the time for compliance beyond that required by applicable Federal, State, or local law.
 - (6) Requirements to control Slug Discharge, if determined by the Corporation Operations Manager to be necessary.
- B. Individual wastewater discharge permits may contain, but need not be limited to, the following conditions:
- (1) Limits on the average and/or maximum rate of discharge, time of discharge, and/or requirements for flow regulation and equalization;
 - (2) Requirements for the installation of pretreatment technology, pollution control, or construction of appropriate containment devices, designed to reduce, eliminate, or prevent the introduction of pollutants into the treatment works;
 - (3) Requirements for the development and implementation of spill control plans or other special conditions including management practices necessary to adequately prevent accidental, unanticipated, or non-routine discharges;
 - (4) Development and implementation of waste minimization plans to reduce the amount of pollutants discharged to the POTW;
 - (5) The unit charge or schedule of IU charges and fees for the management of the wastewater discharged to the POTW;
 - (6) Requirements for installation and maintenance of inspection and sampling facilities and equipment, including flow measurement devices;
 - (7) A statement that compliance with the individual wastewater discharge permit does not relieve the permittee of responsibility for compliance with all applicable Federal and State Pretreatment Standards, including those which become effective during the term of the individual wastewater discharge permit; and
 - (8) Other conditions as deemed appropriate by Corporation Operations Manager to ensure compliance with this SOP, and State and Federal laws, rules, and regulations.

5.3 Permit Modification

- A. Corporation Operations Manager may modify an individual wastewater discharge permit for good cause, including, but not limited to, the following reasons:
- (1) To incorporate any new or revised Federal, State, or local Pretreatment Standards or Requirements;
 - (2) To address significant alterations or additions to the IU's operation, processes, or wastewater volume or character since the time of the individual wastewater discharge permit issuance;
 - (3) A change in the POTW that requires either a temporary or permanent reduction or elimination of the authorized discharge;
 - (4) Information indicating that the permitted discharge poses a threat to Corporation POTW, Corporation personnel, or the receiving waters;
 - (5) Violation of any terms or conditions of the individual wastewater discharge permit;
 - (6) Misrepresentations or failure to fully disclose all relevant facts in the wastewater discharge permit application or in any required reporting;
 - (7) Revision of or a grant of variance from categorical Pretreatment Standards pursuant to 40 CFR 403.13;
 - (8) To correct typographical or other errors in the individual wastewater discharge permit; or
 - (9) To reflect a transfer of the facility ownership or operation to a new owner or operator where requested in accordance with Section 5.5.

5.4 Individual Wastewater Discharge Permit Transfer

Individual wastewater discharge permits may be transferred to a new owner or operator only if the permittee gives at least 60 days advance notice to Corporation Operations Manager and Corporation Operations Manager approves the individual wastewater discharge permit transfer. The notice to Corporation Operations Manager must include a written certification by the new owner or operator which:

- A. States that the new owner and/or operator has no immediate intent to change the facility's operations and processes;
- B. Identifies the specific date on which the transfer is to occur; and

- C. Acknowledges full responsibility for complying with the existing individual wastewater discharge permit.

Failure to provide advance notice of a transfer renders the individual wastewater discharge permit void as of the date of facility transfer.

5.5 Individual Wastewater Discharge Permit Revocation

Corporation Operations Manager may revoke an individual wastewater discharge permit for good cause, including, but not limited to, the following reasons:

- A. Failure to notify Corporation Operations Manager of significant changes to the wastewater prior to the changed discharge;
- B. Failure to provide prior notification to Corporation Operations Manager of changed conditions pursuant to Section 6.5 of this SOP;
- C. Misrepresentation or failure to fully disclose all relevant facts in the wastewater discharge permit application;
- D. Falsifying self-monitoring reports and certification statements;
- E. Tampering with monitoring equipment;
- F. Refusing to allow Corporation Operations Manager timely access to the facility premises and records;
- G. Failure to meet effluent limitations;
- H. Failure to pay fines;
- I. Failure to pay sewer charges;
- J. Failure to meet compliance schedules;
- K. Failure to complete a wastewater survey or the wastewater discharge permit application;
- L. Failure to provide advance notice of the transfer of business ownership of a permitted facility; or
- M. Violation of any Pretreatment Standard or Requirement, or any terms of the wastewater discharge permit or this SOP.

Individual wastewater discharge permits shall be voidable upon cessation of operations or transfer of business ownership. All individual wastewater discharge permits issued to a IU are void upon the issuance of a new individual wastewater discharge permit to that IU.

5.6 Individual Wastewater Discharge Permit Reissuance

An IU with an expiring individual wastewater discharge permit shall apply for individual wastewater discharge permit reissuance by submitting a complete permit application, in accordance with Section

4.5 of this SOP, a minimum of 90 days prior to the expiration of the IU's existing individual wastewater discharge permit.

SECTION 6 - REPORTING REQUIREMENTS

6.1 Baseline Monitoring Reports

A. Within either one hundred eighty (180) days after the effective date of a categorical Pretreatment Standard, or the final administrative decision on a category determination under 40 CFR 403.6(a)(4), whichever is later, existing Categorical IUs currently discharging to or scheduled to discharge to the POTW shall submit to Corporation Operations Manager a report which contains the information listed in paragraph B, below. At least ninety (90) days prior to commencement of their discharge, New Sources, and sources that become Categorical IUs subsequent to the promulgation of an applicable categorical Standard, shall submit to Corporation Operations Manager a report which contains the information listed in paragraph B, below. A New Source shall report the method of pretreatment it intends to use to meet applicable categorical Standards. A New Source also shall give estimates of its anticipated flow and quantity of pollutants to be discharged.

B. IUs described above shall submit the information set forth below.

(1) All information required in Section 4.5A (1) (a), Section 4.5A (2), Section 4.5A (3) (a), and Section 4.5A (6).

(2) Measurement of pollutants.

a. The IU shall provide the information required in Section 4.5 A (7) (a) through (d).

b. The IU shall take a minimum of one representative sample to compile that data necessary to comply with the requirements of this paragraph.

c. Samples should be taken immediately downstream from pretreatment facilities if such exist or immediately downstream from the regulated process if no pretreatment exists. If other wastewaters are mixed with the regulated wastewater prior to pretreatment the IU should measure the flows and concentrations necessary to allow use of the combined waste stream formula in 40 CFR 403.6(e) to evaluate compliance with the Pretreatment Standards. Where an alternate concentration or mass limit has been calculated in

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- accordance with 40 CFR 403.6(e) this adjusted limit along with supporting data shall be submitted to the Control Authority;
- d. Sampling and analysis shall be performed in accordance with Section 6.10;
 - e. The Corporation Operations Manager may allow the submission of a baseline report which utilizes only historical data so long as the data provides information sufficient to determine the need for industrial pretreatment measures;
 - f. The baseline report shall indicate the time, date and place of sampling and methods of analysis, and shall certify that such sampling and analysis is representative of normal work cycles and expected pollutant Discharges to the POTW.
- (3) Compliance Certification. A statement, reviewed by the IU's Authorized Representative as defined in Section 1.4 C and certified by a qualified professional, indicating whether Pretreatment Standards are being met on a consistent basis, and, if not, whether additional operation and maintenance (O&M) and/or additional pretreatment is required to meet the Pretreatment Standards and Requirements.
 - (4) Compliance Schedule. If additional pretreatment and/or O&M will be required to meet the Pretreatment Standards, the shortest schedule by which the IU will provide such additional pretreatment and/or O&M must be provided. The completion date in this schedule shall not be later than the compliance date established for the applicable Pretreatment Standard. A compliance schedule pursuant to this Section must meet the requirements set out in Section 6.2 of this SOP.
 - (5) Signature and Report Certification. All baseline monitoring reports must be certified in accordance with Section 6.14 A of this SOP and signed by an Authorized Representative as defined in Section 1.4C.

6.2 Compliance Schedule Progress Reports

The following conditions shall apply to the compliance schedule required by Section 6.1(B)(4) of this SOP:

- A. The schedule shall contain progress increments in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the IU to meet the applicable Pretreatment Standards (such events include, but are not limited to, hiring an engineer, completing preliminary and final plans, executing contracts for major components, commencing and completing construction, and beginning and conducting routine operation);
- B. No increment referred to above shall exceed nine (9) months;

- C. The IU shall submit a progress report to Corporation Operations Manager no later than fourteen (14) days following each date in the schedule and the final date of compliance including, as a minimum, whether or not it complied with the increment of progress, the reason for any delay, and, if appropriate, the steps being taken by the IU to return to the established schedule; and
- D. In no event shall more than nine (9) months elapse between such progress reports to Corporation Operations Manager.

6.3 Reports on Compliance with Categorical Pretreatment Standard Deadline

Within ninety (90) days following the date for final compliance with applicable categorical Pretreatment Standards, or in the case of a New Source following commencement of the introduction of wastewater into the POTW, any IU subject to such Pretreatment Standards and Requirements shall submit to Corporation Operations Manager a report containing the information described in Section 4.5A(6) and (7) and 6.1(B)(2) of this SOP. For IUs subject to equivalent mass or concentration limits established in accordance with the procedures in Section 2.2, this report shall contain a reasonable measure of the IU's long term production rate. For all other IUs subject to categorical Pretreatment Standards expressed in terms of allowable pollutant discharge per unit of production (or other measure of operation), this report shall include the IU's actual production during the appropriate sampling period. All compliance reports must be signed and certified in accordance with Section 6.14 A of this SOP. All sampling will be done in conformance with Section 6.11.

6.4 Periodic Compliance Reports

- A. Except as specified in Section 6.4.C, all IUs must, at a frequency determined by Corporation Operations Manager submit no less than once per year (January 15) report indicating the nature, concentration of pollutants in the discharge which are limited by Pretreatment Standards and the measured or estimated average and maximum daily flows for the reporting period. In cases where the Pretreatment Standard requires compliance with a Best Management Practice (BMP) or pollution prevention alternative, the IU must submit documentation required by Corporation Operations Manager or the Pretreatment Standard necessary to determine the compliance status of the IU.
- B. The Corporation may authorize an IU subject to a categorical Pretreatment Standard to forego sampling of a pollutant regulated by a categorical Pretreatment Standard if the IU has demonstrated through sampling and other technical factors that the pollutant is neither present nor expected to be present in the Discharge, or is present only at background levels from intake water and without any increase in the pollutant due to activities of the IU. [see 40 CFR 403.12(e)(2)] This authorization is subject to the following conditions:

- (1) The waiver may be authorized where a pollutant is determined to be

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present solely due to sanitary wastewater discharged from the facility provided that the sanitary wastewater is not regulated by an applicable categorical Standard and otherwise includes no process wastewater.

- (2) The monitoring waiver is valid only for the duration of the effective period of the individual wastewater discharge permit, but in no case longer than 5 years. The IU must submit a new request for the waiver before the waiver can be granted for each subsequent individual wastewater discharge permit. See Section 4.5A(8).
- (3) In making a demonstration that a pollutant is not present, the IU must provide data from at least one sampling of the facility's process wastewater prior to any treatment present at the facility that is representative of all wastewater from all processes.
- (4) The request for a monitoring waiver must be signed in accordance with Section 1.4C, and include the certification statement in 6.14 A (40 CFR 403.6(a)(2)(ii)).
- (5) Non-detectable sample results may be used only as a demonstration that a pollutant is not present if the EPA approved method from 40 CFR Part 136 with the lowest minimum detection level for that pollutant was used in the analysis.
- (6) Any grant of the monitoring waiver by the Corporation Operations Manager must be included as a condition in the IU's permit. The reasons supporting the waiver and any information submitted by the IU in its request for the waiver must be maintained by the Corporation Operations Manager for 3 years after expiration of the waiver.
- (7) Upon approval of the monitoring waiver and revision of the IU's permit by the Corporation Operations Manager, the IU must certify on each report with the statement in Section 6.14 C below, that there has been no increase in the pollutant in its waste stream due to activities of the IU.
- (8) In the event that a waived pollutant is found to be present or is expected to be present because of changes that occur in the IU's operations, the IU must immediately: Comply with the monitoring requirements of Section 6.4 A, or other more frequent monitoring requirements imposed by the Corporation Operations Manager, and notify the Corporation Operations Manager.
- (9) This provision does not supersede certification processes and

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requirements established in categorical Pretreatment Standards, except as otherwise specified in the categorical Pretreatment Standard.

- C. Reduced reporting is not available to IUs that have in the last two (2) years been in Significant Noncompliance, as defined in Section 9 of this SOP. In addition, reduced reporting is not available to an IU with daily flow rates, production levels, or pollutant levels that vary so significantly that, in the opinion of the Corporation Operations Manager, decreasing the reporting requirement for this IU would result in data that are not representative of conditions occurring during the reporting period.
- D. All periodic compliance reports must be signed and certified in accordance with Section 6.14 A of this SOP.
- E. All wastewater samples must be representative of the IU's discharge. Wastewater monitoring and flow measurement facilities shall be properly operated, kept clean, and maintained in good working order at all times. The failure of a IU to keep its monitoring facility in good working order shall not be grounds for the IU to claim that sample results are unrepresentative of its discharge.
- F. If a IU subject to the reporting requirement in this section monitors any regulated pollutant at the appropriate sampling location more frequently than required by Corporation Operations Manager, using the procedures prescribed in Section 6.11 of this SOP, the results of this monitoring shall be included in the report. [Note: See 40 CFR 403.12(g)(6)]

6.5 Reports of Changed Conditions

Each IU must notify Corporation Operations Manager of any significant changes to the IU's operations or system which might alter the nature, quality, or volume of its wastewater at least 90 days before the change.

- A. Corporation Operations Manager may require the IU to submit such information as may be deemed necessary to evaluate the changed condition, including the submission of a wastewater discharge permit application under Section 4.5 of this SOP.
- B. Corporation Operations Manager may issue an individual wastewater discharge permit under Section 5 of this SOP or modify an existing wastewater discharge permit under Section 5 of this SOP in response to changed conditions or anticipated changed conditions.

6.6 Reports of Potential Problems

- A. In the case of any discharge, including, but not limited to, accidental discharges,

discharges of a non-routine, episodic nature, a non-customary batch discharge, a Slug Discharge or Slug Load, that might cause potential problems for the POTW, the IU shall immediately telephone and notify Corporation Operations Manager of the incident. This notification shall include the location of the discharge, type of waste, concentration and volume, if known, and corrective actions taken by the IU.

- B. Within five (5) days following such discharge, the IU shall, unless waived by Corporation Operations Manager, submit a detailed written report describing the cause(s) of the discharge and the measures to be taken by the IU to prevent similar future occurrences. Such notification shall not relieve the IU of any expense, loss, damage, or other liability which might be incurred as a result of damage to the POTW, natural resources, or any other damage to person or property; nor shall such notification relieve the IU of any fines, penalties, or other liability which may be imposed pursuant to this SOP.
- C. A notice shall be permanently posted on the IU's bulletin board or other prominent place advising employees who to call in the event of a discharge described in paragraph A, above. Employers shall ensure that all employees, who could cause such a discharge to occur, are advised of the emergency notification procedure.
- D. Significant Industrial IUs are required to notify the Corporation Operations Manager immediately of any changes at its facility affecting the potential for a Slug Discharge.

6.7 Reports from Unpermitted IUs

All IUs not required to obtain an individual wastewater discharge permit shall provide appropriate reports to Corporation Operations Manager as Corporation Operations Manager may require.

6.8 Notice of Violation/Repeat Sampling and Reporting

If sampling performed by a IU indicates a violation, the IU must notify Corporation Operations Manager within twenty four (24) hours of becoming aware of the violation. The IU shall also repeat the sampling and analysis and submit the results of the repeat analysis to Corporation Operations Manager within thirty (30) days after becoming aware of the violation. Resampling by the IU is not required if Corporation performs sampling at the IU's facility at least once a month, or if Corporation performs sampling at the IU between the time when the initial sampling was conducted and the time when the IU or Corporation receives the results of this sampling, or if Corporation has performed the sampling and analysis in lieu of the IU.

6.9 Notification of the Discharge of Hazardous Waste

- A. Any IU who commences the discharge of hazardous waste shall notify the POTW, the EPA Regional Waste Management Division Director, and State hazardous waste authorities, in writing, of any discharge into the POTW of a substance which, if

otherwise disposed of, would be a hazardous waste under 40 CFR Part 261. Such notification must include the name of the hazardous waste as set forth in 40 CFR Part 261, the EPA hazardous waste number, and the type of discharge (continuous, batch, or other). If the IU discharges more than one hundred (100) kilograms of such waste per calendar month to the POTW, the notification also shall contain the following information to the extent such information is known and readily available to the IU: an identification of the hazardous constituents contained in the wastes, an estimation of the mass and concentration of such constituents in the waste stream discharged during that calendar month, and an estimation of the mass of constituents in the waste stream expected to be discharged during the following twelve (12) months. All notifications must take place no later than one hundred and eighty (180) days after the discharge commences. Any notification under this paragraph need be submitted only once for each hazardous waste discharged. However, notifications of changed conditions must be submitted under Section 6.5 of this SOP. The notification requirement in this Section does not apply to pollutants already reported by IUs subject to categorical Pretreatment Standards under the self-monitoring requirements of Sections 6.1, 6.3, and 6.4 of this SOP.

- B. Dischargers are exempt from the requirements of paragraph A, above, during a calendar month in which they discharge no more than fifteen (15) kilograms of hazardous wastes, unless the wastes are acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e). Discharge of more than fifteen (15) kilograms of non-acute hazardous wastes in a calendar month, or of any quantity of acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e), requires a one-time notification. Subsequent months during which the IU discharges more than such quantities of any hazardous waste do not require additional notification.
- C. In the case of any new regulations under section 3001 of RCRA identifying additional characteristics of hazardous waste or listing any additional substance as a hazardous waste, the IU must notify Corporation Operations Manager, the EPA Regional Waste Management Waste Division Director, and State hazardous waste authorities of the discharge of such substance within ninety (90) days of the effective date of such regulations.
- D. In the case of any notification made under this Section, the IU shall certify that it has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree it has determined to be economically practical.
- E. This provision does not create a right to discharge any substance not otherwise permitted to be discharged by this SOP, a permit issued thereunder, or any applicable Federal or State law.

6.10 Analytical Requirements

All pollutant analyses, including sampling techniques, to be submitted as part of a wastewater discharge permit application or report shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto, unless otherwise specified in an applicable categorical Pretreatment Standard. If 40 CFR Part 136 does not contain sampling or analytical techniques for the pollutant in question, or where the EPA determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analyses shall be performed by using validated analytical methods or any other applicable sampling and analytical procedures, including procedures suggested by the Corporation Operations Manager or other parties approved by EPA.

6.11 Sample Collection

Samples collected to satisfy reporting requirements must be based on data obtained through appropriate sampling and analysis performed during the period covered by the report, based on data that is representative of conditions occurring during the reporting period.

- A. Except as indicated in Section B and C below, the IU must collect wastewater samples using 24 hour flow proportional composite sampling techniques, unless time proportional composite sampling or grab sampling is authorized by Corporation Operations Manager. Where time proportional composite sampling or grab sampling is authorized by Corporation, the samples must be representative of the discharge. Using protocols (including appropriate preservation) specified in 40 CFR Part 136 and appropriate EPA guidance, multiple grab samples collected during a 24 hour period may be composited prior to the analysis as follows: for cyanide, total phenols, and sulfides the samples may be composited in the laboratory or in the field; for volatile organics and oil and grease, the samples may be composited in the laboratory. Composite samples for other parameters unaffected by the compositing procedures as documented in approved EPA methodologies may be authorized by Corporation, as appropriate. In addition, grab samples may be required to show compliance with Local Limits.
- B. Samples for oil and grease, temperature, pH, cyanide, total phenols, sulfides, and volatile organic compounds must be obtained using grab collection techniques.
- C. For sampling required in support of baseline monitoring and 90 day compliance reports required in Section 6.1 and 6.3 [40 CFR 403.12(b) and (d)], a minimum of four (4) grab samples must be used for pH, cyanide, total phenols, oil and grease, sulfide and volatile organic compounds for facilities for which historical sampling data do not exist; for facilities for which historical sampling data are available, Corporation Operations Manager may authorize a lower minimum. For the reports required by paragraphs Section 6.4 (40 CFR 403.12(e) and 403.12(h)), the IU is required to collect the number of grab samples necessary to assess and assure compliance by with applicable Pretreatment Standards and Requirements.

6.12 Date of Receipt of Reports

Written reports will be deemed to have been submitted on the date postmarked or if hand delivered, date received by Corporation.

6.13 Recordkeeping

IUs subject to the reporting requirements of this SOP shall retain, and make available for inspection and copying, all records of information obtained pursuant to any monitoring activities required by this SOP, any additional records of information obtained pursuant to monitoring activities undertaken by the IU independent of such requirements, and documentation associated with Best Management Practices. Records shall include the date, exact place, method, and time of sampling, and the name of the person(s) taking the samples; the dates analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses. These records shall remain available for a period of at least three (3) years. This period shall be automatically extended for the duration of any litigation concerning the IU or Corporation, or where the IU has been specifically notified of a longer retention period by Corporation Operations Manager.

6.14 Certification Statements

- A. Certification of Permit Applications, IU Reports and Initial Monitoring Waiver: The following certification statement is required to be signed and submitted by IUs submitting permit applications in accordance with Section 4.7; IUs submitting baseline monitoring reports under Section 6.1 B (5); IUs submitting reports on compliance with the categorical Pretreatment Standard deadlines under Section 6.3; IUs submitting periodic compliance reports required by Section 6.4 A-D, and IUs submitting an initial request to forego sampling of a pollutant on the basis of Section 6.4B(4). The following certification statement must be signed by an Authorized Representative as defined in Section 1.4 C:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

- B. Annual Certification for Non-Significant Categorical Industrial IUs-A facility determined to be a Non-Significant Categorical IU by Corporation Operations Manager pursuant to 1.4 JJ and 4.7 [Note: See 40 CFR 403.3(v)(2)] must annually submit the following certification statement signed in accordance with the signatory requirements in 1.4 [Note:

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See 40 CFR 403.120(1)]. This certification must accompany an alternative report required by Corporation Operations Manager:

Based on my inquiry of the person or persons directly responsible for managing compliance with the categorical Pretreatment Standards under 40 CFR , I certify that, to the best of my knowledge and belief that during the period from _____, _____ to _____, _____ [months, days, year]:

- (a) The facility described as _____ [facility name] met the definition of a Non-Significant Categorical IU as described in 1.4 GG; [Note: See 40 CFR 403.3(v)(2)]
- (b) The facility complied with all applicable Pretreatment Standards and requirements during this reporting period; and © the facility never discharged more than 100 gallons of total categorical wastewater on any given day during this reporting period.

This compliance certification is based on the following information.

SECTION 7 - COMPLIANCE MONITORING

7.1 Right of Entry: Inspection and Sampling

Corporation Operations Manager shall have the right to enter the premises of any IU to determine whether the IU is complying with all requirements of this SOP and any individual wastewater discharge permit or order issued hereunder. IUs shall allow Corporation Operations Manager ready access to all parts of the premises for the purposes of inspection, sampling, records examination and copying, and the performance of any additional duties.

- A. Where a IU has security measures in force which require proper identification and clearance before entry into its premises, the IU shall make necessary arrangements with its security guards so that, upon presentation of suitable identification, Corporation Operations Manager shall be permitted to enter without delay for the purposes of performing specific responsibilities.
- B. Corporation Operations Manager shall have the right to set up on the IU's property, or require installation of, such devices as are necessary to conduct sampling and/or metering of the IU's operations.
- C. Corporation Operations Manager may require the IU to install monitoring equipment as necessary. The facility's sampling and monitoring equipment shall be maintained at all times in a safe and proper operating condition by the IU at its own expense. All devices used to

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measure wastewater flow and quality shall be calibrated [insert desired frequency] to ensure their accuracy.

- D. Any temporary or permanent obstruction to safe and easy access to the facility to be inspected and/or sampled shall be promptly removed by the IU at the written or verbal request of Corporation Operations Manager and shall not be replaced. The costs of clearing such access shall be borne by the IU.
- E. Unreasonable delays in allowing Corporation Operations Manager access to the IU's premises shall be a violation of this SOP.

7.2 Search Warrants

If Corporation Operations Manager has been refused access to a building, structure, or property, or any part thereof, and is able to demonstrate probable cause to believe that there may be a violation of this SOP, or that there is a need to inspect and/or sample as part of a routine inspection and sampling program of Corporation designed to verify compliance with this SOP or any permit or order issued hereunder, or to protect the overall public health, safety and welfare of the community, Corporation Operations Manager may seek issuance of a search warrant from the Maricopa County Court or other authorities as applicable.

SECTION 8 - CONFIDENTIAL INFORMATION

Information and data on a IU obtained from reports, surveys, wastewater discharge permit applications, individual wastewater discharge permits, and monitoring programs, and from the Corporation inspection and sampling activities, shall be available to the public without restriction, unless the IU specifically requests, and is able to demonstrate to the satisfaction of Corporation Operations Manager, that the release of such information would divulge information, processes, or methods of production entitled to protection as trade secrets under applicable State law. Any such request must be asserted at the time of submission of the information or data. When requested and demonstrated by the IU furnishing a report that such information should be held confidential, the portions of a report which might disclose trade secrets or secret processes shall not be made available for inspection by the public, but shall be made available immediately upon request to governmental agencies for uses related to the NPDES program or pretreatment program, and in enforcement proceedings involving the person furnishing the report. Wastewater constituents and characteristics and other effluent data, as defined at 40 CFR 2.302 shall not be recognized as confidential information and shall be available to the public without restriction.

SECTION 9 - PUBLICATION OF IUS IN SIGNIFICANT NONCOMPLIANCE

Corporation Operations Manager shall publish annually, in a newspaper of general circulation that provides meaningful public notice within the jurisdictions served by Corporation, a list of the IUs which, at any time during the previous twelve (12) months, were in Significant Noncompliance with applicable Pretreatment Standards and Requirements. The term Significant Noncompliance shall

be applicable to all Significant IUs (or any other IU that violates paragraphs ©, (D) or (H) of this Section) and shall mean:

- A. Chronic violations of wastewater discharge limits, defined here as those in which sixty six percent (66%) or more of all the measurements taken for the same pollutant parameter taken during a six (6) month period exceed (by any magnitude) a numeric Pretreatment Standard or Requirement, including Instantaneous Limits as defined in Section 2;
- B. Technical Review Criteria (TRC) violations, defined here as those in which thirty three percent (33%) or more of wastewater measurements taken for each pollutant parameter during a six (6) month period equals or exceeds the product of the numeric Pretreatment Standard or Requirement including Instantaneous Limits, as defined by Section 2 multiplied by the applicable criteria (1.4 for BOD, TSS, fats, oils and grease, and 1.2 for all other pollutants except pH);
- C. Any other violation of a Pretreatment Standard or Requirement as defined by Section 2 (Daily Maximum, long term average, Instantaneous Limit, or narrative standard) that Corporation Operations Manager determines has caused, alone or in combination with other discharges, Interference or Pass Through, including endangering the health of POTW personnel or the general public;
- D. Any discharge of a pollutant that has caused imminent endangerment to the public or to the environment, or has resulted in Corporation Operations Manager's exercise of its emergency authority to halt or prevent such a discharge;
- E. Failure to meet, within ninety (90) days of the scheduled date, a compliance schedule milestone contained in an individual wastewater discharge permit or enforcement order for starting construction, completing construction, or attaining final compliance;
- F. Failure to provide within forty five (45) days after the due date, any required reports, including baseline monitoring reports, reports on compliance with categorical Pretreatment Standard deadlines, periodic self-monitoring reports, and reports on compliance with compliance schedules;
- G. Failure to accurately report noncompliance; or
- H. Any other violation(s), which may include a violation of Best Management Practices, which Corporation Operations Manager determines will adversely affect the operation or implementation of the local pretreatment program.

SECTION 10 - AFFIRMATIVE DEFENSES TO DISCHARGE VIOLATIONS**10.1 Prohibited Discharge Standards**

A IU shall have an affirmative defense to an enforcement action brought against it for noncompliance with the general prohibitions in Section 2.1(A) of this SOP or the specific prohibitions applicable of this SOP if it can prove that it did not know, or have reason to know, that its discharge, alone or in conjunction with discharges from other sources, would cause Pass Through or Interference and that either:

- A. A Local Limit exists for each pollutant discharged and the IU was in compliance with each limit directly prior to, and during, the Pass Through or Interference; or
- B. No Local Limit exists, but the discharge did not change substantially in nature or constituents from the IU's prior discharge when Corporation was regularly in compliance with its AZPDES permit, and in the case of Interference, was in compliance with applicable sludge use or disposal requirements.

10.2 Bypass

- A. For the purposes of this Section,
 - (1) Bypass means the intentional diversion of waste streams from any portion of an IU's treatment facility.
 - (2) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- B. A IU may allow any bypass to occur which does not cause Pretreatment Standards or Requirements to be violated, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of paragraphs © and (D) of this Section.
- C. Bypass Notifications
 - (1) If a IU knows in advance of the need for a bypass, it shall submit prior notice to Corporation Operations Manager, at least ten (10) days before the date of the bypass, if possible.
 - (2) A IU shall submit oral notice to Corporation Operations Manager of an unanticipated bypass that exceeds applicable Pretreatment Standards within twenty four (24) hours from the time it becomes aware of the bypass. A written submission shall also be provided within five (5) days of the time the IU becomes aware of the bypass. The written submission shall contain a description of the bypass and its

cause; the duration of the bypass, including exact dates and times, and, if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass. Corporation Operations Manager may waive the written report on a case by case basis if the oral report has been received within twenty four (24) hours.

D. Bypass

- (1) Bypass is prohibited, and Corporation Operations Manager may take an enforcement action against a IU for a bypass, unless
 - (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (c) The IU submitted notices as required under paragraph (c) of this section.
- (2) Corporation Operations Manager may approve an anticipated bypass, after considering its adverse effects, if Corporation Operations Manager determines that it will meet the three conditions listed in paragraph (D)(1) of this Section.

Liberty Utilities (Litchfield Park Water & Sewer) Corp.

PRETREATMENT STANDARDS TARIFF

EXECUTIVE SUMMARY

Liberty Utilities (Litchfield Park Water & Sewer) Corp. ("Corporation") hereby declares that the following Code of Practice has been prepared and adopted to provide for pretreatment standards in the maintenance and operation of wastewater treatment at the Palm Valley Water Reclamation Facility ("WRF"). This Code of Practice shall be filed with the Arizona Corporation Commission and made part of Corporation's Wastewater Service Tariff, Part Four, Section I.B [Waste Limitations].

Corporation hereby expressly reserves the right to make any lawful addition and/or revisions in this Code of Practice when and as they may become advisable to properly manage the WRF and to promote the peace, health, safety and welfare of the customers that will be served. This Code of Practice is supplementary to, and are not to be construed as, any abridgement of any lawful rights of the Company as outlined in the Arizona Revised Statutes governing Public Utilities (Title 40) and the Arizona Administrative Corporation Commission Rules on Sewer (Title 14, Article 6), including the right to disconnect or to refuse permission to connect a customer to the Company's wastewater system for violation of this Code of Practice or any other applicable law of the State of Arizona.

This Code of Practice incorporates pretreatment standards per 40 CFR 403, A.A.C. Title 12, Article 4, and A.A.C. Title 18, Chapter 9, Article 3. This Code of Practice is enforceable per the authority granted to wastewater utilities established under A.A.C. Title 14, Chapter 2, Article 6 of the Arizona Administrative Code.

Approved: _____

Responsible Agent: Operations

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Liberty Utilities (Litchfield Park Water & Sewer) Corp.

CODE OF PRACTICE (LPSCO-CP-01-DEF)

SECTION 1 – DEFINITIONS

A. PROHIBITED WASTE

Prohibited waste means:

1. Air Contaminant Waste

Any waste other than sanitary waste which, by itself or in combination with another substance, is capable of creating, causing or introducing an air contaminant outside any sewer or sewage facility or is capable of creating, causing or introducing an air contaminant within any sewer or sewage facility which would prevent safe entry by authorized personnel.

2. Flammable or Explosive Waste

Any pollutants which create a fire or explosion hazard to the sewer or any waste other than sanitary waste which, which by itself or in combination with another substance, is capable of causing or contributing to an explosion or supporting combustion in any sewer or sewage facility including, but not limited to gasoline, naphtha, propane, diesel, fuel oil, kerosene or alcohol.

3. Obstructive Waste

Any waste other than sanitary waste which, by itself or in combination with another substance, is capable of obstructing the flow of, or interfering with, the operation or performance of any sewer or sewage facility including, but not limited to: earth, sand, sweepings, gardening or agricultural waste, ash, chemicals, paint, metal, glass, sharps, rags, cloth, tar, asphalt, cement-based products, plastic, wood, waste portions of animals, fish or fowl and solidified fat.

4. Corrosive Waste

Any waste other than sanitary waste which, with corrosive properties which, by itself or in combination with any other substance, may cause damage to any sewer or sewage facility or which may prevent safe entry by authorized personnel.

5. High Temperature Waste

Any waste other than sanitary waste which, by itself or in combination with another substance, will create heat in amounts which will interfere with the operation and maintenance of a sewer or sewage facility or with the treatment of waste in a sewage facility;

Any waste other than sanitary waste which, will raise the temperature of waste entering any sewage facility to 38 degrees Celsius (100 degrees Fahrenheit) or more; or any non-domestic waste with a temperature of 65 degrees Celsius (150 degrees Fahrenheit) or more.

6. Biomedical Waste

Any of the following categories of biomedical waste: human anatomical waste, animal waste, untreated microbiological waste, waste sharps, medical products, and untreated human blood and body fluids known to contain viruses and agents.

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7. Miscellaneous Wastes

Any storm water, surface water, groundwater, roof runoff, or surface drainage is prohibited.

8. Dilution Wastes

Any discharge that has been in any way, been diluted as a substitute for pretreatment, for the purposes of obtaining compliance with any categorical standard or pretreatment requirement or any other requirement imposed by this article except where dilution is expressly authorized by an categorical standard.

9. Other Discharge Limitations.

Any discharge that is transported from the point of generation to the sewer by any hauler, unless the hauler has first:

- a. Obtained authorization to discharge from the Company.
- b. Disclosed the nature, origin, and volume of the discharge.

Any waste, other than sanitary waste, which by itself or in combination with another substance:

- a. constitutes or may constitute a significant health or safety hazard to any person;
- b. Any waste other than sanitary waste which may interfere with any sewer or sewage treatment process;
- c. may cause a discharge from a sewage facility to contravene any requirements by or under any ADEQ or AZPDES discharge permit or any other act, approved Waste Minimization Plan (WMP), or any other law or regulation governing the quality of the discharge, or may cause the discharge to result in a hazard to people, animals, property or vegetation;
- d. may cause bio-solid to fail criteria for beneficial land application.

B. RESTRICTED WASTE (LPSCO-CP-01-001)

Restricted waste means:

1. Specified Waste

Any waste other than sanitary waste which, at the point of discharge into a sewer, contains any contaminant at a concentration in excess of the limits set out below. All concentrations are expressed as total concentrations which includes all forms of the contaminant, whether dissolved or un-dissolved. The concentration limits apply to both grab and composite samples. Contaminant definitions and methods of analysis are outlined in standard methods.

CONVENTIONAL CONTAMINANTS [mg/L]	
Biochemical Oxygen Demand (BOD)	350
Chemical Oxygen Demand (COD)	1000
Ammonia	75
Total Nitrogen- as NO3	100
Oil and Grease	100
Suspended Solids	350

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ORGANIC CONTAMINANTS (mg/L)	
Benzene	Reserved
Ethyl Benzene	Reserved
Toluene	Reserved
Xylenes	Reserved
Reserved	Reserved
Chloroform	Reserved
Total Oil and Grease (hydrocarbons)	100.0
TRACE METALS	
PARAMETER	DAILY AVERAGE (mg/L)
Arsenic	0.112
Beryllium	0.008
Cadmium (Cd)	0.012
Chloride (Cl)	Reserved
Chromium (Cr)	0.238
Cobalt (Co)	Reserved
Copper (Cu)	Reserved
Cyanide (CN)	Reserved
Fluoride	9.43
Iron (Fe)	Reserved
Lead (Pb)	0.13
Manganese (Mn)	Reserved
Mercury (Hg)	0.0050
Nitrate	100
Molybdenum (Mo)	Reserved
Nickel (Ni)	0.242
Selenium (Se)	0.142
Silver (Ag)	Reserved
Sulfate (SO ₄)	Reserved
Sulfide (S)	N/A
Thallium	0.005
Zinc (Zn)	Reserved

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2. Food Waste

Any solid or viscous pollutants, animal fats, oil, and grease (FOG) in amounts that may cause obstruction to the flow in sewers or pass through or other interference or damage to the sewer collection system. Any pollutant, including oxygen demanding pollutants (BOD, COD, TOC, etc.) released in a discharge flow at a rate and/or pollutant concentration which may cause interference with the sewer collection system or wastewater treatment process. This also includes petroleum oil, non-biodegradable cutting oil, or other products of mineral oil origin in amounts that may cause interference or pass through at the wastewater treatment facility.

