Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Amendment, Major**	Application No.	**PA0005037 A-2**
Facility Type	**Industrial**	APS ID	**1157223**
Major / Minor	**Major**	Authorization ID	**1560385**

NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

Applicant and Facility Information

Applicant Name	**Homer City Generation, LP**	Facility Name	**Homer City Generation LP**
Applicant Address	1750 Power Plant Road	Facility Address	1750 Power Plant Road
	Homer City, PA 15748-8009		Homer City, PA 15748-8009
Applicant Contact	Shawn Simmers (ssimmers@homercityredevelopment.com)	Facility Contact	Shawn Simmers (ssimmers@homercityredevelopment.com)
Applicant Phone	(724) 479-6109	Facility Phone	(724) 479-6109
Client ID	298406	Site ID	236714
SIC Code	4911	Municipality	Center Township
SIC Description	Trans. & Utilities - Electric Services	County	Indiana
Date Application Received	February 26, 2026	EPA Waived?	No
Date Application Accepted	February 26, 2026	If No, Reason	Major Facility

This is a second draft for an IW NPDES Permit Amendment that was previously drafted on June 27, 2026.
This draft provides revisions to the June 27th draft to correct errors detected in the previous documents.
This second draft supersedes the June 27th draft and the 30-day comment period will restart once this second draft is published in the PA Bulletin.

Purpose of Application	This draft, and the June 27th draft, were for a Major Amendment of an existing IW NPDES Permit to modify the wastestreams that flow to Outfall 027. The effluent limits and monitoring requirements for all other Internal Monitoring Points and Outfalls are unchanged.

Summary of Review

Act 14 - Proof of Notification was submitted and received.
This facility is subject to ELGs.
A Part II Water Quality Management permit amendment application was submitted for this change (WQM Permit 3281205 on 5/6/2026).
The applicant should be able to meet the limits of this permit, which will protect the uses of the receiving stream.

I. OTHER REQUIREMENTS:

A. Right of Way
B. Solids Handling
C. NPDES Permit Supersedes WQM Permits
D. Modification or Revocation of Permit for changes to BAT or BCT
E. Temperature (± 2°C)
F. Chlorine or other approved biocides
G. No Net Addition of Pollutants To NCCW
H. No discharge of polychlorinated biphenyls (PCBs)
I. Cooling tower blowdown
J. Warning Signs at Outfall 001
K. Little or no assimilative capacity
L. Osmotic Pressure

SPECIAL CONDITIONS:

II. Emergency Overflows
III. Schedule of Compliance for Outfalls 001 and 027
IV. Schedule of Compliance for TMDL WQBELs
V. Total Maximum Daily Load Compliance Requirements
VI. WQBELs Below Quantitation Limits
VII. Chemical Additives
VIII. Requirements Applicable to Stormwater Outfalls
IX. Cooling Water Intake Structure

There are 6 open violations in efacts (all AQ) associated with the subject Client ID (298406) as of 6/25/2026 (see Attachment 1).

Approve	Deny	Signatures	Date
X		Stephen A. McCauley Stephen A. McCauley, E.I.T. / Project Manager`	6/25/2026
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	6/26/2026

Discharge, Receiving Waters and Water Supply Information

Outfall No.	027	Design Flow (MGD)	6.84
Latitude	40º 28' 55.00"	Longitude	-79º 11' 35.00"
Quad Name	-	Quad Code	-
Wastewater Description:	IW Process Effluent with ELG (Cooling Tower Blowdown)		
Receiving Waters	Blacklick Creek (TSF)	Stream Code	43979
NHD Com ID	123715278	RMI	10.72
Drainage Area	194	Yield (cfs/mi^2)	0.132
Q_{7-10} Flow (cfs)	34 cfs (23 cfs Blacklick Creek and 11 cfs Two Lick Creek)	Q_{7-10} Basis	USGS Gage 03042000
Elevation (ft)	960	Slope (ft/ft)	0.004
Watershed No.	18-D	Chapter 93 Class.	TSF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	Metals		
Source(s) of Impairment	Acid Mine Drainage		
TMDL Status	Final, 01/29/2010	Name	Kiskiminetas-Conemaugh River Watersheds TMDL

Background/Ambient Data		Data Source
pH (SU)	-	-
Temperature (°F)	-	-
Hardness (mg/L)	-	-
Other:	-	-

Nearest Downstream Public Water Supply Intake	Buffalo Township Municipal Authority - Freeport Plant		
PWS Waters	Allegheny River	Flow at Intake (cfs)	2,576
PWS RMI	29.4	Distance from Outfall (mi)	55.0

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Summary of changes from the June 27, 2026 draft permit:

- Temperature Limitations on Outfall 027 have been revised
- Total Chromium III has been changed to Total Chromium at Outfall 027
- Footnote 9 has been added to the permit
- The unit for Total Zinc has been changed to mg/L at Outfall 027
- The sample type for Total Mercury has been changed to 24-hr composite at Outfall 027

Background and Purpose:

As part of the ongoing redevelopment of the Homer City Generating Station, Homer City plans to modify the industrial wastewater discharge from NPDES Permit Outfall 027 to Blacklick Creek. The discharge from Outfall 027 is currently permitted as 'Unit #3 Flue Gas Desulfurization (FGD) scrubber blowdown'. However, this waste stream has been removed as Homer City has decommissioned its coal-powered generating units and associated FGD systems. Outfall 027 will be modified to discharge Cooling Tower Blowdown from the proposed natural gas generating units that will be installed during redevelopment. The Cooling Tower Blowdown, which was previously conveyed to Outfall 001, will be conveyed by a modified pipeline directed south of the main Power Block through an improved Outfall 027 structure.

As a result of the retirement of the FGD scrubber blowdown wastewater source from Outfall 027, Homer City is requesting removal of the following parameters and their associated monitoring requirements and effluent limitations through an NPDES Permit amendment. Parameters to be removed include those associated with Technology-Based Effluent Limitations (TBELs) contained in the Federal Steam Electric Power Generating Effluent Guidelines (ELGs) at 40 CFR Part 423 for FGD Scrubber Blowdown, as well as parameters which were previously determined to be required for the protection of state water quality standards based on characteristics of the FGD scrubber blowdown wastewater discharge:

Homer City previously submitted documentation to the Pennsylvania Department of Environmental Protection ("the Department") requesting concurrence that a portion of the facility cooling tower blowdown could be discharged to Two Lick Creek via Outfall 001 as needed, such as during facility start-up, for required maintenance, or otherwise for compliance with NPDES Permit requirements, under the Station's existing NPDES Permit. The proposed discharge at Outfall 001 will continue to include treated water from the Ash Disposal Site and Coal Refuse Site through the Industrial Water Treatment (IWT) facility. Homer City received a letter from the Department on January 16, 2026 concurring that an NPDES Permit amendment is not required to reflect the changes to the discharges of wastewater via Outfall 001.

The PFD provides an overview of the discharge to Outfall 027 under current permit conditions, as well as the proposed modifications including alternate cooling tower blowdown discharge to Outfall 001.

Outfall 001 - 4.32 MGD max
Outfall 027 - 6.84 MGD max

Outfall 027 Specifications:

An evaluation was completed to identify the proposed outfall and diffuser configuration that would help achieve thermal mixing criteria at PA Code Chapters 93 and 96 of Title 25 and PA Department of Environmental Protection (PADEP) Document 386-2000-001 Guidelines. The evaluation recommends a multi-port unidirectional diffuser with six (6) 8-inch discharge ports terminating in duckbill nozzles which can accomplish complete mixing with a Partial Mixing Factor (PMF) of 1 within 150 to 200 feet at low flow, or Q7-10, conditions.

A separate outfall alternatives evaluation was completed and is included as an Appendix to Attachment 8-1. This evaluation found that a bank diffuser located under the abandoned railroad trestle, which is owned by Homer City Generation LP, and directed towards the confluence of Blacklick and Two Lick Creeks would minimize the overall disturbance, minimize maintenance efforts during operation, improve reliability, and necessitate the fewest right of way challenges.

Chemical Additives at Outfall 027:

Chemical Additive Name	Outfall No.	On Approved List?	Purpose	Proposed Usage Freq.	Proposed Max. Usage Rate	Units
Chemstream CWT-310	027	Yes	Scale Inhibitor	Daily	98	lbs/day
Chemstream CWT-311	027	Yes	Dispersant / Scale Inhibitor	Daily	448	lbs/day
ChemChlor 160	027	Yes	Biocide	Daily	12,250	lbs/day

ChemChlor 160 will be added to the cooling tower basins at a dosage rate of up to 12,250 lb/day, with a target of 0.2 mg/L Free Available Chlorine in the cooling tower system to prevent biological growth.

ChemClor is composed of between 12.5% to 15.6% Sodium Hypochlorite (NaOCl) and 0.1% to 2.0% Sodium Hydroxide (NaOH), with the remaining volume being water. Once in solution, NaOCl is found as hypochlorous acid, HOCl, which serves as an oxidant to prevent biological growth in the cooling towers. NaOH will consume free hydrogen and bring the pH up by consuming these proton (i.e. H+ + OH- -> H2O).

Dechlorination will occur prior to discharge from Outfall 027. Sodium Bisulfite (NaHSO3) will be added to consume any free oxidant ($NaHSO3 + HOCl + H2O \rightarrow NaHSO4 + HCl$). Approximately 1.5-2.0 mg/L of Sodium Bisulfite must be added per free mg/L of Sodium Hypochlorite to complete this reaction. Sodium Bisulfite will target 2 times the free chlorine concentration to ensure all free oxidant is reduced. For example, based on the 0.2 mg/L Free Available Chlorine target of the Sodium Hypochlorite, Sodium Bisulfite would be dosed to 0.4 mg/L.

This reaction removes any remaining oxidant and therefore there will be no measurable ChemClor 160 concentration in the water discharged from Outfall 027.

Cooling Tower Blowdown details:

Under the current NPDES Permit, Homer City is authorized to discharge 'Cooling tower blowdown from cooling towers #1, #2, and #3' via Outfall 001 to Two Lick Creek. As part of the ongoing redevelopment of the Homer City Generating Station, the coal-fired generating units and Cooling Towers #1-3 will be modified to include seven (7) natural gas generating units and associated closed cycle mechanical cooling towers. The proposed system will continue to operate as a closed-cycle recirculating system, with the cooling tower blowdown discharging primarily to Blacklick Creek via Outfall 027 or, alternatively, to Two Lick Creek via Outfall 001.

Cooling tower blowdown is generated from the (7) cooling towers, equipped with a cooling tower to reject heat from the closed loop circulating water system (CWS). The cooling water will be recycled until its quality is no longer suitable for use due to scaling potential from its high concentration of minerals and total dissolved solids (TDS). Once its quality is degraded, it will be discharged via Outfall 027.

Cooling water is sourced from raw water from Two Lick Creek, evaporation cooler blowdown, Heat Recovery Steam Generator (HRSG) blowdown, and various plant drains. These sources are collected in the cooling tower basins where chemical additives are applied to improve function and longevity of equipment. Water from the cooling tower basin is routed to a condenser, and then the cooling tower, to reject heat and recycle water back to the generating units.

Once concentrations of TDS and minerals in the system warrant blowdown, the stream will be sent to a 43,400-gallon wastewater collection sump and treated to neutralize the chlorine from the previous treatment application. Two fully redundant submersible sump pumps will pump the blowdown water from the wastewater sump to Outfall 027. The maximum blowdown rate to Outfall 027 is approximately 4,750 gallons per minute (gpm), equivalent to approximately 6.84 million gallons per day (MGD).