3. Radioactive Waste

Any discharge containing a toxic, radioactive, poisonous or other substances in which sufficient quantity to cause or have the potential to cause injury or damage to a person or property or interference with any sewage treatment process, cause corrosive structural damage, constitute a hazard to humans or create any hazard to the sewer system or the effluent of the sewer system. All such wastes shall be subject to compliance with Nuclear Regulatory Commission standards for sewer disposal including the Unity Equation. Radioactive waste industrial users shall be treated in accordance with applicable federal and state regulations and guidelines, including section 40 of the Code of Federal Regulations.

4. pH Waste

Any discharge with a pH less than 5.5 standard units (SU) or greater than 9.5 SU as determined by either a grab or a composite sample.

5. Dyes and Coloring Material

Dyes or coloring materials which may pass through a sewage facility and discolor the effluent from a sewage facility except where the dye is used by the Sewer Company, or one or more of its agents, as a tracer.

6. Miscellaneous Restricted Wastes

Any of the following wastes:

- a. 4,4' - DDE
- b. 4,4' - DDT
- c. Aldrin
- d. BHC—Alpha
- e. BHC—Beta
- f. BHC—Gamma (Lindane)
- g. Heptachlor.
- h. Heptachlor epoxide.
- i. Polychlorinated biphenyl compounds (PCB's)
- j. chlorinated phenols¹
- k. pesticides
- l. herbicides
- m. tetrachloroethylene
- n. polynuclear aromatic hydrocarbons (PAH's)²

¹ include: chlorophenol (ortho, meta, para); dichlorophenol (2,3, 2,4-, 2,5-, 2,6-, 3,4-, 3,5-); trichlorophenol (2,3,4-, 2,3,5-, 2,3,6-, 2,4,5-, 2,4,6-, 3,4,5-); tetrachlorophenol (2,3,4,5-, 2,3,4,6-, 2,3,5,6-); pentachlorophenol

² includes: naphthalene benzo(a) anthracene; acenaphthylene chrysene; acenaphthene benzo(k)fluoranthene; fluorene benzo(k)fluoranthene; phenanthrene benzo(a)pyrene; anthracene dibenzo(a,h)anthracene; fluoranthene indeno(1,2,3-cd)pyrene; pyrene benzo(g,h,i)perylene

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7. Temperature

Any waste other than sanitary waste which, will raise the temperature of waste entering any sewage facility to 38 degrees Celsius (100 degrees Fahrenheit) or more; or any non-domestic waste with a temperature of 65 degrees Celsius (150 degrees Fahrenheit) or more.

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Liberty Utilities (Litchfield Park Water & Sewer) Corp.

CODE OF PRACTICE (LPSCO-CP-01-002)

SECTION 2 - DENTAL OPERATIONS

I. APPLICATION

This code of practice for dental operations defines mandatory requirements for managing non-domestic waste discharged directly or indirectly into a sewer connected to a sewage facility.

This code of practice applies to dental operations.

II. DISCHARGE REGULATIONS

An operator of a dental operation must not discharge waste which, at the point of discharge into a sewer, contains:

- a. prohibited waste, special waste, or storm water ; or
- b. restricted waste with the exception of mercury measured at the point of discharge from a certified amalgam separator.

An operator of a dental operation that produces liquid waste from photographic imaging containing silver shall comply with the requirements of LPSCO-CP-01-001.

An operator of a dental operation that produces wastewater containing dental amalgam must either:

- a. collect and transport the wastewater from the dental operation for off-site waste management; or
- b. treat the wastewater at the dental operation site prior to discharge to the sewer using a certified amalgam separator.

An operator of a dental operation must install and maintain the amalgam separator according to the manufacturer's or supplier's recommendations in order that the amalgam separator functions correctly. Such separator must be certified for use by the manufacturer.

An operator of a dental operation who installs an amalgam separator must ensure that:

- a. all dental operation wastewater that contains dental amalgam is treated using the amalgam separator;
- b. a monitoring point is installed at the outlet of the amalgam separator or downstream of the amalgam separator at a location upstream of any discharge of other waste;
- c. the monitoring point must be installed in such a manner that the total flow from the amalgam separator may be intercepted and sampled; and
- d. the monitoring point shall be readily and easily accessible at all times for inspection.

If the amalgam separator is located downstream of a wet vacuum system, an operator of a dental operation must ensure that:

- a. the wet vacuum system is fitted with an internal flow control fitting; or
- b. a flow control fitting is installed on the water supply line to the wet vacuum system.

The flow control fitting must be sized to limit the flow to a rate that is no more than the maximum inlet flow rate of the amalgam separator as stated by the manufacturer of the amalgam separator.

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An operator of a dental operation must locate an amalgam separator in such a manner that an accidental spill, leak or collecting container failure will not result in waste containing amalgam entering any sewer. If a location is not available, an operator of a dental operation must do one of the following:

- (a) install spill containment to contain spills or leaks from the amalgam separator; or
- (b) cap all floor drains into which liquid spilled from the amalgam separator would normally flow.

An operator of a dental operation must replace the amalgam separator's collecting container when any one of the following occurs:

- (a) the manufacturer's or supplier's recommended expiry date, as shown on the amalgam separator, has been reached; or
- (b) the warning level specified by the manufacturer has been reached; or
- (c) analytical data obtained using a method of analysis outlined in standard methods, or an alternative method of analysis approved by the manager, having a method detection limit of 0.000005 mg/L or lower, indicates that the total concentration of mercury in the discharge from the amalgam separator is greater than, or equal to 0.005 mg/L.

An operator of a dental operation shall not dispose of dental amalgam collected in an amalgam separator, a collecting container, or any other device, to a sewer.

III. RECORD KEEPING AND RETENTION

An operator of a dental operation that uses an amalgam separator must keep, at the site of installation of the amalgam separator, an operation and maintenance manual containing instructions for installation, use, maintenance and service of the amalgam separator installed.

An operator of a dental operation that uses an amalgam separator must post, at the site of installation of the amalgam separator, a copy of the manufacturer's standard test report pertaining to the amalgam separator installed.

An operator of a dental operation that uses an amalgam separator must keep a record book at the dental operation site that includes the following information pertaining to the amalgam separator installed:

- a. date of installation of the amalgam separator and name of the installation service provider;
- b. serial number and expiry date of the amalgam separator and/or its components;
- c. maximum recommended flow rate through the amalgam separator, where applicable;
- d. dates of inspection, maintenance, cleaning and replacement of any amalgam separation equipment or components;
- e. dates and descriptions of all operational problems, spills, leaks or collecting container failures associated with the amalgam separator and remedial actions taken;
- f. name, address and telephone number of any person or company who performs any maintenance or disposal services related to the operation of the amalgam separator; and
- g. dates of pick-up of the collecting container for off-site disposal, volume of waste disposed and the location of disposal.

The records must be retained for a period of two years and must be available on request by an company representative.

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Liberty Utilities (Litchfield Park Water & Sewer) Corp.

CODE OF PRACTICE (LPSCO-CP-01-003)

SECTION 3 - DRY CLEANING OPERATIONS

I. APPLICATION

This code of practice for Dry Cleaning operations defines the requirements for managing waste discharged directly or indirectly into a sewer connected to a sewage facility from dry cleaning businesses, or other facilities employing solvent or chemical cleaning routines.

Definitions are included in LPSCO-CP-01-DEF.

II. DISCHARGE REGULATIONS

An operator of a dry cleaning operation must not discharge waste, which at the point of discharge into a sewer contains:

- (a) Tetrachloroethylene and Perchloroethylene is prohibited;
- (b) Petroleum solvent in a concentration that is in excess of 15 milligrams per liter as analyzed in a grab sample; and
- (c) Prohibited waste, restricted waste, special waste, storm water, or contaminated water.

An operator of a dry cleaning operation that generates wastewater containing petroleum solvent shall either:

- (a) Collect and transport the wastewater from the dry cleaning operation for off site waste management; or
- (b) Install and maintain a solvent/water separator and holding tank in accordance with this code of practice.

Solvent Water Separators and Holding Tanks

Solvent/water separator and holding tank installations must conform to the requirements of this code of practice.

An operator of a dry cleaning operation shall not directly discharge wastewater from the solvent/water separator to a sewage facility

An operator of a dry cleaning operation must:

- (a) Collect the wastewater discharged from a solvent/water separator into a transparent, solvent-compatible, holding tank with a containment capacity 25% larger than the total volume of the solvent/water separator; and
- (b) Allow the wastewater to stand undisturbed for a period of not less than 12 hours following each operating date.

An operator of a dry cleaning operation must check the contents of the holding tank after the specified period of time has elapsed to determine whether the wastewater contains any visible residual solvent. If there is no visible residual solvent in the holding tank, the contents may be discharged to the sewer.

If the holding tank contains any visible tetrachloroethylene or petroleum solvent after the specified period of time, then the tetrachloroethylene or petroleum solvent must be separated and returned to the solvent recovery system. After the removal of all visible solvent, the wastewater may be discharged to the sanitary sewer.

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Visual Inspections

An operator of a dry cleaning operation must:

- (a) Visually inspect the solvent/water separator on a daily basis and
- (b) Clean the solvent/water separator at least once every seven (7) days to manufacturer's standards.

Spills and Leaks

An operator of a dry cleaning operation must install spill containment facilities in all chemical storage areas and around all dry cleaning machines.

An operator of a dry cleaning operation must block off all sewer drains within the containment area for chemical storage and dry cleaning equipment to prevent any accidental discharge of solvent to a sewer.

An operator of a dry cleaning operation must inspect all dry cleaning equipment for liquid leaks at least once per day.

An operator of a dry cleaning operation must keep all equipment clean to ensure that leaks are visible. The following areas and items are to be checked for leaks:

- (i) hose connections, unions, couplings and valves
- (ii) machine door gasket and seating
- (iii) filter head gasket and seating
- (iv) pumps
- (v) base tanks and storage
- (vi) solvent/water separators
- (vii) filter sludge recovery
- (viii) distillation unit
- (ix) diverter valves
- (x) saturated lint in lint baskets
- (xi) holding tanks
- (xii) cartridge filters

An operator of a dry cleaning operation who detects any liquid leak from dry cleaning equipment or chemical storage must repair the leak within 72 hours and must immediately prevent any discharge of contaminants to a sewer.

III. RECORD KEEPING AND RETENTION

Every dry cleaning operation must keep a record book on site for inspection with records from the previous two years.

The following information shall be recorded in the record book:

- (i) record of all inspections done by the operator, employees or other hired personnel;
- (ii) record of any liquid leaks detected and remedial action taken;
- (iii) record of solvent/water separator cleaning;
- (iv) record of holding tank cleaning and solvent transfer; and
- (v) record of all other equipment maintenance and repair.

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Liberty Utilities (Litchfield Park Water & Sewer) Corp.

CODE OF PRACTICE (LPSCO-CP-01-004)

SECTION 4 - FOOD SERVICE OPERATIONS

I. APPLICATION

This code of practice for Food Service operations defines the requirements for managing waste discharged directly or indirectly into a sewer connected to a sewage facility from restaurants, or other facilities employing food service (such as food preparation services) as a primary or secondary business operation. Traps, interceptors and separators shall be provided to prevent the discharge of oil, grease, sand and other substances harmful or hazardous to the building drainage system, the collection system the private sewage disposal system or the sewage treatment plant or processes.

Traps, interceptors and separators shall be installed:

- (a) operators of a food services operation that adds kitchen equipment that discharges oil and grease;
- (b) operators of a food services operation that discharges non-domestic waste to sewer that exceeds any of the restricted waste criteria specified in LPSCO-CP-01-DEF; or
- (c) any food service operation, as determined by Corporation's wastewater operations group.
- (d) at new facilities
- (e) at existing food service facilities, not equipped with a trap, interceptor or separator, when additions, alterations or remodel are done which increase servicing volume, seating capacity, , etc.
- (f) at existing food service facilities, equipped with a trap, interceptor or separator, when additions, alterations or remodel are done which increase servicing volume, seating capacity, changes to the menu, etc.
- (g) at any non-food facilities when additions, alterations, or remodeling is proposed for the purpose of food preparation and service.
- (h) at existing facilities not equipped with a trap, interceptor or separator, which is proposed for the purpose of food preparation and service.

Definitions are included in LPSCO-CP-01-DEF.

II. DISCHARGE REGULATIONS

An operator of a Food Service Operation must not discharge waste, which at the point of discharge into a sewer, contains:

1. oil and grease in a concentration that is in excess of 100 milligrams per liter as analyzed in a grab sample;
2. suspended solids in a concentration that is in excess of 350 milligrams per liter as analyzed in a grab sample;
3. 5-day biochemical oxygen demand (BOD₅) in a concentration that is in excess of 350 milligrams per liter in a grab sample;
4. prohibited waste, restricted waste, special waste, storm water, or contaminated water.

III. GREASE INTERCEPTORS

Grease interceptors are required to be installed and maintained by the Owner of food service operations within the collection system of Corporation facilities. Grease interceptor installations shall conform to the requirements of this code of practice.

Interceptors, such as grease, oil, or sand shall be provided by laundries, restaurants, service stations, auto repair shops, carwashes and other industrial users when, in the opinion of Corporation, interceptors are necessary for the proper handling of wastewater containing oil and grease or sand or any flammable wastes. Such interceptors shall not be required for domestic users.

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Construction:

All traps, interceptors and separators shall be constructed of impervious materials capable of withstanding abrupt and extreme changes in temperature. New or upgraded grease device shall have a three-lid manhole, properly sized per Table 1. Traps, interceptors and separators shall be watertight, and equipped with easily removable covers. Covers shall be gastight and watertight.

Cleaning and Maintenance:

Cleaning and maintenance must be performed when total volume of captured oil, grease and solids material displaces more than twenty-five (25) percent of the total volume of the trap, interceptor or separator or when the pH of a sample taken from the effluent side of the interceptor drops below 5.0 or when odor generation becomes a health issue or when the Company inspection determines a cleaning is necessary.

Maintenance Records:

All traps, interceptors and separators shall be maintained by the user in efficient operating condition at all times. Written records and documentation of all cleaning, repair, calibration, and maintenance shall be maintained at the facility for a minimum of three (3) years and be made available upon request.

Maintenance Inspection:

All traps, interceptors and separators shall be inspected by Corporation representative during normal working hours. Inspection results shall be made available to person, firm or corporation in reasonable charge of the traps, interceptors and separators. Corporation representative shall require correction in order to enforce Corporation pretreatment code of practices.

Skimming:

Skimming, decanting or discharging of removed waste or wastewater back into any traps, interceptors and separators or any appurtenance of the wastewater collection system is strictly prohibited.

Pumping:

All oil, sand and grease interceptors shall be pumped out or cleaned out completely not less than once every ninety (90) calendar days. Grease traps must be cleaned out completely not less than once every thirty (30) calendar days. Traps and interceptors shall be cleaned more frequently when necessary or required.

Bacteria as a Substitute:

The use of bacteria additives as a supplement to maintenance may be authorized by Corporation when a written request is made to the Corporation which includes material safety data sheets. The addition of emulsifiers, de-emulsifiers, surface active agents, enzymes, or degreasers directly or into any drain leading to any grease removal device is strictly prohibited unless approved by the Corporation.

Use:

Traps, interceptors and separators shall be single user only. When an interceptor can be safely used by multiple users (e.g., food courts), multiple users may be allowed when approved by Corporation. Multiple facilities operated by the same person, firm or corporation may be allowed to connect to a single interceptor with approval from Corporation. The person, firm or corporation in reasonable charge of the trap, interceptor or separator shall take any and all steps necessary to assure adequacy which includes repair, modification or replacement.

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Alternate Devices and Technology:

Alternative devices and technologies shall be submitted to Corporation for approval before any such device is installed. The service facility will be required to furnish analytical data demonstrating the effluent discharge concentration to Corporation wastewater collection system will not exceed those listed in LPSCO-CP-01-001.

Sizing:

All traps, interceptors and separators shall be properly sized per Table 1. When an interceptor is sized less than five hundred (500) gallons or more than two thousand five hundred (2,500) gallons, the person, firm or corporation making the permit application shall first meet with the Corporation to verify the reduced or increased size has been correctly calculated and that no other options are available.

Size Modification:

Modifying the size of any trap or interceptor shall only be done when sizing per Table 1 allows the modification. Modifying the size of any trap or interceptor shall not be done without the approval of Corporation.

Domestic Wastewater:

Domestic wastewater shall not be discharged to the interceptor.

Minimization Plan:

All facilities required to install and operate a trap, interceptor or separator shall develop and implement a Waste Minimization Plan pertaining to the disposal of grease, oils, and food bearing wastes.

Best Management:

All establishments requiring a trap, interceptor or separator shall adopt BMP's (Best Management Practices) for handling sources of floatable oils, fat or grease originating within their facility. Proof of employee training in BMP's shall be shown to Corporation upon request.

Other Fixtures:

Toilets, urinals, and other similar fixtures shall not discharge through a grease interceptor.

Minimization Program:

The applicant shall establish and submit a written waste minimization plan (maintenance program) outlining specific methods (Best Management Practices) that the facility will use on a daily basis to reduce the discharge of oil and grease as well as solids from entering the interception device and ultimately, the Corporation sewer system. This plan shall be acceptable to and approved by the Corporation. The approved document shall accompany the permit application.

Discharge Permit:

This document will be used in lieu of a discharge permit to assist with enforcing all Corporation codes of practices.

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Grease interceptors and automatic grease removal devices required:

A grease interceptor or automatic grease removal device shall be required to receive the drainage from fixtures and equipment with grease-laden waste located in food preparation areas, such as in restaurants, hotel kitchens, hospitals, school kitchens, bars, factory cafeterias, caterers, nursing homes, day care center, churches and clubs. Fixtures and equipment shall include pot sinks, pre-rinse sinks; soup kettles or similar devices; work stations; floor drains or sinks into which kettles are drained; automatic hood wash units and dishwashers without pre-rinse sinks. Grease interceptors and automatic grease removal devices shall receive waste only from fixtures and equipment that allow fats, oils or grease to be discharged. Interceptors, such as grease, oil or sand shall be provided at laundries, restaurants, service stations, auto repair shops, carwashes and other industrial users when the proper handling of wastewater containing oil and grease or sand or any flammable wastes is necessary.

Location:

All Interceptors shall be approved and shall be located to be readily and easily accessible for cleaning and inspection.

Food waste grinder:

Where food waste grinders connect to grease interceptors, a solids interceptor shall separate the discharge before connecting to the grease interceptor. Solids interceptors and grease interceptors shall be sized and rated for the discharge of the food waste grinder. Emulsifiers, chemicals, enzymes and bacteria shall not discharge into the food waste grinder. Corporation shall require any user to cease operation of a garbage grinder and permanently remove such equipment when it is determined that the grinder is imposing any adverse effect on interceptor function.

Grease interceptor capacity:

Grease interceptors shall have the grease retention capacity indicated in Table 1 for the flow-through rates indicated. Corporation shall make determinations of interceptor adequacy and need, based on review of all relevant information regarding interceptor performance, facility site and building plan review and to require repairs to, modifications, or replacement of such traps.

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TABLE 1 - CAPACITY OF GREASE INTERCEPTORS - EPA-2 Model

A. Determine maximum drainage flow from fixtures:					
Type of Fixture	Total Fixtures		Flow Rate	=	Amount
Restaurant kitchen sink	_____	X	15 gpm	=	_____
Single compartment sink	_____	X	20 gpm	=	_____
Double compartment sink	_____	X	25 gpm	=	_____
2, single compartment sinks	_____	X	25 gpm	=	_____
2, double compartment sinks	_____	X	35 gpm	=	_____
Triple sink 1.5 inch drain	_____	X	35 gpm	=	_____
Triple sink 2 inch drain	_____	X	50 gpm	=	_____
30 gallon dishwasher	_____	X	15 gpm	=	_____
50 gallon dishwasher	_____	X	25 gpm	=	_____
50--100 gallon dishwasher	_____	X	40 gpm	=	_____
B. Total	Number of fixtures			=	_____ gpm
C. Loading Factors					
Restaurant type	Fast food-paper delivery			=	.50
	Low volume			=	.50
	Medium volume			=	.75
	High Volume			=	1.0
D. $B \times C = D$, subtotal					
E. $D \times 60 = \text{Subtotal} \times 60 \text{ minutes} = E$, maximum flow for one (1) hour, in gallons					
F. $E \times 2 = \text{maximum flow for one hour times two (2) hours retention time (based on restaurant volume)} = F$, volume of trap in gallons = _____					

Access and maintenance of traps, interceptors, and separators:

Complete access shall be provided to each interceptor and separator for service, maintenance and inspection of the inner chamber(s) and viewing and sampling of effluent wastewater discharged to the sewer. Interceptors and separators shall be maintained by periodic removal of accumulated grease, scum, oil, or other floating substances and solids deposited in the interceptor or separator.

Periodic Inspection:

All traps, interceptors and separators shall be subject to periodic inspections by Corporation during normal operating hours. These inspections can be based on an annual inspection or when a complaint is registered with Corporation regarding a grease-removal device. Should the inspection of any trap, interceptor or separator indicate a violation of any item in (1) thru (3) below, the person, firm or corporation in reasonable charge shall bring the device into compliance within the timeframe noted on the notice of violation, but not longer than fourteen (14) calendar days.

- (1) If twenty-five (25) percent of the interceptor is full; both surface (oil and grease) and bottom (solids).
- (2) When OSHA (Occupational, Safety and Health Administration) atmospheric levels of Hydrogen Sulfide limits have been exceeded - "Short Term Exposure Limit" (STEL) of fifteen (15) ppm over a fifteen-minute time-weighted average. When the "Immediately Dangerous to Life and Health" (IDLH) level is 100 ppm or above, immediate action

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shall be performed to return the level of Hydrogen Sulfide to safe and acceptable limits. If the violation cannot be immediately resolved, all use of the Trap, Interceptor or Separator shall cease until compliance is obtained.

(3) When pH in the effluent chamber falls below 5.0 - which is an unhealthy anaerobic interceptor condition.

Maintenance:

Any trap, interceptor or separator not adequately maintained to prevent floatable oils, fat or grease from entering the sewerage system or produce excessive odors shall be in violation of Corporation codes of practice.

Clearing Obstructions:

Corporation shall take appropriate action to clear any obstruction of the Corporation sewer that causes a sewer overflow. When the obstruction is found to be caused by an over-burdened or non-maintained trap, interceptor or separator, the person, firm or corporation in reasonable charge of the trap, interceptor or separator reimbursement of Corporation costs associated with clean-up efforts including any fines leveled against Corporation. Any establishments that continuously violate Corporation code of practice shall be subject to having sewer service discontinued.

Contain and/or Clean Up:

Should Corporation find it necessary to contain and/or clean up a private sanitary sewer overflow caused by blockage of private or public sewer lateral or system, all associated cost shall be the responsibility of the person, firm or corporation in reasonable charge of the property.

Repairs or Replacements:

When repairs or replacements are necessary to a trap, interceptor or separator, all repairs or replacements shall be completed within the time frame stated on the notice to comply. Corporation may authorize an time extension, not to exceed thirty (30) days, for justifiable cause.

Grease Removal:

The person, firm or corporation in reasonable charge shall remove and dispose of grease at a facility permitted to receive and process such waste. Cleaning frequencies shall be dependent on the amount of oil, grease or solids generated at each operation, the size of the grease trap or interceptor, and the approved written waste minimization program, but not to exceed thirty-day intervals for traps and ninety-day intervals for interceptors. Traps and interceptors shall be cleaned by a licensed contractor.

Interference, Operation and Odors:

Any facility whose effluent discharge into the sewerage system causes interference in the conveyance system, operation of the sewerage system, or emits excessive odors shall be required to sample the discharge from the trap, interceptor or separator and have it analyzed for oil and grease and sulfides, total and dissolved. Results of the analysis shall be immediately reported. Corporation may sample the grease interception device at any time, utilizing Corporation representatives. The person, firm or corporation in reasonable charge shall be responsible for any and all associated cost of such testing or sampling.

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IV. RECORD KEEPING AND RETENTION

An operator of a food services operation must keep a record at the food services operation of all grease interceptor inspection and maintenance activities including:

- (a) the date of inspection or maintenance;
- (b) the maintenance conducted;
- (c) the type and quantity of material removed from the grease interceptor; and
- (d) the location of disposal of the material removed from the grease interceptor.

The records shall be retained for a period of three years, and shall be available on request by an company representative.

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DECISION NO. 76799

Liberty Utilities (Litchfield Park Water & Sewer) Corp.

CODE OF PRACTICE (LPSCO-CP-01-005)

SECTION 5 - PHOTOGRAPHIC IMAGING OPERATIONS

I. APPLICATION

This code of practice for photographic imaging operations defines mandatory requirements for managing non-domestic waste discharged directly or indirectly into a sewer connected to a sewage facility.

This code of practice applies to photographic imaging operations. Definitions are included in LPSCO-CP-01-DEF.

II. DISCHARGE REGULATIONS

An operator of a photographic imaging operation must not discharge waste which, at the point of discharge into a sewer, contains:

- (a) silver in a concentration that is in excess of prescribed local limit analyzed in a grab sample; or,
- (b) prohibited waste, restricted waste, special waste, storm water, or contaminated water as defined in LPSCO-CP-01-DEF.

An operator of a photographic imaging operation that produces liquid waste containing silver must either:

- (a) collect and transport the waste from the photographic imaging operation for off-site waste management; or
- (b) treat the waste at the photographic imaging operation site prior to discharge to the sewer using one of the following silver recovery technologies:
 - (i) two chemical recovery cartridges connected in a series;
 - (ii) an electrolytic recovery unit followed by two chemical recovery cartridges connected in series; or
 - (iii) any other silver recovery technology, or combination of technologies, capable of reducing the concentration of silver in the waste to 1.2 mg/L or less where valid analytical test data has been submitted to, and accepted by, the Corporation wastewater group.

An operator of a photographic imaging operation must install and maintain silver recovery technology according to the manufacturer's or supplier's recommendations.

An operator of a photographic imaging operation must collect all liquid waste containing silver in a holding tank and must deliver this waste to the chemical recovery cartridges using a metering pump.

An operator of a photographic imaging operation must calibrate the metering pump at least once per year.

Spill/Leak Prevention

An operator of a photographic imaging operation must locate the silver recovery system in such a manner that an accidental spill, leak or container failure will not result in liquid waste containing silver in concentrations greater than 1.2 mg/L entering any sewer.

If a location referred to above is not available, an operator of a photographic imaging operation must do one of the following:

- (a) install spill containment to contain spills or leaks from the silver recovery system; or
- (b) cap all floor drains into which liquid spilled from the silver recovery system would normally flow.

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Testing

When using two separate chemical recovery cartridges, an operator of a photographic imaging operation must test the discharge from the first cartridge for silver content at least once per month using either silver test paper or a portable silver test kit.

When the discharge from the first chemical recovery cartridge referred to above cannot be sampled, an operator of a photographic imaging operation must:

- (a) install a cumulative flow meter on the silver recovery system; and
- (b) test the discharge from the second chemical recovery cartridge once per week using silver test paper or a silver test kit.

Cartridge Replacement

An operator of a photographic imaging operation must replace the chemical recovery cartridges when any one of the following occurs:

- (a) the manufacturer's or supplier's recommended expiry date, as shown on each cartridge, has been reached;
- (b) eighty percent (80%) of the manufacturer's or supplier's maximum recommended capacity, or total cumulative flow, for each cartridge has been reached;
- (c) test data, using silver test paper or a silver test kit, indicates that the discharge from the first cartridge is greater than 1000 mg/L; or
- (d) analytical data using a method of analysis outlined in standard methods, or an alternative method of analysis approved by the manager, having a method detection limit of 0.5 mg/L silver or lower, indicates that the concentration of silver in the discharge from the silver recovery system is greater than, or equal to, 1.2 mg/L.

III. RECORD KEEPING AND RETENTION

An operator of a photographic imaging operation that uses a silver recovery system must keep, at the photographic imaging operation site, an operation and maintenance manual pertaining to all equipment used in the silver recovery system.

An operator of a photographic imaging operation that uses two chemical recovery cartridges connected in series must keep a record book at the photographic imaging operation site which includes the following information recorded for the previous two years:

- (a) serial number of each chemical recovery cartridge used;
- (b) installation date of each chemical recovery cartridge used;
- (c) expiry date of each chemical recovery cartridge used (where provided by manufacturers or suppliers);
- (d) maximum recommended capacity, or total cumulative flow, of each chemical recovery cartridge used;
- (e) dates of all metering pump calibrations;
- (f) monthly silver test results on the discharge from the first chemical recovery cartridge; or where the discharge from the first cartridge cannot be sampled, weekly silver test results on the discharge from the second chemical recovery cartridge and weekly cumulative flows through the silver recovery system; and
- (g) dates and descriptions of all operational problems associated with the chemical recovery cartridges and remedial actions taken.

¹ If treatment of liquid waste with two chemical recovery cartridges connected in series is the only silver recovery technology being used, then the owner of the photographic imaging operation must replace both chemical recovery cartridges when one of the events referred to occurs.

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If treatment of liquid waste with two chemical recovery cartridges connected in series is used following treatment by an electrolytic recovery unit, the second cartridge may replace the used first cartridge and a new second cartridge may be installed when one of the events referred to occurs.

Both chemical recovery cartridges used following an electrolytic recovery unit must be replaced by the operator of the photographic imaging operation when one of the events referred to above occurs if this is recommended by the manufacturer or supplier of the cartridges.

An operator of a photographic imaging operation that uses an electrolytic recovery unit in addition to two chemical recovery cartridges connected in series must keep a record book at the photographic imaging operation site which includes the following information recorded for the previous two years:

- (a) all information specified above;
- (b) date of each removal of silver from the electrolytic recovery unit;
- (c) date of each maintenance check on the electrolytic recovery unit;
- (d) dates and descriptions of all operational problems associated with the electrolytic recovery unit and remedial actions taken.

Approved: _____

Responsible Agent: Operations

APPROVED FOR FILING
DECISION NO. 76799

Liberty Utilities (Litchfield Park Water & Sewer) Corp.

CODE OF PRACTICE (LPSCO-CP-01-006)

SECTION 6 - RV PARK OPERATIONS

I. APPLICATION

This code of practice for RV park operations defines the requirements for managing waste discharged directly or indirectly into a sewer connected to a sewage facility from RVs, mobile homes, trailers, watercraft and other sources which employ storage, chemical disinfection/stabilization and discharge as a waste disposal mechanism.

This code of practice applies to all RV park operations. Definitions are included in LPSCO-CP-01-DEF.

II. DISCHARGE REGULATIONS

An operator of an RV park operation must not discharge waste, which at the point of discharge into a sewer, contains:

- (a) oil and grease in a concentration that is in excess of 100 milligrams per liter as analyzed in a grab sample;
- (b) suspended solids in a concentration that is in excess of 350 milligrams per liter as analyzed in a grab sample;
- (c) 5-day biochemical oxygen demand (BOD₅) in a concentration that is in excess of 350 milligrams per liter in a grab sample;
- (d) total nitrogen in excess of 100 mg/l;
- (e) prohibited waste, restricted waste, special waste, storm water, or contaminated water.

If the RV park operation accepts RV customers with the intention of providing sewerage hook-ups, that practice is only acceptable if one of the following conditions is met:

1. If the RV park operation has a dedicated pre-treatment facility, that facility must be used for the disposal of the first discharge of wastewater from any entering RVs. The facility must be maintained as per manufacturer's or engineer's operating instructions. Discharge from that facility which is directed to a sewer connected to a sewerage facility shall be metered such that large slugs of waste are not introduced to the sewer instantaneously. Discharges from such facilities to sewers are limited to 10% of the average daily sewerage flow (in USGPM) experienced in the sewer.
2. In the absence of a dedicated pre-treatment facility, the RV park operation shall require incoming RVs to certify that, prior to connection to a sewer, that the holding tanks of the RV have been discharged at an approved facility.

III. RECORD KEEPING AND RETENTION

An operator of an RV park operation must keep a record at the RV park operation of:

1. all disposals of RV waste into a dedicated pre-treatment facility;
2. Pre-treatment facility inspection and maintenance activities including:
 - a. the date of inspection or maintenance;
 - b. the maintenance conducted; and
 - c. the type and quantity of material removed from the facility;
3. Certifications of waste disposal prior to hook up of RVs to sewer services.

The records shall be retained for a period of two years, and shall be available on request by Corporation representative.

Approved: _____

Responsible Agent: Operations

APPROVED FOR FILING
DECISION NO. 76799

Liberty Utilities (Litchfield Park Water & Sewer) Corp.

CODE OF PRACTICE (LPSCO-CP-01-007)

SECTION 7 – PRETREATMENT/INDUSTRIAL WASTE CONTROL

I APPLICATION

This Section is adopted by the Company in accordance with the authority conferred in the Clean Water Act, and any regulations implementing the Clean Water Act, including, but not limited to, 40 CFR 403.8, applicable Arizona Revised Statutes, including but not limited to 49 A.R.S. 2, applicable Arizona Administrative Code, including but not limited to 18 A.A.C. 9 and 18. A.A.C. 11, and with all the powers thereof which are specifically granted to the Company, or are necessary or incidental to or implied from power specifically granted therein for carrying out the objectives and purposes of the Company and this Section.

II. COMPLIANCE

The Pretreatment/Industrial Waste Control Program is designed to enable the Company to comply with all conditions of any applicable Aquifer Protection Permit (APP), AZPDES discharge permit, Federal Pretreatment Regulations, Arizona Pretreatment Regulations, and any applicable sludge disposal regulations, and to meet the following objectives:

1. To prevent the introduction of pollutants into the Company's Facilities which will interfere with the operation of the wastewater systems or contaminate the sludge.
2. To prevent the introduction of pollutants into the wastewater system which will pass through the wastewater system, inadequately treated, into the receiving waters or the atmosphere.
3. To prevent the introduction of pollutants into the wastewater system which might constitute a hazard to humans or to animals.
4. To assure the Company's ability to recycle and reclaim wastewater and sludge.
5. To protect human health and welfare, the environment, property and the Company's wastewater system.

II. DISCHARGE REGULATIONS

A. General Discharge Limitations

No customer shall contribute or cause to be contributed, directly or indirectly, any pollutant or wastewater which will interfere with the operation or performance of the Company's wastewater system. These general prohibitions apply to all customers of the Company whether or not the customer is subject to National Categorical Pretreatment Standards or any other national, State, Company, or local pretreatment standards or requirements.

B. Specific Discharge Limitations

No User shall discharge into the Company wastewater system or into any connected sewer system at any time or over any period of time, wastewater containing any of the materials and substances in excess of the limitations provided under Section B "Restricted Waste". The specified limitations may also be imposed directly on process wastewaters prior to dilution by domestic and other wastewaters discharged by a customer.

Once promulgated, National Categorical Pretreatment Standards for a particular industrial subcategory, if more stringent, shall supersede all conflicting discharge limitations contained in this Section 7, as they apply to that industrial subcategory.

Approved: _____

Responsible Agent: Operations

APPROVED FOR FILING
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State requirements and limitations on discharges shall apply in any case where they are more stringent than federal requirements and limitations or those contained elsewhere in this Code.

C. Prohibited Discharges

None of the following described sewage, water, substances, materials, or wastes shall be discharged into the Company's wastewater system or into the sewer system by any customer, and each governing body of any applicable Service Provider shall prohibit and shall prevent such discharges by any Corporation customer, either directly or indirectly, into its sewer system:

- (a) Any liquids, solids or gases which by reason of their nature or quantity are, or may be, sufficient either alone or by interaction with other substances to cause fire or explosion or be injurious in any other way to the Company's wastewater system, the sewer system of a Service Provider or any of its connectors, or to the operation of the Company. At no time shall any reading on an explosion hazard meter, at the point of discharge into the Company's wastewater system or the sewer system of a Service Provider or any of its customers (or at any point in the wastewater systems), or at any monitoring location designated by the Company in a wastewater contribution permit, be more than ten percent (10%) of the Lower Explosive Limit (LEL) of the meter. Prohibited materials include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, tetrachloroethylene, perchloroethylene, bromates, carbides, hydrides, and sulfides.
- (b) Any solid or viscous material which could cause an obstruction to flow in the sewers or in any way could interfere with the treatment process, including as examples of such materials but without limiting the generality of the foregoing, significant proportions of ashes, wax, paraffin, cinders, sand, mud, straw, shavings, metal, glass, rags, lint, feathers, tars, plastics, wood and sawdust, paunch manure, hair and fleshings, entrails, lime slurries, beer and distillery slops, grain processing wastes, grinding compounds, acetylene generation sludge, chemical residues, acid residues, food processing bulk solids, snow, ice, and all other solid objects, material, refuse, and debris not normally contained in sanitary sewage.
- (c) Any wastewater having a pH less than 5.5 for discharges from Industrial Customers into the Company's wastewater system or the sewer system of a Service Provider or that of any of its Customers, or less than 5.5 or greater than 9.5 for other discharges into the Company's wastewater system, or wastewater having any other corrosive property capable of causing damage or hazard to any part of the Company's wastewater system or the sewer system of a Service Provider or any of its Customers, or to personnel.
- (d) Any wastewater having a temperature which will inhibit biological activity at the Company's treatment plant, but in no case wastewater containing heat in such amounts that the temperature at the introduction into the Company's wastewater treatment exceeds 40°C (104°F).
- (e) Any pollutants, including oxygen demanding pollutants (BOD, COD, etc.) released at a flow rate and/or pollutant concentration which cause Upset. In no case shall a slug load have a flow rate or contain concentrations or qualities of pollutants that exceed for any time period longer than fifteen (15) minutes more than five (5) times the average twenty-four (24) hour concentration, quantities, or flow during normal operation.
- (f) Any water or wastes containing a toxic substance (such as Chlorine from large swimming pools over 25,000 gallons, etc.) in sufficient quantity, either singly or by interaction with other substances, to injure or interfere with any sewage treatment process, to constitute a hazard to humans or to animals, or to create any hazard or toxic effect in the waters which receive the treated or untreated sewage.
- (g) Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin, each in amounts that will cause interference.
- (h) Pollutants which result in the presence of toxic gases, vapors, or fumes within the system in a quantity that may cause acute worker health and safety problems.
- (i) Any trucked or hauled pollutants except at discharge points designated by the Company.
- (j) Any water or wastes containing pollutant quantities or concentrations exceeding the limitations in Section 7 of this Code of Practice, or the limitations in any applicable Categorical Standards.

Approved: _____

Responsible Agent: Operations

APPROVED FOR FILING
DECISION NO. 76799

III. HAZARDOUS WASTE DISCHARGE NOTICE

Any customer disposing of industrial waste shall notify the Company, the EPA Regional Waste Management Division Director, and the state hazardous waste authorities in writing of any discharge into the Company's wastewater system of any substance which, if otherwise disposed of, would be considered a hazardous waste under 40 CFR Part 261. The specific information required to be reported and the time frames in which it is to be reported are found at 40 CFR §403.12(p).

IV. REPORTING REQUIREMENTS FOR SIGNIFICANT INDUSTRIAL USERS

[RESERVED]

V. MONITORING BMSC FACILITIES

The Company may require to be provided and operated, at the customer's own expense, monitoring facilities to allow inspection, sampling, and flow measurement of any discharges as necessary to determine compliance with the provisions of this Code.

There shall be ample room in or near such sampling manhole or facility to allow accurate sampling and preparation of samples for analysis. The facility, sampling, and measuring equipment shall be maintained at all times in a safe and proper operating condition at the expense of the customer.

The sampling and monitoring facilities shall be provided in accordance with the Company's requirements and all applicable local construction standards and specifications. Construction shall be completed within such a time frame as the Company shall specify by written notification.

Approved: _____

Responsible Agent: Operations

APPROVED FOR FILING
DECISION NO. 76799

Liberty Utilities (Litchfield Park Water & Sewer) Corp.

CODE OF PRACTICE (LPSCO-CP-01-008)**SECTION 8 – NONCOMPLIANCE / ENFORCEMENT****I. NOTICE OF VIOLATIONS**

Whenever the Company determines that any customer has violated or is violating any provision of this Code, or any directives, orders, or permits issued or approved to which the Company is bound, the Company may serve upon such customer a written notice ("Notice") stating the nature of the violation(s) in accordance with A.A.C. R14-2-609.C, and requiring that the customer correct the violation(s) within a specified period of time; perform such tasks as the Company determines are necessary for the customer to correct the violations; or perform such tasks and submit such information as is necessary for the Company to evaluate the extent of noncompliance or to determine appropriate enforcement actions to be taken in conjunction with the applicable regulatory agencies. A copy of the Notice shall also be provided to the Director of the Utilities Division of the Arizona Corporation Commission.

II. SUSPENSION OF SERVICE

If the customer does not cure the violation, or present a satisfactory plan of remediation to Company, within the time specified in the Notice, then Company may suspend or disconnect wastewater treatment service in accordance with A.A.C. R14-2-609.C.

In addition, the Company may suspend wastewater treatment service, in accordance with A.A.C. R14-2-609.B (without notice), when such suspension is necessary, in the opinion of the Company, in order to stop an actual or threatened discharge which presents or may present an imminent or substantial endangerment to the health or welfare of persons, to the environment, or causes the Company to violate any condition of its aquifer protection permit, AZPDES discharge permit, or any applicable sludge disposal regulations.

Any customer notified of an immediate suspension of the wastewater treatment service shall immediately stop or eliminate the discharge. In the event of a failure of the customer to comply voluntarily with the cease and desist request, the Company shall take such steps as deemed necessary, including immediate severance of the sewer connection and/or immediate disconnection of the water service, to prevent or minimize damage to the company's wastewater system or endangerment to any individuals or the environment. Any action that results in the immediate suspension of service, or disconnection, of a customer shall be reported to the Director of the Utilities Division of the Arizona Corporation Commission and Maricopa County Environmental Services Department (MCESD) within twenty-four (24) hours of the suspension or disconnection. Any reconnection of the affected customer shall be in accordance with the Company's Tariff for which the customer must pay the cost of disconnection and reconnection, plus the cost of parts and installation of an Elder valve (or similar equipment) to allow for easier disconnection in the event of a repeated discharge offense by customer.

Approved: _____

Responsible Agent: Operations

APPROVED FOR FILING
DECISION NO. 76799

ARTICLE 5
PRETREATMENT/INDUSTRIAL WASTE CONTROL

5.1 General.

5.1.1 Authority:

This Article 5 is adopted by the Corporation in accordance with the authority conferred in the Clean Water Act, and any regulations implementing the Clean Water Act, including, but not limited to, 40 CFR 403.8, applicable Arizona Revised Statute, including but not limited to 49 A.R.S. 2, applicable Arizona Administrative Code, including but not limited to 18 A.A.C. 9 and 18. A.A.C. 11, and with all the powers thereof which are specifically granted to the Corporation, or are necessary or incidental to or implied from power specifically granted therein for carrying out the objectives and purposes of the Corporation and this Article 5. The provisions in this Article 5 shall be called the Pretreatment/Industrial Waste Control Program of the Corporation.

5.1.2 Compliance:

The Pretreatment/Industrial Waste Control Program of the Corporation is designed to enable the Corporation to comply with all conditions of its Arizona Pollutant Discharge Elimination System (AZPDES) Permit, Federal Pretreatment Regulations, Arizona Pretreatment Regulations, and any applicable sludge disposal regulations, and to meet the following objectives:

- (a) To prevent the introduction of pollutants into the Corporation Facilities which will interfere with the operation of the Wastewater Systems or contaminate the sludge.
- (b) To prevent the introduction of pollutants into the Wastewater System which will pass through the Wastewater System, inadequately treated, into the receiving waters or the atmosphere.
- (c) To prevent the introduction of pollutants into the Wastewater System which might constitute a hazard to humans or to animals.
- (d) To assure the Corporation's ability to recycle and reclaim Wastewater and sludge.
- (e) To protect human health and welfare, the environment, property and the Corporation's Wastewater System.

PART A
RULES AND REGULATIONS FOR INDUSTRIAL/PRETREATMENT USERS

5.2 Applicability.

- (a) A User is any non-domestic discharger who contributes, causes, or permits the contribution of wastewater into the Corporation's wastewater collection and treatment system.
- (b) Any User, the sewage from which directly or indirectly enters the Wastewater System of the Corporation from an area within or without the boundaries (through a Service Provider) of the Corporation, shall be subject to the requirements of this Part and shall be bound by these Rules and Regulations as they now exist or may hereafter be amended. Such Rules and Regulations may be enforced against any User.

5.3 General Discharge Prohibitions.

No User shall contribute or cause to be contributed, directly or indirectly, any pollutant or wastewater which will interfere with the operation or performance of the Corporation's Wastewater System. These general prohibitions apply to all such Users of the Corporation's Wastewater System whether or not the User is subject to national categorical pretreatment standards or any other national, State, Corporation, or local pretreatment standards or requirements: A User may not discharge any of the sewage, water, substances, materials, or wastes listed in Article 5.4 of these Rules and Regulations.

5.4 Specific Discharge Limitations – Users.

5.4.1 Corporation Limitations:

No User shall discharge into the Corporation Wastewater System or into any connected sewer system at any time or over any period of time, Wastewater containing any of the following materials and substances in excess of the limitations provided herein. These limitations may also be imposed directly on process wastewaters prior to dilution by domestic and other Wastewaters discharged by the User:

CONVENTIONAL CONTAMINANTS (mg/L)	
Biochemical Oxygen Demand (BOD)	350
Chemical Oxygen Demand (COD)	1000
Ammonia	75
Total Nitrogen- as NO ₃	100
Oil and Grease	100
Suspended Solids	350
ORGANIC CONTAMINANTS (mg/L)	
Benzene	Reserved
Ethyl Benzene	Reserved
Toluene	Reserved
Xylenes	Reserved
Chloroform	Reserved
Total Oil and Grease (hydrocarbons)	100.0
TRACE METALS	
Parameter	Daily Average Effluent Limitation (mg/L)
Arsenic (As)	0.112
Beryllium (Be)	0.008
Cadmium (Cd)	0.012
Chloride (Cl)	Reserved
Chromium (Cr)	0.238
Cobalt (Co)	Reserved
Copper (Cu)	Reserved
Cyanide (CN)	Reserved
Fluoride (F)	9.43
Iron (Fe)	Reserved
Lead (Pb)	0.13
Manganese (Mn)	Reserved
Mercury (Hg)	0.0050
Molybdenum (Mo)	Reserved
Nickel (Ni)	0.242
Selenium (Se)	0.142
Silver (Ag)	Reserved
Sulfate (SO ₄)	Reserved
Thallium	0.005
Zinc (Zn)	Reserved

*Notwithstanding these numeric limitations, the discharge of dry-cleaning process wastes, including new and used tetrachloroethene (perchloroethylene), still bottom oil, and separator water, is prohibited entirely. Where necessary the Corporation may require that these wastes be physically prevented from discharging into the Corporation's Wastewater System.

5.4.2 General Requirements Regarding Deleterious Wastes.

None of the following described sewage, water, substances, materials or waste shall be discharged into the Corporation's Wastewater System; and each governing body of each Service Provider shall prohibit and shall prevent any discharges from any outlet into its sewer system, if such discharges cause or significantly contribute to a violation of any of the requirements contained herein:

- (a) Sewage of such a nature and delivered at such a rate as to impair the hydraulic capacity of the Corporation's Wastewater System, normal and reasonable wear and usage excepted.
- (b) Sewage of such a quantity, quality, or other nature as to impair the strength or the durability of the sewer structures, equipment or treatment works, either by chemical or by mechanical action.
- (c) Sewage having a flash point lower than 187°F, as determined by the test methods specified in 40 CFR §261.21.
- (d) Any radioactive substance, the discharge of which, does not comply with Article 4, Appendix B of the AAC, Title 12, Chapter 1.
- (e) Any garbage other than that received directly into the Service Provider's sewer system from domestic and commercial garbage grinders in dwellings, restaurants, hotels, stores, and institutions, by which such garbage has been shredded to such a degree that all particles will be carried freely under flow conditions normally prevailing in public sewers with no particle greater than one-half (1/2) inch in any dimension.
- (f) Any night soil or septic tank pumpage, except by permit in writing from the Corporation at such points and under such conditions as the Corporation may stipulate in each permit.
- (g) Sludge or other material from sewage or industrial waste treatment plants or from water treatment plants, except such sludge or other material, the discharge of which to the Corporation Wastewater System shall be governed by the provisions of these Rules and Regulations or any Connector Agreement or as otherwise authorized by the Corporation.
- (h) Water which has been used for cooling or heat transfer purposes without recirculation, discharged from any system of condensation, air conditioning, refrigeration, or similar use.
- (i) Water accumulated in excavations or accumulated as the result of grading, water taken from the ground by well points, or any other drainage associated with construction.

- (j) Any water or wastes containing grease or oil and other substances that will solidify or become discernibly viscous at temperatures between 32°F and 150°F except by permit in writing from the Corporation at such points and under such conditions as the Corporation may stipulate in each permit.
- (k) Any wastes that contain a corrosive, noxious, or malodorous material or substance which, either singly or by reaction with other wastes, is capable of causing damage to the Corporation's Wastewater System or to any part thereof, of creating a public nuisance or hazard, or of preventing entry into the sewers for maintenance and repair.
- (l) Any wastes that contain concentrated dye wastes or other wastes that are either highly colored or could become highly colored by reacting with any other wastes, except by permission of the Corporation.
- (m) Any wastes which are unusual in composition; i.e., contain an extremely large amount of suspended solids or BOD; are high in dissolved solids such as sodium chloride, calcium chloride, or sodium sulfate; contain substances conducive to creating tastes or odors in drinking water supplies; otherwise make such waters unpalatable even after conventional water purification treatment; or are in any other way extremely unusual unless the Corporation determines that such wastes may be admitted to the Corporation Wastewater System or shall be modified or treated before being so admitted.
- (n) Any substance which may cause the Corporation's effluent or any other product of the Corporation such as residues, sludges or scums, to be unsuitable for reclamation and reuse or to interfere with the reclamation process. In no case, shall a substance discharged to the Wastewater System cause the Corporation to be in non-compliance with sludge use or disposal criteria, guidelines or regulations developed under Article 405 of the Clean Water Act; any criteria, guidelines, or regulations affecting sludge use or disposal developed pursuant to the Solid Waste Disposal Act, the Clean Air Act, the Toxic Substances Control Act, or State criteria applicable to the sludge management method being used.
- (o) Any substance which may cause the Corporation to violate its Arizona Pollutant Discharge Elimination System (AZPDES) Permit or the receiving water quality standards.
- (p) Except for existing combined sewer facilities, any stormwater, directly or indirectly, from surface drains, ditches, or streams, storm or combined sewers, roof, areaway, sumps and sump pumps, or foundation drains, or from any other means, including subsurface drainage or groundwater.

5.4.3 Prohibited Discharges.

None of the following described sewage, water, substances, materials, or wastes shall be discharged into the Corporation's Wastewater System or into the sewer system of a Service.

Provider, by any User and each governing body of each Service Provider shall prohibit and shall prevent such discharges by any User, either directly or indirectly, into its sewer system:

- (a) Any liquids, solids or gases which by reason of their nature or quantity are, or may be, sufficient either alone or by interaction with other substances to cause fire or explosion or be injurious in any other way to the Corporation's Wastewater System, the sewer system of a Service Provider or any of its connectors, or to the operation of the Corporation. At no time shall any reading on an explosion hazard meter, at the point of discharge into the Corporation's Wastewater System or the sewer system of a Service Provider or any of its Customers (or at any point in the Wastewater Systems), or at any monitoring location designated by the Corporation in a wastewater contribution permit, be more than ten percent (10%) of the Lower Explosive Limit (LEL) of the meter. Prohibited materials include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides.
- (b) Any solid or viscous material which could cause an obstruction to flow in the sewers or in any way could interfere with the treatment process, including as examples of such materials but without limiting the generality of the foregoing, significant proportions of ashes, wax, paraffin, cinders, sand, mud, straw, shavings, metal, glass, rags, lint, feathers, tars, plastics, wood and sawdust, paunch manure, hair and fleshings, entrails, lime slurries, beer and distillery slops, grain processing wastes, grinding compounds, acetylene generation sludge, chemical residues, acid residues, food processing bulk solids, snow, ice, and all other solid objects, material, refuse, and debris not normally contained in sanitary sewage.
- (c) Any wastewater having a pH less than 5.5 and more than 9.5 for discharges from Industrial Users into the Corporation's Wastewater System or the sewer system of a Service Provider or that of any of its Customers, or less than 5.5 or greater than 9.5 for other discharges into the Corporation's Wastewater System, or wastewater having any other corrosive property capable of causing damage or hazard to any part of the Corporation's Wastewater System or the sewer system of a Service Provider or any of its Customers, or to personnel.

- (d) Any wastewater having a temperature which will inhibit biological activity at the Corporation's treatment plant, but in no case wastewater containing heat in such amounts that the temperature at the introduction into the Corporation's, Wastewater Treatment Works exceeds 38°C (100°F).
- (e) Any pollutants, including oxygen demanding pollutants (BOD, etc.) released at a flow rate and/or pollutant concentration which cause Upset. In no case shall a slug load have a flow rate or contain concentrations or qualities of pollutants that exceed for any time period longer than fifteen (15) minutes more than five (5) times the average twenty-four (24) hour concentration, quantities, or flow during normal operation.
- (f) Any water or wastes containing a toxic substance in sufficient quantity, either singly or by interaction with other substances, to injure or interfere with any sewage treatment process, to constitute a hazard to humans or to animals, or to create any hazard or toxic effect in the waters which receive the treated or untreated sewage.
- (g) Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin, each in amounts that will cause interference or Upset.
- (h) Pollutants which result in the presence of toxic gases, vapors, or fumes within the system in a quantity that may cause acute worker health and safety problems.
- (i) Any trucked or hauled pollutants except at discharge points designated by the Corporation.
- (j) Any water or wastes containing pollutant quantities or concentrations exceeding the limitations in Article 5 of these Rules and Regulations, or the limitations in any applicable Categorical Standards.
- (k) Any wastewater discharges to the Corporation's Wastewater System, except at locations approved by the Corporation.

5.4.4 National Categorical Pretreatment Standards:

Once promulgated, Categorical Standards for a particular industrial subcategory, if more stringent, shall supersede all conflicting discharge limitations contained in this Article 5, Part B, as they apply to that industrial subcategory.

5.4.5 State Requirements:

State requirements and limitations on discharges shall apply in any case where they are more stringent than federal requirements and limitations or those contained elsewhere in this Article 5, Part B.

5.4.6 Dilution Prohibited:

Except where permitted by Categorical Standards, no User may increase the use of process water or, in any way, attempt to dilute a discharge as a partial or complete

substitute for adequate treatment to attain compliance with the limitations contained in National Categorical Pretreatment Standards or any other specific discharge limitations contained in this Article 5. The Corporation may set or require a Service Provider to set mass limitations or alternate concentration-based limitations for those Users which are using improper dilution to meet these limitations.

5.5 Insignificant Discharges.

Notwithstanding the prohibitions and limitations contained in Article 5.3 of these Rules and Regulations, the Corporation may allow a proposed discharge to the system if the Corporation determines that the quantity and quality of the discharge, both alone and in conjunction with similar discharges which might be affected by this determination, will have no material effect on the Corporation's operations, including the quality of its effluent or sludges. Approval of the Corporation must be received in writing before the discharge may commence, and the discharge must adhere to any terms and conditions of the Corporation's approval.

Approval of such a discharge is entirely at the discretion of the Corporation, and shall not constitute approval of any additional or similar discharges. Disapproval of a proposed discharge by the Corporation shall not be subject to the appeal and hearing procedure set forth in these Rules and Regulations.

5.6 Accidental Or Unusual Discharges.

An accidental or unusual discharge is a discharge which may disrupt Wastewater System treatment processes or operations, damage Wastewater System facilities, cause an AZPDES Permit violation at the Corporation's treatment plant or degrade sludge quality excessively, or which differs significantly in quantity or quality from discharges under normal operations.

5.6.1 Accidental Discharge Protection:

Each User shall provide protection from accidental or unusual discharges of prohibited materials or other substances regulated by these Rules and Regulations. Infrastructure necessary to prevent accidental discharge of prohibited materials shall be provided and maintained at the Customer or User's own cost and expense.

5.6.2 Notification Requirements:

- (a) Telephone Notification: In the case of any accidental or unusual discharge, it is the responsibility of the User to immediately telephone and notify the Corporation and the Service Provider providing sewage services of the incident. The notification shall include the location of discharge, type of waste, concentration and volume, and corrective actions.

- (b) Written Notice: Within five (5) days following an accidental or unusual discharge, the User shall submit to the Corporation a detailed written report describing the cause of the discharge and the measures to be taken by the User to prevent similar future occurrences. Such notification shall not relieve the User of any expense, loss, damage, or other liability which may be incurred as a result of damage to the Corporations wastewater system, fish kills, or any other damage to person or property; nor shall such notification relieve the User of any fines, civil penalties, or other liability which may be imposed by these Rules and Regulations or other applicable law.

Notice To Employees. A notice shall be permanently posted on the User's bulletin board or other prominent place advising employees whom to call in the event of an accidental discharge. Employers shall ensure that all employees who may cause or suffer such an accidental discharge to occur are advised of the emergency notification procedure.

5.6.3 Slug Discharge Plan Requirements:

At least every two (2) years, or as required by 40 CFR §403.8(f)(2)(v), the Corporation shall evaluate whether each Significant Industrial User needs a plan to control slug discharges. If a slug discharge plan is needed, it shall be submitted to the Corporation for review and approval as directed by the Corporation, and shall contain, at a minimum, the following elements:

- (a) A description of discharge practices, including non-routine batch discharges.
- (b) A description of stored chemicals.
- (c) Procedures for immediately notifying the Corporation and the Service Provider providing sewage services of slug discharges, including any discharge that would violate any prohibition or limitation under Articles 5.17 or 5.18 of these Rules and Regulations, with procedures for follow-up written notification within five (5) days.
- (d) If necessary, procedures to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant-site runoff, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents), and/or measures and equipment for emergency response.

5.7 Hazardous Waste Discharge Notification.

Industrial Users shall notify the Corporation, the EPA Regional Waste Management Division Director, and the state hazardous waste authorities in writing of any discharge into the Corporations Wastewater System of any substance which, if otherwise disposed of, would be considered a hazardous waste under 40 CFR Part 261. This notification requirement does not apply to pollutants already being reported under the reporting

requirements contained in these Rules and Regulations. The specific information required to be reported and the time frames in which it is to be reported are found at 40 CFR §403.12(p).

5.8 Wastewater Contribution Permits.

5.8.1 Applicability:

All Significant Industrial Users and other users as required by the Corporation, contributing to or proposing to connect to or to contribute to the Corporation's Wastewater System, shall obtain a Wastewater Contribution Permit. Such permit shall either be issued by the Corporation, or co-issued by the Service Provider providing sewage services and the Corporation or in a form acceptable to the Corporation.

Requirements pertaining to permits co-issued with municipalities or issued solely by the Corporation are contained in the Corporation's Rules and Regulations. Permits co-issued with Service Providers may also contain requirements contained in the various municipal codes, ordinances, resolutions, and rules and regulations.

5.8.2 Permit Application:

Users required to obtain a Wastewater Contribution Permit shall complete and file with the Corporation an application accompanied by a fee as determined pursuant to Article 5.12 of these Rules and Regulations.

Applications Are Due: For new dischargers, at least 90 days prior to beginning discharge to the Corporation's Wastewater System.

For existing dischargers who become subject to a newly promulgated Categorical Standard, at least 90 days prior to the effective date of such standard.

For existing dischargers who, because of process changes or additions, will become subject to an existing Categorical Standard, at least 90 days prior to beginning discharge from the categorical process.

For existing dischargers subject to Categorical Standards as of the effective date of this regulation, who have not previously obtained a Wastewater Contribution Permit, within 30 days of the effective date of this regulation.

For all other dischargers, in a time frame as specified in notice from the Corporation.

ORIGINAL

In support of the application, the User shall submit, in units and terms appropriate for evaluation, the following information:

- (a) Name, mailing address, and facility location.
- (b) SIC number(s) according to the Standard Industrial Classification (SIC) Manual, Office of Management and Budget, 1987, as amended or the 1997 North American Industrial Classification System (NAICS), as amended.
- (c) Time and duration of wastewater discharges.
- (d) Average daily and thirty (30) minute peak wastewater flow rates, including daily, monthly, and seasonal variations, if any.
- (e) Site plan, floor plans, mechanical and plumbing plans, and details to show all sewers, sewer connections, and appurtenances by the size, location, and elevation.
- (f) Description of activities, facilities, and plant processes on the premises including all materials which are or could be discharged.
- (g) Wastewater constituents and characteristics including, but not limited to, those limited by Article 5 of these Rules and Regulations, as determined by a reliable analytical laboratory. Sampling and analysis shall be performed in accordance with procedures established by the EPA pursuant to Article 304(g) of the act and contained in 40 CFR, Part 136, as amended.
- (h) A statement regarding whether or not the discharge standards and pollutant limitations contained in Article 5 of these Rules and Regulations, including any applicable State or national pretreatment standards, are being met on a consistent basis and if not, whether additional O&M and/or additional pretreatment is required for the User to meet the applicable standards.
- (i) If additional pretreatment and/or O&M will be required to meet the discharge standards and pollutant limitations, the shortest schedule by which the User will provide such additional treatment. For state or national pretreatment standards, the completion date in this schedule shall not be later than the compliance date established for the applicable pretreatment standard.

The schedule shall contain increments of progress in the form of dates for the commencement and completion of major events leading to the construction and operation of additional pretreatment required for the User to meet the applicable discharge standards and pollutant limitations (e.g., Hiring an engineer, completing preliminary plans, completing final plans, executing contract for major components, commencing construction, completing construction, etc.). In no case shall an increment of progress exceed nine (9) months.

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- (a) Each product produced by type, amount, process or processes, and rate of production.
- (b) The type and amount of raw materials processed (average and maximum per day).
- (c) The number and type of employees, and hours of operation of the plant, and proposed or actual hours of operation of the Pretreatment System.
- (d) Any other information as may be deemed by the Corporation to be necessary to evaluate the permit application.

5.8.3 Permit Issuance:

The Corporation shall issue a Wastewater Contribution Permit to the applicant if the Corporation finds that all of the following conditions are met:

- (a) The proposed discharge of the applicant is in compliance with the prohibitions and limitations of Articles 5.17 and 5.18 of these Rules and Regulations;
- (b) The proposed discharge of the applicant would permit the normal and efficient operation of the wastewater treatment system; and
- (c) The proposed discharge of the applicant would not result in a violation by the Corporation of the terms and conditions of its AZPDES Permit.

If the Corporation finds that the condition set out in Paragraph 1 of this Subsection is not met, the Corporation may issue a Wastewater Contribution Permit to the applicant if the conditions set out in Paragraphs 2 and 3 of this Subsection are met and if the applicant submits, and the Corporation approves, a schedule setting out the measures to be taken by the applicant and the dates that such measures will be implemented to ensure compliance with the provisions of these Rules and Regulations.

5.8.4 Permit Denial:

Appeal and Hearing. In the event an application for a Wastewater Contribution Permit is denied, the Corporation shall notify the applicant in writing of such denial. Such notification shall state the grounds for denial with that degree of specificity which will inform the applicant of the measures or actions which must be taken by the applicant prior to issuance of a permit.

An applicant denied a Wastewater Contribution Permit may request that the Corporation Manager review the denial and issue a permit. If the Corporation Manager reaffirms the denial, the applicant may appeal this decision pursuant to the terms and conditions of the Corporation's appeal and hearing procedure as set forth in these Rules and Regulations.

5.8.5 Permit Conditions:

Wastewater Contribution Permits shall be expressly subject to all provisions of these Rules and Regulations. Permits will contain, at a minimum, the following:

- (a) A statement of duration (in no case more than five (5) years).
- (b) A statement of non-transferability without, at a minimum, prior notification to the Corporation and provision of a copy of the existing permit to the new Customer or operator.
- (c) Effluent limits based on applicable Pretreatment Standards, Categorical Pretreatment Standards, specific discharge limitations, as cited in these Rules and Regulations, site-specific discharge limitations, and other federal, state and local law and regulations.
- (d) Self-monitoring, sampling, reporting, notification, and record keeping requirements, including an identification of the pollutants to be monitored, sampling locations, sampling frequencies, and sample types. These requirements shall be based on applicable general pretreatment standards and requirements at 40 CFR §403; categorical pretreatment standards; specific discharge limitations; State and local law and regulations; and Corporation determinations as to the type, quantity, quality, and frequency of information needed to adequately determine compliance with conditions of the permit.
- (e) A statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedules. Such schedules may not extend compliance dates beyond federal deadlines.
- (f) Permits may also contain the following:
 - 1. A Schedule Of User Charges and Fees pursuant to Article 5.12 of these Rules and Regulations.
 - 2. Limits on average and maximum rate and time of discharge or requirements for flow regulation and equalization.
 - 3. Requirements for installation and maintenance of inspection and sampling facilities.
 - 4. Requirements for notification to the Corporation of any new introduction of wastewater constituents or any substantial change in operations or in the volume or character of the wastewater constituents being introduced into the Corporation's Wastewater System.
 - 5. Requirements for notification of slug discharges.
 - 6. Other conditions as deemed appropriate by the Corporation to ensure compliance with these Rules and Regulations.

5.8.6 Permit Modifications:

- (a) The terms and conditions of a Wastewater Contribution Permit may be modified by the Corporation during the term of the permit as limitations or requirements as identified in these Rules and Regulations are modified or other just cause exists. The User shall be informed of any proposed changes in his permit at least thirty (30) days prior to the effective date of change. Any changes or new conditions in the permit shall include a reasonable time schedule for compliance.
- (b) Within nine (9) months of the promulgation of a national categorical pretreatment standard, the Wastewater Contribution Permit of Users subject to such standard shall be revised to require compliance with such standard within the time frame prescribed by such standard.

5.8.7 Permit Duration;

Reapplication: Permits shall be issued for a specified time period, not to exceed five (5) years. The User shall apply for permit reissuance a minimum of ninety (90) days prior to the expiration of the User's existing Permit.

5.9 Reporting Requirements For Significant Industrial Users.

5.9.1 Initial Compliance Report For Users Subject To National Categorical Pretreatment Standards:

Within ninety (90) days following the date for final compliance with applicable Pretreatment Standards or, in the case of a new source, following commencement of the introduction of wastewater into the Corporation's Wastewater System, or as specified in the wastewater discharge permit, any User subject to Pretreatment Standards and requirements shall submit to the Corporation a report indicating the nature and concentration of all pollutants in the discharge from the regulated processes which are limited by the Pretreatment Standards and requirements and the average and maximum daily flow for those process units in the User's facility which are limited by such Pretreatment Standards or requirements.

Where applicable Pretreatment Standards contain limitations on the mass of pollutants discharged per unit of production, the report shall also contain the pollutant mass and production information necessary to determine compliance with such Pretreatment Standards.

The report shall state whether the applicable Pretreatment Standards and Requirements are being met on a consistent basis and, if not, what additional O&M and/or pretreatment is necessary to bring the User into compliance with the applicable Pretreatment Standards or Requirements. This statement shall be signed by an authorized representative of the Industrial User, and certified to by a qualified professional.

5.9.2 Periodic Compliance Reports:

- (a) Any User subject to a National Categorical Pretreatment Standard, after the compliance date of such Pretreatment Standard, or, in the case of a new source, after commencement of the discharge into the Corporation's Wastewater System, shall submit to the Corporation during the months of July and January, unless required more frequently in the pretreatment standard or by the Corporation, a report covering the preceding six (6) months and indicating the nature and concentration of pollutants in the effluent which are limited by such pretreatment standards. In addition, this report shall include a record of average and maximum daily flows for the reporting period for all regulated processes.
- (b) Where applicable Pretreatment Standards contain limitations on the mass of pollutants discharged per unit of production, the report shall also contain the pollutant mass and production information necessary to determine compliance with such pretreatment standards. At the discretion of the Corporation and in consideration of such factors as local high or low flow rates, holidays, and budget cycles, the Corporation may agree to alter the months during which the above reports are to be submitted.
- (c) Significant Industrial Users not subject to National Categorical Pretreatment Standards shall submit to the Corporation at least once every six (6) months (on dates specified by the Corporation), unless required more frequently by the Corporation, a description of the nature, pollutant concentrations, flows, and, where requested, pollutant masses, of the discharges required to be reported by the Corporation.
- (d) All reports submitted pursuant to this section shall be based on analyses performed in accordance with procedures established by the EPA Administrator pursuant to Article 304(g) of the act and contained in 40 CFR, Part 136 and amendments thereto or with any other test procedures approved by the EPA Administrator. Sampling shall be performed in accordance with the techniques approved by the administrator.

5.10 Monitoring Corporation Facilities.

The Corporation may require to be provided and operated at the User's own expense, monitoring facilities to allow inspection, sampling, and flow measurement of any discharges as necessary to determine compliance with the provisions of these Rules and Regulations.

There shall be ample room in or near such sampling manhole or facility to allow accurate sampling and preparation of samples for analysis. The facility, sampling, and measuring equipment shall be maintained at all times in a safe and proper operating condition at the expense of the User.

The sampling and monitoring facilities shall be provided in accordance with the Corporation's requirements and all applicable local construction standards and specifications. Construction shall be completed within such a time frame as the Corporation shall specify by written notification.

5.11 Information Submittal, Inspection and Sampling.

The Corporation may require any User to submit information as necessary to determine compliance with the requirements of these Rules and Regulations.

The Corporation may inspect the facilities of any User to ascertain whether the requirements of these Rules and Regulations are being complied with. Persons or occupants of premises where wastewater is created or discharged shall allow the Corporation or its representatives ready access at all reasonable times to all parts of the premises for the purposes of inspection, sampling, records examination and copying, or in the performance of any of their duties.

The Corporation, Maricopa County, the Arizona Department of Environmental Quality, and EPA shall have the right to set up on the User's property such devices as are necessary to conduct sampling, inspection, compliance monitoring and/or metering operations. Where a User has security measures in force which would require proper identification and clearance before entry into the User's premises, the User shall make necessary arrangements with security guards so that upon presentation of suitable identification, personnel from the Corporation, the Arizona Department of Environmental Quality, and EPA will be permitted to enter, without delay, for the purposes of performing their specific responsibilities.

All records relating to compliance with pretreatment standards and requirements shall be made available to officials of the Corporation, the Arizona Department of Environmental Quality, and EPA upon request.

5.12 Wastewater Treatment.

Users shall provide wastewater treatment as required to comply with the requirements of these Rules and Regulations, and shall achieve compliance with all national categorical pretreatment standards within the time limitations as specified by the federal pretreatment regulations. Any facilities required to pretreat wastewater to a level acceptable to the Corporation shall be provided, operated, and maintained at the User's expense.

PART B
RULES AND REGULATIONS FOR SERVICE PROVIDER USE
OF CORPORATION WASTEWATER SYSTEM

5.13 Applicability.

Any Service Provider, the sewage from which directly or indirectly enters the Wastewater System of the Corporation from areas within or without the boundaries or Service Area of the Corporation, shall be subject to the requirements of this Part and shall be bound by these Rules and Regulations as they now exist or may hereafter be amended.

All Service Providers are required to design and administer Pretreatment Industrial Waste Control Programs which are in accordance with this Article 5, and which will enable the Corporation to comply with all pretreatment and effluent limitation conditions of its National Pollutant Discharge Elimination System (AZPDES) Permit, Federal Pretreatment Regulations, and applicable sludge disposal regulations.

5.14 Compliance with Requirements.

Each Service Provider will cause all sewage at any time discharged directly or indirectly into its sewer system, or into the Corporation Wastewater System by it or on its behalf, to comply with any requirements of the Corporation. In all cases where the application or the enforcement of said requirements involve technical or scientific analyses or determinations, the Corporation shall have final authority as to methods, standards, criteria, significance, evaluation, and interpretation of such analyses and determinations. Each Service Provider will permit no new connections and will discontinue existing public connections and will require the discontinuance of existing private connections to its sewer system which allow entrance therein of such sewage as will cause the discharge at any time into its sewer system, or into the Corporation Wastewater System from such sewer system of sewage that does not comply with said requirements of the Corporation.

The Corporation may from time to time make a determination of the respects in which sewage discharged or to be discharged into the sewer system of a Service Provider, or into the Corporation Wastewater System by any Service Provider, is not in compliance with said requirements and with the amendments thereof, if any, then in effect. A copy of said determination shall be mailed to the Service Provider at its usual place of business and for all purposes of these Rules and Regulations shall be conclusively deemed to have been made in accordance with this section and to be correct at the expiration of thirty (30) days after such mailing unless within said period of thirty (30) days the Service Provider shall have filed with the Corporation an objection thereto stating that such determination is incorrect and stating the changes therein which should be made in order to correct such determination.