Temperature Evaluation at Outfall 027:

For the temperature analysis, discharges from Outfall 027 will be classified under the Case 2 scenario (under which temperature limits are applied) because the effluent is sourced from both the receiving stream, Blacklick Creek, and from sources other than the receiving stream. The following temperature WQBELs were calculated from the Thermal Spreadsheet (see Attachment 2) and were added to Outfall 027 during the Final Period (The previous limits of 110°F will be retained for the Interim Period): **Note, in the June 27 2026 draft permit, the Department incorrectly used the default stream temperature values for Warm Water Fishes rather than the default values for Trout Stocking. This has been corrected in this second draft permit, which has changed the proposed temperature limits at Outfall 027.**

Semi-Monthly Increment	**TSF** Target Maximum Stream Temp. (°F)	**Case 1** Daily WLA (Million BTUs/day)	**Case 2** Daily WLA (°F)
Jan 1-31	40	N/A -- Case 2	101.7
Feb 1-29	40	N/A -- Case 2	96.2
Mar 1-31	46	N/A -- Case 2	110.0
Apr 1-15	52	N/A -- Case 2	110.0
Apr 16-30	58	N/A -- Case 2	110.0
May 1-15	64	N/A -- Case 2	110.0
May 16-31	68	N/A -- Case 2	110.0
Jun 1-15	70	N/A -- Case 2	110.0
Jun 16-30	72	N/A -- Case 2	100.9
Jul 1-31	74	N/A -- Case 2	79.5
Aug 1-15	80	N/A -- Case 2	110.0
Aug 16-31	87	N/A -- Case 2	110.0
Sep 1-15	84	N/A -- Case 2	110.0
Sep 16-30	78	N/A -- Case 2	110.0
Oct 1-15	72	N/A -- Case 2	110.0
Oct 16-31	66	N/A -- Case 2	110.0
Nov 1-15	58	N/A -- Case 2	110.0
Nov 16-30	50	N/A -- Case 2	96.3
Dec 1-31	42	N/A -- Case 2	88.3

Due to the new cooling tower blowdown to Outfall 027, Special Condition K was amended to add “Warning signs shall also be added to Outfall 027 in a clearly visible location reading "CAUTION! WATER MAY BE HOT! AVOID CONTACT!"”

TMDL Effluent Limits for Outfall 027:

The US EPA has developed Total Maximum Daily Loads (TMDLs) for streams impaired by acid mine drainage in the Kiskiminetas-Conemaugh River Watershed (Kiski-Conemaugh TMDL), including Blacklick Creek, to which the proposed Cooling Tower Blowdown will disharge via Outfall 027.

The following Waste Load Allocations (WLAs) have been determined for Outfall 027 as part of the Kiski-Conemaugh TMDL development and were included in the NPDES Permit as an annual loading limitation:

Pollutant	**TMDL Allocated Load (lb/yr)**	**TMDL Allocated Concentration (mg/L)**	**Modified Allocated Load (lb/yr)**	**TMDL WQBELs (mg/L)**		
				Average Monthly	**Daily Maximum**	**Instant Maximum**
Aluminum, Total	274	0.75	4,045	6.57	13.1	16.4
Iron, Total	548	1.50	8,091	13.1	26.3	32.8
Manganese, Total	366	1.00	5,395	8.77	17.5	22.0

Homer City is proposing to maintain the existing WLA annual loading limitations for the proposed discharge at Outfall 027. Consistent with the existing NPDES Permit, Homer City is proposing to monitor and report the total mass loading on a monthly basis and comply with the following total mass loading limitations on an annual basis. In addition, Homer City is proposing to maintain concentration limits for parameters associated with the TMDLs on an Average Monthly, Daily Maximum, and Instantaneous Maximum basis.

In order to keep the compliance date for all TMDL WQBELs the same, the compliance timeframe for Outfall 027 will be set to coincide with the extended, five-year timeframe for outfalls that were already subject to TMDL requirements under the 2012 amendment.

ELGs at Outfall 027:

The previous flue gas desulfurization (FGD) wastewaters discharged from Outfall 027 were subject to federal ELGs, which have been removed.

Part of the new discharge to Outfall 027 includes low volume waste sources, which are subject to §423.12(b) paragraphs (1), (2) and (3) for Best Practicable Control Technology Currently Available (BPT).

Pollutant	Average of daily values for 30 consecutive days (mg/L)	Maximum for any 1 day (mg/L)	Basis
TSS	30.0	100.0	40 CFR § 423.12(b)(3)
Oil and Grease	15.0	20.0	40 CFR § 423.12(b)(3)
pH	within the range of 6.0 to 9.0		40 CFR § 423.12(b)(1)

Effluent standards for pH and oil and grease are also imposed on oil-bearing industrial wastes by 25 Pa. Code §§ 95.2(1) and 95.2(2), respectively. The pH limits are the same as those imposed by 40 CFR § 423.12(b)(1). However, for oil and grease, the state regulations include an instantaneous maximum limit of 30 mg/L and a narrative limitation on oil and grease, which are not duplicated by the ELG. These additional oil and grease limits will also be included in the permit.

The proposed Cooling Tower Blowdown is also regulated under the Steam Electric Power Generating ELGs at 40 CFR Part 423. The following parameters associated with TBELs for the proposed Cooling Tower Blowdown discharge will be included at Outfall 027:

Pollutant	Average of daily values for 30 consecutive days (mg/L)	Maximum for any 1 day (mg/L)	Basis
TSS	30.0	100.0	40 CFR § 423.12(b)(3)
Oil and Grease	15.0	20.0	40 CFR § 423.12(b)(3)
pH	within the range of 6.0 to 9.0		40 CFR § 423.12(b)(1)
Free Available Chlorine	0.2	0.5	40 CFR §423.12(b)(3)
Total Chromium	0.2	0.2	40 CFR §423.13(d)(1)
Total Zinc	1.0	1.0	40 CFR §423.13(d)(1)

The limits for Free Available Chlorine, Total Chromium, and Total Zinc will be added with this amendment. Compliance will follow the same interim and final schedule as the previous permit. However, the WQBELs calculated for Total Zinc using the Department's Toxics Management Spreadsheet will be set as final, since they govern. **Note, in the June 27, 2026 draft permit, the Department had a typographical error and imposed Total Chromium III instead of Total Chromium. This typographical error has been corrected and revised in this second draft permit.**

Reasonable Potential for Downstream Public Water Supply (PWS):

The Department's Toxics Management Spreadsheet does not calculate limits for parameters that are based on PWS criteria (TDS, Chloride, Bromide, and Sulfate).

Nearest Downstream potable water supply (PWS): Buffalo Township Municipal Authority - Freeport Plant
Distance downstream from the point of discharge: 55.0 miles

Parameter	PWS Criteria (mg/l)	Discharge Maximum (mg/l)
TDS	500	2,800
Chloride	250	540.9
Bromide	1.0	<0.2
Sulfate	250	1,190

Result: Since TDS, Chloride, and Sulfate are discharged at a concentration much higher than the criteria for the PWS, monitoring will be added for Chloride and Sulfate (TDS was already monitored) with this amendment.

Chapter 95.10 Evaluation:

Under Chapter 95.10(c), new and expanding mass loadings of TDS not addressed in subsections 95.10(a) and 95.10(b) may not contain more than 2,000 mg/L of TDS as a monthly average, unless a variance is approved by the Department under this section. The projected monthly average TDS concentration for this discharge is 1,257 mg/L. Therefore, additional monitoring or limits for TDS will not be required with this NPDES Permit Amendment (monitoring for TDS was already required).

Reasonable Potential for Receiving Stream:

A Reasonable Potential Analysis was performed in accordance with State practices for Outfall 027 using the Department's Toxics Management Spreadsheet.

Stream background data was provided with the amendment and used in the Toxics Management Spreadsheet. The background pH and Total Hardness values provided were 7.64 S.U. and 129.1 mg/l, respectively. In addition, proposed effluent discharge concentrations at Outfall 027 were provided and used in the Toxics Management Spreadsheet (see Attachment 4).

The Q7-10 flow at the new Outfall 027 was calculated as 34 cfs (23 cfs from the Blacklick Creek and 11 cfs from the Two Lick Creek). To adjust for this new flow, the low flow yield (LFY) was changed from 0.132 cfs/mi^2 to 0.175 cfs/mi^2 in order to produce the 34 cfs flow in the Toxics Management Spreadsheet.

The following WQBELs were calculated by the Toxics Management Spreadsheet (see Attachment 3):

Parameter	Discharge Concentration	Calculated WQBEL	%WQBEL
Total Aluminum	508.8 µg/l	750 µg/l	≥50%
Total Antimony	45.8 µg/l	22.7 µg/l	≥50%
Total Cadmium	<0.5 µg/l	3.07 µg/l	>10%
Hexavalent Chromium	<15.3 µg/l	16.3 µg/l	≥50%
Total Cobalt	25.4 µg/l	77.0 µg/l	>10%
Total Copper	101.8 µg/l	110 µg/l	≥50%
Dissolved Iron	<195 µg/l	1216 µg/l	>10%
Total Mercury	0.029 µg/l	0.2 µg/l	>10%
Total Zinc	457.9 µg/l	0.77 mg/l	≥50%

Per the SOP, since the maximum discharge concentrations for Total Aluminum, Total Antimony, Hexavalent Chromium, Total Copper, and Total Zinc were greater than 50% of the calculated WQBEL, limits will be included with this amendment.

Per the SOP, since the maximum discharge concentrations for Total Cadmium, Total Cobalt, Dissolved Iron, and Total Mercury were greater than 10% of the calculated WQBEL, monitoring will be included with this amendment.

Note, the WQBEL for Total Zinc in the June 27, 2026 draft permit was calculated incorrectly due to the incorrect unit used in TMS. The unit has been corrected in this second draft permit, which changed the unit for the final limitations for Zinc at Outfall 027 from µg/L to mg/L.

Chemical Additives at Outfall 027:

Chemical Additive Name	Outfall No.	On Approved List?	Purpose	Proposed Usage Freq.	Proposed Max. Usage Rate	Units
Chemstream CWT-310	027	Yes	Scale inhibitor	Daily	98	lbs/day
Chemstream CWT-311	027	Yes	Dispersant / Ccale inhibitor	Daily	448	lbs/day
ChemChlor 160	027	Yes	Biocide	Daily	12,250	lbs/day

ChemChlor 160 will be added to the cooling tower basins at a dosage rate of up to 12,250 lb/day, with a target of 0.2 mg/L Free Available Chlorine in the cooling tower system to prevent biological growth.

ChemClor is composed of between 12.5% to 15.6% Sodium Hypochlorite (NaOCl) and 0.1% to 2.0% Sodium Hydroxide (NaOH), with the remaining volume being water. Once in solution, NaOCl is found as hypochlorous acid, HOCl, which serves as an oxidant to prevent biological growth in the cooling towers. NaOH will consume free hydrogen and bring the pH up by consuming these proton (i.e. H+ + OH- -> H2O).

Dechlorination will occur prior to discharge from Outfall 027. Sodium Bisulfite (NaHSO3) will be added to consume any free oxidant (NaHSO3 + HOCl + H2O → NaHSO4 + HCl). Approximately 1.5-2.0 mg/L of Sodium Bisulfite must be added per free mg/L of Sodium Hypochlorite to complete this reaction. Sodium Bisulfite will target 2 times the free chlorine concentration to ensure all free oxidant is reduced. For example, based on the 0.2 mg/L Free Available Chlorine target of the Sodium Hypochlorite, Sodium Bisulfite would be dosed to 0.4 mg/L.

This reaction removes any remaining oxidant and therefore there will be no measurable ChemClor 160 concentration in the water discharged from Outfall 027.

Attachment List:

Attachment 1 - Open Violations by Client

Attachment 2 - Thermal Limits Spreadsheet

Attachment 3 - Toxics Management Spreadsheet

Attachment 4 - Outfall 027 Proposed Effluent Concentrations

(The Attachments above can be found at the end of this document)

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

Outfall 027, Effective Period: Permit Effective Date through **November 30, 2026 (59 months after Permit Effective Date)**.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Annual	Minimum	Average Monthly	Maximum	Instant. Maximum		
Total Aluminum (lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/year	Calculation

Compliance Sampling Location: Outfall 027.

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

Outfall 027, Effective Period: Permit Effective Date through November 30, 2026 (59 months after Permit Effective Date).

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/week	Grab
Free Available Chlorine	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Temperature (ºF)	XXX	XXX	XXX	XXX	XXX	110	1/week	I-S
TSS	XXX	XXX	XXX	30.0	100.0	XXX	1/week	24-Hr Composite
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Oil and Grease	XXX	XXX	XXX	15.0	20.0	30	1/week	Grab
Total Aluminum	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Aluminum (lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Total Antimony	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Cadmium	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Hexavalent Chromium	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Chromium	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Cobalt	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite

Outfall 027 , Continued (from Permit Effective Date through November 30, 2026 (59 months after Permit Effective Date))

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Copper	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Dissolved Iron	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Iron	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Iron (lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Total Manganese	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Manganese (lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Total Mercury (ug/L)	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Sulfate	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Zinc	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Chloride	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite

Compliance Sampling Location: Outfall 027.