5.15 Program Procedure Requirements.

5.15.1 General:

Each Service Provider must formulate, fund, and implement procedures which will enable Corporation compliance with the "Procedures" and "Funding" requirements contained in 40 CFR §403.8(f)(2) and (3) of the Federal Pretreatment Regulations, and which will enable Service Provider compliance with the requirements of these Rules and Regulations.

5.15.2 Procedures Manual:

The Corporation shall issue to all Service Providers a manual on Procedures for Implementing the Pretreatment/Industrial Waste Control Program of the Corporation (Procedures Manual). The Procedures Manual shall set forth Corporation requirements on formulating, funding, and implementing Pretreatment/Industrial Waste Control Program procedures, and shall provide guidance to Service Providers on implementing the procedural requirements.

Where necessary to maintain continued compliance with applicable federal and state regulations, or these Rules and Regulations, or to facilitate the operation of the Pretreatment/Industrial Waste Control Program, the Corporation may from time to time amend the Procedures Manual, and shall provide notice of such amendments to all Service Providers.

The following subsections highlight the procedural requirements that will be more fully presented in the Procedures Manual to be adopted by the Corporation.

5.15.3 Industrial Waste Survey:

Each Service Provider shall formulate and implement procedures for conducting ongoing, comprehensive industrial waste surveys to locate and identify all Significant Industrial Users discharging to the Service Provider's sewer system.

5.15.4 Notification to Industrial Users:

Each Service Provider is responsible for notifying its Industrial Users of their obligations under the Pretreatment/Industrial Waste Control Program.

5.15.5 Permitting of Significant Industrial Users:

Each Service Provider shall control, through permits, industrial waste discharges from each Significant Industrial User within its service area.

The Corporation shall make the final determination as to whether a particular Industrial User is a Significant Industrial User. To this end, the Corporation may require that a Service Provider collect and forward to the Corporation all information necessary to make this determination.

In the event that a Service Provider fails to issue a suitable permit to a Significant Industrial User upon notification to do so by the Corporation, the Corporation shall deny service to the Significant Industrial User, and may impose conditions upon the Service Provider to take such steps as are necessary to provide such service.

5.15.6 Monitoring of Industrial Users:

Each Service Provider must sample, monitor, and inspect its Significant Industrial Users, and where appropriate, require industrial self-monitoring, at a frequency adequate to determine if such Users are in compliance with applicable Pretreatment/Industrial Waste Control Program Standards and Requirements.

5.15.7 Slug Discharge Determinations:

Each Service Provider must evaluate, at least every two (2) years, whether each Significant Industrial User needs a plan to control slug discharges. If needed, the Slug Control Plan must contain the minimum elements listed at 40 CFR §403.8(f)(2)(v).

5.15.8 Compliance Activities:

Each Service Provider is required to implement procedures for identifying violators of Pretreatment/Industrial Waste Control Program Standards and Requirements, and to diligently enforce such Standards and Requirements and provide suitable remedies for non-compliance.

5.15.9 Industrial User Reporting/Confidentiality:

Each Service Provider is required to receive and analyze self-monitoring reports and any other notices submitted by Industrial Users pursuant to the requirements of the Pretreatment/Industrial Waste Control Program. Where an Industrial User claims confidentiality for any information transmitted, the Service Provider must implement procedures to ensure that confidential information is treated in accordance with the procedures in 40 CFR Part 2 and/or 5 CCR 1002-63.

5.15.10 Public Participation:

- (a) Each Service Provider must comply with the public participation requirements of 40 CFR Part 25 in the enforcement of National Pretreatment Standards.
- (b) Each Service Provider must make all information collected under the Pretreatment/Industrial Waste Control Program, except those documents

legitimately classified as "confidential," available for public review and copying to the extent required by 40 CFR §403.14 and the ARS, Title 39 (Public Records, Printing, and Notices).

- (c) The Corporation will publish an annual notice in the newspaper with the largest daily circulation within the Corporation, a list of Users that were found to be in significant noncompliance during the previous year with Pretreatment Standards or other Pretreatment Requirements. For the purposes of this provision, "significant noncompliance" is as defined at 40 CFR §403.8(f)(2)(vii).

5.15.11 Information Transmittal:

Each Service Provider shall transmit to the Corporation, in a timely manner, all documents as necessary to enable the Corporation to effectively administer the Pretreatment/Industrial Waste Control Program. Such documents shall include:

- (a) A certified copy of the Industrial Waste Discharge Ordinance or Resolution, and any amendments thereto, together with any Rules and Regulations issued pursuant to such ordinance or resolution.
- (b) Copies of all Industrial Waste permits and contracts issued or entered into pursuant to the requirements of the Pretreatment/Industrial Waste Control Program.
- (c) Copies of all industrial survey, monitoring, and inspection reports.
- (d) Any information needed to enable the Corporation to determine whether a particular Industrial User is subject to a particular Categorical Standard.
- (e) Notices of all compliance and enforcement activities, and all related correspondence.
- (f) An annual staffing, costs, and funding report, if requested by the Corporation Manager.

5.15.12 Staffing, Costs, and Funding:

Each Service Provider must provide sufficient resources and qualified personnel to carry out its responsibilities under the Pretreatment/Industrial Waste Control Program. Upon request of the Corporation, a Service Provider must submit to the Corporation a report describing personnel responsibilities, an itemization of program capital and operating costs, and a demonstration that adequate funds are available to support program activities.

5.16 Exemptions.

A Service Provider administering a Pretreatment Program, separate from that of the Corporation, which has been approved by the Regional Administrator of EPA or the Arizona Department of Environmental Quality in accordance with §403.11 of the Federal Pretreatment Regulations, may be exempted from compliance with certain

provisions of this Article 5, as determined by the Corporation.

5.17 Program Review.

The Corporation shall review Municipal ordinances or other Service Provider resolutions, measures, guidelines, or regulations, and amendments thereof, for conformance to 40 CFR §403.8(f)(1) Pretreatment Requirements for minimum legal authorities and for the inclusion of all other legal provisions mandated by these Rules and Regulations. The Corporation shall periodically review the enforcement efforts of Service Providers to ascertain whether Pretreatment/Industrial Waste Control Requirements and Standards are being diligently enforced at the local level.

Insofar as a Service Provider administers the Pretreatment/Industrial Waste Control Program, the Corporation shall periodically review the Service Provider's procedures, including, but not limited to, procedures for updating the industrial waste survey, and for inspecting, sampling, and monitoring industrial waste discharges, to ensure that each such Service Provider is administering the Program in technical conformance to "Procedures" and "Funding" requirements under 40 CFR §403.8(f)(2) and (3) of the Federal Pretreatment Regulations and to the provisions of these Rules and Regulations. Any significant Program changes shall be subject to Corporation approval.

5.18 Remedies.

5.18.1 Emergency Remedies:

Where a discharge to the Wastewater System reasonably appears to present an imminent endangerment to the health or welfare of persons, or presents or may present an endangerment to the environment, or threatens to interfere with the operation of the Corporation, the Corporation shall immediately initiate investigative procedures to identify the source of the discharge, and take any steps necessary to halt or prevent the discharge. If necessary, the Corporation shall seek injunctive relief against the violating Service Provider and any User contributing significantly to the emergency condition.

5.18.2 Routine Remedies:

If the Corporation determines that a Pretreatment/Industrial Waste Control Program as administered by a Service Provider is not in compliance with Pretreatment/Industrial Waste Control Requirements, or that the discharge from a Service Provider is not in compliance with Corporation Standards, the Corporation shall issue a notice setting forth the Requirements and Standards not being complied with and directing the Service Provider to attain conformance to these Requirements and Standards within a period of ten (10) days.

If after ten (10) days, the Service Provider has failed or refuses to comply with this notice, the Corporation may issue an additional notice setting forth remedial actions to be taken by the violating Service Provider and a time schedule for attaining compliance

with all Pretreatment/ Industrial Waste Control Requirements and Standards. If after thirty (30) days notice, the violating Service Provider has not taken necessary steps to correct the violation, the Corporation may assume in whole or in part Pretreatment/Industrial Waste Control Program responsibilities in lieu of the violating Service Provider. The Corporation may continue in this capacity until the violating Service Provider agrees to the original terms of the notice and any additional terms which the Corporation feels are necessary to ensure ongoing compliance by the Service Provider with all Pretreatment/ Industrial Waste Control Requirements and Standards. The Service Provider shall be liable for all costs associated with the Corporation's assumption of responsibilities on behalf of the Service Provider and the Corporation may recover such costs in any manner permitted by law.

5.19 Program Preemption.

Where the Corporation preempts a Service Provider in the execution of Pretreatment/Industrial Waste Control Program responsibilities, the Corporation shall directly enforce Federal Pretreatment Standards, including Categorical Standards, and the provisions of Article 5 of these Rules and Regulations against the Industrial Users located within the service area of the Service Provider. The Corporation may request that all industrial self-monitoring reports, including those required under 40 CFR §403.12, be conveyed directly to the Corporation. Moreover, the Corporation shall carry out all inspection and sampling activities necessary to monitor compliance with Pretreatment/Industrial Waste Control Standards and Requirements. Where Program preemption occurs, the Corporation shall have the right to seek injunctive relief against the Service Provider and any Industrial User in order to obtain full compliance with Pretreatment/Industrial Waste Control Standards and Requirements. The Corporation shall bill and the Service Provider shall be liable for costs incurred by the Corporation in conjunction with the administration of the Program in lieu of the Service Provider, and the Corporation may recover such costs, including attorney fees and costs, in any manner permitted by law.

The Corporation shall have the right to require the cessation of any industrial wastewater discharge in violation of Pretreatment/Industrial Waste Control Standards and Requirements. Where the Corporation finds an Industrial User to be in violation of any Pretreatment/Industrial Waste Control Standard or Requirement, the Corporation may require the Industrial User to enter into a bilateral contract with the Corporation containing any conditions, including conditions relating to the installment of pretreatment or monitoring facilities, necessary to ensure compliance with Pretreatment/Industrial Waste Control Standards and Requirements. At the discretion of the Corporation, these conditions may be incorporated into the municipal industrial waste discharge permit or Agreement once Program responsibilities are returned to the Service Provider.

5.20 Program Delegation.

Any Service Provider may enter into an Agreement with the Corporation providing the Corporation with the legal authority to carry out technical and administrative procedures

necessary to implement the Pretreatment/ Industrial Waste Control Program at the local level. These procedures may include, among others, updating the industrial waste survey, providing technical services relating to the issuance and review of industrial waste discharge permits, inspecting and monitoring industrial waste discharges, waste discharge facilities and operations of permittees, and providing technical assistance for local enforcement actions. Where Program delegation occurs, the delegation agreement shall contain provisions for the Corporation to recover the costs, including attorney fees and costs, incurred by the Corporation in conjunction with the administration of the Program on behalf of the Service Provider.

5.21 Corporation Monitoring.

For the purpose of determining the quantity, quality, and other characteristics of any sewage which shall be or may be delivered and discharged into the Wastewater System by a Service Provider, or into the system of a Service Provider by any User, the Corporation shall have the right at all reasonable times to enter upon and to inspect the Service Provider's system or any industrial or commercial installations connected thereto or any other connections which contribute sewage or Wastewater to the Service Provider's system and to inspect and copy records, to take samples and to make tests, measurements, and analyses of sewage or other wastes in, entering, or to be discharged into such Service Provider's system.

5.22 Specific Discharge Limitations for Service Providers.

No Service Provider shall discharge to the Wastewater System at any time or over any period of time wastewater containing any of the materials and substances in excess of the limitations provided under section 5.3.

Company: Liberty Utilities (Litchfield Park Water & Sewer) Corp. Decision No.: _____

Phone: _____

Effective Date: _____

PRE-TREATMENT TARIFF

PURPOSE

The purpose of this tariff is to enable **Liberty Utilities (Litchfield Park Water & Sewer) Corp.** ("Corporation") to set forth certain waste limitations and pretreatment standards that apply based on the class of commercial/industrial customer served by the Corporation's Palm Valley Water Reclamation Facilities, located in Goodyear, Arizona. Customer classes include dental offices, dry cleaners, food service establishments, photo imaging operations, RV Parks and pretreatment for industrial wastes. This tariff will govern the type and quality of waste discharged into the Corporation's wastewater collection system and treated at its wastewater treatment facilities.

This tariff incorporates pretreatment standards consistent with the Cities of Scottsdale, Mesa and Phoenix guidelines, which meet applicable Federal and State standards. In addition, the Corporation has a Code of Practice guideline attached to this tariff.

REQUIREMENTS

The requirements to be in compliance with the Rules of the Arizona Corporation Commission ("Commission"), specifically A.A.C. R14-2-603, 605, 607, and 609, the above pretreatment standards and guideline that governs this tariff are as follows:

1. Any customer disposing of industrial waste considered as hazardous under this tariff shall notify the Corporation in writing of any discharge into the Corporation's collection system. The specific information for the reporting and time-frame requirement to be submitted to the Corporation is 180 days per 40 CFR §403.12 (p)
2. The Corporation may require monitoring equipment facilities, at the customer's expense, to allow inspection, sampling, and flow measurement of any discharges as necessary to determine compliance with this tariff.
3. Subject to the provisions of A.A.C. R14-2-603, 607 and 609, the Corporation may terminate service or may deny service to a customer who fails to meet the pretreatment standards or to permit the inspecting and sampling of any discharge as required by this tariff.

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DECISION NO. 76799

Company: Liberty Utilities (Litchfield Park Water & Sewer) Corp. Decision No.: _____

Phone: _____

Effective Date: _____

4. The Corporation may suspend wastewater treatment service, in accordance with A.A.C. R14-2-609.B (without notice), when such suspension is necessary, in the opinion of the Corporation, in order to stop an actual or threatened discharge which presents or may present an imminent or substantial endangerment to the health or welfare of persons, to the environment, or causes the Corporation to violate any condition of its aquifer protection permit.
5. The Corporation shall give any new customer who is required to meet the pretreatment standards written notice of said requirement and shall be given a complete copy of this tariff and all attachments.
6. Any existing customer found to be in violation of this tariff shall be given written notice of such violation and a complete copy of this tariff with all attachments. If A.A.C. R14-2-609.B.1. is **not** applicable the customer shall be given thirty (30) days from the time such written notice is received to comply with this notice. If the customer can show good cause as to why the pretreatment standards cannot be met within thirty (30) days, the Corporation may allow, at its sole discretion the customer an additional thirty (30) days to have the pretreatment standards met.
7. Consistent with the provisions of A.C.C. R14-2-607.B.1 and 2, each customer shall be responsible for maintaining and safeguarding all Corporation property installed on the customer's premises for the purpose of supplying utility service to that customer.

Attachment – Corporation's Code of Practice Guideline (22 page)

Websites:

Arizona Administrative Code (A.A.C.) Title 18, Article 9

www.azsos.gov/public_services/table_of_contents.htm

City of Phoenix:

www.municode.com/content/3849/13485/HTML/ch028.html

Code of Federal Register:

www.epa.gov/lawsregs/search/40cfr.html

APPROVED FOR FILING DECISION NO. 76799



Fats Oils and Grease (FOG)

Fats, Oils and Grease (FOG) discharged into the sanitary sewer by commercial or industrial users can cause a number of problems in the sewer system. Grease and oil have poor solubility and tend to separate from the aqueous phase. Although this characteristic is advantageous in facilitating the separation of oil and grease in pretreatment devices such as grease traps and interceptors, it complicates the transportation of wastes in the sewer and can complicate treatment and disposal at the wastewater treatment plant.

FOG in wastewater from food service facilities can result in decreased carrying capacity of sewers due to congealed, cooled grease which coats the inside of the pipes. Once a pipe becomes constricted, the potential for a stoppage increases. Stoppages can and will eventually cause sanitary sewer overflows. In order to ensure efficient sewage treatment, protect the sewer system and protect public health, Liberty Utilities has established the following requirements for all commercial business accounts:

General Requirement

Any type of business where oil and grease may be discharged into a public sewer shall have an interceptor/trap. The interceptor or trap shall be of a type and capacity approved by Liberty Utilities.

- a) Each interceptor or trap shall be accessible at all times for inspection, cleaning and removal of grease and other material. Interceptors or traps installed outside of the building shall be constructed in such a manner so as to exclude the entrance of surface water and storm water.
- b) The interceptor or trap shall be situated on the User's premises. Operation and maintenance of the interceptor/trap is the sole responsibility of the commercial sewer account.
- c) Building repair or remodels permitted for use requiring interceptors/traps shall be subject to these regulations.
- d) Waste discharges from fixtures, including but not limited to, scullery sinks, pot and pan sinks, mop sinks, soup kettles and floor drains shall be drained into the sanitary sewer through an interceptor/trap. Toilets, urinals, and other similar fixtures shall not drain through the interceptor/trap.
- e) Interceptor/traps shall be maintained in efficient operating condition. At minimum, grease traps must be **cleaned monthly** or as deemed necessary by the Pretreatment Inspector. The use of chemicals, bacteria, or other agents to dissolve grease or otherwise clean grease interceptors/traps is specifically prohibited. No such grease shall be introduced into any drainage piping leaving the premises by public or private sewer.
- f) Large capacity concrete type interceptors (500-gallon capacity or greater) shall have a suitable box to provide access for collection of wastewater samples. Large interceptors **must be serviced every three (3) months** or as deemed necessary by the Pretreatment Inspector.
- g) Each appliance connected to a pre-cast under sink type grease trap shall have a flow device installed. No dishwashers may be connected to these types of grease traps.
- h) A record of grease trap cleaning or copies of grease interceptor servicing (waste disposal manifest) must be maintained for the previous twelve month period on-site and a copy sent to the following fax or email address below.



Liberty Utilities

ORIGINAL

**PLEASE E-MAIL OR FAX ALL NEW OR UPDATED MANIFESTS TO THE INFORMATION LISTED
BELOW**

Liberty Utilities Pretreatment

Attn: Daniel Romo

Phone: 623-302-0191

Fax: 623-935-3008

Email: Daniel.romo@libertyutilities.com

Applies to all **WATER** and **WASTEWATER** service areas

PART EIGHT

ALTERNATE RATES FOR WATER AND WASTEWATER (ARWW)
DOMESTIC SERVICE - SINGLE FAMILY ACCOMMODATION

APPLICABILITY

Applicable to residential water and wastewater service for domestic use rendered to low-income households where the customer meets all the program qualifications and special conditions of this rate schedule. Acceptance into the program is subject to verification of income source.

TERRITORY

Within all customer service areas served by Liberty Utilities (Litchfield Park Water & Sewer) Corp. ("Liberty Utilities").

RATES

Thirty percent (30%) discount applied to the regular filed tariff.

PROGRAM QUALIFICATIONS

1. The Liberty Utilities bill must be in your name and the address must be your primary residence or you must be a tenant receiving water service by a sub-metered system.
2. You may not be claimed as a dependent on another person's tax return.
3. You must reapply each time you move residences.
4. You must renew your application once every two (2) years, or sooner, if requested.
5. You must recertify each year by submitting a declaration attesting to your continuing eligibility, and provide one of the following items as proof of eligibility: 1) copy of tax return from prior year (proof of gross income); or 2) copy of complete W2 form with gross income calculation from prior year; or 3) copy of welfare / current eligibility letter for food stamps (dated).
6. You must notify Liberty Utilities within thirty (30) days if you become ineligible for ARWW.
7. Your total gross annual income of all persons living in your household cannot exceed the income levels below:

Applies to all **WATER** and **WASTEWATER** service areas

PART EIGHT

ALTERNATE RATES FOR WATER AND WASTEWATER (ARWW)
DOMESTIC SERVICE - SINGLE FAMILY ACCOMMODATION

Effective August 1, 2018

<u>No. of Person in Household</u>	<u>Total Gross Annual Income*</u>
1	\$18,210
2	\$24,690
3	\$31,170
4	\$37,650
5	\$44,130
6	\$50,610

For each additional person residing in the household, add \$6,480

***Qualifying annual incomes are set at 150 percent of the 2018 federal poverty levels.**

For the purpose of the program the “gross household income” means all money and non cash benefits, available for living expenses, from all sources, both taxable and non taxable, before deductions for all people who live in your home. This includes, but is not limited to:

Wages or salaries	Social Security, SSI, SSP	Rental or royalty income
Interest or dividends from:	Scholarships, grants, or other aid	Profit from self-employment
Savings account, stocks or bonds	used for living expenses	(IRS form Schedule C, Line 29)
Unemployment benefits	Disability payments	Worker’s Compensation
TANF (AFDC)	Food Stamps	Child Support
Pensions	Insurance settlements	Spousal Support
Gifts		

Issued: August 9, 2018

Effective: August 1, 2018

ISSUED BY:
Matthew Garlick, President
Liberty Utilities (Litchfield Park Water & Sewer) Corp.
12725 W. Indian School Road, Suite D-101
Avondale, AZ 85392
Decision No. XXXXX

APPROVED FOR FILING
DECISION NO. 76799

Applies to all WATER and WASTEWATER service areas

PART EIGHT

ALTERNATE RATES FOR WATER AND WASTEWATER (ARWW)
DOMESTIC SERVICE - SINGLE FAMILY ACCOMMODATION

SPECIAL CONDITIONS

1. Application: An application on a form authorized by the Commission is required for each request for service under this schedule. A customer must reapply every two (2) years.
2. Recertification: A customer enrolled in the ARWW program must, each year, recertify by submitting a declaration attesting to continuing eligibility, and provide one of the following items as proof of eligibility: 1) copy of tax return from prior year (proof of gross income); or 2) copy of complete W2 form with gross income calculation from prior year; or 3) copy of welfare / current eligibility letter for food stamps (dated).
3. Commencement of Rate: Eligible customers whose applications have been approved shall be billed on this schedule commencing with the next regularly scheduled billing period that follows receipt of application by Liberty Utilities.
4. Verification: Information provided by the applicant is subject to verification by Liberty Utilities. Refusal or failure of a customer to provide documentation of eligibility acceptable to Liberty Utilities, upon request by Liberty Utilities, shall result in removal from this rate schedule.
5. Notice from Customer: It is the customer's responsibility to notify Liberty Utilities if there is a change of eligibility status.
6. Rebilling: Customers may be re-billed retroactively for periods of ineligibility under the applicable rate schedule.
7. Master-metered: A reduction will be calculated in the bill of master-metered customers, who have sub-metered tenants that meet the income eligibility criteria, so an equivalent discount (30%) can be passed through to eligible customer(s).
8. Participation Cap: The ARWW program is limited to 5,000 water division customers and 5,000 wastewater division customers. Applications will be reviewed and approved on a first come, first served basis. Applicants will be placed on a waiting list if the participation cap has been met.

Applies to all WATER and WASTEWATER service areas

PART EIGHT

**ALTERNATE RATES FOR WATER AND WASTEWATER (ARWW)
DOMESTIC SERVICE - SINGLE FAMILY ACCOMMODATION**

RECOVERY OF COST OF LOW INCOME TARIFF AND CUSTOMER SURCHARGES

Under the terms of Company's Alternate Rates for Water and Wastewater (ARWW) Domestic Service, qualifying low-income customers receive a 30 percent discount applied to the Company's regular filed tariff rates for water and wastewater service. The cost of the ARWW tariff shall be recovered by Company from a monthly low income tariff surcharge on all residential and non-residential water and wastewater customers who are not participating in the ARWW program. Specifically, Company is entitled to seek recovery of direct costs (*i.e.*, those costs directly associated with the program, and would not be incurred in the absence of the program). Company shall account for those direct costs separately from other operating costs.

Company shall be entitled to implement a low income tariff surcharge on non-participating residential and non-residential water and wastewater customers as follows.

- For customers participating in ARWW, the Company shall maintain separate balancing accounts for water and wastewater customers detailing the beginning and ending balance of the cumulative unrecovered program costs each month.
- Company's authorized rate of return shall be applied monthly to the average of the beginning balances of the cumulative unrecovered program costs for water and wastewater service and included in the beginning balances for the following month.
- Using the separate balancing accounts for water and wastewater customers, Company shall calculate separate monthly surcharges for water and wastewater customers. The water and wastewater surcharges shall be calculated as follows:

Water:

(Ending Balance for Low-Income Tariff Balancing Account including amortized carrying costs during recovery period / Total gallons sold to non-participating customers)

Wastewater:

(Ending Balance for Low-Income Tariff Balancing Account including amortized carrying costs during recovery period / Number of active non-participating wastewater connections at year end) / 12

- The ending balance in the balancing accounts shall equal the beginning balances plus discounts allowed on bills for the twelve month tracking period, plus direct program costs incurred in the twelve month period plus carrying charges less surcharge fees billed in the twelve month tracking period.
- Company shall implement monthly water and wastewater surcharges for the ARWW program for each twelve month period of the ARWW Program. Company shall calculate the monthly water and wastewater surcharges each year based on the active number of water and wastewater connections for each respective system as of December 31 of the prior year. Company shall file notice of the water and wastewater surcharges, along with a report on the ARWW Program, with the Arizona Corporation Commission on or before January 31 and the surcharges shall be implemented on customer bills in February of each year with the recovery period ending in January of the following year.

Issued: August 9, 2018

Effective: August 1, 2018

ISSUED BY:

Mathew Garlick, President
Liberty Utilities (Litchfield Park Water & Sewer) Corp.
12725 W. Indian School Road, Suite D-101
Avondale, AZ 85392
Decision No. XXXXX

APPROVED FOR FILING
DECISION NO. 76799

Application for Alternate Rates for Water and Wastewater (ARWW)

To qualify for Liberty Utilities ARWW please check (✓) all that apply:

- I am a Liberty Utilities residential customer and the Liberty Utilities account is in my name.
- I am a sub-metered tenant within the Liberty Utilities service area.
- My household income is at or below the income level in the listing below.

Household Size	Total Gross Annual Income from All Sources
1	\$18,210
2	\$24,690
3	\$31,170
4	\$37,650
5	\$44,130
6	\$50,610

For each additional person residing in the household, add \$6,480.

The definition of "gross household income" (before taxes) is all money and non cash benefits available for living expenses from all sources, both taxable and non taxable, before deductions, including expenses, for all people who live in your home. **This includes, but is not limited to the following (please check (✓) all that apply):**

- | | |
|--|--|
| <input type="checkbox"/> Wages, salaries or profit from self-employment | <input type="checkbox"/> Social Security, SSI or SSP |
| <input type="checkbox"/> Disability and/or Workers' Compensation payments | <input type="checkbox"/> Food Stamps |
| <input type="checkbox"/> Insurance and/or legal settlements | <input type="checkbox"/> TANF (AFDC) |
| <input type="checkbox"/> Pensions | <input type="checkbox"/> Veterans Affairs benefits |
| <input type="checkbox"/> Spousal and/or child support | <input type="checkbox"/> Unemployment benefits |
| <input type="checkbox"/> Scholarships, grants, or other aid used for living | <input type="checkbox"/> Rental and/or royalty income |
| <input type="checkbox"/> Interest/dividends from: savings, stocks, bonds, or retirement accounts | <input type="checkbox"/> Cash, gifts and/or other income |

Please print the following information. **Incomplete information will delay your discount.** The name used to apply for the discount must be the same as the name on the Liberty Utilities statement.

PLEASE PRINT LEGIBLY											
Liberty Utilities Account Number (As shown on statement)											
Total No. of persons living in household:			Household's Total Gross Annual Income: \$				Contact Phone Number				
Name as shown on Liberty Utilities statement											
Liberty Utilities Service Address											
City			State				Zip Code				

Please attach one of the items listed as proof of income for eligibility verification: Copy of tax return from prior year (proof of gross income), or copy of complete W2 form with gross income calculation from prior year, or copy of welfare /current eligibility letter for food stamps (dated).

By signing below, I certify under penalty of perjury that this information is true and correct under the laws of the State of Arizona. I will provide proof of income and I will notify Liberty Utilities of any changes that affect my eligibility. I further authorize Liberty Utilities to verify source of income provided above. I understand that if I receive the discount without meeting the qualifications for it, I may be required to pay back the discount I received.

Customer Signature _____

Date _____

Note: An Application for ARWW must be submitted every two years. A Declaration of Eligibility must be submitted annually for verification. Please allow 30-45 days for processing.

Office Use Only: Date Verified _____ Verified By _____ Expires _____

Issued: August 9, 2018

Effective: August 1, 2018

ISSUED BY:
Matthew Garlick, President
Liberty Utilities (Litchfield Park Water & Sewer) Corp.
12725 W. Indian School Road, Suite D-101
Avondale, AZ 85392
Decision No. XXXXX

APPROVED FOR FILING
DECISION NO. 76799

**Declaration of Eligibility
Alternate Rates for Water and Wastewater (ARWW)**

To recertify enrollment in the ARWW Program please fill out the following attesting to continuing eligibility:

PLEASE PRINT LEGIBLY											
Name as shown on Liberty Utilities statement											
Liberty Utilities Account Number (As shown on statement)											
Liberty Utilities Service Address											
City				State				Zip Code			
Contact Phone Number						Work Phone Number					

I,

Your Name (Please Print)

Last submitted an Application for Alternative Rates (ARWW)
on _____
(dd/mm/yyyy)

and hereby confirm my eligibility for the year ending _____
(dd/mm/yyyy)

Please attach one of the items listed below as proof of income for eligibility verification:

Copy of tax return from prior year (proof of gross income); or
copy of complete W2 form with gross income calculation from prior year; or
copy of welfare /current eligibility letter for food stamps (dated).

By signing below, I certify under penalty of perjury that this information is true and correct under the laws of the State of Arizona. I will provide proof of income and I will notify Liberty Utilities of any changes that affect my eligibility. I further authorize Liberty Utilities to verify source of income provided above. I understand that if I receive the discount without meeting the qualifications for it, I may be required to pay back the discount I received.

Customer Signature

Date

Note: An Application for ARWW must be submitted every two years. A Declaration of Eligibility must be submitted annually for verification.

**APPROVED FOR FILING
DECISION NO. 76799**

**Liberty Utilities (Litchfield Park Water & Sewer) Corp.
Alternate Rates for Water and Wastewater (ARWW)**

Applicability

Applicable to residential water and wastewater service for domestic use rendered to low-income households where the customer meets all the Program Qualifications and Special Conditions of this rate schedule.

Territory

Within all customer service areas served by Liberty Utilities (Litchfield Park Water & Sewer) Corp.

Discount

Thirty percent (30%) discount applied to the regular filed tariff. The discount will be applied to the customer's total bill before any adjustments and application of any other taxes, credit, penalties or fees.

Program Qualifications

- The Liberty Utilities account must be in your name and the address must be your primary residence in our service area or you must be a tenant receiving water service by a sub-metered system.
- You may not be claimed as a dependent on another person's tax return.
- You must reapply each time you move residences.
- You must renew your application once every two (2) years or sooner if requested.
- You must recertify each year by submitting a declaration attesting to your continuing eligibility, and provide one of the following items as proof of eligibility: 1) copy of tax return from prior year (proof of gross income); or 2) copy of complete W2 form with gross income calculation from prior year; or 3) copy of welfare/current eligibility letter for food stamps (dated).
- You must notify Liberty Utilities within thirty (30) days if you become ineligible for ARWW.
- Your total gross annual income of all persons living in your household cannot exceed the income levels provided on the application.

Special Conditions

- You must fill out and sign the ARWW Application completely. Incomplete information will delay your discount. You must reapply every two (2) years.
- You must recertify your enrollment in the ARWW annually by submitting a Declaration of Eligibility and providing one of the following items as proof of eligibility: 1) copy of tax return from prior year (proof of gross income); or 2) copy of complete W2 form with gross income calculation from prior year; or 3) copy of welfare/current eligibility letter for food stamps (dated).
- Customers shall be billed on this schedule commencing with the next regularly scheduled billing period that follows the receipt and approval of the application by Liberty Utilities.
- Documentation of your gross annual income must be provided to Liberty Utilities for verification of eligibility for ARWW. Refusal or failure to provide documentation of acceptable eligibility to Liberty Utilities shall result in removal from this rate schedule.
- It is the customer's responsibility to notify Liberty Utilities if there is a change in eligibility status.
- You may be re-billed for any periods of ineligibility under the applicable rate schedule.
- Master-metered customers who have sub-metered tenants will receive a reduction in the billing. Sub-metered tenants must qualify and meet the income eligibility criteria so an equivalent discount (30%) can be passed through to eligible customer(s).
- The ARWW program is limited to 5,000 water division customers and 5,000 wastewater division customers.

How to Submit Completed ARWW Application and/or Declaration of Eligibility

Mail, Fax or Email your ARWW Application and Declaration of Eligibility to:

Liberty Utilities (Litchfield Park Water & Sewer) Corp.

12725 W. Indian School Rd. Ste. D101

Avondale, AZ 85392

Fax: 623-935-1020

Email: customerserviceavondale@libertywater.com

Issued: August 9, 2018

Effective: August 1, 2018

ISSUED BY:
Matthew Garlick, President
Liberty Utilities (Litchfield Park Water & Sewer) Corp.
12725 W. Indian School Road, Suite D-101
Avondale, AZ 85392
Decision No. XXXXXX

APPROVED FOR FILING
DECISION NO. 76799

PART NINE
HOOK-UP FEE TARIFF

WATER HOOK-UP FEE

I. Purpose and Applicability

The purpose of the off-site hook-up fees payable to Liberty Utilities (Litchfield Park Water & Sewer) Corp. (the "Company") pursuant to this tariff is to equitably apportion the costs of constructing additional off-site facilities necessary to provide water production, delivery, storage and pressure among all new service connections. These charges are applicable to all new service connections after the effective date of this tariff. The charges are one-time charges and are payable as a condition to Company's establishment of service, as more particularly provided below.

II. Definitions

Unless the context otherwise requires, the definitions set forth in R-14-2-401 of the Arizona Corporation Commission's ("Commission") rules and regulations governing water utilities shall apply in interpreting this tariff schedule.

"Applicant" means any person or entity requesting service to one or more new service connections, and may include Developers and/or Builders of new residential subdivisions and/or commercial and industrial properties.

"Company" means Liberty Utilities (Litchfield Park Water & Sewer) Corp. – Water Division.

"Main Extension Agreement" means any agreement whereby an Applicant, Developer and/or Builder agrees to advance the costs of the installation of water facilities necessary to the Company to serve new service connections within a development, or installs such water facilities necessary to serve new service connections and transfers ownership of such water facilities to the Company, which agreement shall require the approval of the Commission pursuant to A.A.C. R-14-2-406, and shall have the same meaning as "Water Facilities Agreement" or "Line Extension Agreement."

"Off-site Facilities" means wells, storage tanks and related appurtenances necessary for proper operation, including engineering and design costs. Off-site facilities may also include booster pumps, pressure tanks, transmission mains and related appurtenances necessary for proper operation if these facilities are not for the exclusive use of the applicant and will benefit the entire water system.

"Service Connection" means and includes all service connections for single-family residential, commercial, industrial or other uses, regardless of meter size.

PART NINE
HOOK-UP FEE TARIFF – WATER

III. Water Hook-up Fee

For each new service connection, the Company shall collect an off-site hook-up fee derived from the following table:

Meter Size	Size Factor	Total Fee
5/8" x 3/4"	1	\$1,800
3/4"	1.5	\$2,700
1"	2.5	\$4,500
1-1/2"	5	\$9,000
2"	8	\$14,400
3"	16	\$28,800
4"	25	\$45,000
6"	50	\$90,000
8"	80	\$144,000
10" (turbine)	145	\$261,000
12" (turbine)	215	\$387,000

(A) For "Active Adult" communities with demonstrated age-restricted zoning and/or CCRs providing for age-restricted living, the Total Fee for domestic water use shall be Two-Thirds (2/3) of the Total Fee shown above for Residential properties, based on an ERU factor of 190 gallons per day. All non-domestic service connections shall pay the Hook-up fee per the above table.

IV. Terms and Conditions

(A) Assessment of One Time Off-Site Hook-up Fee: The off-site hook-up fee will be assessed only once per residential parcel. For non-residential Properties, that reside on one parcel but has future additional construction that requires an upsize in water meters or additional water meters, the Company shall assess an additional Hook-up fee based on Hook-up Fees associated with old water meter size and new water meter size difference in fees or the Hook-up Fee associated with the additional requested water meter size.

(B) Use of Off-Site Hook-up Fee: Off-site hook-up fees may only be used to pay for capital items of Off-site Facilities, or for repayment of loans obtained to fund the cost of installation of off-site facilities. Off-site hook-up fees shall not be used to cover repairs, maintenance, or operational costs. The Company shall record amounts collected under the tariff as CIAC; however, such amounts shall not be deducted from rate base until such amounts have been expended for plant.

PART NINE
HOOK-UP FEE TARIFF – WATER

(C) Time of Payment:

- 1) For those requiring a Main Extension Agreement: In the event that the person or entity that will be constructing improvements (“Applicant”, “Developer” or “Builder”) is otherwise required to enter into a Main Extension Agreement, whereby the Applicant, Developer or Builder agrees to advance the costs of installing mains, valves, fittings, hydrants and other on-site improvements in order to extend service in accordance with R-14-2-406(B), payment of the Hook-Up Fees required hereunder shall be made by the Applicant, Developer or Builder no later than within 15 calendar days after receipt of notification from the Company that the Utilities Division of the Arizona Corporation Commission has approved the Main Extension Agreement in accordance with R-14-2-406(M).
- 2) For those connecting to an existing main: In the event that the Applicant, Developer or Builder for service is not required to enter into a Main Extension Agreement, the Hook-Up Fee charges hereunder shall be due and payable at the time the meter and service line installation fee is due and payable.

(D) Off-Site Facilities Construction by Developer: Company and Applicant, Developer, or Builder may agree to construction of off-site facilities necessary to serve a particular development by Applicant, Developer or Builder, which facilities are then conveyed to Company. In that event, Company shall credit the total cost of such off-site facilities as an offset to off-site hook-up fees due under this Tariff. If the total cost of the off-site facilities constructed by Applicant, Developer or Builder and conveyed to Company is less than the applicable off-site hook-up fees under this Tariff, Applicant, Developer or Builder shall pay the remaining amount of off-site hook-up fees owed hereunder. If the total cost of the off-site facilities contributed by Applicant, Developer or Builder and conveyed to Company is more than the applicable off-site hook-up fees under this Tariff, Applicant, Developer or Builder shall be refunded the difference upon acceptance of the off-site facilities by the Company.

(E) Failure to Pay Charges: Delinquent Payments: The Company will not be obligated to make an advance commitment to provide or actually provide water service to any Developer, Builder or other applicant for service in the event that the Developer, Builder or other applicant for service has not paid in full all charges hereunder. Under no circumstances will the Company set a meter or otherwise allow service to be established if the entire amount of any payment due hereunder has not been paid.

PART NINE
HOOK-UP FEE TARIFF – WATER

(F) Large Subdivision/Development Projects: In the event that the Applicant, Developer or Builder is engaged in the development of a residential subdivision containing more than 150 lots, the Company may, in its discretion, agree to payment of off-site hook-up fees in installments. Such installments may be based on the residential subdivision development's phasing, and should attempt to equitably apportion the payment of charges hereunder based on the Applicant's, Developer's or Builder's construction schedule and water service requirements. In the alternative, the Applicant, Developer, or Builder shall post an irrevocable letter of credit in favor of the Company in a commercially reasonable form, which may be drawn by the Company consistent with the actual or planned construction and hook up schedule for the subdivision and/or development.

(G) Off-Site Hook-Up Fees Non-refundable: The amounts collected by the Company as Hook-Up Fees pursuant to the off-site hook-up fee tariff shall be non-refundable contributions in aid of construction.

(H) Use of Off-Site Hook-Up Fees Received: All funds collected by the Company as off-site hook-up fees shall be deposited into a separate interest bearing trust account and used solely for the purposes of paying for the costs of installation of off-site facilities, including repayment of loans obtained for the installation of off-site facilities that will benefit the entire water system.

(I) Off-Site Hook-up Fee in Addition to On-site Facilities: The off-site hook-up fee shall be in addition to any costs associated with the construction of on-site facilities under a Main Extension Agreement pursuant to A.A.C. R14-2-406 and any applicable Main Extension Tariff.

(J) Disposition of Excess Funds: After all necessary and desirable off-site facilities are constructed utilizing funds collected pursuant to the off-site hook-up fees, or if the off-site hook-up fee has been terminated by order of the Arizona Corporation Commission, any funds remaining in the trust shall be refunded. The manner of the refund shall be determined by the Commission at the time a refund becomes necessary.

(K) Fire Flow Requirements: In the event the applicant for service has fire flow requirements that require additional facilities beyond those facilities whose costs were included in the off-site hook-up fee, and which are contemplated to be constructed using the proceeds of the off-site hook-up Fee, the Company may require the applicant to install such additional facilities as are required to meet those additional fire flow requirements, as a non-refundable contribution, in addition to the off-site hook-up fee.

(L) Status Reporting Requirements to the Commission: The Company shall submit a calendar year Off-Site Hook-Up Fee status report each January to Docket Control for the prior twelve (12) month period, beginning January 2019, until the hook-up fee tariff is no longer in effect. This status report shall contain a list of all customers that have paid the hook-up fee tariff, the amount each has paid, the physical location/address of the property in respect of which such fee was paid, the amount of money spent from the account, the amount of interest earned on the funds within the tariff account, and a list of all facilities that have been installed with the tariff funds during the 12 month period.

WASTEWATER HOOK-UP FEE TARIFF**I. Purpose and Applicability**

The purpose of the off-site facilities hook-up fees payable to Liberty Utilities (Litchfield Park Water & Sewer) Corp. (the "Company") pursuant to this tariff is to equitably apportion the costs of constructing additional off-site facilities to provide wastewater treatment and disposal facilities among all new service laterals. These charges are applicable to all new service laterals undertaken via Collection Main Extension Agreements, or requests for service not requiring a Collection Main Extension Agreement, entered into after the effective date of this tariff. The charges are one-time charges and are payable as a condition to Company's establishment of service, as more particularly provided below.

II. Definitions

Unless the context otherwise requires, the definitions set forth in R-14-2-601 of the Arizona Corporation Commission's ("Commission") rules and regulations governing sewer utilities shall apply interpreting this tariff schedule.

"Applicant" means any party entering into an agreement with Company for the installation of wastewater facilities to serve new service laterals, and may include Developers and/or Builders of new residential subdivisions, and industrial or commercial properties.

"Company" means Liberty Utilities (Litchfield Park Water & Service) Corp. – Wastewater Division.

"Collection Main Extension Agreement" means an agreement whereby an Applicant, Developer and/or Builder agrees to advance the costs of the installation of wastewater facilities necessary to serve new service laterals, or install wastewater facilities to serve new service laterals and transfer ownership of such wastewater facilities to the Company, which agreement does not require the approval of the Commission pursuant to A.A.C. R-14-2-606, and shall have the same meaning as "Wastewater Facilities Agreement."

"Off-site Facilities" means the wastewater treatment plant, sludge disposal facilities, effluent disposal facilities and related appurtenances necessary for proper operation, including engineering and design costs. Offsite facilities may also include lift stations, force mains, transportation mains and related appurtenances necessary for proper operation if these facilities are not for the exclusive use of the applicant and benefit the entire wastewater system.

"Service Lateral" means and includes all service laterals for single-family residential, commercial, industrial or other uses.

HOOK-UP FEE TARIFF – WASTEWATER**III. Wastewater Hook-up Fee**

For each new residential service lateral, the Company shall collect a Hook-Up Fee of \$2,697 based on the Equivalent Residential Unit (“ERU”) of 270 gallons per day. Commercial and industrial applicants shall pay based on the total ERUs of their development calculated by dividing the estimated total daily wastewater capacity usage needed for service using standard engineering standards and criteria by the ERU factor of 270 gallons per day. For “Active Adult” communities with demonstrated age-restricted zoning and/or CCRs providing for age-restricted living, the Hook-Up Fee for residential properties shall be \$1,070, based on an ERU factor of 190 gallons per day.

IV. Terms and Conditions

(A) Assessment of One Time Off-Site Facilities Hook-up Fee: The off-site facilities hook-up fee may be assessed only once per residential parcel. For non-residential properties that reside on one parcel but have future additional construction that adds additional impact to the Company’s existing wastewater infrastructure, an incremental Hook-Up Fee shall be applied based upon the additional EDU equivalents added by such construction activity.

(B) Use of Off-Site Facilities Hook-up Fee: Off-site facilities hook-up fees may only be used to pay for capital items of Off-site Facilities, or for repayment of loans obtained to fund the cost of installation of off-site facilities. Off-site hook-up fees shall not be used to cover repairs, maintenance, or operational costs. The Company shall record amounts collected under the tariff as CIAC; however, such amounts shall not be deducted from rate base until such amounts have been expended for plant.

(C) Time of Payment:

- (1) In the event that the person or entity that will be constructing improvements (“Applicant”, “Developer” or “Builder”) is otherwise required to enter into a Collection Main Extension Agreement, payment of the fees required hereunder shall be made by the Applicant, Developer or Builder within 15 days of execution of a Main Extension Agreement.
- (2) In the event that the Applicant, Developer or Builder for service is not required to enter into a Collection Main Extension Agreement, the Hook-Up Fee charges hereunder shall be due and payable at the time wastewater service is requested for the property.

HOOK-UP FEE TARIFF – WASTEWATER

(D) Off-Site Facilities Construction by Developer: Company and Applicant, Developer, or Builder may agree to construction of off-site facilities necessary to serve a particular development by Applicant, Developer or Builder, which facilities are then conveyed to Company. In that event, Company shall credit the total cost of such off-site facilities as an offset to off-site hook-up fees due under this Tariff. If the total cost of the off-site facilities constructed by Applicant, Developer or Builder and conveyed to Company is less than the applicable off-site hook-up fees under this Tariff, Applicant, Developer or Builder shall pay the remaining amount of off-site hook-up fees owed hereunder. If the total cost of the off-site facilities contributed by Applicant, Developer or Builder and conveyed to Company is more than the applicable off-site hook-up fees under this Tariff, Developer or Builder shall be refunded the difference upon acceptance of the off-site facilities by the Company.

(E) Failure to Pay Charges; Delinquent Payments: The Company will not be obligated to make an advance commitment to provide or actually provide wastewater service to any Developer, Builder or other applicant for service in the event that the Developer, Builder or other applicant for service has not paid in full all charges hereunder. Under no circumstances will the Company connect service or otherwise allow service to be established if the entire amount of any payment has not been paid.

(F) Large Subdivision and/or Development Projects: In the event that the Applicant, Developer or Builder is engaged in the development of a residential subdivision and/or development containing more than 150 lots, the Company may, in its reasonable discretion, agree to payment of off-site hook-up fees in installments. Such installments may be based on the residential subdivision and/or development's phasing, and should attempt to equitably apportion the payment of charges hereunder based on the Applicant's, Developer's or Builder's construction schedule and water service requirements. In the alternative, the Applicant, Developer, or Builder shall post an irrevocable letter of credit in favor of the Company in a commercially reasonable form, which may be drawn by the Company consistent with the actual or planned construction and hook up schedule for the subdivision and/or development.

(G) Off-Site Hook-Up Fees Non-refundable: The amounts collected by the Company pursuant to the off-site facilities hook-up fee tariff shall be non-refundable contributions in aid of construction.

(H) Use of Off-Site Hook-Up Fees Received: All funds collected by the Company as off-site facilities hook-up fees shall be deposited into a separate account and bear interest and shall be used solely for the purposes of paying for the costs of installation of off-site facilities, including repayment of loans obtained for the installation of off-site facilities.

(I) Off-Site Facilities Hook-up Fee in Addition to On-site Facilities: The off-site facilities hook-up fee shall be in addition to any costs associated with the construction of on-site facilities under a Collection Main Extension Agreement.

HOOK-UP FEE TARIFF – WASTEWATER

(J) Disposition of Excess Funds: After all necessary and desirable off-site facilities are constructed utilizing funds collected pursuant to the off-site facilities hook-up fees, or if the off-site facilities hook-up fee has been terminated by order of the Arizona Corporation Commission, any funds remaining in the trust shall be refunded. The manner of the refund shall be determined by the Commission at the time a refund becomes necessary.

(K) Status Reporting Requirements to the Commission: The Company shall submit a calendar year Off-Site Facilities Hook-Up Fee status report each January to Docket Control for the prior twelve (12) month period, beginning January 2023, until the hook-up fee tariff is no longer in effect. This status report shall contain a list of all customers that have paid the hook-up fee tariff, the amount each has paid, the physical location/address of the property in respect of which such fee was paid, the amount of money spent from the account, the amount of interest earned on the funds within the tariff account, and an itemization of all facilities that have been installed using the tariff funds during the 12 month period.

Issued: March 18, 2022

Effective: March 2, 2022

ISSUED BY:
Matthew Gurlick, President
Liberty Utilities (Litchfield Park Water & Sewer) Corp.
14920 W. Camelback Road
Litchfield Park, AZ 85340
Decision No. 78485

APPROVED FOR FILING
DECISION #: 78488

LIBERTY UTILITIES (LITCHFIELD PARK WATER & SEWER) CORP.

DOCKET NO. SW-01428A-09-0103 W-01427A-09-0104
 W-01427A-09-0116 W-01427A-09-0120
 SW-01428A-13-0042 W-01427A-13-0043
 SW-01428A-17-0058 W-01427A-17-0059
 W-01427A-17-0077 SW-01428A-17-0078

Cancelling Sheet No. ___

Applies to all service areas

**ALTERNATE RATES FOR WATER AND WASTEWATER (ARWW)
SURCHARGE**

APPLICABILITY

Applicable to all customers of the Company not participating in the Alternate Rates for Water and Wastewater (ARWW) program, through which residential water and wastewater service for domestic use is rendered to low income households where the customer meets all the ARWW program qualifications and special conditions of the ARWW rate schedule.

TERRITORY

Within all customer service areas served by the Company.

RATES**Water Division**

A surcharge of \$0.0019 per 1,000 gallons will be applied each month to the bills of non-participating water division customers for recovery of the costs (discounts, direct costs, and carrying charges) associated with the ARWW program. The surcharge is the amount resulting from dividing the total program costs by the number of gallons sold to non-participating water division customers in the past 12-month tracking period.

Wastewater Division

A surcharge of \$0.03 will be applied each month to the bills of non-participating wastewater division customers for recovery of the costs (discounts, direct costs, and carrying charges) associated with the ARWW program. The surcharge is the amount resulting from dividing the total program costs by the number of bills issued to non-participating wastewater division customers in the past 12-month tracking period.

Issued: January 31, 2023

Effective: February 1, 2023

ISSUED BY:

Moses Thompson, President
 Liberty Utilities (Litchfield Park Water & Sewer) Corp.
 14920 W. Camelback Road
 Litchfield Park, AZ 85340

Decision No. 72026 (December 10, 2010)

Decision No. 74437 (April 18, 2014)

Decision No. 76799 (August 15, 2018)

**APPROVED FOR FILING
 DECISION # 76799**

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Exhibit 9
General Statement of Financial Condition –
Comparative Income Statement

Liberty Utilities (Litchfield Park Water and Sewer) Corp
Annual Report
Balance Sheet Assets, Liabilities & Stockholders Equity
12/31/2022

Wastewater - Balance Sheet Assets			
Account No.	Assets	Balance at Beginning of Year (2022)	Balance at End of Year (2022)
Current and Accrued Assets			
131	Cash	\$0	280,870.04
132	Special Deposits	10,218,876	17,582,736
135	Temporary Cash Investments	0	0
141	Customer Accounts Receivable	1,667,946	1,240,993
142	Other Accounts Receivable	0	292,520
143	Accumulated Provision for Uncollectable Accounts	(124,970)	(119,379)
146	Notes Receivable from Associated Companies	11,017,286	0
151	Plant Material and Supplies	0	0
162	Prepayments	17,114	51,428
173	Accrued Utility Revenue	1,643,623	3,657,719
174	Miscellaneous Current and Accrued Assets	0	0
Total Current and Accrued Assets		\$24,439,875	\$22,986,888
Deferred Debits			
186.1	Deferred Rate Case Expense	\$275,433	\$327,240
186.2	Other Deferred Debits	0	0
Total Deferred Debits		\$275,433	\$327,240
Fixed Assets			
101	Utility Plant in Service*	\$130,036,893	\$140,802,831
103	Property Held for Future Use	38,480	38,480
105	Construction Work in Progress	11,730,950	30,199,160
108	Accumulated Depreciation (enter as negative)*	(41,583,078)	(46,201,289)
121	Non-Utility Property	0	0
122	Accumulated Depreciation - Non Utility	0	0
Total Fixed Assets		\$100,223,245	\$124,839,182
Total Assets		\$124,938,553	\$148,153,310

Water - Balance Sheet Assets			
Account No.	Assets	Balance at Beginning of Year (2022)	Balance at End of Year (2022)
Current and Accrued Assets			
131	Cash	\$0	\$223,642
134	Working Funds	7,673,322	12,449,650
135	Temporary Cash Investments	0	0
141	Customer Accounts Receivable	1,363,565	988,139
142	Other Accounts Receivable	0	0
143	Accumulated Provision for Uncollectable Accounts	(102,164)	(95,055)
146	Notes Receivable from Associated Companies	9,006,759	0
151	Plant Material and Supplies	0	0
162	Prepayments	212,664	188,134
173	Accrued Utility Revenue	3,713,711	1,353,788
174	Miscellaneous Current and Accrued Assets	0	0
Total Current and Accrued Assets		\$21,867,858	\$15,108,298
Deferred Debits			
186.1	Deferred Rate Case Expense	\$222,230	\$146,755
186.2	Other Deferred Debits	289,216	321,409
Total Deferred Debits		\$511,445	\$468,164
Fixed Assets			
101	Utility Plant in Service*	\$122,699,209	\$125,473,599
103	Property Held for Future Use	6,000	6,000
105	Construction Work in Progress	14,227,064	20,078,574
108	Accumulated Depreciation (enter as negative)*	(44,822,816)	(49,015,723)
121	Non-Utility Property	21,100	21,100
122	Accumulated Depreciation - Non Utility	0	0
Total Fixed Assets		\$92,130,558	\$96,563,549
Total Assets		\$114,509,861	\$112,140,011

Balance Sheet Liabilities and Owners Equity			
Account No.	Liabilities	Balance at Beginning of Year (2022)	Balance at End of Year (2022)
Current Liabilities			
231	Accounts Payable	\$3,986	\$14,027
232	Notes Payable (Current Portion)	0	637,802
234	Notes Payable to Associated Companies	0	0
235	Customer Deposits	0	0
236	Accrued Taxes	49,518	44,877
237	Accrued Interest	0	0
241	Miscellaneous Current and Accrued Liabilities	3,402,125	13,156,007
Total Current Liabilities		\$3,455,628	\$13,852,713
Long Term Debt			
224	Long Term Debt (Notes and Bonds)	\$0	\$0
Total Long Term Debt		\$0	\$0
Deferred Credits			
252	Advances in Aid of Construction	\$1,564,869	\$1,678,377
253	Other Deferred Credits	\$16,767,207	\$19,208,232
255	Accumulated Deferred Investment Tax Credits	0	0
271	Contributions in Aid of Construction	57,754,444	56,103,065
272	Less: Amortization of Contributions	(14,670,182)	(16,108,073)
281	Accumulated Deferred Income Tax	17,120,664	19,090,282
Total Deferred Credits		\$78,537,001	\$79,971,882
Total Liabilities		\$81,992,629	\$93,824,595
Capital Accounts			
201	Common Stock Issued	\$0	\$0
211	Other Paid-In Capital	25,249,009	25,249,009
215	Retained Earnings	17,696,915	29,079,706
218	Proprietary Capital (Sole Props and Partnerships)	0	0
Total Capital		\$42,945,924	\$54,328,715
Total Liabilities and Capital		\$124,938,553	\$148,153,310

Balance Sheet Liabilities and Owners Equity			
Account No.	Liabilities	Balance at Beginning of Year (2021)	Balance at End of Year (2021)
Current Liabilities			
231	Accounts Payable	\$3,258	\$11,169
232	Notes Payable (Current Portion)	0	507,849
234	Notes Payable to Associated Companies	0	0
235	Customer Deposits	1,447,569	1,672,882
236	Accrued Taxes	40,481	35,733
237	Accrued Interest	0	0
242	Miscellaneous Current and Accrued Liabilities	3,174,503	3,046,722
253	Other Deferred Credits	7,331,340	13,250,906
Total Current Liabilities		\$11,997,152	\$18,525,260
Long Term Debt			
224	Long Term Debt (Notes and Bonds)	\$0	\$0
Deferred Credits			
251	Unamortized Premium on Debt		
252	Advances in Aid of Construction	5,177,589	5,211,029
253	Other Deferred Credits	0	0
255	Accumulated Deferred Investment Tax Credits	0	0
271	Contributions in Aid of Construction	42,104,341	36,476,030
272	Less: Amortization of Contributions	(5,436,024)	(6,147,378)
281	Accumulated Deferred Income Tax	13,996,341	15,200,608
Total Deferred Credits		\$55,842,247	\$50,740,289
Total Liabilities		\$67,839,399	\$69,265,550
Capital Accounts			
201	Common Stock Issued	\$0	\$0
211	Other Paid-In Capital	26,288,123	26,288,123
215	Retained Earnings	20,382,340	16,586,338
218	Proprietary Capital (Sole Props and Partnerships)	0	0
Total Capital		\$46,670,463	\$42,874,461
Total Liabilities and Capital		\$114,509,861	\$112,140,011

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Liberty Utilities (Litchfield Park Water and Sewer) Corp
Annual Report
Comparative Income Statements
2021-2022

Wastewater Comparative Income Statement			
Account No.	Calendar Year	Current Year 01/01/2022 - 12/31/2022	Last Year 01/01/2021 - 12/31/2021
Operating Revenue			
521	Flat Rate Revenues	\$15,093,601	\$14,463,509
522	Measured Revenues	3,117,683	2,673,079
534	Rents from Wastewater Property	0	0
536	Other Wastewater Revenues	716,734	864,087
420	AFUDC Income	33,876	35,006
	Total Revenues	\$18,961,893	\$18,035,681
Operating Expenses			
701	Salaries and Wages	\$0	\$0
704	Employee Pensions and Benefits	0	0
710	Purchased Wastewater Treatment	27,271	35,377
711	Sludge Removal Expense	541,278	459,649
715	Purchased Power	888,660	754,369
716	Fuel for Power Production	2,235	1,001
718	Chemicals	507,245	427,362
720	Materials and Supplies	51,909	47,225
720.1	Repairs and Maintenance	85,541	56,243
720.2	Office Supplies and Expense	0	0
721	Office Expense	21,941	15,524
731	Contractual Services - Engineering	0	0
732	Contractual Services - Accounting	46,345	26,655
733	Contractual Services - Legal	175,999	15,198
734	Contractual Services - Management Fees	2,341,442	2,458,050
735	Contractual Services - Testing	32,291	39,463
736	Contractual Services - Other	1,779,696	1,570,148
740	Rents - Building	31,140	84,457
742	Rents - Equipment	1,591	10,403
750	Transportation Expenses	77,713	50,233
757	Insurance - General Liability	137,079	101,968
758	Insurance - Worker's Compensation	0	0
759	Insurance - Other	0	0
760	Advertising Expense	593	51
766	Regulatory Commission Expense - Rate Case	0	0
767	Regulatory Commission Expense - Other	0	0
770	Bad Debt Expense	(2,891)	58,447
775	Miscellaneous Expense	90,997	120,031
403	Depreciation Expense (From Schedule AR4)	2,764,896	2,517,761
408	Taxes Other Than Income	0	0
408.11	Property Taxes	616,514	636,847
408.12	Payroll Taxes	0	0
409	Income Taxes	(89,256)	(89,256)
	Total Operating Expenses	\$10,130,228	\$9,397,208
	Operating Income / (Loss)	\$8,831,664	\$8,638,473
Other Income / (Expense)			
414	Gain (Loss) on Dispositions	0	0
419	Interest and Dividend Income	0	0
421	Non-Utility Income	0	0
426	Miscellaneous Non-Utility (Expense)	(97,285)	(104,535)
427	Interest (Expense)	0	0
	Total Other Income / (Expense)	(\$97,285)	(\$104,535)
	Net Income / (Loss)	\$8,734,379	\$8,533,937

Water Comparative Income Statement			
Account No.	Calendar Year	Current Year 01/01/2022 - 12/31/2022	Last Year 01/01/2021 - 12/31/2021
Operating Revenue			
461	Metered Water Revenue	\$8,889,024	\$8,856,083
460	Unmetered Water Revenue	5,668,035	5,667,475
462	Fire Protection Revenue	52,178	51,111
469	Guaranteed Revenues (Surcharges)	0	0
471	Miscellaneous Service Revenues	0	0
474	Other Water Revenue	270,846	141,090
	Total Revenues	\$14,880,083	\$14,715,760
Operating Expenses			
601	Salaries and Wages	\$0	\$0
604	Employee Pensions and Benefits	0	0
610	Purchased Water	6,200	2,180
615	Purchased Power	1,269,794	1,142,035
616	Fuel for Power Production	886	6,721
618	Chemicals	610,553	701,036
620	Materials and Supplies	57,880	31,285
620.1	Repairs and Maintenance	0	0
620.2	Office Supplies and Expense	40,307	80,995
630	Contractual Services	0	0
631	Contractual Services - Engineering	0	0
632	Contractual Services - Accounting	0	0
633	Contractual Services - Legal	0	0
634	Contractual Services - Management Fees	2,523,630	2,449,052
635	Contractual Services - Water Testing	96,001	86,757
636	Contractual Services - Other	1,760,233	1,519,640
640	Rents	0	0
641	Rental of Building/Real Property	32,043	78,778
642	Rental of Equipment	(865)	5,582
650	Transportation Expenses	129,271	63,503
657	Insurance - General Liability	177,180	95,460
657.1	Insurance - Health and Life	0	0
665	Regulatory Commission Expense - Rate	0	0
667	Regulatory Commission Expense - Other	0	0
670	Bad Debt Expense	(7,077)	173,429
675	Miscellaneous Expense	269,837	212,024
403	Depreciation Expense (From Schedule AR4)	2,874,250	2,511,842
408	Taxes Other Than Income	0	0
408.11	Property Taxes	517,828	636,847
409	Income Taxes	2,912,989	2,865,417
427.1	Customer Security Deposit Interest	0	0
	Total Operating Expenses	\$13,270,938	\$12,662,582
	Operating Income / (Loss)	\$1,609,145	\$2,053,177
Other Income / (Expense)			
419	Interest and Dividend Income	\$0	\$0
420	AFUDC Revenue	\$273,522	\$254,015
421	Non-Utility Income	0	0
426	Miscellaneous Non-Utility (Expense)	(196,255)	(271,741)
427	Interest (Expense)	(3,615)	(31,353)
433	Extraordinary Income	0	0
434	Extraordinary Deductions	0	0
	Total Other Income / (Expense)	\$73,651	(\$49,079)
	Net Income / (Loss)	\$1,682,797	\$2,004,098

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Exhibit 10
**Estimated Annual Operating Revenue and
Expenses, Income Statements, Balance Sheets and
Plant Expenditures – First Five Years**

Liberty Utilities (Litchfield Park Water & Sewer) Corp.
The Base Industrial Park
Projected Incremental Balance Sheet

Line No.		<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>
1	Assets							
2								
3	Utility Plant /1	-	-	-	-	-	-	-
4	Utility Plant /2							
5	Accumulated Depreciation /3	-	-	-	-	-	-	-
6	Current Assets			815	8,152	17,526	32,200	46,873
7								
8	Total Assets	-	-	815	8,152	17,526	32,200	46,873
9								
10	Equity							
11								
12	Retained Earnings	-	-	815	8,152	17,526	32,200	46,873
13								
14	Total Equity	-	-	815	8,152	17,526	32,200	46,873
15								
16	Liabilities & Deferred Credits							
17	Current Liabilities							
18	Contribution in Aid of Const. /4	-	-	-	-	-	-	-
19	CIAC Amortization							
20	Total Liabilities and Deferred Credits	-	-	-	-	-	-	-
21								
22	Total Equity and Liabilities	-	-	815	8,152	17,526	32,200	46,873
23								
24		0	0	0	0	0	0	0
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Exhibit 11A
Map of Existing Service Area

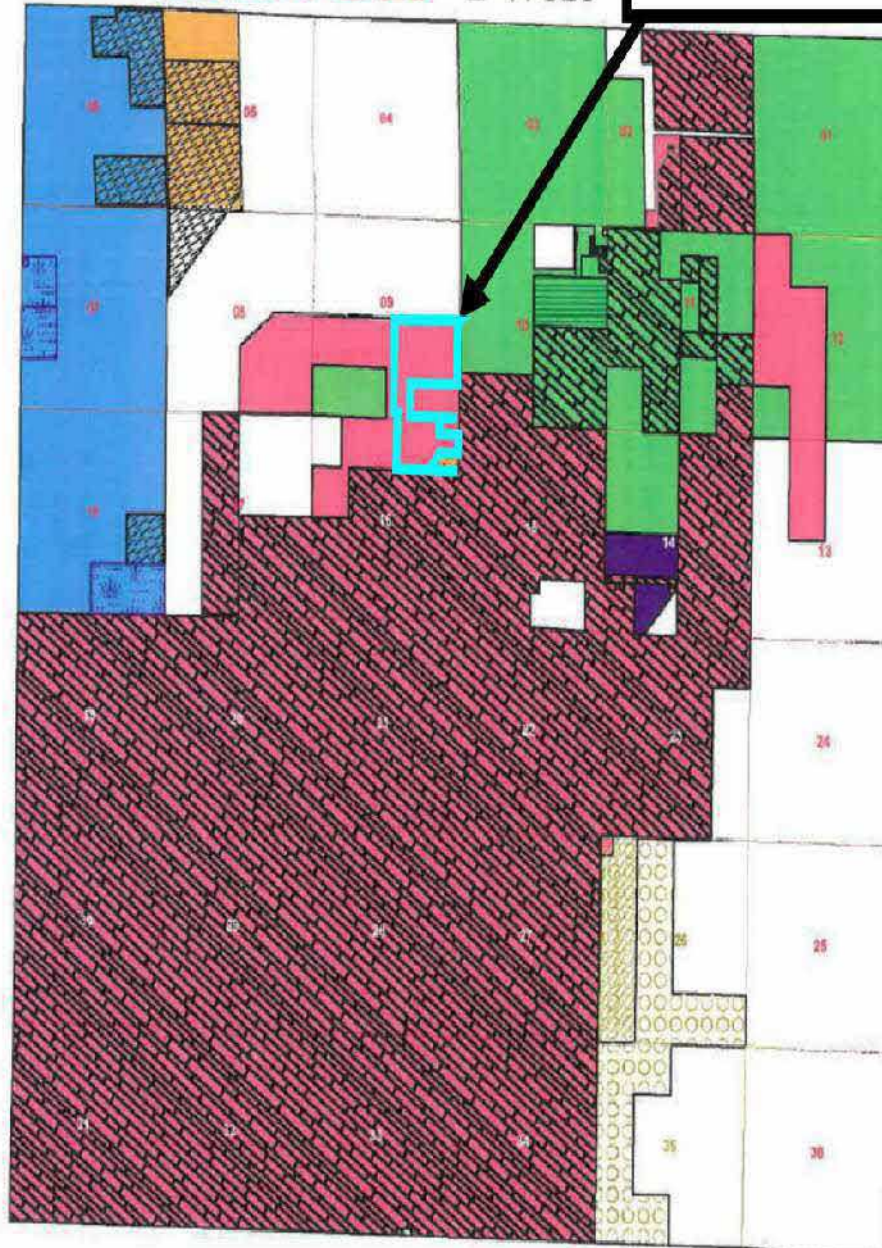
MARICOPA COUNTY

Map NO. 17











Exhibit 11(A)
Map of Existing Wastewater Service Area

Approximate Litchfield Park Service Company Sewer Service Extension Limits.

RANGE 1 West



TOWNSHIP 2 North

-  W-01997A (2)
Adaman Mutual Water Company
-  Sewer WS-01303A (15)(4)
EPCOR Water Arizona, Inc. (Luke 303)
-  W-01427A (4)
Litchfield Park Service Company
-  Sewer SW-01428A (4)
Litchfield Park Service Company
-  W-02076A (1)
Tierra Buena Water Company
-  W-01412A (1)
Valley Utilities Water Company, Inc.
-  Sewer (1)
Casitas Bonitas Wastewater Improvement District (Non-jurisdictional)
-  (1)
Adaman Mutual Water Company (Contiguous Area)
-  (4)
City of Avondale (Non-jurisdictional)
-  (1)
Litchfield Park Service Company
Docket No. SW-01428A-20-0380
Request for Extension for its Wastewater CC&N



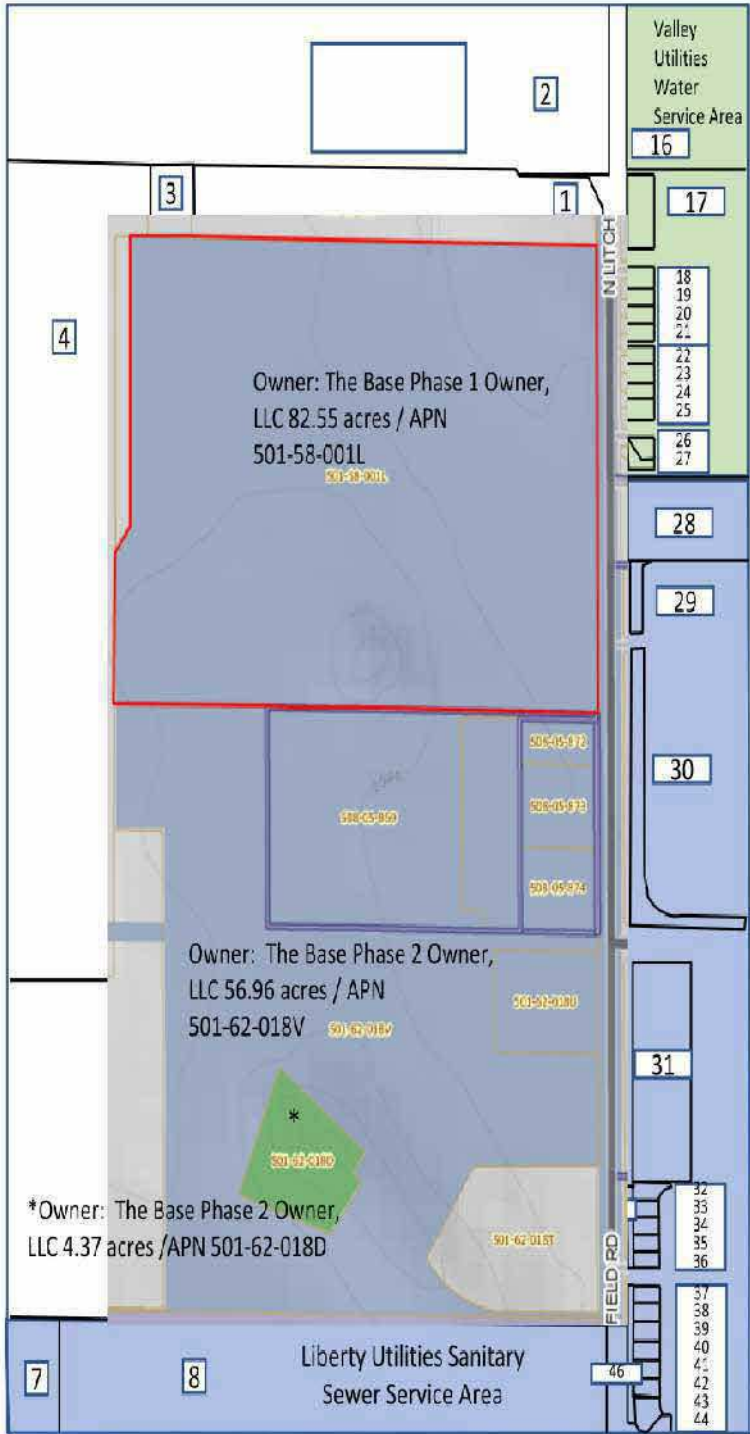
The CC&N Extension Area consist of 7 parcels. The total Extension Area is approximately 143.38 acres. The current owner of the parcels is Airpark 30, LLC, except for Parcel 501-62-018D, which is owned by VWP Litchfield Donut, LLC. There are no existing sewer service connections within the CC&N Extension Area.