Note, in the June 27, 2026 draft permit, the Department had a typographical error related to the foot note on Total Antimony, Total Chromium, Total Copper, and Total Zinc. The footnote number has been changed from (3) to (9) in this second draft permit. Footnote (9) has been added to the draft permit which states, "Exceedances of the Maximum Daily limitation for this parameter is subject to 24-hour reporting as specified in Part A III.C.4.b.(i)." Additionally, the sampling type for Total Mercury has been changed from 4 Grabs/24 Hours to 24-Hr Composite in this second draft permit to be consistent with the other toxic parameters.

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

Outfall 027, Effective Period: December 1, 2026 (59 months after Permit Effective Date) through **Permit Expiration Date**.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Annual	Minimum	Average Monthly	Maximum	Instant. Maximum		
Total Aluminum (lbs)	XXX	4045	XXX	XXX	XXX	XXX	1/year	Calculation
Total Iron (lbs)	XXX	8091	XXX	XXX	XXX	XXX	1/year	Calculation
Total Manganese (lbs)	XXX	5395	XXX	XXX	XXX	XXX	1/year	Calculation

Compliance Sampling Location: Outfall 027.

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

Outfall 027, Effective Period: December 1, 2026 (59 months after Permit Effective Date) through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) [1]		Concentrations (mg/L)				Minimum [2] Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/week	Grab
Free Available Chlorine	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Temperature (ºF) Jan 1 - 31	XXX	XXX	XXX	XXX	XXX	101.7	1/week	I-S
Temperature (ºF) Jun 1 - 15	XXX	XXX	XXX	XXX	XXX	110.0	1/week	I-S
Temperature (ºF) Jun 16 - 30	XXX	XXX	XXX	XXX	XXX	100.9	1/week	I-S
Temperature (ºF) Feb 1 - 28	XXX	XXX	XXX	XXX	XXX	96.2	1/week	I-S
Temperature (ºF) Nov 1 - 15	XXX	XXX	XXX	XXX	XXX	110.0	1/week	I-S
Temperature (ºF) Nov 16 - 30	XXX	XXX	XXX	XXX	XXX	96.3	1/week	I-S
Temperature (ºF) Mar 1 - May 31, Aug 1 - Oct 31	XXX	XXX	XXX	XXX	XXX	110.0	1/week	I-S
Temperature (ºF) Jul 1 - 31	XXX	XXX	XXX	XXX	XXX	79.5	1/week	I-S
Temperature (ºF) Dec 1 - 31	XXX	XXX	XXX	XXX	XXX	88.3	1/week	I-S
TSS	XXX	XXX	XXX	30.0	100.0	XXX	1/week	24-Hr Composite
Total Dissolved Solids	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite

Outfall 027 , Continued (from December 1, 2026 (59 months after Permit Effective Date) through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Total Monthly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Oil and Grease	XXX	XXX	XXX	15.0	20.0	30	1/week	Grab
Total Aluminum	XXX	XXX	XXX	0.75	0.75	0.75	1/week	24-Hr Composite
Total Aluminum (lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Total Antimony	XXX	XXX	XXX	0.022	0.044	0.055	1/week	24-Hr Composite
Total Cadmium	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Hexavalent Chromium	XXX	XXX	XXX	0.016	0.032	0.048	1/week	24-Hr Composite
Total Chromium	XXX	XXX	XXX	0.2	0.2	XXX	1/week	24-Hr Composite
Total Cobalt	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Copper	XXX	XXX	XXX	0.11	0.22	0.27	1/week	24-Hr Composite
Dissolved Iron	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Iron	XXX	XXX	XXX	1.5	3.0	3.75	1/week	24-Hr Composite
Total Iron (lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Total Manganese	XXX	XXX	XXX	1.0	2.0	2.5	1/week	24-Hr Composite
Total Manganese (lbs)	XXX	Report	XXX	XXX	XXX	XXX	1/month	Calculation
Total Mercury (ug/L)	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite
Total Zinc	XXX	XXX	XXX	0.77	1.54	1.92	1/week	24-Hr Composite
Chloride	XXX	XXX	XXX	Report	Report	XXX	1/week	24-Hr Composite

Compliance Sampling Location: Outfall 027.

Attachment 1

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

WATER MANAGEMENT SYSTEM
OPEN VIOLATIONS BY CLIENT

Client ID: 298406
Client: All

Open Violations: 6

	CLIENT ID	CLIENT	PF ID	FACILITY	PF KIND	PF STATUS	INSP PROGRAM	PROGRAM SPECIFIC ID	INSP ID	VIOLATION ID
1	298406	HOMER CITY GENERATION LP	262713	HOMER CITY GEN LP/CENTER TWP		Active	Air Quality	80-0833693-1	3423822	968548
2	298406	HOMER CITY GENERATION LP	262713	HOMER CITY GEN LP/CENTER TWP		Active	Air Quality	80-0833693-1	3423822	968549
3	298406	HOMER CITY GENERATION LP	262713	HOMER CITY GEN LP/CENTER TWP		Active	Air Quality	80-0833693-1	3423822	968550
4	298406	HOMER CITY GENERATION LP	262713	HOMER CITY GEN LP/CENTER TWP		Active	Air Quality	80-0833693-1	3431879	970383
5	298406	HOMER CITY GENERATION LP	262713	HOMER CITY GENERATION LP		Active	Air Quality	80-0833693-2	4213846	8278787
6	298406	HOMER CITY GENERATION LP	262713	HOMER CITY GENERATION LP		Active	Air Quality	80-0833693-2	4213846	8278788

	INSPECTION CATEGORY	VIOLATION DATE	VIOLATION CODE	VIOLATION	PF INSPECTOR	INSP REGION
1	PF	07/25/2022	127.441	Construction, Modification, Reactivation and Operation of Sources, Operating Permit Requirements, Operating permit terms and conditions. Violation of the terms and conditions the Department deems necessary to assure the proper operation of the source.	HENSEL, ANNA	NWRO
2	PF	07/25/2022	127.444	Construction, Modification, Reactivation and Operation of Sources, Operating Permit Requirements, Compliance requirements. A person may not cause or permit the operation of a source subject to this article unless the source and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued to the source are operated and maintained in accordance with specifications in the application and conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.	HENSEL, ANNA	NWRO
3	PF	07/25/2022	129.97	Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.	HENSEL, ANNA	NWRO
4	PF	09/22/2022	129.201	Standards for Sources, Additional NOx Requirements for Boilers	HENSEL, ANNA	NWRO
5	PF	06/04/2026	123.1	Standards for Contaminants, Fugitive Emissions, Prohibition of certain fugitive emissions. Failure to take reasonable actions to prevent particulate matter from becoming airborne.		NWRO
6	PF	06/04/2026	127.25	Standards for Contaminants, Fugitive Emissions, Prohibition of certain fugitive emissions. Failure to take reasonable actions to prevent particulate matter from becoming airborne.		NWRO

Attachment 2

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Thermal Limits Spreadsheet
Version 1.0, April 2024

Instructions | *Inputs*

Facility: **Homer City Generating Station**

Permit No.: **PA0005037**

Stream Name: **Blacklick Creek**

Analyst/Engineer: **McCauley**

Stream Q7-10 (cfs)*: **34.0**

Outfall No.: **027**

Analysis Type*: **TSF**

Facility Flows

Semi-Monthly Increment	Intake (Stream) (MGD)*	Intake (External) (MGD)*	Consumptive Loss (MGD)*	Discharge Flow (MGD)
Jan 1-31		36	29.16	6.84
Feb 1-29		36	29.16	6.84
Mar 1-31		36	29.16	6.84
Apr 1-15		36	29.16	6.84
Apr 16-30		36	29.16	6.84
May 1-15		36	29.16	6.84
May 16-31		36	29.16	6.84
Jun 1-15		36	29.16	6.84
Jun 16-30		36	29.16	6.84
Jul 1-31		36	29.16	6.84
Aug 1-15		36	29.16	6.84
Aug 16-31		36	29.16	6.84
Sep 1-15		36	29.16	6.84
Sep 16-30		36	29.16	6.84
Oct 1-15		36	29.16	6.84
Oct 16-31		36	29.16	6.84
Nov 1-15		36	29.16	6.84
Nov 16-30		36	29.16	6.84
Dec 1-31		36	29.16	6.84

Stream Flows

Q7-10 Multipliers (Default Shown)	PMF	Seasonal Stream Flow (cfs)	Downstream Stream Flow (cfs)
3.2	1.00	108.80	119.38
3.5	1.00	119.00	129.58
7	1.00	238.00	248.58
9.3	1.00	316.20	326.78
9.3	1.00	316.20	326.78
5.1	1.00	173.40	183.98
5.1	1.00	173.40	183.98
3	1.00	102.00	112.58
3	1.00	102.00	112.58
1.7	1.00	57.80	68.38
1.4	1.00	47.60	58.18
1.4	1.00	47.60	58.18
1.1	1.00	37.40	47.98
1.1	1.00	37.40	47.98
1.2	1.00	40.80	51.38
1.2	1.00	40.80	51.38
1.6	1.00	54.40	64.98
1.6	1.00	54.40	64.98
2.4	1.00	81.60	92.18

Temperature

Ambient Stream Temperature (°F)*

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Thermal Limits Spreadsheet
Version 1.0, April 2024

Instructions | *TSF Results*

Recommended Limits for Case 1 or Case 2

Semi-Monthly Increment	**TSF** Target Maximum Stream Temp. (°F)	**Case 1** Daily WLA (Million BTUs/day)	**Case 2** Daily WLA (°F)
Jan 1-31	40	N/A -- Case 2	101.7
Feb 1-29	40	N/A -- Case 2	96.2
Mar 1-31	46	N/A -- Case 2	110.0
Apr 1-15	52	N/A -- Case 2	110.0
Apr 16-30	58	N/A -- Case 2	110.0
May 1-15	64	N/A -- Case 2	110.0
May 16-31	68	N/A -- Case 2	110.0
Jun 1-15	70	N/A -- Case 2	110.0
Jun 16-30	72	N/A -- Case 2	100.9
Jul 1-31	74	N/A -- Case 2	79.5
Aug 1-15	80	N/A -- Case 2	110.0
Aug 16-31	87	N/A -- Case 2	110.0
Sep 1-15	84	N/A -- Case 2	110.0
Sep 16-30	78	N/A -- Case 2	110.0
Oct 1-15	72	N/A -- Case 2	110.0
Oct 16-31	66	N/A -- Case 2	110.0
Nov 1-15	58	N/A -- Case 2	110.0
Nov 16-30	50	N/A -- Case 2	96.3
Dec 1-31	42	N/A -- Case 2	88.3

Attachment 3

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Toxics Management Spreadsheet
Version 1.4, May 2025

Discharge Information

Instructions | Discharge | Stream

Facility: **Homer City Generating Station** NPDES Permit No.: **PA0005037** Outfall No.: **027**

Evaluation Type: **Major Sewage / Industrial Waste** Wastewater Description: **Cooling Tower Blowdown**

Discharge Characteristics								
Design Flow (MGD)*	Hardness (mg/l)*	pH (SU)*	Partial Mix Factors (PMFs)				Complete Mix Times (min)	
			AFC	CFC	THH	CRL	Q_{7-10}	Q_h
6.84	1228.8	8						