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Exhibit 11B
Second Map of Existing Service Area

Map of Existing Wastewater Service Area Exhibit 11 (B)

Parcel Owner



1. 501-58-006A – United States of America
2. 501-51-002 – United States of America
3. 501-58-007 – Arizona State Land Dept
4. 501-58-006A – United States of America
5. 501-58-005A – United States of America
6. 501-62-017E – United States of America
7. 501-62-020C – Sun Health Services
8. 501-62-021 – Sun Health Services
9. 501-62-018T – Turning Leaf Community A Church of the Nazare
10. 501-62-018P – Litchfield Easy Storage LLC
11. 508-05-869 – AGAP Glendale Litchfield LLC
12. 508-05-870 – MTT Properties LLC
13. 508-05-874 – Ultimate RV and Boat Storage II LLC
14. 508-05-873 – Ultimate RV and Boat Storage II LLC
15. 508-05-872 – Medeiros Family Land LP
16. 501-57-932J – M and S Land Investment Company LLP
17. 501-13-105A – Lukefield Ansan LLC/Sandler Abraham/Dafna/Eta
18. 501-13-055D – Reyes Leogardo/Luisa Hernandez De
19. 501-13-056D – Gookooluk Living Trust
20. 501-13-057B – Perez Jose/Maria Guadalupe
21. 501-13-058B – Perez Jose/Maria Guadalupe
22. 501-13-059B – Copper Nail Construction LLC
23. 501-13-060B – Copper Nail Construction LLC
24. 501-13-061A – Aguilar Alberto
25. 501-13-062A – Omcors Holdings LLC
26. 501-13-091E – Munoz Javier
27. 501-13-091D – Munoz Javier
28. 501-57-001 – WBJ Group II LLC
29. 508-05-867 – Dreaming Summit Homeowners Association
30. 508-05-865 – Dreaming Summit Homeowners Association
31. 501-62-012B – Southwest Next SEC Bethany Home And Litchfield
32. 501-62-290 – Covarrubia Luis R Torres/Torres Jasmine L Mesa
33. 501-62-291 – Cruz David/Amanda
34. 501-62-292 – Prado Marlene
35. 501-62-293 – Barton Living Trust
36. 501-62-294 – Thomas L
37. 501-62-154 – Adams Ron D
38. 501-62-153 – Zlich Katherine M/Daniel David
39. 501-62-152 – Mendoza Mizraim L/Melissa K
40. 501-62-151 – Alderson Thomas M/Sheila
41. 501-62-150 – Tang Nguyen/Nguyen Huong Thao
42. 501-62-149 – Valera Jeluz
43. 501-62-148 – Medina Urias Javier Eduardo/Michael/Rachel
44. 501-62-147 – Garcia Esteban
45. 501-62-463 – Dreaming Summit Homeowners Association
46. 501-62-473 – Dreaming Summit Homeowners Association

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Exhibit 11C
Map of Extension Wastewater Service Area

Map No. 1341000000 - L:\STAFF\SCHEPERS\Map\1341000000\1341000000.dwg, DATE: 11/20/2014 10:53:43 AM, USER: JLN



EXTENS ON AREA
 APN 501-58-001L 82.55 acres
 APN 501-52-018D 4.37 acres
 APN 501-52-019V 56.96 acres



LAND USE MAP
Kimley»Horn

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Exhibit 12
Form of Notice to be Sent to Municipalities
Within 5 Miles of Extension Area



Notice Required Pursuant to R14-2-402.B.4 and R14-2-602.B.4
Request for Extension of Certificates of Convenience and Necessity
Filed by Liberty Utilities (Litchfield Park Water & Sewer) Corp.

Pursuant to A.A.C. R14-2-402.B.4 and R14-2-602.B.4, Liberty Utilities (Litchfield Park Water & Sewer) Corp. ("Liberty Litchfield Park") is providing this notice that Liberty Litchfield Park has made application to the Arizona Corporation Commission ("ACC") to extend its Certificates of Convenience and Necessity ("CC&Ns") to provide wastewater utility service to the Extension Area set forth below. The requested Extension Area is within five miles of your municipality's corporate limits. The specific notice requirements are as follows:

Applicant Name, Mailing Address and Telephone Number

Liberty Utilities (Litchfield Park Water & Sewer) Corp.
14920 W. Camelback Road
Litchfield Park, AZ 85340
Ph: 623-935-9367

Date Application Were Filed

Application for an extension of the CC&Ns was filed on _____.

Type of Service to be Provided

Wastewater Services

A Description of Requested Extension Area

ViaWest Properties The Base Industrial Park (the "Property") will consist of approximately 15 industrial buildings, ranging in sizes from 40,000 square feet to 265,000 square, on approximately 143.88 acres. More specifically, the Property is comprised of Parcels 501-58-001L, 501-62-018D, and 501-62-018V.

ACC Docket Number

ACC Docket Nos. SW-01428A-22-XXXX

Instructions on How to Obtain a Copy of Applications

The applications are available for inspection through the ACC website (www.azcc.gov) using the e-Docket function, and from Liberty Utilities via its website, www.libertyutilities.com.

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Exhibit 13
Estimated Number of Customers
First Five Years

The Base Industrial Park: NWC Bethany Home Road & Litchfield Road

Sewer CC&N

5 Year Customer Growth

Customer Additions:	2023	2024	2025	2026	2027
Residential	0	0	0	0	0
Commercial	0	0	0	0	0
Industrial	0	2	16	5	13

Cumulative Customers:	2023	2024	2025	2026	2027
Residential	0	0	0	0	0
Commercial	0	0	0	0	0
Industrial	0	2	18	23	36

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Exhibit 14
ADEQ PVWRF Aquifer Protection Permit

STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-100310
PLACE ID 815, LTF 89214
OTHER AMENDMENT

1.0 AUTHORIZATION

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2, and 3, Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 and 2, A.A.C. Title 18, Chapter 11, Article 4 and amendments thereto, and the conditions set forth in this permit, the Arizona Department of Environmental Quality (ADEQ) hereby authorizes the Liberty Utilities (Litchfield Park Water & Sewer) Corporation to operate the Palm Valley Water Reclamation Facility & Sustainable Effluent to Aquifer Project (SEAP) located at 14222 W. McDowell Road, Goodyear, Arizona, in Maricopa County, over groundwater of the Phoenix Active Management Area, in Township 2 N, Range 1 W, Section 33, SE $\frac{1}{4}$, SW $\frac{1}{4}$, SW $\frac{1}{4}$, of the Gila and Salt River Baseline and Meridian.

This permit becomes effective on the date of the Water Quality Division Director's signature and shall be valid for the life of the facility (operational, closure, and post-closure periods) unless suspended or revoked pursuant to A.A.C. R18-9-A213. The permittee shall construct, operate and maintain the permitted facilities:

1. Following all the conditions of this permit including the design and operational information documented or referenced below, and
2. Such that Aquifer Water Quality Standards (AWQS) are not violated at the applicable point(s) of compliance (POC) set forth below or if an AWQS for a pollutant has been exceeded in an aquifer at the time of permit issuance, that no additional degradation of the aquifer relative to that pollutant and as determined at the applicable POC occurs as a result of the discharge from the facility.

1.1. PERMITTEE INFORMATION

Facility Name: Palm Valley Water Reclamation Facility (WRF)
Facility Address: 14222 West McDowell Road
Goodyear, Arizona, 85395
County: Maricopa

Permitted Flow Rate: 6,550,000 gallons per day (gpd)

Permittee: Liberty Utilities (Litchfield Park Water & Sewer) Corporation
Permittee Address: 14920 W. Camelback Rd.
Litchfield Park, AZ 85340

Facility Contact: Manager
Emergency Phone No.: (623)337-2210

Latitude/Longitude: 33°27' 55" N/ 112°21' 55" W
Legal Description: Township 02 S, Range 01 W, Section 33, SE $\frac{1}{4}$, SW $\frac{1}{4}$, SW $\frac{1}{4}$ of the Gila and Salt River Base Line and Meridian.

1.2. AUTHORIZING SIGNATURE


Trevor Baggione (Reg. 2021 L3-57 P91)

Trevor Baggione, Director
Water Quality Division
Arizona Department of Environmental Quality

Signed this 16th day of August, 2021

THIS AMENDED PERMIT SUPERSEDES ALL PREVIOUS PERMITS

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2.0 SPECIFIC CONDITIONS

[A.R.S. §§ 49-203(4), 49-241(A)]

2.1. FACILITY / SITE DESCRIPTION

[A.R.S. § 49-243(K)(8), R18-5-114]

The permittee is authorized to operate the Palm Valley WRF, with a flow of 6,550,000 gpd (6.55 million gallons per day (mgd)). The facility includes the Palm Valley WRF and the Sustainable Effluent to Aquifer Project (SEAP). The Department has graded this facility as a Grade 4 Wastewater Treatment Plant. A facility shall have an operator in direct responsible charge who is certified for the class of the facility and at or above the grade of the facility.

Palm Valley WRF

The treatment process consists of an influent pump station with four (4) pumps, three (3) influent screens, two (2) vortex grit removal units, one (1) influent equalization basin, three (3) SBR fill pumps, four (4) SBR basins, two (2) surge tanks, three (3) filter feed pumps, five (5) cloth media disc filters, four (4) effluent discharge pumps, three (3) UV disinfection units, four (4) sludge holding tanks and two (2) centrifuges for sludge dewatering (one new and one existing). The existing SBR basin #3A will be converted to a sludge holding tank and SBR basin #3B will be converted to a surge tank. One of the existing centrifuges will be replaced with a new centrifuge. The WRF is designed and constructed according to plans approved by ADEQ. The WRF is designed to produce Reclaimed Water Reuse Class A+ effluent.

The effluent from the WRF may be discharged to the SEAP located three miles north of the WRF, the Roosevelt Irrigation District (RID) canal under a valid AZPDES permit (AZ0025712), and/or reused for any allowable use under a valid reclaimed water permit (R-100310). An interconnection between the Palm Valley WRF reclaimed water distribution system and the City of Goodyear 157th Avenue WRF reclaimed water distribution system allows reclaimed water to flow either way between the systems. Discharges to the RID canal are exempt from APP requirements pursuant to A.R.S. § 49-250(B)(6) and (16).

All the sludge, including screenings, grit, and scum, shall be hauled to landfill for disposal in accordance with State and Federal regulations.

Sustainable Effluent Aquifer Project (SEAP)

The SEAP is located near the intersection of Camelback Road and Bullard Avenue, in Township 2 North, Range 1 West, in the southeast quarter of Section 17. The property is 56.77 acres in size. The facility shall receive effluent from the Palm Valley WRF through the existing reclaimed water pipeline. The SEAP facility shall also include flowmeters, pipeline distribution system and controls, and associated groundwater compliance monitoring points required by the Underground Storage Facility (USF) and APP permits.

The SEAP – Phase I is constructed and Phase II shall be constructed as designed in future:

Phase I is located on 9.04 acres (basin floor area) consisting of four (4) recharge basins which may have a designed recharge capacity of up to 5.4 mgd (6,000 acre feet per year (AFY)). In order to improve recharge efficiency, Recharge Basin No. 3 has been modified to include the installation of trenches and bore holes. Up to a total of 10 (ten) trenches spaced at 50 feet center-to-center, each 200 feet long, four (4) feet wide, and ten (10) feet deep will be installed. Currently 8 (eight) trenches have been installed in Basin No. 3. A total of five (5) bore holes spaced at 45 feet center-to-center, each four (4) feet in diameter and forty (40) feet deep have been drilled in the bottom of each of the installed trench. The installed trenches have been lined with non-woven geotextile fabric with a flow capacity of 50 gallons per minute/square foot.

Recharge Basin No. 2 shall be modified to install trenches and bore holes to increase recharge efficiency. A total of 10 trenches, each approximately 200 feet long, 4 feet wide, and 7 feet deep will be installed. The trenches will be spaced at 45 feet center-to-center. A total of 6 bore holes, each 4 feet in diameter and 50 feet

deep will be drilled in the bottom of each trench. The bore holes in trenches 1 through 7 will be spaced at 36 feet center-to-center and at 42.5 feet center-to-center in trenches 8 through 10. The trenches will be lined with non-woven geotextile filter fabric having a flow capacity of 80 gallons per minute/square foot.

Phase II shall be located on a maximum of 12.78 acres (basin floor area) consisting of up to three recharge basins. The permittee may construct additional recharge basins during Phase II if needed. Refer to compliance schedule item (CSI) No. 3 in Section 3.0 of this permit.

All industrial hookups and other non-residential hookups to the treatment system shall be authorized according to the applicable federal, state or local regulations.

The site includes the following permitted discharging facilities:

Table 1: DISCHARGING FACILITIES		
Facility	Latitude	Longitude
Palm Valley Water Reclamation Facility	33° 27' 55" N	112° 21' 55" W
Center of the SEAP (Phase I)	33° 30' 45 " N	112° 22' 43" W
Recharge Basin No. 1 (2.26 acres)	33° 30' 41" N	112° 22' 44" W
Recharge Basin No. 2 (2.26 acres)	33° 30' 40" N	112° 22' 47" W
Recharge Basin No. 3 (2.26 acres)	33° 30' 46" N	112° 22' 48" W
Recharge Basin No. 4 (2.26 acres)	33° 30' 46" N	112° 22' 45" W
Center of the SEAP-future (Phase II)		
Recharge Basin No. 5 (4.72 acres)	33° 30' 49" N	112° 22' 38" W
Recharge Basin No. 6 (4.59 acres)	33° 30' 46" N	112° 22' 39" W
Recharge Basin No. 7 (3.47 acres)	33° 30' 42" N	112° 22' 40" W

2.1.1. Annual Registration Fee

[A.R.S. § 49-242 and A.A.C. R18-14-104]

The annual registration fee for this permit is payable to ADEQ each year. The annual registration fee flow rate is established by the permitted flow rate identified in Section 1.1. If the facility is not constructed or is incapable of discharge, the permittee may be eligible for reduced fees pursuant to A.A.C. R18-14-104(A), Table 2. Send all correspondence requesting reduced fees to the Groundwater Protection Value Stream. Please reference the permit number, LTF number, and the reason for requesting reduced fees under this rule.

2.1.2. Financial Capability

[A.R.S. § 49-243(N) and A.A.C. R18-9-A203]

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The estimated dollar amount for facility closure is \$998,525.00. The financial capability was demonstrated through a Letter of Credit A.A.C. R18-9-A203(C)(5).

2.2. BEST AVAILABLE DEMONSTRATED CONTROL TECHNOLOGY (BADCT)

[A.R.S. § 49-243(B) and A.A.C. R18-9-A202(A)(5)]

The WRF and the SEAP shall be designed, constructed, operated, and maintained to meet the treatment performance criteria for new facilities as specified in A.A.C. R18-9-B204. The facility shall meet the performance requirement for industrial pre-treatment as per A.A.C. R18-9-B204(B)(6)(b).

2.2.1. Engineering Design

Recharge Basin Nos. 2 & 3 are redesigned as per the design report titled Full-Scale Pilot Recharge at Liberty Aquifer Replenishment Facility, prepared and sealed by Norman W. Fain III, P.E.; license No. 25969, with Fluid Solutions.

The expansion of the WRF was designed and shall be constructed as per the design report stamped, dated, and signed (sealed) on November 2014, Tim Leclair, P.E., Amec Environmental & Infrastructure, Inc., and subsequent sealed submittals that served as additions to the design report. The new SEAP was designed and

shall be constructed as per the design report and plans, stamped, dated, and signed (sealed) on October 10, 2014, and the updated design plans, stamped, dated, and signed (sealed) on July 14, 2015 by Thomas Anthony Martinez, P.E., Westland Resources Inc.

2.2.2. Site-Specific Characteristics

Not applicable.

2.2.3. Pre-Operational Requirements

Prior to discharge and within 90 days of completion of construction, the permittee shall submit an Engineer's Certificate of Completion, in a format approved by the Department, which confirms that the modifications to Recharge Basin No. 2 were made according to the Department-approved design report or plans and specifications, as applicable, per the Section 3.0, Compliance Schedule Item No. 2.

2.2.4. Operational Requirements

1. The permittee shall maintain a copy of the up-to-date operations and maintenance manual at the WRF and SEAP site at all times; the manual shall be available upon request during inspections by ADEQ.
2. The pollution control structures shall be inspected for the items listed in Section 4.2, Table 8: FACILITY INSPECTION AND OPERATIONAL MONITORING.
3. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented in the facility log book as per Section 2.7.2 and reported to ADEQ in the event of a violation or exceedance as per Section 2.7.3.

2.2.5. Reclaimed Water Classification

[A.A.C. R18-9-B701(C)(2)(a), A.A.C. R18-11-303 through 307]

The treatment facility is rated as producing reclaimed water meeting the Class A+ Reclaimed Water Quality Standards (A.A.C. R18-11, Article 3) which may be used for any allowable Class A, B, or C use under a valid reclaimed water permit (A.A.C. R18-9, Article 7).

2.2.6. Certified Areawide Water Quality Management Plan Conformance

[A.A.C. R18-9-A201(B)(6)(a)]

Facility operations must conform to the approved Certified Areawide Water Quality Management Plan according to the 208 consistency determination in place at the time of permit issuance.

2.3. DISCHARGE LIMITATIONS

[A.R.S. §§ 49-201(14), 49-243 and A.A.C. R18-9-A205(B)]

1. The permittee is authorized to operate the treatment facility with a maximum monthly average daily flow of 6.55 mgd.
2. The permittee shall notify all users that the materials authorized to be disposed of through the treatment facility are typical household sewage and pre-treated commercial wastewater and shall not include motor oil, gasoline, paints, varnishes, hazardous wastes, solvents, pesticides, fertilizers or other materials not generally associated with toilet flushing, food preparation, laundry facilities and personal hygiene.
3. The permittee shall operate and maintain all permitted facilities to prevent unauthorized discharges pursuant to A.R.S. § 49-201(12) resulting from failure or bypassing of applicable BADCT.
4. Specific discharge limitations are listed in Section 4.2, Table 6: ROUTINE DISCHARGE MONITORING.

2.4. POINT OF COMPLIANCE (POC)

[A.R.S. § 49-244]

The Points of Compliance (POCs) have been established at the following locations:

Table 2: POINT OF COMPLIANCE			
POC #	POC Location	Latitude	Longitude
1	Conceptual POC located at the northwest corner of the WRF	33° 27' 57" N	112° 21' 51" W
2	Conceptual POC located at the southeast corner of the WRF	33° 27' 53" N	112° 21' 50" W
3	Conceptual POC (up-gradient) located near the southern boundary of the SEAP site. MW-1	33° 30' 36" N	112° 22' 44" W
4	Conceptual POC (down-gradient), to be located at the northern boundary of the SEAP site. MW-2	33° 30' 55" N	112° 22' 44" W

Groundwater monitoring is not required at the conceptual points of compliance, except as a contingency action at the WRF. The Director may amend this permit to require the installation of a well and the initiation of groundwater monitoring at the POC, or to designate additional points of compliance if information on groundwater gradients or groundwater usage indicates the need

2.5. MONITORING REQUIREMENTS

[A.R.S. § 49-243(K)(1), A.A.C. R18-9-A206(A)]

Unless otherwise specified in this permit, all monitoring required in this permit shall continue for the duration of the permit, regardless of the status of the facility. Unless otherwise provided, monitoring shall commence the first full monitoring period following permit issuance. All sampling, preservation and holding times shall be in accordance with currently accepted standards of professional practice. Trip blanks, equipment blanks and duplicate samples shall also be obtained, and Chain-of-Custody procedures shall be followed, in accordance with currently accepted standards of professional practice. Copies of laboratory analyses and Chain-of-Custody forms shall be maintained at the permitted facility. Upon request, these documents shall be made immediately available for review by ADEQ personnel.

2.5.1. Pre-Operational Monitoring

Not applicable.

2.5.2. Routine Discharge Monitoring

The permittee shall monitor the effluent according to the Routine Discharge Monitoring Table in Section 4.2, Table 6: ROUTINE DISCHARGE MONITORING. Representative samples of the effluent shall be collected downstream of the UV disinfection.

2.5.3. Reclaimed Water Monitoring

The permittee shall monitor the reclaimed water according to the Class A+ Reclaimed Water Monitoring Table in Section 4.2, Table 7: RECLAIMED WATER MONITORING – CLASS A+ in addition to the routine discharge monitoring parameters listed in Table 6: ROUTINE DISCHARGE MONITORING. Representative samples of the reclaimed water shall be collected at the point of discharge from the effluent pump station.

2.5.4. Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.2, Table 8: FACILITY INSPECTION AND OPERATIONAL MONITORING.

If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented in the facility log book as per Section 2.7.2 and reported to ADEQ in case of a violation or exceedance as per Section 2.7.3.

2.5.5. Groundwater Monitoring and Sampling Protocols

Groundwater Monitoring is not required.

2.5.6. Surface Water Monitoring and Sampling Protocols

Routine surface water monitoring is not required under the terms of this permit. Discharges to the RID canal are exempt from APP requirements pursuant to A.R.S. § 49-250(B)(6) and (16).

2.5.7. Analytical Methodology

All samples collected for compliance monitoring shall be analyzed using Arizona state-approved methods. If no state-approved method exists, then any appropriate EPA-approved method shall be used. Regardless of the method used, the detection limits must be sufficient to determine compliance with the regulatory limits of the parameters specified in this permit. If all methods have detection limits higher than the applicable limit, the permittee shall follow the applicable contingency requirements of Section 2.6 and may propose "other actions" including amending the permit to set higher limits. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification unless exempted under A.R.S. 36-495.02. For results to be considered valid, all analytical work shall meet quality control standards specified in the approved methods. A list of state-certified laboratories in Arizona can be obtained at the address below:

Arizona Department of Health Services
Office of Laboratory Licensure and Certification
250 North 17th Avenue
Phoenix, Arizona 85007
Phone: (602) 364-0720

2.5.8. Installation and Maintenance of Monitoring Equipment

Monitoring equipment required by this permit shall be installed and maintained so that representative samples required by the permit can be collected. If new groundwater wells are determined to be necessary, the construction details shall be submitted to the Groundwater Protection Value Stream for approval prior to installation and the permit shall be amended to include any new monitoring points.

2.6. CONTINGENCY PLAN REQUIREMENTS

[A.R.S. § 49-243(K)(3), (K)(7) and A.A.C. R18-9-A204 and R18-9-A205]

2.6.1. General Contingency Plan Requirements

At least one copy of this permit and the approved contingency and emergency response plan (see Section 5.0) shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. The permittee shall be aware of and follow the contingency and emergency plans.

Any AL exceedance, or violation of an AQL, DL, or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3, unless more specific reporting requirements are set forth in Section 2.6.2 through 2.6.5.

Some contingency actions involve verification sampling. Verification sampling shall consist of the first follow-up sample collected from a location that previously indicated a violation or the exceedance of an AL. Collection and analysis of the verification sample shall use the same protocols and test methods to analyze for the pollutant or pollutants that exceeded an AL or violated an AQL or DL. Where verification sampling is specified in this permit, it is the option of the permittee to perform such sampling. If verification sampling

is not conducted within the timeframe allotted, ADEQ and the permittee shall presume the initial sampling result to be confirmed as if verification sampling had been conducted. The permittee is responsible for compliance with contingency plans relating to the exceedance of an AL or violation of a DL, AQL or any other permit condition. The permittee is subject to enforcement action for the failure to comply with any contingency actions in this permit.

2.6.2. Exceeding of Alert Levels and Performance Levels

2.6.2.1. Exceeding of Performance Levels Set for Operational Conditions

For freeboard performance levels, the permittee shall comply with the requirements as specified in Section 4.2, Table 8: FACILITY INSPECTION AND OPERATIONAL MONITORING to prevent the overtopping of an impoundment or sludge drying bed. If an impoundment or sludge drying bed is overtopped, the permittee shall follow the requirements in Section 2.6.5.3 and the reporting requirements of Section 2.7.3.

If a performance level set in Section 4.2, Table 8: FACILITY INSPECTION AND OPERATIONAL MONITORING has been exceeded the permittee shall:

1. Notify the Groundwater Protection Value Stream within five (5) days of becoming aware of the exceedance.
2. Submit a written report to the Groundwater Protection Value Stream within 30 days after becoming aware of the exceedance. The report shall document all of the following:
 - a. A description of the exceedance and the cause of the exceedance;
 - b. The period of the exceedance, including exact date(s) and time(s), if known, and the anticipated time period during which the exceedance is expected to continue;
 - c. Any action taken or planned to mitigate the effects of the exceedance or spill, or to eliminate or prevent recurrence of the exceedance or spill;
 - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS; and
 - e. Any malfunction or failure of pollution control devices or other equipment or process.
3. The facility is no longer on alert status once the operational indicator no longer indicates that a performance level is being exceeded. The permittee shall, however, complete all tasks necessary to return the facility to its pre-alert operating condition.

2.6.2.2. Exceeding of Alert Levels (ALs) Set for Discharge Monitoring

1. If an AL set in Section 4.2, Table 6: ROUTINE DISCHARGE MONITORING has been exceeded, the permittee shall immediately investigate to determine the cause. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the exceedance;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences; and
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the exceedance, the permittee shall sample individual waste streams composing the wastewater for the parameter(s) in question, if necessary to identify the cause of the exceedance.
2. The permittee shall initiate actions identified in the approved contingency plan referenced in Section 5.0 and specific contingency measures identified in Section 2.6 to resolve any problems identified

by the investigation which may have led to the AL exceedance. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6.

3. Within thirty days of an AL exceedance, the permittee shall submit the laboratory results to the Groundwater Protection Value Stream along with a summary of the findings of the investigation, the cause of the exceedance, and actions taken to resolve the problem.
4. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.2.2.1. Exceeding Permit Flow Limit

If the AL for average monthly flow in Section 4.2, Table 6: ROUTINE DISCHARGE MONITORING has been exceeded, the permittee shall submit an application to the Groundwater Protection Value Stream for a permit amendment to expand the treatment facility, or submit a report detailing the reasons an expansion is not necessary. Acceptance of the report instead of an application for amendment requires ADEQ approval.

2.6.3. Discharge Limit Violation

1. If a DL set in Section 4.2, Table 6: ROUTINE DISCHARGE MONITORING or Table 7: RECLAIMED WATER MONITORING – CLASS A+ has been violated, the permittee shall immediately investigate to determine the cause. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the violation;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences;
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the violation, the permittee shall sample individual waste streams composing the wastewater for the parameters in violation, as necessary to identify the cause of the violation.

The permittee shall submit a report to the Groundwater Protection Value Stream according to Section 2.7.3, which includes a summary of the findings of the investigation, the cause of the violation, and actions taken to resolve the problem. The permittee shall consider and ADEQ may require corrective action that may include control of the source of discharge, cleanup of affected soil, surface water or groundwater, notification of downstream or downgradient users who may be directly affected by the discharge, and mitigation of the impact of pollutants on existing uses of the aquifer. Corrective actions shall either be specifically identified in this permit, included in an ADEQ-approved contingency plan, or separately approved according to Section 2.6.6.

2. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions, or other actions.

2.6.4. Aquifer Quality Limit Violation

Not applicable - groundwater monitoring is not required under this permit.

2.6.5. Emergency Response and Contingency Requirements for Unauthorized Discharges

[A.R.S. § 49-201(12) AND PURSUANT TO A.R.S. § 49-241]

2.6.5.1. Duty to Respond

The permittee shall act immediately to correct any condition resulting from a discharge pursuant to A.R.S. § 49-201(12) if that condition could pose an imminent and substantial endangerment to public health or the environment.

2.6.5.2. Discharge of Hazardous Substances or Toxic Pollutants

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of suspected hazardous substances (A.R.S. § 49-201(19)) or toxic pollutants (A.R.S. § 49-243(I)) on the facility site, the permittee shall promptly isolate the area and attempt to identify the discharged material. The permittee shall record information, including name, nature of exposure and follow-up medical treatment, if necessary, on persons who may have been exposed during the incident. The permittee shall notify the Groundwater Protection Value Stream within 24 hours of discovering the discharge of hazardous material which (a) has the potential to cause an AWQS or AQL exceedance, or (b) could pose an endangerment to public health or the environment.

2.6.5.3. Discharge of Non-Hazardous Materials

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of non-hazardous materials from the facility, the permittee shall promptly attempt to cease the discharge and isolate the discharged material. Discharged material shall be removed and the site cleaned up as soon as possible. The permittee shall notify the Groundwater Protection Value Stream within 24 hours of discovering the discharge of non-hazardous material which has the potential to cause an AQL exceedance, or could pose an endangerment to public health or the environment.

2.6.5.4. Reporting Requirements

The permittee shall submit a written report for any unauthorized discharges reported under Sections 2.6.5.2 and 2.6.5.3 to the Groundwater Protection Value Stream within 30 days of the discharge or as required by subsequent ADEQ action. The report shall summarize the event, including any human exposure, and facility response activities and include all information specified in Section 2.7.3. If a notice is issued by ADEQ subsequent to the discharge notification, any additional information requested in the notice shall also be submitted within the time frame specified in the notice. Upon review of the submitted report, ADEQ may require additional monitoring or corrective actions.

2.6.6. Corrective Actions

Specific contingency measures identified in Section 2.6 have already been approved by ADEQ and do not require written approval to implement.

With the exception of emergency response actions taken under Section 2.6.5, the permittee shall obtain written approval from the Groundwater Protection Value Stream prior to implementing a corrective action to accomplish any of the following goals in response to exceedance of an AL, AQL, DL, or other permit condition:

1. Control of the source of an unauthorized discharge;
2. Soil cleanup;
3. Cleanup of affected surface waters;
4. Cleanup of affected parts of the aquifer;
5. Mitigation to limit the impact of pollutants on existing uses of the aquifer.

Within 30 days of completion of any corrective action, the operator shall submit to the Groundwater Protection Value Stream, a written report describing the causes, impacts, and actions taken to resolve the problem.

2.7. REPORTING AND RECORDKEEPING REQUIREMENTS

[A.R.S. § 49-243(K)(2), A.A.C. R18-9-A206(B), R18-9-A207, and R18-5-104]

2.7.1. Self-Monitoring Report Form

1. The permittee shall complete the Self-Monitoring Reporting Forms (SMRFs) provided by ADEQ, and submit the completed report through the myDEQ online reporting system. The permittee shall use the format devised by ADEQ.
2. The permittee shall complete the SMRF to the extent that the information reported may be entered on the form. If no information is required during a reporting period, the permittee shall enter "not required" on the form, include an explanation, and submit the form to the Groundwater Protection Value Stream.
3. The tables contained in Section 4.0 list the monitoring parameters and the frequencies for reporting results on the SMRF:
 - a. Table 6: ROUTINE DISCHARGE MONITORING
 - b. Table 7: RECLAIMED WATER MONITORING – CLASS A+

The parameters listed in the above-identified tables from Section 4.0 are the only parameters for which SMRF reporting is required.

2.7.2. Operation Inspection / Log Book Recordkeeping

A signed copy of this permit shall be maintained at all times at the location where day-to-day decisions regarding the operation of the facility are made. A log book (paper copies, forms, or electronic data) of the inspections and measurements required by this permit shall be maintained at the location where day-to-day decisions are made regarding the operation of the facility. The log book shall be retained for ten years from the date of each inspection, and upon request, the permit and the log book shall be made immediately available for review by ADEQ personnel. The information in the log book shall include, but not be limited to, the following information as applicable:

1. Name of inspector;
2. Date and shift inspection was conducted;
3. Condition of applicable facility components;
4. Any damage or malfunction, and the date and time any repairs were performed;
5. Documentation of sampling date and time; and
6. Any other information required by this permit to be entered in the log book.
7. Monitoring records for each measurement shall comply with A.A.C. R18-9-A206(B)(2).

2.7.3. Permit Violation and Alert Level Status Reporting

1. The permittee shall notify the Groundwater Protection Value Stream within five (5) days (except as provided in Section 2.6.5) of becoming aware of an AL exceedance, or violation of any permit condition, AQL, or DL for which notification requirements are not specified in Sections 2.6.2 through 2.6.5.
2. The permittee shall submit a written report to the Groundwater Protection Value Stream within 30 days of becoming aware of the violation of any permit condition, AQL, or DL. The report shall document all of the following:
 - a. Identification and description of the permit condition for which there has been a violation and a description of the cause;
 - b. The period of violation including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue;

- c. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation;
- d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS;
- e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring; and
- f. Description of any malfunction or failure of pollution control devices or other equipment or processes.

2.7.4. Operational, Other or Miscellaneous Reporting

The permittee shall record the information as required in Section 4.2, Table 8: FACILITY INSPECTION AND OPERATIONAL MONITORING in the facility log book as per Section 2.7.2, and report to the Groundwater Protection Value Stream any violations or exceedances as per Section 2.7.3.

If the treatment facility is classified for reclaimed water under this permit, the permittee shall submit the reclaimed water monitoring results and flow volumes to any of the following in accordance with A.A.C. R18-9-B701(C)(2)(c):

- 1. Any reclaimed water agent who has contracted for delivery of reclaimed water from the permittee; and
- 2. Any end user who has not waived interest in receiving this information.

2.7.5. Reporting Location

All Self-Monitoring Report Forms (SMRFs) shall be submitted through the myDEQ portal accessible on the ADEQ website at: <http://www.azdeq.gov/welcome-mydeq>

All other documents required by this permit shall be mailed to:

The Arizona Department of Environmental Quality
Groundwater Protection Value Stream
Mail Code 5415B-3
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4571

2.7.6. Reporting Deadline

The following table lists the quarterly report due dates:

Table 3: QUARTERLY REPORTING DEADLINES	
Monitoring Conducted During Quarter:	Quarterly Report Due By:
January-March	April 30
April-June	July 30
July-September	October 30
October-December	January 30

The following table lists the semi-annual and annual report due dates if applicable:

Table 4: SEMI-ANNUAL REPORTING DEADLINES	
Monitoring Conducted:	Report Due By:
Semi-annual: January-June	July 30
Semi-annual: July-December	January 30
Annual: January-December	January 30

2.7.7. Changes To Facility Information In Section 1.0

The Groundwater Protection Value Stream shall be notified within ten days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person, certified operator in direct responsible charge or Emergency Telephone Number.

2.8. Temporary Cessation

[A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A209(A)]

The permittee shall give written notice to the Groundwater Protection Value Stream before ceasing operation of the facility for a period of 60 days or greater. The permittee shall take the following measures upon temporary cessation:

- If applicable, direct the wastewater flows from the facility to another state-approved wastewater treatment facility;
- Correct the problem that caused the temporary cessation of the facility; and
- Notify the Groundwater Protection Value Stream with a monthly facility status report describing the activities conducted on the treatment facility to correct the problem.
- Submittal of Self-Monitoring Report Forms (SMRFs) is still required; report “temporary cessation” in the comment section.

At the time of notification the permittee shall submit for ADEQ approval a plan for maintenance of discharge control systems and for monitoring during the period of temporary cessation. Immediately following ADEQ approval, the permittee shall implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. During the period of temporary cessation, the permittee shall provide written notice to the Groundwater Protection Value Stream of the operational status of the facility every three years. If the permittee intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

2.9. Closure

[A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9-A209(B)]

For a facility addressed under this permit, the permittee shall give written notice of closure to the Groundwater Protection Value Stream of the intent to cease operation without resuming activity for which the facility was designed or operated. Submittal of SMRFs is still required; report “closure in process” in the comment section.

2.9.1. Closure Plan

Within 90 days following notification of closure, the permittee shall submit for approval to the Groundwater Protection Value Stream, a closure plan which meets the requirements of A.R.S. § 49-252 and A.A.C. R18-9-A209(B)(3).

If the closure plan achieves clean-closure immediately, ADEQ shall issue a letter of approval to the permittee. If the closure plan contains a schedule for bringing the facility to a clean-closure configuration at a future date, ADEQ may incorporate any part of the schedule as an amendment to this permit.

2.9.2. Closure Completion

Upon completion of closure activities, the permittee shall give written notice to the Groundwater Protection Value Stream indicating that the approved closure plan has been implemented fully and providing supporting documentation to demonstrate that clean-closure has been achieved (soil sample results, verification sampling results, groundwater data, as applicable). If clean-closure has been achieved, ADEQ shall issue a letter of approval to the permittee at that time. If any of the following conditions apply, the permittee shall follow the terms of post-closure stated in this permit:

1. Clean-closure cannot be achieved at the time of closure notification or within one year thereafter under a diligent schedule of closure actions;
2. Further action is necessary to keep the facility in compliance with the AWQS at the applicable POC or, for any pollutant for which the AWQS was exceeded at the time this permit was issued, further action is necessary to prevent the facility from further degrading the aquifer at the applicable POC with respect to that pollutant;
3. Remedial, mitigative or corrective actions or controls are necessary to comply with A.R.S. § 49-201(30) and Title 49, Chapter 2, Article 3;
4. Further action is necessary to meet property use restrictions.

2.10. Post-closure

[A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9 A209(C)]

Post-closure requirements shall be established based on a review of facility closure actions and will be subject to review and approval by the Groundwater Protection Value Stream.

In the event clean-closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to the Groundwater Protection Value Stream a post-closure plan that addresses post-closure maintenance and monitoring actions at the facility. The post-closure plan shall meet all requirements of A.R.S. §§ 49-201(30) and 49-252 and A.A.C. R18-9-A209(C). Upon approval of the post-closure plan, this permit shall be amended or a new permit shall be issued to incorporate all post-closure controls and monitoring activities of the post-closure plan.

2.10.1. Post-Closure Plan

A specific post-closure plan may be required upon the review of the closure plan.

2.10.2. Post-Closure Completion

Not required at the time of permit issuance.

3.0 COMPLIANCE SCHEDULE

[A.R.S. § 49-243(K)(5) and A.A.C. R18-9-A208]

Unless otherwise indicated, for each compliance schedule item listed below, the permittee shall submit the required information to the Groundwater Protection Value Stream.

Table 5: COMPLIANCE SCHEDULE ITEMS			
No.	Description	Due By:	Permit Amendment Required?
1	The permittee is required to submit a signed, dated and sealed Engineer’s Certificate of Completion (ECOC) if the remaining two trenches are installed in Recharge Basin No. 3.	Within 90 days installation of the remaining two trenches in Recharge Basin No. 3..	No
2	The permittee is required to submit a signed, dated and sealed Engineer’s Certificate of Completion (ECOC) for the design changes made to Recharge Basin No. 2.	Within 90 days of completion of construction.	No
3	The permittee shall amend this permit if recharge basins in the Phase II SEAP are constructed. The permittee shall submit design document for any changes to the overall design of the Phase II recharge basins.	Within three months of decision to implement	Yes
4	Permittee shall provide as-built plans for the Phase II SEAP facility.	Within 90 days of completion.	No
5	The permittee shall submit a demonstration that the financial assurance mechanism listed in Section 2.1, Financial Capability, is being maintained as per A.R.S. 49-243.N.4 and A.A.C. R18-9-A203(H) for all estimated closure and post-closure costs including updated costs submitted under Section 3.13, below. The demonstration shall include a statement that the closure and post-closure strategy has not changed, the discharging facilities listed in the permit have not been altered in a manner that would affect the closure and post-closure costs and discharging facilities have not been added. The demonstration shall also include information in support of a Letter of Credit as required in A.A.C. R18-9-A203(C)(5).	On or before January 29, 2022 and every 6 years for the duration of the permit.	No
6	The permittee shall submit updated cost estimates for facility closure and post-closure, as per A.A.C. R18-9-A201(B)(5) and A.R.S. 49-243.N.2.a, and an updated financial assurance demonstration for the updated cost estimate as per A.A.C. R18-9-A203.	On or before January 29, 2022 and every 6 years for the duration of the permit.	Yes

4.0 TABLES OF MONITORING REQUIREMENTS

4.1. PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)

Not applicable.

4.2. COMPLIANCE OR OPERATIONAL MONITORING

Table 6: ROUTINE DISCHARGE MONITORING

Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
1	Downstream of the UV Channel (Sampling Port-15 feet of UV Stream Channel)			33° 27' 55" N	112° 21' 56" W
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Total Flow ¹ : Daily ²	Not Established ³	Not Established	mgd ⁴	Daily	Quarterly
Total Flow: Monthly Average ⁵	6.2	6.55	mgd	Monthly Calculation	Quarterly
Reuse Flow: Daily	Not Established	6.55	mgd	Daily	Quarterly
Reuse Flow: Monthly Average	Not Established	6.55	mgd	Monthly Calculation	Quarterly
<i>E. coli</i> :					
Single sample maximum	Not Established	15.0	MPN ⁶	Daily ⁷	Quarterly
<i>E. coli</i> : four (4) of seven (7) samples in a week ⁸	Not Established	Absence	MPN	Weekly Calculation	Quarterly
Total Nitrogen ⁹ : Five-sample rolling geometric mean ¹⁰	8.0	10.0	mg/l ¹¹	Monthly Calculation ¹²	Quarterly
Metals (Total)					
Antimony	0.0048	0.006	mg/l	Quarterly	Quarterly
Arsenic	0.04	0.05	mg/l	Quarterly	Quarterly
Barium	1.60	2.00	mg/l	Quarterly	Quarterly
Beryllium	0.0032	0.004	mg/l	Quarterly	Quarterly
Cadmium	0.004	0.005	mg/l	Quarterly	Quarterly
Chromium	0.08	0.1	mg/l	Quarterly	Quarterly
Cyanide (as free cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly
Fluoride	3.2	4.0	mg/l	Quarterly	Quarterly
Lead	0.04	0.05	mg/l	Quarterly	Quarterly
Mercury	0.0016	0.002	mg/l	Quarterly	Quarterly
Nickel	0.08	0.1	mg/l	Quarterly	Quarterly
Selenium	0.04	0.05	mg/l	Quarterly	Quarterly
Thallium	0.0016	0.002	mg/l	Quarterly	Quarterly

¹Total flow for all methods of disposal (On-site process use, reclaimed water, discharge to the RID canal, the City of Goodyear 157th Avenue WRF and flow from the City of Goodyear 157th Avenue WRF)

²Flow shall be measured using a continuous recording flow meter which totals the flow daily.

³Not Established means monitoring is required but no limits are specified.

⁴mgd = million gallons per day

⁵Monthly Average = Calculated value; average of daily flow values in a month.

⁶MPN = Most Probable Number / 100 ml sample. For MPN, a value of <2.2 shall be considered to be absence.

⁷For *E. coli*, "daily" sampling means every day in which a sample can practicably be obtained and delivered in sufficient time for proper analysis, provided that no less than four samples in each week are obtained and analyzed.

⁸To determine the appropriate start date begin with the last date in the reporting period on the SMRF and count seven (7) days backwards. If a minimum of four (4) samples in a seven (7) day period are non-detect (for CFU, a value of <1 is considered to be non-detect), report "yes" in the appropriate date on the SMRF (indicating that the standard has been met). If a minimum of four (4) samples in a seven (7) day period have detections of *E. coli*, report "no" in the appropriate date on the SMRF (indicating that the standard has not been met). 'Yes' or 'No' should be entered for every day in the reporting period.

⁹Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen

¹⁰The five-sample rolling geometric mean is determined by multiplying the five (5) most recent monthly sample values together then taking the fifth root of the product. Example: $GM_5 = \sqrt[5]{(m_1)(m_2)(m_3)(m_4)(m_5)}$

¹¹mg/l = milligrams per liter

¹²A five-month geometric mean of the results of the five (5) most recent samples

Table 6: ROUTINE DISCHARGE MONITORING

Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
1	Downstream of the UV Channel (Sampling Port-15 feet of UV Stream Channel)			33° 27' 55" N	112° 21' 56" W
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Volatile and Semi-Volatile Organic Compounds (VOCs and SVOCs):					
Benzene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	0.48	0.6	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.56	0.7	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	0.0008	0.001	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Styrene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Toluene	0.8	1.0	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total) ¹³	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	8.0	10.0	mg/l	Semi-Annually	Semi-Annually

Table 6: ROUTINE DISCHARGE MONITORING - Continued

Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
2	Flow meter at the connection to the City of Goodyear 157th Avenue WRF reclaimed water distribution system, located 3,000 feet west of Palm Valley WRF, at the intersection of McDowell Road and Bullard Avenue			33° 27' 51.48" N	112° 22' 31.08" W
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Flow from the Palm Valley WRF reclaimed water distribution system to the City of Goodyear 157th Avenue WRF reclaimed water distribution system	Not Established ¹⁴	Not Established	mgd ¹⁵	Daily	Quarterly
Flow from the City of Goodyear 157th Avenue WRF reclaimed water distribution system to the Palm Valley WRF reclaimed water distribution system	Not Established	Not Established	mgd	Daily	Quarterly

¹³ Total Trihalomethanes (TTHMs) are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane

¹⁴ Not Established = Monitoring is required but no limits are specified.

¹⁵mgd = million gallons per day

Table 6: ROUTINE DISCHARGE MONITORING - Continued

Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
3	Flow meter (Flows to the SEAP)			33° 30' 37" N	112° 22' 45" W
Parameter	AL ¹⁶	DL ¹⁷	Units	Sampling Frequency	Reporting Frequency
Total Flow ¹⁸ ; Daily ¹⁹	Not Established	5.4gd 6,000 AFY ²⁰	mgd	Daily	Quarterly
Total Flow: Monthly Average ²¹	Not Established	Not Established	mgd	Monthly Calculation	Quarterly

¹⁶ AL = Alert Level

¹⁷ DL = Discharge Limit

¹⁸ Total to the SEAP

¹⁹ Flow shall be measured using a continuous recording flow meter which totals the flow daily

²⁰ AFY=acre feet per year

²¹ Monthly average of daily flow values

Table 7: RECLAIMED WATER MONITORING – CLASS A+

Reclaimed water monitoring under this Table 7: RECLAIMED WATER MONITORING – CLASS A+ shall be performed in addition to routine discharge monitoring required under Section 4.2, Table 6: ROUTINE DISCHARGE MONITORING				
Sampling Point Number	Sampling Point Identification		Latitude (North)	Longitude (West)
2	At the point of discharge from the UV disinfection system		32° 59' 55.35" N	112° 2.4' 00.18" W
Parameter	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Total Nitrogen ²² : Five-sample rolling geometric mean	10.0	mg/l	Monthly Calculation	Quarterly
E. coli: Single-sample maximum	15.0	MPN ²³	Daily ²⁴	Quarterly
E. coli: Four (4) of last seven (7) samples	Non-detect ²⁵	MPN	Daily Evaluation	Quarterly
Turbidity ²⁶ : Single reading	5.0	NTU ²⁷	Daily ²⁸	Quarterly
Turbidity: 24-hour average	2.0	NTU	Daily Calculation	Quarterly
Enteric Virus: Four (4) of last seven (7) samples	Non-detect	MPN	Suspended/ Monthly ²⁹	Quarterly

²² Nitrate N, plus Nitrite N, plus Total Kjeldahl Nitrogen (TKN)

²³ MPN = Most Probable Number per 100 ml. For MPN, a value of <2.2 shall be considered to be non-detect.

²⁴ For *E. coli*, “daily” sampling means every day in which a sample can practicably be obtained and delivered in sufficient time for proper analysis, provided that no less than four (4) samples in each seven-day period are obtained and analyzed.

²⁵ Requires entering “Compliance” or “Non-compliance” on the SMRF for each day of the reporting period. Evaluate the daily *E. coli* result along with the six (6) previous sample results. If four (4) or more of those results are non-detect, report “Compliance” for that day’s entry on the SMRF. If four (4) or more of those results have detections of *E. coli*, report “Non-compliance” for that day’s entry.

²⁶ Turbidimeter shall have a signal averaging time not exceeding 120 seconds. Occasional spikes due to back-flushing or instrument malfunction shall not be considered an exceedance. All exceedances must be explained and submitted to the Department with the corresponding quarterly SMRF.

²⁷ NTU = Nephelometric Turbidity Units

²⁸ For the single turbidity reading, “everyday” means the maximum reading during the 24-hour period.

²⁹ Enteric virus sampling shall resume only when the discharge limit for the 24-hour average for turbidity is exceeded for two (2) consecutive 24-hour monitoring periods. Monthly enteric virus monitoring shall continue until four (4) out of seven (7) consecutive sample results show no detection. During times when enteric virus sampling is suspended, enter “suspended” in the appropriate space on the SMRF.

Table 8: FACILITY INSPECTION AND OPERATIONAL MONITORING

The permittee shall record the inspection performance levels in a log book as per Section 2.7.2, and report any violations or exceedances as per Section 2.7.3. In the case of an exceedance, identify which structure exceeds the performance level in the log book.

Pollution Control Structure/Parameter	Performance Level	Inspection Frequency	Reporting Frequency
Recharge Basin Freeboard	One (1) Linear Foot ³⁰	Weekly	See Section 2.7.3
Pump Integrity	Good working condition	Weekly	
Treatment Plant Components	Good working condition	Weekly	
Recharge Basin Integrity	No visible structural damage, breach, or erosion of embankments	Monthly	

³⁰ As levels in the bores rise into the trenches due to declining rates, flows shall be diverted towards a new trench. Flows shall be balanced between various basins as necessary for optimal efficiency.

5.0 REFERENCES AND PERTINENT INFORMATION

The terms and conditions set forth in this permit have been developed based upon the information contained in the following, which are on file with the Department:

APP Application, dated: May 7, 2021

Contingency Plan, dated: August 2010

6.0 NOTIFICATION PROVISIONS

6.1. Annual Registration Fees

The permittee is notified of the obligation to pay an Annual Registration Fee to ADEQ. The Annual Registration Fee is based on the amount of daily influent or discharge of pollutants in gallons per day (gpd) as established by A.R.S. § 49-242.

6.2. Duty to Comply

[A.R.S. §§ 49-221 through 263]

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2 and 3 of the Arizona Revised Statutes, Title 18, Chapter 9, Articles 1 through 4, and Title 18, Chapter 11, Article 4 of the Arizona Administrative Code. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 or permit amendment, suspension, or revocation.

6.3. Duty to Provide Information

[A.R.S. §§ 49-243(K)(2) and 49-243(K)(8)]

The permittee shall furnish to the Director, or an authorized representative, within a time specified, any information which the Director may request to determine whether cause exists for amending or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

6.4. Compliance with Aquifer Water Quality Standards

[A.R.S. §§ 49-243(B)(2) and 49-243(B)(3)]

The permittee shall not cause or contribute to a violation of an Aquifer Water Quality Standard (AWQS) at the applicable point of compliance (POC) for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an AWQS for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable point of compliance for the facility, the water quality of any aquifer for that pollutant.

6.5. Technical and Financial Capability

[A.R.S. §§ 49-243(K)(8) and 49-243(N) and A.A.C. R18-9-A202(B) and R18-9-A203(E) and (F)]

The permittee shall have and maintain the technical and financial capability necessary to fully carry out the terms and conditions of this permit. Any bond, insurance policy, trust fund, or other financial assurance mechanism provided as a demonstration of financial capability in the permit application, pursuant to A.A.C. R18-9-A203(C), shall be in effect prior to any discharge authorized by this permit and shall remain in effect for the duration of the permit.

6.6. Reporting of Bankruptcy or Environmental Enforcement

[A.A.C. R18-9-A207(C)]

The permittee shall notify the Director within five days after the occurrence of any one of the following:

1. the filing of bankruptcy by the permittee; or
2. the entry of any order or judgment not issued by the Director against the permittee for the enforcement of any environmental protection statute or rule.

6.7. Monitoring and Records

[A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A206]

The permittee shall conduct any monitoring activity necessary to assure compliance with this permit, with the applicable water quality standards established pursuant to A.R.S. §§ 49-221 and 49-223 and §§ 49-241 through 49-252.

6.8. Inspection and Entry

[A.R.S. §§ 49-1009, 49-203(B), and 49-243(K)(8)]

In accordance with A.R.S. §§ 41-1009 and 49-203(B), the permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to enter and inspect the facility as reasonably necessary to ensure compliance with Title 49, Chapter 2, Article 3 of the Arizona Revised Statutes, and Title 18, Chapter 9, Articles 1 through 4 of the Arizona Administrative Code and the terms and conditions of this permit.

6.9. Duty to Modify

[A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A211]

The permittee shall apply for and receive a written amendment before deviating from any of the designs or operational practices authorized by this permit.

6.10. Permit Action: Amendment, Transfer, Suspension, and Revocation

[A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

This permit may be amended, transferred, suspended, or revoked for cause, under the rules of the Department. The permittee shall notify the Groundwater Protection Value Stream in writing within 15 days after any change in the owner or operator of the facility. The notification shall state the permit number, the name of the facility, the date of property transfer, and the name, address, and phone number where the new owner or operator can be reached. The operator shall advise the new owner or operators of the terms of this permit and the need for permit transfer in accordance with the rules.

7.0 ADDITIONAL PERMIT CONDITIONS

7.1. Other Information

[A.R.S. § 49-243(K)(8)]

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall promptly submit the correct facts or information.

7.2. Severability

[A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition.

7.3. Permit Transfer

This permit may not be transferred to any other person except after notice to and approval of the transfer by the Department. No transfer shall be approved until the applicant complies with all transfer requirements as specified in A.A.C. R18-9-A212(B) and (C).

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Exhibit 15
Wastewater Use Data Sheet

Exhibit 15 - Table of Flows at PVWRF

Year	Month	Av Flow MGD	Peak Flow MGD
2021	June	5.105	5.641
2021	July	5.346	6.515
2021	August	5.492	5.931
2021	September	5.646	6.196
2021	October	5.764	6.127
2021	November	5.509	5.840
2021	December	5.701	6.142
2022	January	5.957	6.598
2022	February	5.887	6.393
2022	March	5.769	6.259
2022	April	5.958	6.370
2022	May	5.847	6.345
2022	June	5.830	6.418
2022	July	5.770	6.380
2022	August	5.808	6.157
2022	September	5.854	6.275
2022	October	5.968	6.376
2022	November	5.945	6.424
2022	December	5.855	6.197
2023	January	6.108	6.808
2023	February	6.088	6.620
2023	March	6.225	6.652
2023	April	6.230	6.657

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Exhibit 16
ADEQ Policy

Scheiferstein, Paloma

From: Naveen Savarirayan <savarirayan.naveen@azdeq.gov>
Sent: Friday, April 14, 2023 3:11 PM
To: Trevor Baggioire; Randall Matas; Amanda Stone; Karen Peters; Edwin Slade; Veronica Cabral - AZDEQ; Jon Rezabek
Subject: Final 4.01 General Permit Policy (Pending Publication as an SPS)
Attachments: Final 4.01 Policy Pending Publication.pdf

[EXTERNAL] savarirayan.naveen@azdeq.gov

Hi All,

I want to thank everyone for your contributions in the drafting of this policy. Attached is the final policy pending its publication as an ADEQ Substantive Policy Statement (SPS). Although publication as an SPS is forthcoming, this policy is considered effective immediately. If you have any questions or concerns please reach out to Randall Matas or Trevor Baggioire.

Sincerely,

Naveen Savarirayan

Manager, Groundwater Protection Value Stream
Office: 602-771-2285
Mobile: 602-397-8395



azdeq.gov

Your feedback matters to ADEQ. Visit azdeq.gov/feedback

Final Substantive Policy (Pending Publication) - 4.01 General Permits as it relates to WWTP Capacity

This draft substantive policy will assist both regulators and applicants on the approval process for 4.01 General Permits for Sewage Collection Systems (SCS) under the Aquifer Protection Program (APP) by clarifying the requirements that must be met by both applicants for a 4.01 GP and the downstream wastewater treatment plant (WWTP) providing service for the wastewater as it relates to the capacity of the WWTP to provide service to the 4.01 applicant. This policy incorporates the accompanying flowchart.

Definitions:

1. **AOC:** Approval of Construction (same meaning as **DA**)
2. **APP Permit Approved Capacity:** The treatment capacity authorized in the most recently issued APP Permit
3. **ATC:** Approval to Construct (same meaning as **CA**)
4. **CA:** Construction Authorization (ADEQ terminology)
5. **Capacity Assurance Form:** Form Required as part of **CA/ATC** application submittal (https://static.azdeq.gov/forms/scs_facility.pdf)
6. **Constructed Capacity:** Actual design flow of the components of the facility that have been built and are fully functional and in compliance with the current APP Permit
7. **DA:** Discharge Authorization (ADEQ terminology)
8. **Facility:** Downstream Receiving WWTP
9. **Operational Flow:** The maximum monthly average flow in the preceding 12-months. For the purpose of this policy flow is measured as effluent from a WWTP.
10. **Total Commitments:** Summation of all capacity assurances issued by the receiving facility for which actual discharge has not occurred
11. **Total Committed Capacity:** Means **Operational Flow** plus **Total Commitments**

Arizona Administrative Code (A.A.C.) R18-9-E301(C)(1) requires an applicant to provide a signed statement by the owner or operator of the wastewater treatment facility that will be treating the sewage from the proposed sewage collection system.

The statement must be provided on the ADEQ form (CAPACITY ASSURANCE - SEWAGE TREATMENT FACILITY)¹ and shall include the following as noted on the form:

¹ https://static.azdeq.gov/forms/scs_facility.pdf

1. A statement that affirms that the additional volume of wastewater delivered to the wastewater treatment facility by the proposed sewage collection system will not cause any flow or effluent quality limits of the individual permit for the WWTP to be exceeded; and
2. The proposed volume of additional sewage to be processed by the WWTP from the new SCS; and
3. The **APP Approved Capacity** of the WWTP authorized in the most recently issued Aquifer Protection Program (APP) Permit; and
4. The **Constructed Capacity** and **Operational Flow** of the facility; and
5. The **Total Committed Capacity**. For the purpose of this policy **Total Committed Capacity** includes the sum of the **Operation Flow**, plus the **Total Commitments** provided by the WWTP on ADEQ's approved Capacity Assurance Form².

ADEQ interprets the language "A statement that affirms that the additional volume of wastewater delivered to the wastewater treatment facility by the proposed sewage collection system will not cause any flow...limits of the individual permit for the WWTP to be exceeded" to mean that the submission of a **Capacity Assurance Form** is a commitment from the WWTP to provide service to the applicant and is a reservation of capacity for the applicant. *Please note that other contractual agreements, regarding a reservation of capacity are solely the responsibility of the discharger and the utility.* ADEQ will not issue any approvals except those that have an accompanying **Capacity Assurance Form**.

Additional Notes:

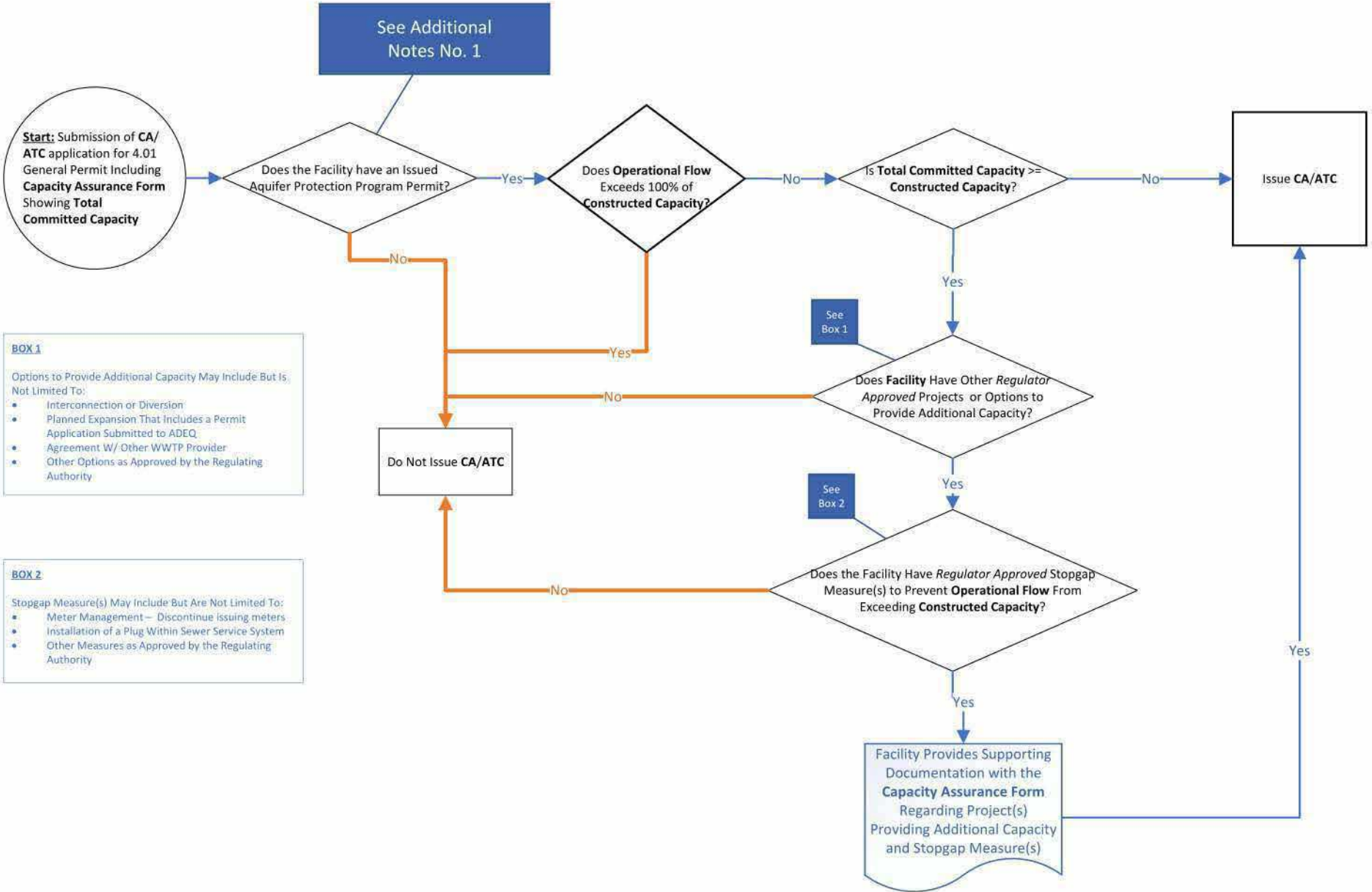
1. Utilization of this policy requires at minimum an initial APP Permit that has been issued to the **Facility**. Once initial permitting coverage has been established, this policy can be utilized even if the Total Committed Capacity exceeds what was authorized under the initial APP Permit as long as all other requirements of the policy have been met including those specified in box 1 and box 2 of the accompanying flowchart.
2. A utility may submit to the regulating authority for approval a flow study based on best available data that may include analysis of actual data within the same or similar service area in order to achieve a lower design flow. If approved, the revised design flow may be utilized to retroactively recalculate the **Total Commitments**. The utility shall submit to the regulatory authority a complete list of all previously approved (i.e. CA/ ATC issued by regulatory authority) developments for which retroactive flow figures are to be applied, the original flow projected for each development on that list, and the revised flow projected for each development based on the study.
3. A utility may revise their **Total Commitments** to remove projects that have obtained CA/ATC approvals, but for which the timeframe to complete construction under the CA/ATC has expired *and* construction has not started. The utility shall advise the project applicant by letter that their project's capacity assurance is being retracted and shall copy the regulator. Expiration of a **CA/ATC** will require the applicant seeking discharge

² https://static.azdeq.gov/forms/scs_facility.pdf

to re-start the application process through the utility and the regulator using revised documentation.

4. In all cases, issuance of a **Construction Authorization (CA/ATC)** shall include a disclaimer stating the approval of a **Discharge Authorization (DA/AOC)** for the project is contingent upon **Constructed Capacity** being available at the time the **DA/AOC** application is submitted to the department.
5. This flowchart may not apply to situations where the facility is out of compliance with flow or effluent quality limits of the existing APP Permit. In such cases, applicability of this policy will be addressed on a case by case basis.

ADEQ and its delegated county/city partners will follow the accompanying flow chart for determining when to issue construction authorizations (CAs) (also called approvals to construct or ATCs by some delegated Counties).



See Additional Notes No. 1

Start: Submission of CA/ATC application for 4.01 General Permit Including Capacity Assurance Form Showing Total Committed Capacity

- BOX 1**
- Options to Provide Additional Capacity May Include But Is Not Limited To:
- Interconnection or Diversion
 - Planned Expansion That Includes a Permit Application Submitted to ADEQ
 - Agreement W/ Other WWTP Provider
 - Other Options as Approved by the Regulating Authority

- BOX 2**
- Stopgap Measure(s) May Include But Are Not Limited To:
- Meter Management – Discontinue issuing meters
 - Installation of a Plug Within Sewer Service System
 - Other Measures as Approved by the Regulating Authority

Issue CA/ATC

Do Not Issue CA/ATC

Facility Provides Supporting Documentation with the Capacity Assurance Form Regarding Project(s) Providing Additional Capacity and Stopgap Measure(s)

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Exhibit 17
Sarival WRF ADEQ Aquifer Protection Permit

STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-513981
PLACE ID 224864, LTF 95217
NEW PERMIT

1.0 AUTHORIZATION

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2, and 3, Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 and 2, A.A.C. Title 18, Chapter 11, Article 4 and amendments thereto, and the conditions set forth in this permit, the Arizona Department of Environmental Quality (ADEQ) hereby authorizes Liberty Utilities to operate the Sarival Water Reclamation Facility (WRF) located at 1570 N. Sarival Ave., Goodyear, Arizona 85338 in Maricopa County, over the groundwater of the Phoenix Active Management Area.

This permit becomes effective on the date of the Water Quality Division Deputy Director's signature and shall be valid for the life of the facility (operational, closure, and post-closure periods) unless suspended or revoked pursuant to A.A.C. R18-9-A213. The permittee shall construct, operate and maintain the permitted facilities:

1. Following all the conditions of this permit including the design and operational information documented or referenced below, and
2. Such that Aquifer Water Quality Standards (AWQS) are not violated at the applicable point(s) of compliance (POC) set forth below or if an AWQS for a pollutant has been exceeded in an aquifer at the time of permit issuance, that no additional degradation of the aquifer relative to that pollutant and as determined at the applicable POC occurs as a result of the discharge from the facility.

1.1. PERMITTEE INFORMATION

Facility Name: Sarival Water Reclamation Facility (WRF)
Facility Address: 1570 N. Sarival Ave., Goodyear, Arizona 85338
County: Maricopa

Permitted Flow Rate: 4.4 million gallons per day

Permittee: Liberty Utilities
Permittee Address: 14920 W. Camelback Rd., Litchfield, AZ 85340

Facility Contact: Terry Gilbertson; Operations Manager (Terry.Gilbertson@libertyutilities.com)
Emergency Phone No.: (623) 298 - 4825 **Mobile:** (623) 337 - 2210

Latitude/Longitude: 33° 27' 48.7" N / 112° 24' 46.9" W
Legal Description: Township 01N, Range 02W, Section 01, N ½, NE ¼ of the Gila and Salt River Baseline and Meridian

1.2 AUTHORIZING SIGNATURE

DocuSigned by:

B394CB7051FD416

Randall Matas, Deputy Director
Water Quality Division
Arizona Department of Environmental Quality

Signed this 25 day of January, 2023

THIS NEW PERMIT SUPERSEDES ALL PREVIOUS GENERAL PERMITS

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2.0 SPECIFIC CONDITIONS

[A.R.S. §§ 49-203(4), 49-241(A)]

2.1. FACILITY / SITE DESCRIPTION

[A.R.S. § 49-243(K)(8), and A.A.C. R18-5-114]

The permittee is authorized to operate the Sarival WRF, with a maximum average monthly flow of 4.4 mgd. The ADEQ has graded this facility as a Grade 4 wastewater treatment plant. The facility shall have an operator in direct responsible charge who is certified for the grade of the facility and inspects the facility Daily.

The Phase 1 Sarival WRF includes an existing influent pump station (IPS) which includes three (3) new 5.0 mgd pumps that lift influent to a headworks consisting of two (2) 6mm mechanical coarse screens, two (2) vortex grit removal units and classifiers, and two (2) perforated 2mm fine screens. The IPS and headworks are fully enclosed with a 4,000 CFM activated carbon media odor control system equipped with a mist eliminator (with spare element) and redundant fan. From the headworks, influent is mixed with return activated sludge (RAS) in a trough prior to being sent to two (2) Closed Loop Reactor (CLR) secondary treatment process trains. Each CLR contains an anoxic zone with two low-speed geared mixers, a swing zone and aeration zone with fine bubble diffusion. From the CLRs, mixed liquor suspended solids (MLSS) flows, via equalizer pipes, to a feed trough. From the feed trough, four (4) dedicated 9.1 mgd feed pumps feed MLSS to four (4) membrane bio-reactor (MBR) separation tanks. From the MBR trains, four (4) permeate pumps deliver effluent to two (2) chlorine contact basins that utilize sodium hypochlorite, and a final effluent reclamation pump station with three (3) recycled water pumps. Two (2) Waste Activated Sludge (WAS) pumps will convey sludge and scum from the MBR separation tanks/WAS Collection Pit to the Sludge Holding Tank (SHT) located at the Bio-solids Dewatering Building. The dewatering equipment will consist of an aerated SHT and two (2) centrifuges, as part of a packaged skid system, which will dewater sludge to a cake. The aerated WAS storage tank will have a nominal capacity of 12,000 gallons and a connection for emergency liquid hauling. In an emergency, liquid sludge can be transported to the Liberty's Palm Valley WRF (APP Inventory #100310) for storage and dewatering prior to disposal. The dewatered solids will be discharged to an off-loading conveyor and transferred to 20-ton roll-off bins. Dewatered solids, screenings and grit will be hauled off to an approved landfill for disposal. The biosolids dewatering building is fully enclosed with a 12,000 CFM activated carbon media odor control system equipped with a redundant fan.

The new Sarival WRF will utilize the existing Liberty effluent reuse distribution system, which currently supplies customers with Class A+ recycled water under valid reuse permits, and also provides groundwater recharge at Liberty's Sustainable Effluent Aquifer Project (SEAP) site (APP Inventory #514107) located at Northwest corner of Camelback Rd. and Bullard Ave. The existing Palm Valley effluent distribution system has an AZPDES permit (AZ0025712) and agreement with Roosevelt Irrigation District (RID) to discharge treated effluent (not requiring dechlorination) to their irrigation canal where it crosses under North Bullard Ave. Additionally, the Sarival WRF will have a new, second discharge point to the RID canal under a valid AZPDES permit (AZ0026425). This new discharge point will be located on the north side of the new treatment plant site and on the south side of the existing canal and will be designed to accommodate the full capacity of the effluent discharge pump station. Dechlorination is not required under this permit.

All industrial hookups and other non-residential hookups to the treatment system shall be authorized according to the applicable federal, state or local regulations.

The site includes the following permitted discharging facilities:

Table 1: DISCHARGING FACILITIES		
Facility	Latitude	Longitude
Sarival WRF	33° 27' 48.5" N	112° 24' 47.0" W

2.1.1. Annual Registration Fee

[A.R.S. § 49-242 and A.A.C. R18-14-104]

The annual registration fee for this permit is payable to ADEQ each year. The annual registration fee flow rate is established by the permitted flow rate identified in Section 1.1. If the facility is not constructed or is incapable of discharge, the permittee may be eligible for reduced fees pursuant to A.A.C. R18-14-104(A), Table 2. Send all correspondence requesting reduced fees to the Groundwater Protection Value Stream. Please reference the permit number, LTF number, and the reason for requesting reduced fees under this rule.

2.1.2. Financial Capability

[A.R.S. § 49-243(N) and A.A.C. R18-9-A203]

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The estimated dollar amount for facility closure is \$1,540,100. The financial capability was demonstrated through A.A.C. R18-9-A203(C)(2) (3) (4) (5).

2.2. BEST AVAILABLE DEMONSTRATED CONTROL TECHNOLOGY (BADCT)

[A.R.S. § 49-243(B) and A.A.C. R18-9-A202(A)(5)]

The treatment facility shall be designed, constructed, operated, and maintained to meet the treatment performance criteria for new facilities as specified in A.A.C. R18-9-B204. The facility shall meet the performance requirement for industrial pre-treatment as per A.A.C. R18-9-B204(B)(6)(b).

The treatment facility shall not exceed a maximum seepage rate of 550 gallons per day per acre for all containment structures within the treatment works.

2.2.1. Engineering Design

The treatment facility was designed as per the design plans and design report signed, dated, and sealed by James A. Matthews, P.E. (Civil #34090) of PACE Advanced Water Engineering dated October 7, 2022 (MCESD Complete Plans) and November 28, 2022 (Basis of Design Technical Memorandum), Application submittals received on August 19, 2022 and subsequent submittals.

2.2.2. Site-Specific Characteristics

Site specific characteristics were not used to determine BADCT.

2.2.3. Pre-Operational Requirements

Prior to initiating use of the Sarival WRF, the permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion in a format approved by the Department per Section 3.0, Table 5: COMPLIANCE SCHEDULE ITEMS, Item #2. The certificate shall be submitted to the Groundwater Protection Value Stream in accordance with Section 2.7.5.

Prior to initiating use of the Sarival WRF, Liberty Utilities shall ensure that a complete copy of the Operations and Maintenance manual has been delivered to the Sarival WRF to comply with Item #1 of Section 2.2.4.

2.2.4. Operational Requirements

1. The permittee shall maintain a copy of the up-to-date operations and maintenance manual at the treatment facility site at all times; the manual shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.2, Table 9: FACILITY INSPECTION AND OPERATIONAL MONITORING

2.2.5. Reclaimed Water Classification

[A.A.C. R18-9-B701(C)(2)(a), A.A.C. R18-11-303 through 307]

The treatment facility is rated as producing reclaimed water meeting the Class A+ Reclaimed Water Quality Standards (A.A.C. R18-11, Article 3) which may be used for any allowable Class A, B, or C use under a valid reclaimed water permit (A.A.C. R18-9, Article 7).

2.2.6. Certified Areawide Water Quality Management Plan Conformance

[A.A.C. R18-9-A201(B)(6)(a)]

Facility operations must conform to the approved Certified Areawide Water Quality Management Plan according to the 208 consistency determination in place at the time of permit issuance.