					0 if left blank		0.5 if left blank		0 if left blank			1 if left blank	
	Discharge Pollutant	Units	Max Discharge Conc		Trib Conc	Stream Conc	Daily CV	Hourly CV	Stream CV	Fate Coeff	FOS	Criteria Mod	Chem Transl
Group 1	Total Dissolved Solids (PWS)	mg/L		2800									
	Chloride (PWS)	mg/L		540.9									
	Bromide	mg/L	<	0.2									
	Sulfate (PWS)	mg/L		1190									
	Fluoride (PWS)	mg/L	<	2.5									
Group 2	Total Aluminum	µg/L		508.8									
	Total Antimony	µg/L		45.8									
	Total Arsenic	µg/L	<	2.5									
	Total Barium	µg/L		508.8									
	Total Beryllium	µg/L		15.3									
	Total Boron	µg/L		305.3									
	Total Cadmium	µg/L	<	0.5									
	Total Chromium (III)	µg/L		15.3									
	Hexavalent Chromium	µg/L	<	15.3									
	Total Cobalt	µg/L		25.4									
	Total Copper	µg/L		101.8									
	Free Cyanide	µg/L	<	1									
	Total Cyanide	µg/L	<	10									
	Dissolved Iron	µg/L	<	195									
	Total Iron	µg/L		254.4									
	Total Lead	µg/L	<	1									
	Total Manganese	µg/L		254.4									
	Total Mercury	µg/L		0.029									
	Total Nickel	µg/L		50.9									
	Total Phenols (Phenolics) (PWS)	µg/L	<	25									
	Total Selenium	µg/L	<	2.5									
	Total Silver	µg/L	<	0.5									
	Total Thallium	µg/L	<	1									
	Total Zinc	µg/L		457.9									
	Total Molybdenum	µg/L		20.4									
	Acrolein	µg/L	<	2									
	Acrylamide	µg/L											
	Acrylonitrile	µg/L	<	0.5									
	Benzene	µg/L	<	0.5									
	Bromoform	µg/L	<	0.5									

Group 3	Carbon Tetrachloride	µg/L	<	0.5									
	Chlorobenzene	µg/L		0.5									
	Chlorodibromomethane	µg/L	<	0.5									
	Chloroethane	µg/L	<	0.5									
	2-Chloroethyl Vinyl Ether	µg/L	<	0.5									
	Chloroform	µg/L	<	0.5									
	Dichlorobromomethane	µg/L	<	0.5									
	1,1-Dichloroethane	µg/L	<	0.5									
	1,2-Dichloroethane	µg/L	<	0.5									
	1,1-Dichloroethylene	µg/L	<	0.5									
	1,2-Dichloropropane	µg/L	<	0.5									
	1,3-Dichloropropylene	µg/L	<	0.5									
	1,4-Dioxane	µg/L	<	10									
	Ethylbenzene	µg/L	<	0.5									
	Methyl Bromide	µg/L	<	0.5									
	Methyl Chloride	µg/L	<	0.5									
	Methylene Chloride	µg/L	<	0.5									
	1,1,2,2-Tetrachloroethane	µg/L	<	0.5									
	Tetrachloroethylene	µg/L	<	0.5									
	Toluene	µg/L	<	0.5									
	1,2-trans-Dichloroethylene	µg/L	<	0.5									
	1,1,1-Trichloroethane	µg/L	<	0.5									
	1,1,2-Trichloroethane	µg/L	<	0.5									
	Trichloroethylene	µg/L	<	0.5									
	Vinyl Chloride	µg/L	<	0.5									
Group 4	2-Chlorophenol	µg/L	<	10									
	2,4-Dichlorophenol	µg/L	<	10									
	2,4-Dimethylphenol	µg/L	<	10									
	4,6-Dinitro-o-Cresol	µg/L	<	10									
	2,4-Dinitrophenol	µg/L	<	10									
	2-Nitrophenol	µg/L	<	10									
	4-Nitrophenol	µg/L	<	10									
	p-Chloro-m-Cresol	µg/L	<	10									
	Pentachlorophenol	µg/L	<	10									
	Phenol	µg/L	<	10									
	2,4,6-Trichlorophenol	µg/L	<	10									
Group 5	Acenaphthene	µg/L	<	2.5									
	Acenaphthylene	µg/L	<	2.5									
	Anthracene	µg/L	<	2.5									
	Benzidine	µg/L	<	50									
	Benzo(a)Anthracene	µg/L	<	2.5									
	Benzo(a)Pyrene	µg/L	<	2.5									
	3,4-Benzofluoranthene	µg/L	<	2.5									
	Benzo(ghi)Perylene	µg/L	<	2.5									
	Benzo(k)Fluoranthene	µg/L	<	2.5									
	Bis(2-Chloroethoxy)Methane	µg/L	<	5									
	Bis(2-Chloroethyl)Ether	µg/L	<	5									
	Bis(2-Chloroisopropyl)Ether	µg/L	<	5									
	Bis(2-Ethylhexyl)Phthalate	µg/L	<	5									
	4-Bromophenyl Phenyl Ether	µg/L	<	5									
	Butyl Benzyl Phthalate	µg/L	<	5									
	2-Chloronaphthalene	µg/L	<	5									
	4-Chlorophenyl Phenyl Ether	µg/L	<	5									
	Chrysene	µg/L	<	2.5									
	Dibenzo(a,h)Anthrancene	µg/L	<	2.5									
	1,2-Dichlorobenzene	µg/L	<	0.5									
	1,3-Dichlorobenzene	µg/L	<	0.5									
	1,4-Dichlorobenzene	µg/L	<	0.5									
	3,3-Dichlorobenzidine	µg/L	<	5									
	Diethyl Phthalate	µg/L	<	5									
	Dimethyl Phthalate	µg/L	<	5									
	Di-n-Butyl Phthalate	µg/L	<	5									
	2,4-Dinitrotoluene	µg/L	<	5									

	2,6-Dinitrotoluene	µg/L	<	5									
	Di-n-Octyl Phthalate	µg/L	<	5									
	1,2-Diphenylhydrazine	µg/L	<	10									
	Fluoranthene	µg/L	<	2.5									
	Fluorene	µg/L	<	2.5									
	Hexachlorobenzene	µg/L	<	5									
	Hexachlorobutadiene	µg/L	<	0.5									
	Hexachlorocyclopentadiene	µg/L	<	5									
	Hexachloroethane	µg/L	<	5									
	Indeno(1,2,3-cd)Pyrene	µg/L	<	2.5									
	Isophorone	µg/L	<	5									
	Naphthalene	µg/L	<	0.5									
	Nitrobenzene	µg/L	<	5									
	n-Nitrosodimethylamine	µg/L	<	5									
	n-Nitrosodi-n-Propylamine	µg/L	<	5									
	n-Nitrosodiphenylamine	µg/L	<	5									
	Phenanthrene	µg/L	<	2.5									
	Pyrene	µg/L	<	2.5									
	1,2,4-Trichlorobenzene	µg/L	<	0.5									
Group 6	Aldrin	µg/L	<										
	alpha-BHC	µg/L	<										
	beta-BHC	µg/L	<										
	gamma-BHC	µg/L	<										
	delta BHC	µg/L	<										
	Chlordane	µg/L	<										
	4,4-DDT	µg/L	<										
	4,4-DDE	µg/L	<										
	4,4-DDD	µg/L	<										
	Dieldrin	µg/L	<										
	alpha-Endosulfan	µg/L	<										
	beta-Endosulfan	µg/L	<										
	Endosulfan Sulfate	µg/L	<										
	Endrin	µg/L	<										
	Endrin Aldehyde	µg/L	<										
	Heptachlor	µg/L	<										
	Heptachlor Epoxide	µg/L	<										
	PCB-1016	µg/L	<										
	PCB-1221	µg/L	<										
	PCB-1232	µg/L	<										
	PCB-1242	µg/L	<										
	PCB-1248	µg/L	<										
	PCB-1254	µg/L	<										
	PCB-1260	µg/L	<										
	PCBs, Total	µg/L	<										
	Toxaphene	µg/L	<										
	2,3,7,8-TCDD	ng/L	<										
Group 7	Gross Alpha	pCi/L											
	Total Beta	pCi/L	<										
	Radium 226/228	pCi/L	<										
	Total Strontium	µg/L	<										
	Total Uranium	µg/L	<										
	Osmotic Pressure	mOs/kg											

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Toxics Management Spreadsheet
Version 1.4, May 2025

Stream / Surface Water Information

Homer City Generating Station, NPDES Permit No. PA0005037, Outfall 027

Instructions | Discharge | *Stream*

Receiving Surface Water Name: **Blacklick Creek**

No. Reaches to Model: 1

- (●) Statewide Criteria
- ( ) Great Lakes Criteria
- ( ) ORSANCO Criteria

Location	Stream Code*	RMI*	Elevation (ft)*	DA (mi^2)*	Slope (ft/ft)	PWS Withdrawal (MGD)	Apply Fish Criteria*
Point of Discharge	043979	10	959.5	194			Yes
End of Reach 1	043979	10.72	960	194			Yes

$Q_{7\text{-}10}$

Location	RMI	LFY (cfs/mi^2)*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness*	pH*	Hardness	pH
Point of Discharge	10	0.175										129.1	7.64		
End of Reach 1	10.72	0.175													

Q_h

Location	RMI	LFY (cfs/mi^2)	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness	pH	Hardness	pH
Point of Discharge	10														
End of Reach 1	10.72														

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Toxics Management Spreadsheet
Version 1.4, May 2025

Model Results

Homer City Generating Station, NPDES Permit No. PA0005037, Outfall 027

Instructions | Results | RETURN TO INPUTS | SAVE AS PDF | PRINT | ◉ All ○ Inputs ○ Results ○ Limits

☐ ***Hydrodynamics***

☑ ***Wasteload Allocations***

☑ ***AFC*** CCT (min): ###### PMF: 0.137 Analysis Hardness (mg/l): 892.39 Analysis pH: 7.86

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Fluoride (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	750	750	1,081	
Total Antimony	0	0		0	1,100	1,100	1,585	
Total Arsenic	0	0		0	340	340	490	Chem Translator of 1 applied
Total Barium	0	0		0	21,000	21,000	30,256	
Total Boron	0	0		0	8,100	8,100	11,670	
Total Cadmium	0	0		0	16.827	19.7	28.4	Chem Translator of 0.852 applied
Total Chromium (III)	0	0		0	3421.355	10,827	15,599	Chem Translator of 0.316 applied
Hexavalent Chromium	0	0		0	16	16.3	23.5	Chem Translator of 0.982 applied
Total Cobalt	0	0		0	95	95.0	137	
Total Copper	0	0		0	105.677	110	159	Chem Translator of 0.96 applied
Free Cyanide	0	0		0	22	22.0	31.7	
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	625.170	1,324	1,908	Chem Translator of 0.472 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	1.400	1.65	2.37	Chem Translator of 0.85 applied
Total Nickel	0	0		0	2982.861	2,989	4,306	Chem Translator of 0.998 applied
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0		0	N/A	N/A	N/A	Chem Translator of 0.922 applied
Total Silver	0	0		0	138.794	163	235	Chem Translator of 0.85 applied
Total Thallium	0	0		0	65	65.0	93.6	
Total Zinc	0	0		0	748.616	765	1,103	Chem Translator of 0.978 applied

Acrolein	0	0		0	3	3.0	4.32	
Acrylonitrile	0	0		0	650	650	936	
Benzene	0	0		0	640	640	922	
Bromoform	0	0		0	1,800	1,800	2,593	
Carbon Tetrachloride	0	0		0	2,800	2,800	4,034	
Chlorobenzene	0	0		0	1,200	1,200	1,729	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0		0	18,000	18,000	25,933	
Chloroform	0	0		0	1,900	1,900	2,737	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	15,000	15,000	21,611	
1,1-Dichloroethylene	0	0		0	7,500	7,500	10,806	
1,2-Dichloropropane	0	0		0	11,000	11,000	15,848	
1,3-Dichloropropylene	0	0		0	310	310	447	
Ethylbenzene	0	0		0	2,900	2,900	4,178	
Methyl Bromide	0	0		0	550	550	792	
Methyl Chloride	0	0		0	28,000	28,000	40,341	
Methylene Chloride	0	0		0	12,000	12,000	17,289	
1,1,2,2-Tetrachloroethane	0	0		0	1,000	1,000	1,441	
Tetrachloroethylene	0	0		0	700	700	1,009	
Toluene	0	0		0	1,700	1,700	2,449	
1,2-trans-Dichloroethylene	0	0		0	6,800	6,800	9,797	
1,1,1-Trichloroethane	0	0		0	3,000	3,000	4,322	
1,1,2-Trichloroethane	0	0		0	3,400	3,400	4,899	
Trichloroethylene	0	0		0	2,300	2,300	3,314	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	560	560	807	
2,4-Dichlorophenol	0	0		0	1,700	1,700	2,449	
2,4-Dimethylphenol	0	0		0	660	660	951	
4,6-Dinitro-o-Cresol	0	0		0	80	80.0	115	
2,4-Dinitrophenol	0	0		0	660	660	951	
2-Nitrophenol	0	0		0	8,000	8,000	11,526	
4-Nitrophenol	0	0		0	2,300	2,300	3,314	
p-Chloro-m-Cresol	0	0		0	160	160	231	
Pentachlorophenol	0	0		0	20.609	20.6	29.7	
Phenol	0	0		0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0		0	460	460	663	
Acenaphthene	0	0		0	83	83.0	120	
Anthracene	0	0		0	N/A	N/A	N/A	
Benzidine	0	0		0	300	300	432	
Benzo(a)Anthracene	0	0		0	0.5	0.5	0.72	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0		0	30,000	30,000	43,222	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	4,500	4,500	6,483	
4-Bromophenyl Phenyl Ether	0	0		0	270	270	389	