2.3. DISCHARGE LIMITATIONS

[A.R.S. §§ 49-201(14), 49-243 and A.A.C. R18-9-A205(B)]

1. The permittee is authorized to operate the treatment facility with a maximum average monthly flow of 4.4 million gallons per day (mgd).
2. The permittee shall notify all users that the materials authorized to be disposed of through the treatment facility are typical household sewage and pre-treated commercial wastewater and shall not include motor oil, gasoline, paints, varnishes, hazardous wastes, solvents, pesticides, fertilizers or other materials not generally associated with toilet flushing, food preparation, laundry facilities and personal hygiene.
3. The permittee shall operate and maintain all permitted facilities to prevent unauthorized discharges pursuant to A.R.S. § 49-201(12) resulting from failure or bypassing of applicable BADCT.
4. Specific discharge limitations are listed in Section 4.2, Table 6: ROUTINE FLOW MONITORING and Table 7: ROUTINE DISCHARGE MONITORING.

2.4. POINT OF COMPLIANCE (POC)

[A.R.S. § 49-244]

The Points of Compliance (POCs) have been established at the following locations:

Table 2: POINT(S) OF COMPLIANCE			
POC #	POC Location	Latitude	Longitude
1 (Conceptual)	Southwest Corner of the WRF	33° 27' 46.45" N	112° 24' 48.81" W

The depth to groundwater at the facility is approximately 135 feet below ground surface (bgs). The aquifer is unconfined to partially confined in the vicinity of the facility. The direction of flow is generally to the West.

Groundwater monitoring is not required at the point of compliance well. POC #1 well is a conceptual well, monitoring is not required except as a contingency action. The director may require an amendment of this permit to install a monitoring well if there is cause or concern that groundwater quality may be impacted at the POC. The Director may amend this permit to designate additional points of compliance if information on groundwater gradients or groundwater usage indicates the need.

2.5. MONITORING REQUIREMENTS

[A.R.S. § 49-243(K)(1), A.A.C. R18-9-A206(A)]

Unless otherwise specified in this permit, all monitoring required in this permit shall continue for the duration of the permit, regardless of the status of the facility. Unless otherwise provided, monitoring shall commence the first full monitoring period following permit issuance. All sampling, preservation and holding times shall be in accordance with currently accepted standards of professional practice. Trip blanks, equipment blanks and duplicate samples shall also be obtained, and Chain-of-Custody procedures shall be followed, in accordance with currently accepted standards of professional practice. Copies of laboratory analyses and Chain-of-Custody forms shall be maintained at the permitted facility. Upon request, these documents shall be made immediately available for review by ADEQ personnel.

2.5.1. Pre-Operational Monitoring

Not Applicable

2.5.2. Routine Discharge Monitoring

The permittee shall monitor the effluent according to Section 4.2, Table 7: ROUTINE DISCHARGE MONITORING. Representative samples of the effluent shall be collected at the point of discharge from the effluent auto sampler.

2.5.3. Reclaimed Water Monitoring

The permittee shall monitor the reclaimed water according to the Class A+ Reclaimed Water Monitoring Table in Section 4.2, Table 8: RECLAIMED WATER MONITORING in addition to the routine discharge monitoring parameters listed in Table 7: ROUTINE DISCHARGE MONITORING. Representative samples of the reclaimed water shall be collected at the point of discharge from the effluent auto sampler.

2.5.4. Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.2, Table 9: FACILITY INSPECTION AND OPERATIONAL MONITORING.

If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented in the facility log book as per Section 2.7.2 and reported to ADEQ in case of a violation or exceedance as per Section 2.7.3.

2.5.5. Groundwater Monitoring and Sampling Protocols

Not required at time of issuance.

2.5.6. Surface Water Monitoring and Sampling Protocols

Routine surface water monitoring is not required under the terms of this permit.

2.5.7. Analytical Methodology

All samples collected for compliance monitoring shall be analyzed using Arizona state-approved methods. If no state-approved method exists, then any appropriate EPA-approved method shall be used. Regardless of the method used, the detection limits must be sufficient to determine compliance with the regulatory limits of the parameters specified in this permit. If all methods have detection limits higher than the applicable limit, the permittee shall follow the applicable contingency requirements of Section 2.6 and may propose "other actions" including amending the permit to set higher limits. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification unless exempted under A.R.S. 36-495.02. For results to be considered valid, all analytical work shall meet quality control standards specified in the approved methods. A list of state-certified laboratories in Arizona can be obtained at the address below:

Arizona Department of Health Services
Office of Laboratory Licensure and Certification
250 North 17th Avenue
Phoenix, Arizona 85007
Phone: (602) 364-0720

2.5.8. Installation and Maintenance of Monitoring Equipment

Monitoring equipment required by this permit shall be installed and maintained so that representative samples required by the permit can be collected. If new groundwater wells are determined to be necessary, the construction details shall be submitted to the Groundwater Protection Value Stream for approval prior to installation and the permit shall be amended to include any new monitoring points.

2.6. CONTINGENCY PLAN REQUIREMENTS

[A.R.S. § 49-243(K)(3), (K)(7) and A.A.C. R18-9-A204 and R18-9-A205]

2.6.1. General Contingency Plan Requirements

At least one copy of this permit and the approved contingency and emergency response plan, submitted per Section 3.0 Table 5: COMPLIANCE SCHEDULE ITEMS No. 1, shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. The permittee shall be aware of and follow the contingency and emergency plans.

Any AL exceedance, or violation of a DL, or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3, unless more specific reporting requirements are set forth in Section 2.6.2 through 2.6.5.

Some contingency actions involve verification sampling. Verification sampling shall consist of the first follow-up sample collected from a location that previously indicated a violation or the exceedance of an AL. Collection and analysis of the verification sample shall use the same protocols and test methods to analyze for the pollutant or pollutants that exceeded an AL or violated a DL. Where verification sampling is specified in this permit, it is the option of the permittee to perform such sampling. If verification sampling is not conducted within the timeframe allotted, ADEQ and the permittee shall presume the initial sampling result to be confirmed as if verification sampling had been conducted. The permittee is responsible for compliance with contingency plans relating to the exceedance of an AL or violation of a DL or any other permit condition. The permittee is subject to enforcement action for the failure to comply with any contingency actions in this permit.

2.6.2. Exceeding of Alert Levels and Performance Levels

2.6.2.1. Exceeding of Performance Levels Set for Operational Conditions

For freeboard performance levels, the permittee shall comply with the requirements as specified in Section 4.2, Table 9: FACILITY INSPECTION AND OPERATIONAL MONITORING to prevent the overtopping of a tank. If an impoundment/tank is overtopped, the permittee shall follow the requirements in Section 2.6.5.3 and the reporting requirements of Section 2.7.3.

If a performance level set in Section 4.2, Table 9: FACILITY INSPECTION AND OPERATIONAL MONITORING has been exceeded the permittee shall:

1. Notify the Groundwater Protection Value Stream within five (5) days of becoming aware of the exceedance per Section 2.7.5.
2. Submit a written report to the Groundwater Protection Value Stream within thirty (30) days after becoming aware of the exceedance per Section 2.7.5. The report shall document all of the following:
 - a. A description of the exceedance and the cause of the exceedance;

- b. The period of the exceedance, including exact date(s) and time(s), if known, and the anticipated time period during which the exceedance is expected to continue;
 - c. Any action taken or planned to mitigate the effects of the exceedance or spill, or to eliminate or prevent recurrence of the exceedance or spill;
 - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS; and
 - e. Any malfunction or failure of pollution control devices or other equipment or process.
3. The facility is no longer on alert status once the operational indicator no longer indicates that a performance level is being exceeded. The permittee shall, however, complete all tasks necessary to return the facility to its pre-alert operating condition.

2.6.2.2. Exceeding of Alert Levels (ALs) Set for Discharge Monitoring

1. If an AL set in Section 4.2, Table 7: ROUTINE DISCHARGE MONITORING has been exceeded, the permittee shall immediately investigate to determine the cause. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the exceedance;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences; and
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the exceedance, the permittee shall sample individual waste streams composing the wastewater for the parameter(s) in question, if necessary to identify the cause of the exceedance.
2. The permittee shall initiate actions identified in the approved contingency plan referenced in Section 2.6.1 and specific contingency measures identified in Section 2.6 to resolve any problems identified by the investigation which may have led to the AL exceedance. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6.
3. Within thirty (30) days of an AL exceedance, the permittee shall submit the laboratory results to the Groundwater Protection Value Stream per Section 2.7.5 along with a summary of the findings of the investigation, the cause of the exceedance, and actions taken to resolve the problem.
4. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.2.2.1. Exceeding Permit Flow Limit

If the AL for average monthly flow in, Table 6: ROUTINE FLOW MONITORING has been exceeded, the permittee shall submit an application to the Groundwater Protection Value Stream for a permit amendment to expand the treatment facility, or submit a report detailing the reasons an expansion is not necessary. Acceptance of the report instead of an application for amendment requires ADEQ approval.

2.6.2.3. Exceeding of Alert Levels in Groundwater Monitoring

No ALs have been established for Groundwater Monitoring.

2.6.3. Discharge Limit Violation

1. If a DL set in Section 4.2, Table 7: ROUTINE DISCHARGE MONITORING or Table 8: RECLAIMED WATER MONITORING has been violated, the permittee shall immediately investigate to determine the cause. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the violation;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences;
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the violation, the permittee shall sample individual waste streams composing the wastewater for the parameters in violation, as necessary to identify the cause of the violation.

The permittee shall submit a report to the Groundwater Protection Value Stream according to Section 2.7.3, which includes a summary of the findings of the investigation, the cause of the violation, and actions taken to resolve the problem. The permittee shall consider and ADEQ may require corrective action that may include control of the source of discharge, cleanup of affected soil, surface water or groundwater, notification of downstream or downgradient users who may be directly affected by the discharge, and mitigation of the impact of pollutants on existing uses of the aquifer. Corrective actions shall either be specifically identified in this permit, included in an ADEQ-approved contingency plan, or separately approved according to Section 2.6.6.

2. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions, or other actions.

2.6.4. Aquifer Quality Limit Violation

Not required at time of issuance.

2.6.5. Emergency Response and Contingency Requirements for Unauthorized Discharges

[A.R.S. § 49-201(12) AND PURSUANT TO A.R.S. § 49-241]

2.6.5.1. Duty to Respond

The permittee shall act immediately to correct any condition resulting from a discharge pursuant to A.R.S. § 49-201(12) if that condition could pose an imminent and substantial endangerment to public health or the environment.

2.6.5.2. Discharge of Hazardous Substances or Toxic Pollutants

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of suspected hazardous substances (A.R.S. § 49-201(19)) or toxic pollutants (A.R.S. § 49-243(I)) on the facility site, the permittee shall promptly isolate the area and attempt to identify the discharged material. The permittee shall record information, including name, nature of exposure and follow-up medical treatment, if necessary, on persons who may have been exposed during the incident. The permittee shall notify the Groundwater Protection Value Stream within 24 hours of discovering the discharge of hazardous material which (a) has the potential to cause an AWQS or (b) could pose an endangerment to public health or the environment.

2.6.5.3. Discharge of Non-Hazardous Materials

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of non-hazardous materials from the facility, the permittee shall promptly attempt to cease the discharge and isolate the discharged material. Discharged material shall be removed and the site cleaned up as soon as possible. The permittee shall notify the Groundwater Protection Value Stream within 24 hours of discovering the discharge of non-hazardous material which has the potential to cause an AWQS exceedance, or could pose an endangerment to public health or the environment.

2.6.5.4. Reporting Requirements

The permittee shall submit a written report for any unauthorized discharges reported under Sections 2.6.5.2 and 2.6.5.3 to the Groundwater Protection Value Stream per Section 2.7.5 within thirty (30) days of the discharge or as required by subsequent ADEQ action. The report shall summarize the event, including any human exposure, and facility response activities and include all information specified in Section 2.7.3. If a notice is issued by ADEQ subsequent to the discharge notification, any additional information requested in the notice shall also be submitted within the time frame specified in the notice. Upon review of the submitted report, ADEQ may require additional monitoring or corrective actions.

2.6.6. Corrective Actions

Specific contingency measures identified in Section 2.6 and the contingency plan approved as part of Section 3.0 Table 5: COMPLIANCE SCHEDULE ITEMS No. 1 have already been approved by ADEQ and do not require written approval to implement.

With the exception of emergency response actions taken under Section 2.6.5, the permittee shall obtain written approval from the Groundwater Protection Value Stream prior to implementing a corrective action to accomplish any of the following goals in response to exceedance of an AL, DL, or another permit condition:

1. Control of the source of an unauthorized discharge;
2. Soil cleanup;
3. Cleanup of affected surface waters;
4. Cleanup of affected parts of the aquifer;
5. Mitigation to limit the impact of pollutants on existing uses of the aquifer.

Within thirty (30) days of completion of any corrective action, the operator shall submit to the Groundwater Protection Value Stream per Section 2.7.5, a written report describing the causes, impacts, and actions taken to resolve the problem.

2.7. REPORTING AND RECORDKEEPING REQUIREMENTS

[A.R.S. § 49-243(K)(2), A.A.C. R18-5-104, R18-9-A206(B), and R18-9-A207]

2.7.1. Self-Monitoring Report Form

1. The permittee shall complete the Self-Monitoring Reporting Forms (SMRFs) provided by ADEQ, and submit the completed report through the myDEQ online reporting system per Section 2.7.5. The permittee shall use the format devised by ADEQ.
2. The permittee shall complete the SMRF to the extent that the information reported may be entered on the form. If no information is required during a reporting period, the permittee shall enter "not required" on the form, include an explanation, and submit the form to the Groundwater Protection Value Stream.
3. The tables contained in Section 4.0 list the monitoring parameters and the frequencies for reporting results on the SMRF:

- a. Table 6: ROUTINE FLOW MONITORING
- b. Table 7: ROUTINE DISCHARGE MONITORING
- c. Table 8: RECLAIMED WATER MONITORING

The parameters listed in the above-identified tables from Section 4.0 are the only parameters for which SMRF reporting is required.

2.7.2. Operation Inspection / Log Book Recordkeeping

A signed copy of this permit shall be maintained at all times at the location where day-to-day decisions regarding the operation of the facility are made. A log book (paper copies, forms, or electronic data) of the inspections and measurements required by this permit shall be maintained at the location where day-to-day decisions are made regarding the operation of the facility. The log book shall be retained for ten years from the date of each inspection, and upon request, the permit and the log book shall be made immediately available for review by ADEQ personnel. The information in the log book shall include, but not be limited to, the following information as applicable:

1. Name of inspector;
2. Date and shift inspection was conducted;
3. Condition of applicable facility components;
4. Any damage or malfunction, and the date and time any repairs were performed;
5. Documentation of sampling date and time; and
6. Any other information required by this permit to be entered in the log book.
7. Monitoring records for each measurement shall comply with A.A.C. R18-9-A206(B)(2).
8. Daily operator in direct responsible charge site visit sign-in to comply with R18-5-104.

2.7.3. Permit Violation and Alert Level Status Reporting

1. The permittee shall notify the Groundwater Protection Value Stream per Section 2.7.5 within five (5) days (except as provided in Section 2.6.5) of becoming aware of an AL exceedance, or violation of any permit condition, or DL for which notification requirements are not specified in Sections 2.6.2 through 2.6.5.
2. The permittee shall submit a written report to the Groundwater Protection Value Stream per Section 2.7.5 within thirty (30) days of becoming aware of the violation of any permit condition, or DL. The report shall document all of the following:
 - a. Identification and description of the permit condition for which there has been a violation and a description of the cause;
 - b. The period of violation including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue;
 - c. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation;
 - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS;
 - e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring; and
 - f. Description of any malfunction or failure of pollution control devices or other equipment or processes.

2.7.4. Operational, Other or Miscellaneous Reporting

The permittee shall record the information as required in Section 4.2, Table 9: FACILITY INSPECTION AND OPERATIONAL MONITORING in the facility log book as per Section 2.7.2, and report to the Groundwater Protection Value Stream any violations or exceedances as per Section 2.7.3.

If the treatment facility is classified for reclaimed water under this permit, the permittee shall submit the reclaimed water monitoring results and flow volumes to any of the following in accordance with A.A.C. R18-9-B701(C)(2)(c):

1. Any reclaimed water agent who has contracted for delivery of reclaimed water from the permittee; and
2. Any end user who has not waived interest in receiving this information.

2.7.5. Reporting Location

All Self-Monitoring Report Forms (SMRFs) shall be submitted through the myDEQ portal accessible on the ADEQ website at: <http://www.azdeq.gov/welcome-mydeq>. Contact at 602-771-4571 for any inquiry related to the SMRFs.

5-day and 30-day contingency notification and reports, laboratory reports, and verification sampling results required by this permit should be submitted through the myDEQ portal accessible on the ADEQ website at: <http://www.azdeq.gov/welcome-mydeq>.

If the required reports cannot be submitted, or require further documentation that cannot be submitted on the myDEQ portal, then submit items to groundwaterpermits@azdeq.gov or the address listed below:

The Arizona Department of Environmental Quality
Groundwater Protection Value Stream
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4999

2.7.6. Reporting Deadline

The following table lists the quarterly report due dates:

Table 3: QUARTERLY REPORTING DEADLINES	
Monitoring Conducted During Quarter:	Quarterly Report Due By:
January-March	April 30
April-June	July 30
July-September	October 30
October-December	January 30

The following table lists the semi-annual and annual report due dates if applicable:

Table 4: (SEMI-)ANNUAL REPORTING DEADLINES	
Monitoring Conducted:	Report Due By:
Semi-annual: January-June	July 30
Semi-annual: July-December	January 30
Annual: January-December	January 30

2.7.7. Changes to Facility Information in Section 1.0 and Section 2.0

The Groundwater Protection Value Stream shall be notified per Section 2.7.5 within ten days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person, Certified Operator in Direct Responsible Charge or Emergency Telephone Number.

2.8. Temporary Cessation

[A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A209(A)]

The permittee shall give written notice to the Groundwater Protection Value Stream per Section 2.7.5 before ceasing operation of the facility for a period of 60 days or greater. The permittee shall take the following measures upon temporary cessation:

1. If applicable, direct the wastewater flows from the facility to another state-approved wastewater treatment facility;
2. Correct the problem that caused the temporary cessation of the facility; and
3. Notify the Groundwater Protection Value Stream with a monthly facility status report describing the activities conducted on the treatment facility to correct the problem.
4. Submittal of Self-Monitoring Report Forms (SMRFs) is still required; report “temporary cessation” in the comment section.

At the time of notification the permittee shall submit for ADEQ approval a plan for maintenance of discharge control systems and for monitoring during the period of temporary cessation. Immediately following ADEQ approval, the permittee shall implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. During the period of temporary cessation, the permittee shall provide written notice to the Groundwater Protection Value Stream of the operational status of the facility every three years. If the permittee intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

2.9. Closure

[A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9-A209(B)]

For a facility addressed under this permit, the permittee shall give written notice of closure to the Groundwater Protection Value Stream per Section 2.7.5 of the intent to cease operation without resuming activity for which the facility was designed or operated. Submittal of SMRFs is still required; report “closure in process” in the comment section.

2.9.1. Closure Plan

Within 90 days following notification of closure, the permittee shall submit for approval to the Groundwater Protection Value Stream per Section 2.7.5, a closure plan which meets the requirements of A.R.S. § 49-252 and A.A.C. R18-9-A209(B)(3).

If the closure plan achieves clean-closure immediately, ADEQ shall issue a letter of approval to the permittee. If the closure plan contains a schedule for bringing the facility to a clean-closure configuration at a future date, ADEQ may incorporate any part of the schedule as an amendment to this permit.

2.9.2. Closure Completion

Upon completion of closure activities, the permittee shall give written notice to the Groundwater Protection Value Stream per Section 2.7.5 indicating that the approved closure plan has been implemented fully and providing supporting documentation to demonstrate that clean-closure has been achieved (soil sample results, verification sampling results, groundwater data, as applicable). If clean-closure has been achieved, ADEQ shall issue a letter of approval to the permittee at that time. If any of the following conditions apply, the permittee shall follow the terms of post-closure stated in this permit:

1. Clean-closure cannot be achieved at the time of closure notification or within one year thereafter under a diligent schedule of closure actions;

2. Further action is necessary to keep the facility in compliance with the AWQS at the applicable POC or, for any pollutant for which the AWQS was exceeded at the time this permit was issued, further action is necessary to prevent the facility from further degrading the aquifer at the applicable POC with respect to that pollutant;
3. Remedial, mitigative or corrective actions or controls are necessary to comply with A.R.S. § 49-201(36) and Title 49, Chapter 2, Article 3;
4. Further action is necessary to meet property use restrictions.
5. SMRF submittals are required until Clean Closure is issued.

2.10. Post-closure

[A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9 A209(C)]

Post-closure requirements shall be established based on a review of facility closure actions and will be subject to review and approval by the Groundwater Protection Value Stream.

In the event clean-closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to the Groundwater Protection Value Stream a post-closure plan that addresses post-closure maintenance and monitoring actions at the facility. The post-closure plan shall meet all requirements of A.R.S. §§ 49-201(30) and 49-252 and A.A.C. R18-9-A209(C). Upon approval of the post-closure plan, this permit shall be amended or a new permit shall be issued to incorporate all post-closure controls and monitoring activities of the post-closure plan.

2.10.1. Post-Closure Plan

A specific post-closure plan may be required upon the review of the closure plan.

2.10.2. Post-Closure Completion

Not required at the time of permit issuance.

3.0 COMPLIANCE SCHEDULE

[A.R.S. § 49-243(K)(5) and A.A.C. R18-9-A208]

Unless otherwise indicated, for each compliance schedule item listed below, the permittee shall submit the required information to the Groundwater Protection Value Stream per Section 2.7.5.

Table 5: COMPLIANCE SCHEDULE ITEMS			
No.	Description	Due By:	Permit Amendment Required?
1	Submit a complete and up to date Emergency Operation/Contingency Plan (EOP). The EOP should have an appendix of Emergency contact numbers and cover emergency situations (e.g. FEMA).	Within 6 months of issuance of this permit.	No
2	The permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion in a format approved by the Department that confirms that the facility is constructed according to the Department-approved design report or plans and specifications, as applicable.	Prior to discharging under this permit and within 90 days of completion of construction.	No
3	The permittee shall submit a demonstration that the financial assurance mechanism listed in Section 2.1, Financial Capability, is being maintained as per A.R.S. 49-243.N.4 and A.A.C. R18-9-A203(H) for all estimated closure and post-closure costs including updated costs submitted under Section 3.13, below. The demonstration shall include a statement that the closure and post-closure strategy has not changed, the discharging facilities listed in the permit have not been altered in a manner that would affect the closure and post-closure costs and discharging facilities have not been added. The demonstration shall also include information in support of a Letter of Credit as required in A.A.C. R18-9-A203(C)(5).	On or before January 29, 2029 and every 6 years for the duration of the permit.	No
4	The permittee shall submit updated cost estimates for facility closure and post-closure, as per A.A.C. R18-9-A201(B)(5) and A.R.S. 49-243.N.2.a, and an updated financial assurance demonstration for the updated cost estimate as per A.A.C. R18-9-A203.	On or before January 29, 2029 and every 6 years for the duration of the permit.	Yes

4.0 TABLES OF MONITORING REQUIREMENTS

4.1. PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)

Not applicable.

4.2. COMPLIANCE OR OPERATIONAL MONITORING

Table 6: ROUTINE FLOW MONITORING					
Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
1 – Influent Flow Meter ¹	Influent Flow Meter			33° 27' 50.39"	112° 24' 47.57"
2 – RID Flow Meter	RID Alternative Discharge			33° 27' 52.65"	112° 24' 43.52"
3 – Reuse/Recharge Flow Meter	Reuse & SEAP Distribution System			33° 27' 49.53"	112° 24' 47.65"
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Influent Total Flow ² : Daily ³	Not Applicable ⁴	Not Applicable	mgd ⁵	Daily	Quarterly
Influent Total Flow: Monthly Average ⁶	3.74	4.40	mgd	Monthly Calculation	Quarterly
RID Alt Discharge: Daily	Not Applicable	Not Applicable	mgd	Daily	Quarterly
RID Alt Discharge Flow: Monthly Average	3.74	4.40	mgd	Monthly Calculation	Quarterly
Liberty Reuse Dist. System ⁷ Flow: Daily	Not Applicable	Not Applicable	mgd	Daily	Quarterly
Liberty Reuse Dist. System Flow: Monthly Average	3.74	4.40	mgd	Monthly Calculation	Quarterly

¹ All wastewater flow measurement devices must be calibrated prior to the first year of reporting and recalibrated either biennially (every 2 years) or at the minimum frequency specified by the manufacturer. Wastewater flow measurement devices must be calibrated using the procedures specified by the device manufacturer.

² Influent Total Flow includes flows received from the conveyance system and sidestream/recycled flows from the Sarival WRF

³ Total Daily Flow shall be measured using a continuous recording flow meter that totals the flows daily.

⁴ Not Applicable means that monitoring is required, but no limits have been specified at the time of permit issuance

⁵ mgd = million gallons per day

⁶ Monthly Average means the calculated average of daily flow values in a month

⁷ Liberty Utility's Effluent Reuse distribution system which also delivers flow to the Sustainable Effluent Aquifer Project (SEAP)

Table 7: ROUTINE DISCHARGE MONITORING

Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
4 – Effluent Auto Sampler	After Disinfection			33° 27' 49.42"	112° 24' 47.57"
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Fecal Coliform: Single sample maximum	Not Applicable	23.0	MPN ⁸	Daily ⁹	Quarterly
Fecal Coliform: four (4) of seven (7) samples in a week ¹⁰	Not Applicable	Non-detect ¹¹	MPN	Weekly Evaluation	Quarterly
Total Nitrogen ¹² : Five-sample rolling geometric mean ¹³	8.0	10.0	mg/l ¹⁴	Monthly Calculation	Quarterly
Cyanide (as free cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly
Fluoride	3.2	4.0	mg/l	Quarterly	Quarterly
Metals (Total)					
Antimony	0.0048	0.006	mg/l	Quarterly	Quarterly
Arsenic	0.04	0.05	mg/l	Quarterly	Quarterly
Barium	1.60	2.00	mg/l	Quarterly	Quarterly
Beryllium	0.0032	0.004	mg/l	Quarterly	Quarterly
Cadmium	0.004	0.005	mg/l	Quarterly	Quarterly
Chromium	0.08	0.1	mg/l	Quarterly	Quarterly
Lead	0.04	0.05	mg/l	Quarterly	Quarterly
Mercury	0.0016	0.002	mg/l	Quarterly	Quarterly
Nickel	0.08	0.1	mg/l	Quarterly	Quarterly
Selenium	0.04	0.05	mg/l	Quarterly	Quarterly
Thallium	0.0016	0.002	mg/l	Quarterly	Quarterly

⁸ MPN = Most Probable Number / 100 ml sample. For MPN, a value of <2.2 shall be considered to be non-detect

⁹ For fecal coliform, “daily” sampling means every day in which a sample can practically be obtained and delivered in sufficient time for proper analysis, provided that no less than four samples in each week are obtained and analyzed

¹⁰ Week means a seven-day period starting on Sunday and ending on the following Saturday. The reporting form for this parameter consists of 13 weeks per quarter

¹¹ Fecal coliform 4 of 7 samples requires entering “Compliance” or “Non-compliance” on the SMRF for each week of the reporting period. Evaluate the daily fecal coliform results for that week (Sunday through Saturday). If, of these seven days, four or more of the daily fecal coliform results are non-detect, report “Compliance” for that week’s entry on the SMRF. If three or fewer of the daily fecal coliform results are non-detect, report “Non-compliance” for that week’s entry on the SMRF

¹² Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen

¹³ The five-sample rolling geometric mean is determined by multiplying the five (5) most recent monthly sample values together then taking the fifth root of the product. Example: $GM_5 = \sqrt[5]{(m_1)(m_2)(m_3)(m_4)(m_5)}$ (For the first four samples enter “Not Required” on SMRFs)

¹⁴ mg/l = milligrams per liter

Table 7: ROUTINE DISCHARGE MONITORING (Continued)

Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
4 – Effluent Auto Sampler	After Disinfection			33° 27' 49.42"	112° 24' 47.57"
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Volatile and Semi-Volatile Organic Compounds (VOCs and SVOCs)					
Benzene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	0.48	0.6	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.56	0.7	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	0.0008	0.001	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Styrene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Toluene	0.8	1.0	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total) ¹⁵	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	8.0	10.0	mg/l	Semi-Annually	Semi-Annually

¹⁵ Total Trihalomethanes (TTHMs) are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane

Table 8: RECLAIMED WATER MONITORING				
Reclaimed water monitoring under Table 8: RECLAIMED WATER MONITORING shall be performed in addition to routine discharge monitoring required under Section 4.2, Table 7: ROUTINE DISCHARGE MONITORING				
Sampling Point Number	Sampling Point Identification		Latitude (North)	Longitude (West)
4 – Effluent Auto Sampler ¹⁶	After Disinfection		33° 27' 49.42"	112° 24' 47.57"
Parameter	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Fecal Coliform Single-sample maximum:	23.0	MPN ⁸	Daily ⁹	Quarterly
Fecal Coliform: Four (4) of last seven (7) samples in a week ¹⁰	Non-detect ¹¹	MPN	Weekly Evaluation	Quarterly
Total Nitrogen ¹² : Five-sample rolling geometric mean ¹³	10.0	mg/l ¹⁴	Monthly Calculation	Quarterly
Turbidity ¹⁷ : Single reading	5.0	NTU ¹⁸	Daily ¹⁹	Quarterly
Turbidity: 24-hour average	2.0	NTU	Daily Calculation	Quarterly
Enteric Virus ²⁰ : Four (4) of last seven (7) samples	Non-detect	MPN ⁸	Monthly / Suspended ²¹	Quarterly

¹⁶ Reuse enters the distribution system just after the Effluent Pump Station, so Routine Discharge and Reclaimed Water monitoring share the same sampling point. Fecal and Total Nitrogen samples collected and reported for Routine Discharge Monitoring may also be used for Reclaimed Water Monitoring.

¹⁷ Turbidimeter shall be placed at a point in the wastewater treatment process after filtration and immediately before disinfection and shall have a signal averaging time not exceeding 120 seconds. All exceedances must be explained and submitted to the Department with the corresponding quarterly SMRF; occasional spikes due to back-flushing or instrument malfunction shall not be considered an exceedance

¹⁸ NTU = Nephelometric Turbidity Units

¹⁹ For the single turbidity reading, daily means the maximum reading during the 24-hour period.

²⁰ Initial monthly enteric virus sampling shall be performed to indicate four (4) out of seven (7) sample results of non-detect.

²¹ Enteric virus sampling shall resume only when the discharge limit for the 24-hour average for turbidity is exceeded for two (2) consecutive 24-hour monitoring periods. Monthly enteric virus monitoring shall continue until four (4) out of seven (7) consecutive sample results show no detection. During times when enteric virus sampling is suspended, enter "suspended" in the appropriate space on the SMRF

Table 9: FACILITY INSPECTION AND OPERATIONAL MONITORING			
The permittee shall record the inspection performance levels in a log book as per Section 2.7.2, and report any violations or exceedances as per Section 2.7.3. In the case of an exceedance, identify which structure exceeds the performance level in the log book.			
Pollution Control Structure/Parameter	Performance Level	Inspection Frequency	Reporting Frequency
Sludge Holding Tank (SHT) Freeboard	One (1) Linear Foot	Daily	See Section 2.7.3
Closed Loop Reactors (CLRs) Freeboard	One (1) Linear Foot	Daily	
Membrane Separation Tanks Freeboard	One (1) Linear Foot	Daily	
IPS & Headworks Structure	No visible structural damage, or leakage	Weekly	
Membrane Tanks, CLRs & SHT Structure	No visible structural damage, or leakage	Weekly	
Pump Integrity	Good working condition	Weekly	
Treatment Plant Components	Good working condition	Weekly	
Vegetation Removal around tanks/structures	No vegetation present in the tanks or within five feet of the tanks or treatment structures	Monthly	
WRF Activated Carbon Odor Control Systems	Good working condition H ₂ S and flow	Monthly	

5.0 REFERENCES AND PERTINENT INFORMATION

The terms and conditions set forth in this permit have been developed based upon the information contained in the following, which are on file with the Department:

- APP Application, dated: 08/08/2022 and subsequent submittals
- Contingency Plan, dated: To be submitted as part of:
Section 3.0 COMPLIANCE SCHEDULE
Table 5: COMPLIANCE SCHEDULE ITEMS; Item #1

6.0 NOTIFICATION PROVISIONS

6.1. Annual Registration Fees

The permittee is notified of the obligation to pay an Annual Registration Fee to ADEQ. The Annual Registration Fee is based on the amount of daily influent or discharge of pollutants in gallons per day (gpd) as established by A.R.S. § 49-242.

6.2. Duty to Comply

[A.R.S. §§ 49-221 through 263]

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2 and 3 of the Arizona Revised Statutes, Title 18, Chapter 9, Articles 1 through 4, and Title 18, Chapter 11, Article 4 of the Arizona Administrative Code. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 or permit amendment, suspension, or revocation.

6.3. Duty to Provide Information

[A.R.S. §§ 49-243(K)(2) and 49-243(K)(8)]

The permittee shall furnish to the Director, or an authorized representative, within a time specified, any information which the Director may request to determine whether cause exists for amending or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

6.4. Compliance with Aquifer Water Quality Standards

[A.R.S. §§ 49-243(B)(2) and 49-243(B)(3)]

The permittee shall not cause or contribute to a violation of an Aquifer Water Quality Standard (AWQS) at the applicable point of compliance (POC) for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an AWQS for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable point of compliance for the facility, the water quality of any aquifer for that pollutant.

6.5. Technical and Financial Capability

[A.R.S. §§ 49-243(K)(8) and 49-243(N) and A.A.C. R18-9-A202(B) and R18-9-A203(E) and (F)]

The permittee shall have and maintain the technical and financial capability necessary to fully carry out the terms and conditions of this permit. Any bond, insurance policy, trust fund, or other financial assurance mechanism provided as a demonstration of financial capability in the permit application, pursuant to A.A.C. R18-9-A203(C), shall be in effect prior to any discharge authorized by this permit and shall remain in effect for the duration of the permit.

6.6. Reporting of Bankruptcy or Environmental Enforcement

[A.A.C. R18-9-A207(C)]

The permittee shall notify the Director within five days after the occurrence of any one of the following:

1. the filing of bankruptcy by the permittee; or
2. the entry of any order or judgment not issued by the Director against the permittee for the enforcement of any environmental protection statute or rule.

6.7. Monitoring and Records

[A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A206]

The permittee shall conduct any monitoring activity necessary to assure compliance with this permit, with the applicable water quality standards established pursuant to A.R.S. §§ 49-221 and 49-223 and §§ 49-241 through 49-252.

6.8. Inspection and Entry

[A.R.S. §§ 49-1009, 49-203(B), and 49-243(K)(8)]

In accordance with A.R.S. §§ 41-1009 and 49-203(B), the permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to enter and inspect the facility as reasonably necessary to ensure compliance with Title 49, Chapter 2, Article 3 of the Arizona Revised Statutes, and Title 18, Chapter 9, Articles 1 through 4 of the Arizona Administrative Code and the terms and conditions of this permit.

6.9. Duty to Modify

[A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A211]

The permittee shall apply for and receive a written amendment before deviating from any of the designs or operational practices authorized by this permit.

6.10. Permit Action: Amendment, Transfer, Suspension, and Revocation

[A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

This permit may be amended, transferred, suspended, or revoked for cause, under the rules of the Department. The permittee shall notify the Groundwater Protection Value Stream in writing within 15 days after any change in the owner or operator of the facility. The notification shall state the permit number, the name of the facility, the date of property transfer, and the name, address, and phone number where the new owner or operator can be reached. The operator shall advise the new owner or operators of the terms of this permit and the need for permit transfer in accordance with the rules.

7.0 ADDITIONAL PERMIT CONDITIONS

7.1. Other Information

[A.R.S. § 49-243(K)(8)]

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall promptly submit the correct facts or information.

7.2. Severability

[A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition.

7.3. Permit Transfer

This permit may not be transferred to any other person except after notice to and approval of the transfer by the Department. No transfer shall be approved until the applicant complies with all transfer requirements as specified in A.A.C. R18-9-A212(B) and (C).

Snell & Wilmer

LLP
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Exhibit 18
Notarized Affidavit on Behalf of
Liberty Litchfield Park

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AFFIDAVIT OF KEN KALYTA

Ken Kalyta, being duly sworn, deposes and says:

1. I am a resident of Maricopa County, over 18 years of age, and make this affidavit based on my own personal knowledge.
2. I am an Engineer for Liberty Utilities.
3. The Application for an Extension of Liberty Litchfield Park's existing water and wastewater Certificates of Convenience and Necessity (CC&N), to which this affidavit is attached, was prepared under my supervision.



Ken Kalyta

SUBSCRIBED and sworn to before me this 23 day of May, 2023.

Virginia P. Covarrubias
Notary Public

My Commission Expires:

June 9, 2026