Butyl Benzyl Phthalate	0	0		0	140	140	202	
2-Chloronaphthalene	0	0		0	N/A	N/A	N/A	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0		0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0		0	820	820	1,181	
1,3-Dichlorobenzene	0	0		0	350	350	504	
1,4-Dichlorobenzene	0	0		0	730	730	1,052	
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	4,000	4,000	5,763	
Dimethyl Phthalate	0	0		0	2,500	2,500	3,602	
Di-n-Butyl Phthalate	0	0		0	110	110	158	
2,4-Dinitrotoluene	0	0		0	1,600	1,600	2,305	
2,6-Dinitrotoluene	0	0		0	990	990	1,426	
1,2-Diphenylhydrazine	0	0		0	15	15.0	21.6	
Fluoranthene	0	0		0	200	200	288	
Fluorene	0	0		0	N/A	N/A	N/A	
Hexachlorobenzene	0	0		0	N/A	N/A	N/A	
Hexachlorobutadiene	0	0		0	10	10.0	14.4	
Hexachlorocyclopentadiene	0	0		0	5	5.0	7.2	
Hexachloroethane	0	0		0	60	60.0	86.4	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	10,000	10,000	14,407	
Naphthalene	0	0		0	140	140	202	
Nitrobenzene	0	0		0	4,000	4,000	5,763	
n-Nitrosodimethylamine	0	0		0	17,000	17,000	24,493	
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0		0	300	300	432	
Phenanthrene	0	0		0	5	5.0	7.2	
Pyrene	0	0		0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0		0	130	130	187	

☑ ***CFC*** CCT (min): 720 PMF: 0.952 Analysis Hardness (mg/l): 400.39 Analysis pH: 7.71

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Fluoride (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	220	220	892	
Total Arsenic	0	0		0	150	150	608	Chem Translator of 1 applied
Total Barium	0	0		0	4,100	4,100	16,620	
Total Boron	0	0		0	1,600	1,600	6,486	
Total Cadmium	0	0		0	0.644	0.76	3.07	Chem Translator of 0.851 applied
Total Chromium (III)	0	0		0	230.856	268	1,088	Chem Translator of 0.86 applied
Hexavalent Chromium	0	0		0	10	10.4	42.1	Chem Translator of 0.962 applied

Total Cobalt	0	0		0	19	19.0	77.0	
Total Copper	0	0		0	29.304	30.5	124	Chem Translator of 0.96 applied
Free Cyanide	0	0		0	5.2	5.2	21.1	
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	1,500	1,500	6,313	WQC = 30 day average; PMF = 1
Total Lead	0	0		0	10.955	18.6	75.4	Chem Translator of 0.589 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	0.770	0.91	3.67	Chem Translator of 0.85 applied
Total Nickel	0	0		0	168.175	169	684	Chem Translator of 0.997 applied
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0		0	4.600	4.99	20.2	Chem Translator of 0.922 applied
Total Silver	0	0		0	N/A	N/A	N/A	Chem Translator of 1 applied
Total Thallium	0	0		0	13	13.0	52.7	
Total Zinc	0	0		0	382.720	388	1,573	Chem Translator of 0.986 applied
Acrolein	0	0		0	3	3.0	12.2	
Acrylonitrile	0	0		0	130	130	527	
Benzene	0	0		0	130	130	527	
Bromoform	0	0		0	370	370	1,500	
Carbon Tetrachloride	0	0		0	560	560	2,270	
Chlorobenzene	0	0		0	240	240	973	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0		0	3,500	3,500	14,187	
Chloroform	0	0		0	390	390	1,581	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	3,100	3,100	12,566	
1,1-Dichloroethylene	0	0		0	1,500	1,500	6,080	
1,2-Dichloropropane	0	0		0	2,200	2,200	8,918	
1,3-Dichloropropylene	0	0		0	61	61.0	247	
Ethylbenzene	0	0		0	580	580	2,351	
Methyl Bromide	0	0		0	110	110	446	
Methyl Chloride	0	0		0	5,500	5,500	22,294	
Methylene Chloride	0	0		0	2,400	2,400	9,728	
1,1,2,2-Tetrachloroethane	0	0		0	210	210	851	
Tetrachloroethylene	0	0		0	140	140	567	
Toluene	0	0		0	330	330	1,338	
1,2-trans-Dichloroethylene	0	0		0	1,400	1,400	5,675	
1,1,1-Trichloroethane	0	0		0	610	610	2,473	
1,1,2-Trichloroethane	0	0		0	680	680	2,756	
Trichloroethylene	0	0		0	450	450	1,824	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	110	110	446	
2,4-Dichlorophenol	0	0		0	340	340	1,378	
2,4-Dimethylphenol	0	0		0	130	130	527	
4,6-Dinitro-o-Cresol	0	0		0	16	16.0	64.9	
2,4-Dinitrophenol	0	0		0	130	130	527	

2-Nitrophenol	0	0		0	1,600	1,600	6,486	
4-Nitrophenol	0	0		0	470	470	1,905	
p-Chloro-m-Cresol	0	0		0	500	500	2,027	
Pentachlorophenol	0	0		0	15.811	15.8	64.1	
Phenol	0	0		0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0		0	91	91.0	369	
Acenaphthene	0	0		0	17	17.0	68.9	
Anthracene	0	0		0	N/A	N/A	N/A	
Benzidine	0	0		0	59	59.0	239	
Benzo(a)Anthracene	0	0		0	0.1	0.1	0.41	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0		0	6,000	6,000	24,321	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	910	910	3,689	
4-Bromophenyl Phenyl Ether	0	0		0	54	54.0	219	
Butyl Benzyl Phthalate	0	0		0	35	35.0	142	
2-Chloronaphthalene	0	0		0	N/A	N/A	N/A	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0		0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0		0	160	160	649	
1,3-Dichlorobenzene	0	0		0	69	69.0	280	
1,4-Dichlorobenzene	0	0		0	150	150	608	
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	800	800	3,243	
Dimethyl Phthalate	0	0		0	500	500	2,027	
Di-n-Butyl Phthalate	0	0		0	21	21.0	85.1	
2,4-Dinitrotoluene	0	0		0	320	320	1,297	
2,6-Dinitrotoluene	0	0		0	200	200	811	
1,2-Diphenylhydrazine	0	0		0	3	3.0	12.2	
Fluoranthene	0	0		0	40	40.0	162	
Fluorene	0	0		0	N/A	N/A	N/A	
Hexachlorobenzene	0	0		0	N/A	N/A	N/A	
Hexachlorobutadiene	0	0		0	2	2.0	8.11	
Hexachlorocyclopentadiene	0	0		0	1	1.0	4.05	
Hexachloroethane	0	0		0	12	12.0	48.6	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	2,100	2,100	8,512	
Naphthalene	0	0		0	43	43.0	174	
Nitrobenzene	0	0		0	810	810	3,283	
n-Nitrosodimethylamine	0	0		0	3,400	3,400	13,782	
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0		0	59	59.0	239	
Phenanthrene	0	0		0	1	1.0	4.05	

Pyrene	0	0		0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0		0	26	26.0	105	

☑ ***THH*** CCT (min): 720 PMF: 0.952 Analysis Hardness (mg/l): N/A Analysis pH: N/A

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	500,000	500,000	N/A	
Chloride (PWS)	0	0		0	250,000	250,000	N/A	
Sulfate (PWS)	0	0		0	250,000	250,000	N/A	
Fluoride (PWS)	0	0		0	2,000	2,000	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	5.6	5.6	22.7	
Total Arsenic	0	0		0	10	10.0	40.5	
Total Barium	0	0		0	2,400	2,400	9,728	
Total Boron	0	0		0	3,100	3,100	12,566	
Total Cadmium	0	0		0	N/A	N/A	N/A	
Total Chromium (III)	0	0		0	N/A	N/A	N/A	
Hexavalent Chromium	0	0		0	N/A	N/A	N/A	
Total Cobalt	0	0		0	N/A	N/A	N/A	
Total Copper	0	0		0	N/A	N/A	N/A	
Free Cyanide	0	0		0	4	4.0	16.2	
Dissolved Iron	0	0		0	300	300	1,216	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	N/A	N/A	N/A	
Total Manganese	0	0		0	1,000	1,000	4,054	
Total Mercury	0	0		0	0.050	0.05	0.2	
Total Nickel	0	0		0	610	610	2,473	
Total Phenols (Phenolics) (PWS)	0	0		0	5	5.0	N/A	
Total Selenium	0	0		0	N/A	N/A	N/A	
Total Silver	0	0		0	N/A	N/A	N/A	
Total Thallium	0	0		0	0.24	0.24	0.97	
Total Zinc	0	0		0	N/A	N/A	N/A	
Acrolein	0	0		0	3	3.0	12.2	
Acrylonitrile	0	0		0	N/A	N/A	N/A	
Benzene	0	0		0	N/A	N/A	N/A	
Bromoform	0	0		0	N/A	N/A	N/A	
Carbon Tetrachloride	0	0		0	N/A	N/A	N/A	
Chlorobenzene	0	0		0	100	100.0	405	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0		0	N/A	N/A	N/A	
Chloroform	0	0		0	5.7	5.7	23.1	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	N/A	N/A	N/A	
1,1-Dichloroethylene	0	0		0	33	33.0	134	

1,2-Dichloropropane	0	0		0	N/A	N/A	N/A	
1,3-Dichloropropylene	0	0		0	N/A	N/A	N/A	
Ethylbenzene	0	0		0	68	68.0	276	
Methyl Bromide	0	0		0	100	100.0	405	
Methyl Chloride	0	0		0	N/A	N/A	N/A	
Methylene Chloride	0	0		0	N/A	N/A	N/A	
1,1,2,2-Tetrachloroethane	0	0		0	N/A	N/A	N/A	
Tetrachloroethylene	0	0		0	N/A	N/A	N/A	
Toluene	0	0		0	57	57.0	231	
1,2-trans-Dichloroethylene	0	0		0	100	100.0	405	
1,1,1-Trichloroethane	0	0		0	10,000	10,000	40,535	
1,1,2-Trichloroethane	0	0		0	N/A	N/A	N/A	
Trichloroethylene	0	0		0	N/A	N/A	N/A	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	30	30.0	122	
2,4-Dichlorophenol	0	0		0	10	10.0	40.5	
2,4-Dimethylphenol	0	0		0	100	100.0	405	
4,6-Dinitro-o-Cresol	0	0		0	2	2.0	8.11	
2,4-Dinitrophenol	0	0		0	10	10.0	40.5	
2-Nitrophenol	0	0		0	N/A	N/A	N/A	
4-Nitrophenol	0	0		0	N/A	N/A	N/A	
p-Chloro-m-Cresol	0	0		0	N/A	N/A	N/A	
Pentachlorophenol	0	0		0	N/A	N/A	N/A	
Phenol	0	0		0	4,000	4,000	16,214	
2,4,6-Trichlorophenol	0	0		0	N/A	N/A	N/A	
Acenaphthene	0	0		0	70	70.0	284	
Anthracene	0	0		0	300	300	1,216	
Benzidine	0	0		0	N/A	N/A	N/A	
Benzo(a)Anthracene	0	0		0	N/A	N/A	N/A	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroisopropyl)Ether	0	0		0	200	200	811	
Bis(2-Ethylhexyl)Phthalate	0	0		0	N/A	N/A	N/A	
4-Bromophenyl Phenyl Ether	0	0		0	N/A	N/A	N/A	
Butyl Benzyl Phthalate	0	0		0	0.1	0.1	0.41	
2-Chloronaphthalene	0	0		0	800	800	3,243	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0		0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0		0	1,000	1,000	4,054	
1,3-Dichlorobenzene	0	0		0	7	7.0	28.4	
1,4-Dichlorobenzene	0	0		0	300	300	1,216	
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	600	600	2,432	

Dimethyl Phthalate	0	0		0	2,000	2,000	8,107	
Di-n-Butyl Phthalate	0	0		0	20	20.0	81.1	
2,4-Dinitrotoluene	0	0		0	N/A	N/A	N/A	
2,6-Dinitrotoluene	0	0		0	N/A	N/A	N/A	
1,2-Diphenylhydrazine	0	0		0	N/A	N/A	N/A	
Fluoranthene	0	0		0	20	20.0	81.1	
Fluorene	0	0		0	50	50.0	203	
Hexachlorobenzene	0	0		0	N/A	N/A	N/A	
Hexachlorobutadiene	0	0		0	N/A	N/A	N/A	
Hexachlorocyclopentadiene	0	0		0	4	4.0	16.2	
Hexachloroethane	0	0		0	N/A	N/A	N/A	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	34	34.0	138	
Naphthalene	0	0		0	N/A	N/A	N/A	
Nitrobenzene	0	0		0	10	10.0	40.5	
n-Nitrosodimethylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0		0	N/A	N/A	N/A	
Phenanthrene	0	0		0	N/A	N/A	N/A	
Pyrene	0	0		0	20	20.0	81.1	
1,2,4-Trichlorobenzene	0	0		0	0.07	0.07	0.28	

☑ ***CRL*** CCT (min): ###### PMF: 1 Analysis Hardness (mg/l): N/A Analysis pH: N/A

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Fluoride (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	N/A	N/A	N/A	
Total Arsenic	0	0		0	N/A	N/A	N/A	
Total Barium	0	0		0	N/A	N/A	N/A	
Total Boron	0	0		0	N/A	N/A	N/A	
Total Cadmium	0	0		0	N/A	N/A	N/A	
Total Chromium (III)	0	0		0	N/A	N/A	N/A	
Hexavalent Chromium	0	0		0	N/A	N/A	N/A	
Total Cobalt	0	0		0	N/A	N/A	N/A	
Total Copper	0	0		0	N/A	N/A	N/A	
Free Cyanide	0	0		0	N/A	N/A	N/A	
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	N/A	N/A	N/A	
Total Manganese	0	0		0	N/A	N/A	N/A	

Total Mercury	0	0		0	N/A	N/A	N/A	
Total Nickel	0	0		0	N/A	N/A	N/A	
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0		0	N/A	N/A	N/A	
Total Silver	0	0		0	N/A	N/A	N/A	
Total Thallium	0	0		0	N/A	N/A	N/A	
Total Zinc	0	0		0	N/A	N/A	N/A	
Acrolein	0	0		0	N/A	N/A	N/A	
Acrylonitrile	0	0		0	0.06	0.06	0.98	
Benzene	0	0		0	0.58	0.58	9.45	
Bromoform	0	0		0	7	7.0	114	
Carbon Tetrachloride	0	0		0	0.4	0.4	6.52	
Chlorobenzene	0	0		0	N/A	N/A	N/A	
Chlorodibromomethane	0	0		0	0.8	0.8	13.0	
2-Chloroethyl Vinyl Ether	0	0		0	N/A	N/A	N/A	
Chloroform	0	0		0	N/A	N/A	N/A	
Dichlorobromomethane	0	0		0	0.95	0.95	15.5	
1,2-Dichloroethane	0	0		0	9.9	9.9	161	
1,1-Dichloroethylene	0	0		0	N/A	N/A	N/A	
1,2-Dichloropropane	0	0		0	0.9	0.9	14.7	
1,3-Dichloropropylene	0	0		0	0.27	0.27	4.4	
Ethylbenzene	0	0		0	N/A	N/A	N/A	
Methyl Bromide	0	0		0	N/A	N/A	N/A	
Methyl Chloride	0	0		0	N/A	N/A	N/A	
Methylene Chloride	0	0		0	20	20.0	326	
1,1,2,2-Tetrachloroethane	0	0		0	0.2	0.2	3.26	
Tetrachloroethylene	0	0		0	10	10.0	163	
Toluene	0	0		0	N/A	N/A	N/A	
1,2-trans-Dichloroethylene	0	0		0	N/A	N/A	N/A	
1,1,1-Trichloroethane	0	0		0	N/A	N/A	N/A	
1,1,2-Trichloroethane	0	0		0	0.55	0.55	8.96	
Trichloroethylene	0	0		0	0.6	0.6	9.77	
Vinyl Chloride	0	0		0	0.02	0.02	0.33	
2-Chlorophenol	0	0		0	N/A	N/A	N/A	
2,4-Dichlorophenol	0	0		0	N/A	N/A	N/A	
2,4-Dimethylphenol	0	0		0	N/A	N/A	N/A	
4,6-Dinitro-o-Cresol	0	0		0	N/A	N/A	N/A	
2,4-Dinitrophenol	0	0		0	N/A	N/A	N/A	
2-Nitrophenol	0	0		0	N/A	N/A	N/A	
4-Nitrophenol	0	0		0	N/A	N/A	N/A	
p-Chloro-m-Cresol	0	0		0	N/A	N/A	N/A	
Pentachlorophenol	0	0		0	0.030	0.03	0.49	
Phenol	0	0		0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0		0	1.5	1.5	24.4	
Acenaphthene	0	0		0	N/A	N/A	N/A	

Anthracene	0	0		0	N/A	N/A	N/A	
Benzidine	0	0		0	0.0001	0.0001	0.002	
Benzo(a)Anthracene	0	0		0	0.001	0.001	0.016	
Benzo(a)Pyrene	0	0		0	0.0001	0.0001	0.002	
3,4-Benzofluoranthene	0	0		0	0.001	0.001	0.016	
Benzo(k)Fluoranthene	0	0		0	0.01	0.01	0.16	
Bis(2-Chloroethyl)Ether	0	0		0	0.03	0.03	0.49	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	0.32	0.32	5.21	
4-Bromophenyl Phenyl Ether	0	0		0	N/A	N/A	N/A	
Butyl Benzyl Phthalate	0	0		0	N/A	N/A	N/A	
2-Chloronaphthalene	0	0		0	N/A	N/A	N/A	
Chrysene	0	0		0	0.12	0.12	1.95	
Dibenzo(a,h)Anthrancene	0	0		0	0.0001	0.0001	0.002	
1,2-Dichlorobenzene	0	0		0	N/A	N/A	N/A	
1,3-Dichlorobenzene	0	0		0	N/A	N/A	N/A	
1,4-Dichlorobenzene	0	0		0	N/A	N/A	N/A	
3,3-Dichlorobenzidine	0	0		0	0.05	0.05	0.81	
Diethyl Phthalate	0	0		0	N/A	N/A	N/A	
Dimethyl Phthalate	0	0		0	N/A	N/A	N/A	
Di-n-Butyl Phthalate	0	0		0	N/A	N/A	N/A	
2,4-Dinitrotoluene	0	0		0	0.05	0.05	0.81	
2,6-Dinitrotoluene	0	0		0	0.05	0.05	0.81	
1,2-Diphenylhydrazine	0	0		0	0.03	0.03	0.49	
Fluoranthene	0	0		0	N/A	N/A	N/A	
Fluorene	0	0		0	N/A	N/A	N/A	
Hexachlorobenzene	0	0		0	0.00008	0.00008	0.001	
Hexachlorobutadiene	0	0		0	0.01	0.01	0.16	
Hexachlorocyclopentadiene	0	0		0	N/A	N/A	N/A	
Hexachloroethane	0	0		0	0.1	0.1	1.63	
Indeno(1,2,3-cd)Pyrene	0	0		0	0.001	0.001	0.016	
Isophorone	0	0		0	N/A	N/A	N/A	
Naphthalene	0	0		0	N/A	N/A	N/A	
Nitrobenzene	0	0		0	N/A	N/A	N/A	
n-Nitrosodimethylamine	0	0		0	0.0007	0.0007	0.011	
n-Nitrosodi-n-Propylamine	0	0		0	0.005	0.005	0.081	
n-Nitrosodiphenylamine	0	0		0	3.3	3.3	53.8	
Phenanthrene	0	0		0	N/A	N/A	N/A	
Pyrene	0	0		0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0		0	N/A	N/A	N/A	

☑ ***Recommended WQBELs & Monitoring Requirements***

No. Samples/Month: 4

	Mass Limits		*Concentration Limits*						
Pollutants	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units	Governing WQBEL	WQBEL Basis	Comments
Total Aluminum	42.8	61.6	750	1,081	1,081	µg/L	750	AFC	Discharge Conc ≥ 50% WQBEL (RP)
Total Antimony	1.29	2.02	22.7	35.4	56.7	µg/L	22.7	THH	Discharge Conc ≥ 50% WQBEL (RP)
Total Cadmium	Report	Report	Report	Report	Report	µg/L	3.07	CFC	Discharge Conc > 10% WQBEL (no RP)
Hexavalent Chromium	0.93	1.34	16.3	23.5	23.5	µg/L	16.3	AFC	Discharge Conc ≥ 50% WQBEL (RP)
Total Cobalt	Report	Report	Report	Report	Report	µg/L	77.0	CFC	Discharge Conc > 10% WQBEL (no RP)
Total Copper	6.28	9.05	110	159	159	µg/L	110	AFC	Discharge Conc ≥ 50% WQBEL (RP)
Dissolved Iron	Report	Report	Report	Report	Report	µg/L	1,216	THH	Discharge Conc > 10% WQBEL (no RP)
Total Mercury	Report	Report	Report	Report	Report	µg/L	0.2	THH	Discharge Conc > 10% WQBEL (no RP)
Total Zinc	43.7	62.9	765	1,103	1,103	µg/L	765	AFC	Discharge Conc ≥ 50% WQBEL (RP)

☑ ***Other Pollutants without Limits or Monitoring***

The following pollutants do not require effluent limits or monitoring based on water quality because reasonable potential to exceed water quality criteria was not determined and the discharge concentration was less than thresholds for monitoring, or the pollutant was not detected and a sufficiently sensitive analytical method was used (e.g., <= Target QL).

Pollutants	Governing WQBEL	Units	Comments
Total Dissolved Solids (PWS)	N/A	N/A	PWS Not Applicable
Chloride (PWS)	N/A	N/A	PWS Not Applicable
Bromide	N/A	N/A	No WQS
Sulfate (PWS)	N/A	N/A	PWS Not Applicable
Fluoride (PWS)	N/A	N/A	PWS Not Applicable
Total Arsenic	N/A	N/A	Discharge Conc < TQL
Total Barium	9,728	µg/L	Discharge Conc ≤ 10% WQBEL
Total Beryllium	N/A	N/A	No WQS
Total Boron	6,486	µg/L	Discharge Conc ≤ 10% WQBEL
Total Chromium (III)	1,088	µg/L	Discharge Conc ≤ 10% WQBEL
Free Cyanide	16.2	µg/L	Discharge Conc < TQL
Total Cyanide	N/A	N/A	No WQS
Total Iron	6,313	µg/L	Discharge Conc ≤ 10% WQBEL
Total Lead	75.4	µg/L	Discharge Conc < TQL
Total Manganese	4,054	µg/L	Discharge Conc ≤ 10% WQBEL
Total Nickel	684	µg/L	Discharge Conc ≤ 10% WQBEL
Total Phenols (Phenolics) (PWS)		µg/L	PWS Not Applicable
Total Selenium	20.2	µg/L	Discharge Conc < TQL
Total Silver	163	µg/L	Discharge Conc ≤ 10% WQBEL
Total Thallium	0.97	µg/L	Discharge Conc < TQL
Total Molybdenum	N/A	N/A	No WQS
Acrolein	3.0	µg/L	Discharge Conc < TQL
Acrylonitrile	0.98	µg/L	Discharge Conc < TQL

Benzene	9.45	µg/L	Discharge Conc < TQL
Bromoform	114	µg/L	Discharge Conc < TQL
Carbon Tetrachloride	6.52	µg/L	Discharge Conc < TQL
Chlorobenzene	405	µg/L	Discharge Conc ≤ 25% WQBEL
Chlorodibromomethane	13.0	µg/L	Discharge Conc < TQL
Chloroethane	N/A	N/A	No WQS
2-Chloroethyl Vinyl Ether	14,187	µg/L	Discharge Conc < TQL
Chloroform	23.1	µg/L	Discharge Conc < TQL
Dichlorobromomethane	15.5	µg/L	Discharge Conc < TQL
1,1-Dichloroethane	N/A	N/A	No WQS
1,2-Dichloroethane	161	µg/L	Discharge Conc < TQL
1,1-Dichloroethylene	134	µg/L	Discharge Conc < TQL
1,2-Dichloropropane	14.7	µg/L	Discharge Conc < TQL
1,3-Dichloropropylene	4.4	µg/L	Discharge Conc < TQL
1,4-Dioxane	N/A	N/A	No WQS
Ethylbenzene	276	µg/L	Discharge Conc < TQL
Methyl Bromide	405	µg/L	Discharge Conc < TQL
Methyl Chloride	22,294	µg/L	Discharge Conc < TQL
Methylene Chloride	326	µg/L	Discharge Conc < TQL
1,1,2,2-Tetrachloroethane	3.26	µg/L	Discharge Conc < TQL
Tetrachloroethylene	163	µg/L	Discharge Conc < TQL
Toluene	231	µg/L	Discharge Conc < TQL
1,2-trans-Dichloroethylene	405	µg/L	Discharge Conc < TQL
1,1,1-Trichloroethane	2,473	µg/L	Discharge Conc < TQL
1,1,2-Trichloroethane	8.96	µg/L	Discharge Conc < TQL
Trichloroethylene	9.77	µg/L	Discharge Conc < TQL
Vinyl Chloride	0.33	µg/L	Discharge Conc < TQL
2-Chlorophenol	122	µg/L	Discharge Conc < TQL
2,4-Dichlorophenol	40.5	µg/L	Discharge Conc < TQL
2,4-Dimethylphenol	405	µg/L	Discharge Conc < TQL
4,6-Dinitro-o-Cresol	8.11	µg/L	Discharge Conc < TQL
2,4-Dinitrophenol	40.5	µg/L	Discharge Conc < TQL
2-Nitrophenol	6,486	µg/L	Discharge Conc < TQL
4-Nitrophenol	1,905	µg/L	Discharge Conc < TQL
p-Chloro-m-Cresol	160	µg/L	Discharge Conc < TQL
Pentachlorophenol	0.49	µg/L	Discharge Conc < TQL
Phenol	16,214	µg/L	Discharge Conc < TQL
2,4,6-Trichlorophenol	24.4	µg/L	Discharge Conc < TQL
Acenaphthene	68.9	µg/L	Discharge Conc < TQL
Acenaphthylene	N/A	N/A	No WQS
Anthracene	1,216	µg/L	Discharge Conc < TQL
Benzidine	0.002	µg/L	Discharge Conc < TQL
Benzo(a)Anthracene	0.016	µg/L	Discharge Conc < TQL
Benzo(a)Pyrene	0.002	µg/L	Discharge Conc < TQL
3,4-Benzofluoranthene	0.016	µg/L	Discharge Conc < TQL

Benzo(ghi)Perylene	N/A	N/A	No WQS
Benzo(k)Fluoranthene	0.16	µg/L	Discharge Conc < TQL
Bis(2-Chloroethoxy)Methane	N/A	N/A	No WQS
Bis(2-Chloroethyl)Ether	0.49	µg/L	Discharge Conc < TQL
Bis(2-Chloroisopropyl)Ether	811	µg/L	Discharge Conc < TQL
Bis(2-Ethylhexyl)Phthalate	5.21	µg/L	Discharge Conc < TQL
4-Bromophenyl Phenyl Ether	219	µg/L	Discharge Conc < TQL
Butyl Benzyl Phthalate	0.41	µg/L	Discharge Conc < TQL
2-Chloronaphthalene	3,243	µg/L	Discharge Conc < TQL
4-Chlorophenyl Phenyl Ether	N/A	N/A	No WQS
Chrysene	1.95	µg/L	Discharge Conc < TQL
Dibenzo(a,h)Anthrancene	0.002	µg/L	Discharge Conc < TQL
1,2-Dichlorobenzene	649	µg/L	Discharge Conc < TQL
1,3-Dichlorobenzene	28.4	µg/L	Discharge Conc < TQL
1,4-Dichlorobenzene	608	µg/L	Discharge Conc < TQL
3,3-Dichlorobenzidine	0.81	µg/L	Discharge Conc < TQL
Diethyl Phthalate	2,432	µg/L	Discharge Conc < TQL
Dimethyl Phthalate	2,027	µg/L	Discharge Conc < TQL
Di-n-Butyl Phthalate	81.1	µg/L	Discharge Conc < TQL
2,4-Dinitrotoluene	0.81	µg/L	Discharge Conc < TQL
2,6-Dinitrotoluene	0.81	µg/L	Discharge Conc < TQL
Di-n-Octyl Phthalate	N/A	N/A	No WQS
1,2-Diphenylhydrazine	0.49	µg/L	Discharge Conc < TQL
Fluoranthene	81.1	µg/L	Discharge Conc < TQL
Fluorene	203	µg/L	Discharge Conc < TQL
Hexachlorobenzene	0.001	µg/L	Discharge Conc < TQL
Hexachlorobutadiene	0.16	µg/L	Discharge Conc < TQL
Hexachlorocyclopentadiene	4.05	µg/L	Discharge Conc < TQL
Hexachloroethane	1.63	µg/L	Discharge Conc < TQL
Indeno(1,2,3-cd)Pyrene	0.016	µg/L	Discharge Conc < TQL
Isophorone	138	µg/L	Discharge Conc < TQL
Naphthalene	140	µg/L	Discharge Conc < TQL
Nitrobenzene	40.5	µg/L	Discharge Conc < TQL
n-Nitrosodimethylamine	0.011	µg/L	Discharge Conc < TQL
n-Nitrosodi-n-Propylamine	0.081	µg/L	Discharge Conc < TQL
n-Nitrosodiphenylamine	53.8	µg/L	Discharge Conc < TQL
Phenanthrene	4.05	µg/L	Discharge Conc < TQL
Pyrene	81.1	µg/L	Discharge Conc < TQL
1,2,4-Trichlorobenzene	0.28	µg/L	Discharge Conc < TQL

Attachment 4

C180881.17

February 2026

ANAYLSIS RESULTS TABLE
POLLUTANT GROUP 1

APPLICANT NAME	Homer City Generation LP

■ **Outfall / IMP Number 027** (Show location of sampling point on Line Drawing)
□ Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing)
□ Intake Sampling Results (Specify Source: _____)
□ Background (Upstream) Sampling Results (Specify Location: _____)
■ **New Discharge (Basis for Information: Design Engineer Projection)**

POLLUTANT GROUP 1 PARAMETERS	CONCENTRATION / MASS PRESENT						No. Analyses	No. "Non-Detect" Results	QL Used	Method Used
	Min/Max Daily Value		Max Avg Monthly Value		Long-Term Avg Value					
	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)				
BOD_5 (mg/L)	3.4	194	N/A	N/A	1.8	76	N/A	N/A	N/A	N/A
COD (mg/L)	15.3	873	N/A	N/A	8.5	359	N/A	N/A	N/A	N/A
TOC (mg/L)	1.1	63	N/A	N/A	0.6	25	N/A	N/A	N/A	N/A
TSS (mg/L)	10.7	610	N/A	N/A	10.7	452	N/A	N/A	N/A	N/A
Ammonia-Nitrogen (mg/L)	<0.2	<11	N/A	N/A	<0.2	<8	N/A	N/A	N/A	N/A
Temperature (Winter) (°F)	85	XXX	N/A	XXX	75	XXX	N/A	XXX	XXX	N/A
Temperature (Summer) (°F)	85	XXX	N/A	XXX	75	XXX	N/A	XXX	XXX	N/A
pH – Minimum (S.U.)	8	XXX	XXX	XXX	8	XXX	N/A	XXX	XXX	N/A
pH – Maximum (S.U.)	8	XXX	XXX	XXX	8	XXX	N/A	XXX	XXX	N/A
Fecal Coliform (No./100 mL)	<1	XXX	N/A	XXX	<1	XXX	N/A	N/A	XXX	N/A
Oil and Grease (mg/L)	<5.2	<297	N/A	N/A	<5.2	<220	N/A	N/A	N/A	N/A
TRC (mg/L)	<0.02	XXX	N/A	XXX	<0.02	XXX	N/A	N/A	N/A	N/A
Total Phosphorus (mg/L)	4.6	262	N/A	N/A	0.5	21	N/A	N/A	N/A	N/A
TKN (mg/L)	4.6	262	N/A	N/A	3.3	140	N/A	N/A	N/A	N/A
Nitrite + Nitrate-Nitrogen (mg/L)	4.5	257	N/A	N/A	3.2	135	N/A	N/A	N/A	N/A
Total Dissolved Solids (mg/L)	2,800	159,728	N/A	N/A	1,257	53,151	N/A	N/A	N/A	N/A
Color (Pt-Co Units)	<30	XXX	N/A	XXX	<30	XXX	N/A	N/A	N/A	N/A
Bromide (mg/L)	<0.2	<11	N/A	N/A	<0.2	<8	N/A	N/A	N/A	N/A
Chloride (mg/L)	540.9	30,856	N/A	N/A	267	11,290	N/A	N/A	N/A	N/A
Sulfate (mg/L)	1,190	67,884	N/A	N/A	443.7	18,761	N/A	N/A	N/A	N/A
Sulfide (mg/L)	<1.0	<57	N/A	N/A	<1.0	<42	N/A	N/A	N/A	N/A
Surfactants (mg/L)	<0.2	<11	N/A	N/A	<0.2	<8	N/A	N/A	N/A	N/A
Fluoride (mg/L)	<2.5	<143	N/A	N/A	<2.5	<106	N/A	N/A	N/A	N/A
Total Hardness (mg/L)	1,228.8	70,098	N/A	N/A	656.9	27,776	N/A	N/A	N/A	N/A

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ANAYLSIS RESULTS TABLE
POLLUTANT GROUP 1

APPLICANT NAME	Homer City Generation LP

■ **Outfall / IMP Number 027** (Show location of sampling point on Line Drawing)
☐ Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing)
☐ Intake Sampling Results (Specify Source: _____)
☐ Background (Upstream) Sampling Results (Specify Location: _____)
■ **New Discharge (Basis for Information: Design Engineer Projection)**

POLLUTANT GROUP 1 PARAMETERS	CONCENTRATION / MASS PRESENT						No. Analyses	No. "Non-Detect" Results	QL Used	Method Used
	Min/Max Daily Value		Max Avg Monthly Value		Long-Term Avg Value					
	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)				
Perfluorooctanoic acid (PFOA) (ng/L)	9.2	0.0005	N/A	N/A	8.1	0.0003	N/A	N/A	N/A	N/A
Perfluorooctanesulfonic acid (PFOS) (ng/L)	9.7	0.0006	N/A	N/A	6.9	0.0003	N/A	N/A	N/A	N/A
Perfluorobutanesulfonic acid (PFBS) (ng/L)	7.1	0.0004	N/A	N/A	5.9	0.0002	N/A	N/A	N/A	N/A
Hexafluoropropylene oxide dimer acid (HFPO-DA) (ng/L)	3.6	0.0002	N/A	N/A	3	0.0001	N/A	N/A	N/A	N/A

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ANAYLSIS RESULTS TABLE
POLLUTANT GROUP 2

APPLICANT NAME	Homer City Generation LP

■ **Outfall / IMP Number 027** (Show location of sampling point on Line Drawing)
☐ Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing)
☐ Intake Sampling Results (Specify Source: _____)
☐ Background (Upstream) Sampling Results (Specify Location: _____)
■ **New Discharge (Basis for Information: Design Engineer Projection)**

POLLUTANT GROUP 2 PARAMETERS	CONCENTRATION / MASS PRESENT						No. Analyses	No. "Non-Detect" Results	QL Used	Method Used
	Min/Max Daily Value		Max Avg Monthly Value		Long-Term Avg Value					
	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)				
Aluminum, Total (µg/L)	508.8	29	N/A	N/A	508.8	22	N/A	N/A	N/A	N/A
Antimony, Total (µg/L)	45.8	3	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Arsenic, Total (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Barium, Total (µg/L)	508.8	29	N/A	N/A	231	10	N/A	N/A	N/A	N/A
Beryllium, Total (µg/L)	15.3	0.9	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Boron, Total (µg/L)	305.3	17	N/A	N/A	115	5	N/A	N/A	N/A	N/A
Cadmium, Total (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Chromium, Total (µg/L)	15.3	0.9	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Chromium, Hexavalent (µg/L)	<15.3	<0.9	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Cobalt, Total (µg/L)	25.4	1	N/A	N/A	10.8	0.5	N/A	N/A	N/A	N/A
Copper, Total (µg/L)	101.8	6	N/A	N/A	6.8	0.3	N/A	N/A	N/A	N/A
Cyanide, Free (µg/L)	< 1.0	<0.06	N/A	N/A	< 1.0	<0.04	N/A	N/A	N/A	N/A
Cyanide, Total (µg/L)	< 10.0	<0.6	N/A	N/A	< 10.0	<0.4	N/A	N/A	N/A	N/A
Iron, Total (µg/L)	254.4	15	N/A	N/A	254.4	11	N/A	N/A	N/A	N/A
Iron, Dissolved (µg/L)	<195	<11	N/A	N/A	<195	<8	N/A	N/A	N/A	N/A
Lead, Total (µg/L)	<1.0	<0.06	N/A	N/A	<1.0	<0.04	N/A	N/A	N/A	N/A
Manganese, Total (µg/L)	254.4	15	N/A	N/A	254.4	11	N/A	N/A	N/A	N/A
Mercury, Total (µg/L)	0.029	0.002	N/A	N/A	0.011	0.0005	N/A	N/A	N/A	N/A
Molybdenum, Total (µg/L)	20.4	1	N/A	N/A	<3.5	<0.1	N/A	N/A	N/A	N/A
Nickel, Total (µg/L)	50.9	3	N/A	N/A	26.3	1	N/A	N/A	N/A	N/A
Phenols, Total (µg/L)	<25.0	<1	N/A	N/A	<25.0	<1	N/A	N/A	N/A	N/A
Selenium, Total (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Silver, Total (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Thallium, Total (µg/L)	<1.0	<0.06	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Zinc, Total (µg/L)	457.9	26	N/A	N/A	64.3	3	N/A	N/A	N/A	N/A

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ANAYLSIS RESULTS TABLE
POLLUTANT GROUP 3

APPLICANT NAME	Homer City Generation LP

■ **Outfall / IMP Number 027** (Show location of sampling point on Line Drawing)

☐ Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing)

☐ Intake Sampling Results (Specify Source: _____)

☐ Background (Upstream) Sampling Results (Specify Location: _____)

■ **New Discharge (Basis for Information: Design Engineer Projection)**

POLLUTANT GROUP 3 PARAMETERS	CONCENTRATION / MASS PRESENT						No. Analyses	No. "Non-Detect" Results	QL Used	Method Used
	Min/Max Daily Value		Max Avg Monthly Value		Long-Term Avg Value					
	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)				
Acrolein (µg/L)	<2.0	<0.1	N/A	N/A	<2.0	<0.08	N/A	N/A	N/A	N/A
Acrylonitrile (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Benzene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Bromoform (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Carbon Tetrachloride (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Chlorobenzene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Chlorodibromomethane (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Chloroethane (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
2-Chloroethylvinyl Ether (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Chloroform (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Dichlorobromomethane (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
1,1-Dichloroethane (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
1,2-Dichloroethane (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
1,1-Dichloroethylene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
1,2 Dichloropropane (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
1,3-Dichloropropylene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
1,4-Dioxane (µg/L)	<10.0	<0.6	N/A	N/A	<10.0	<0.4	N/A	N/A	N/A	N/A
Ethylbenzene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Methyl Bromide (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Methyl Chloride (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Methylene Chloride (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Tetrachloroethylene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Toluene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
1,2-Trans-Dichloroethylene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A

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ANAYLSIS RESULTS TABLE
POLLUTANT GROUP 3

APPLICANT NAME	Homer City Generation LP

■ **Outfall / IMP Number 027** (Show location of sampling point on Line Drawing)

☐ Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing)

☐ Intake Sampling Results (Specify Source: _____)

☐ Background (Upstream) Sampling Results (Specify Location: _____)

■ **New Discharge (Basis for Information: Design Engineer Projection)**

POLLUTANT GROUP 3 PARAMETERS	CONCENTRATION / MASS PRESENT						No. Analyses	No. "Non-Detect" Results	QL Used	Method Used
	Min/Max Daily Value		Max Avg Monthly Value		Long-Term Avg Value					
	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)				
1,1,1-Trichloroethane (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Trichloroethylene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Vinyl Chloride (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A

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ANAYLSIS RESULTS TABLE
POLLUTANT GROUP 4

APPLICANT NAME	Homer City Generation LP

■ **Outfall / IMP Number 027** (Show location of sampling point on Line Drawing)
☐ Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing)
☐ Intake Sampling Results (Specify Source: _____)
☐ Background (Upstream) Sampling Results (Specify Location: _____)
■ **New Discharge (Basis for Information: Design Engineer Projection)**

POLLUTANT GROUP 4 PARAMETERS	CONCENTRATION / MASS PRESENT						No. Analyses	No. "Non-Detect" Results	QL Used	Method Used
	Min/Max Daily Value		Max Avg Monthly Value		Long-Term Avg Value					
	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)				
2-Chlorophenol (µg/L)	<10	<0.6	N/A	N/A	<10	<0.4	N/A	N/A	N/A	N/A
2,4-Dichlorophenol (µg/L)	<10	<0.6	N/A	N/A	<10	<0.4	N/A	N/A	N/A	N/A
2,4-Dimethylphenol (µg/L)	<10	<0.6	N/A	N/A	<10	<0.4	N/A	N/A	N/A	N/A
4,6-Dinitro-o-Cresol (µg/L)	<10	<0.6	N/A	N/A	<10	<0.4	N/A	N/A	N/A	N/A
2,4-Dinitrophenol (µg/L)	<10	<0.6	N/A	N/A	<10	<0.4	N/A	N/A	N/A	N/A
2-Nitrophenol (µg/L)	<10	<0.6	N/A	N/A	<10	<0.4	N/A	N/A	N/A	N/A
4-Nitrophenol (µg/L)	<10	<0.6	N/A	N/A	<10	<0.4	N/A	N/A	N/A	N/A
P-Chloro-m-Cresol (µg/L)	<10	<0.6	N/A	N/A	<10	<0.4	N/A	N/A	N/A	N/A
Pentachlorophenol (µg/L)	<10	<0.6	N/A	N/A	<10	<0.4	N/A	N/A	N/A	N/A
Phenol (µg/L)	<10	<0.6	N/A	N/A	<10	<0.4	N/A	N/A	N/A	N/A
2,4,6-Trichloro-phenol (µg/L)	<10	<0.6	N/A	N/A	<10	<0.4	N/A	N/A	N/A	N/A

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ANAYLSIS RESULTS TABLE
POLLUTANT GROUP 5

APPLICANT NAME	Homer City Generation LP

■ **Outfall / IMP Number 027** (Show location of sampling point on Line Drawing)
□ Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing)
□ Intake Sampling Results (Specify Source: _____)
□ Background (Upstream) Sampling Results (Specify Location: _____)
■ **New Discharge (Basis for Information: Design Engineer Projection)**

POLLUTANT GROUP 5 PARAMETERS	CONCENTRATION / MASS PRESENT						No. Analyses	No. "Non-Detect" Results	QL Used	Method Used
	Min/Max Daily Value		Max Avg Monthly Value		Long-Term Avg Value					
	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)				
Acenaphthene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Acenaphthylene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Acrylamide (µg/L)	<5000	<285	N/A	N/A	<5000	<211	N/A	N/A	N/A	N/A
Anthracene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Benzidine (µg/L)	<50	<3	N/A	N/A	<50	<2	N/A	N/A	N/A	N/A
Benzo(a)Anthracene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Benzo(a)Pyrene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
3,4-Benzo-fluoranthene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Benzo(ghi)Perylene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Benzo(k)Fluoranthene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Bis(2-Chloroethoxy)Methane (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Bis(2-Chloroethyl)Ether (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Bis(2-Chloroisopropyl)Ether (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Bis(2-Ethylhexyl)Phthalate (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
4-Bromophenyl Phenyl Ether (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Butyl Benzyl Phthalate (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
2-Chloronaphthalene (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
4-Chlorophenyl Phenyl Ether (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Chrysene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Dibenzo(a,h)Anthracene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
1,3- Dichlorobenzene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A

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ANAYLSIS RESULTS TABLE
POLLUTANT GROUP 5

APPLICANT NAME	Homer City Generation LP
■ **Outfall / IMP Number 027** (Show location of sampling point on Line Drawing)	
□ Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing)	
□ Intake Sampling Results (Specify Source: _____)	
□ Background (Upstream) Sampling Results (Specify Location: _____)	
■ **New Discharge (Basis for Information: Design Engineer Projection)**	

POLLUTANT GROUP 5 PARAMETERS	CONCENTRATION / MASS PRESENT						No. Analyses	No. "Non-Detect" Results	QL Used	Method Used
	Min/Max Daily Value		Max Avg Monthly Value		Long-Term Avg Value					
	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)				
1,4- Dichlorobenzene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Diethyl Phthalate (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Dimethyl Phthalate (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Di-n-Butyl Phthalate (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
2,4-Dinitrotoluene (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
2,6-Dinitrotoluene (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Di-n-Octyl Phthalate (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
1,2-Diphenylhydrazine (as Azobenzene) (µg/L)	<10	<0.6	N/A	N/A	<10	<0.4	N/A	N/A	N/A	N/A
Fluoranthene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Fluorene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Hexachlorobenzene (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Hexechlorobutadiene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Hexachlorocyclopentadiene (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Hexachloroethane (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)Pyrene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Isophorone (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
Naphthalene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A
Nitrobenzene (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
N-Nitroso-di-methylamine (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
N-Nitroso-di-n-p-propylamine (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A
N-Nitroso-di-n-phenylamine (µg/L)	<5.0	<0.3	N/A	N/A	<5.0	<0.2	N/A	N/A	N/A	N/A

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ANAYLSIS RESULTS TABLE
POLLUTANT GROUP 5

APPLICANT NAME	Homer City Generation LP
■ **Outfall / IMP Number 027** (Show location of sampling point on Line Drawing)	
□ Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing)	
□ Intake Sampling Results (Specify Source: _____)	
□ Background (Upstream) Sampling Results (Specify Location: _____)	
■ **New Discharge (Basis for Information: Design Engineer Projection)**	

POLLUTANT GROUP 5 PARAMETERS	CONCENTRATION / MASS PRESENT						No. Analyses	No. "Non-Detect" Results	QL Used	Method Used
	Min/Max Daily Value		Max Avg Monthly Value		Long-Term Avg Value					
	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)	Conc	Mass (lbs/day)				
Phenanthrene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
Pyrene (µg/L)	<2.5	<0.1	N/A	N/A	<2.5	<0.1	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene (µg/L)	<0.5	<0.03	N/A	N/A	<0.5	<0.02	N/A	N/A	N/A	N/A

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February 2026

ANAYLSIS RESULTS TABLE
POLLUTANT GROUP 7

APPLICANT NAME	Homer City Generation LP									
■ **Outfall / IMP Number 027** (Show location of sampling point on Line Drawing)										
☐ Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing)										
☐ Intake Sampling Results (Specify Source: _____)										
☐ Background (Upstream) Sampling Results (Specify Location: _____)										
■ **New Discharge (Basis for Information: Design Engineer Projection)**										
POLLUTANT GROUP 7 PARAMETERS Additional Parameters	**CONCENTRATION / MASS PRESENT**						**No. Analyses**	**No. "Non-Detect" Results**	**QL Used**	**Method Used**
	Min/Max Daily Value		**Max Avg Monthly Value**		**Long-Term Avg Value**					
	Conc	**Mass (lbs/day)**	**Conc**	**Mass (lbs/day)**	**Conc**	**Mass (lbs/day)**				
Free Available Chlorine (mg/L)	<0.02	<1	N/A	N/A	<0.02	<0.8	N/A	N/A	N/A	N/A