



Application Type Amendment, Major
Facility Type Industrial
Major / Minor Major

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

Application No. PA0005037 A-2
APS ID 1157223
Authorization ID 1560385

Applicant and Facility Information

| | | | |
|---------------------------|---|------------------|---|
| Applicant Name | <u>Homer City Generation, LP</u> | Facility Name | <u>Homer City Generation LP</u> |
| Applicant Address | <u>1750 Power Plant Road</u> <u>Homer City, PA 15748-8009</u> | Facility Address | <u>1750 Power Plant Road</u> <u>Homer City, PA 15748-8009</u> |
| Applicant Contact | <u>Shawn Simmers</u> <u>(ssimmers@homercityredevelopment.com)</u> | Facility Contact | <u>Shawn Simmers</u> <u>(ssimmers@homercityredevelopment.com)</u> |
| Applicant Phone | <u>(724) 479-6109</u> | Facility Phone | <u>(724) 479-6109</u> |
| Client ID | <u>298406</u> | Site ID | <u>236714</u> |
| SIC Code | <u>4911</u> | Municipality | <u>Center Township</u> |
| SIC Description | <u>Trans. & Utilities - Electric Services</u> | County | <u>Indiana</u> |
| Date Application Received | <u>February 26, 2026</u> | EPA Waived? | <u>No</u> |
| Date Application Accepted | <u>February 26, 2026</u> | If No, Reason | <u>Major Facility</u> |
| Purpose of Application | <u>Major Amendment of an existing IW NPDES Permit to modify the wastestreams that flow to Outfall 027.</u> | | |

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

SPECIAL CONDITIONS:

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

There are 4 open violations in efacts (all AQ) associated with the subject Client ID (298406) as of 6/3/2026 (see Attachment 1).

| Approve | Deny | Signatures | Date |
|---------|------|---|----------|
| X | | Stephen A. McCauley Stephen A. McCauley, E.I.T. / Project Manager | 6/3/2026 |
| X | | Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager | 6/8/2026 |
| X | | Justin C. Dickey, P.E. / Program Manager | |

Discharge, Receiving Waters and Water Supply Information

| | | | |
|--|--|------------------------------|---|
| Outfall No. | <u>027</u> | Design Flow (MGD) | <u>6.84</u> |
| Latitude | <u>40° 28' 55.00"</u> | Longitude | <u>-79° 11' 35.00"</u> |
| Quad Name | <u>-</u> | Quad Code | <u>-</u> |
| Wastewater Description: <u>IW Process Effluent with ELG (Cooling Tower Blowdown)</u> | | | |
| Receiving Waters | <u>Blacklick Creek (TSF)</u> | Stream Code | <u>43979</u> |
| NHD Com ID | <u>123715278</u> | RMI | <u>10.72</u> |
| Drainage Area | <u>194</u> | Yield (cfs/mi ²) | <u>0.132</u> |
| Q ₇₋₁₀ Flow (cfs) | <u>34 cfs (23 cfs Blacklick Creek and 11 cfs Two Lick Creek)</u> | Q ₇₋₁₀ Basis | <u>USGS Gage 03042000</u> |
| Elevation (ft) | <u>960</u> | Slope (ft/ft) | <u>0.004</u> |
| Watershed No. | <u>18-D</u> | Chapter 93 Class. | <u>TSF</u> |
| Existing Use | <u>-</u> | Existing Use Qualifier | <u>-</u> |
| Exceptions to Use | <u>-</u> | Exceptions to Criteria | <u>-</u> |
| Assessment Status | <u>Impaired</u> | | |
| Cause(s) of Impairment | <u>Metals</u> | | |
| Source(s) of Impairment | <u>Acid Mine Drainage</u> | | |
| TMDL Status | <u>Final, 01/29/2010</u> | Name | <u>Kiskiminetas-Conemaugh River Watersheds TMDL</u> |
| Background/Ambient Data | | Data Source | |
| pH (SU) | <u>-</u> | | <u>-</u> |
| Temperature (°F) | <u>-</u> | | <u>-</u> |
| Hardness (mg/L) | <u>-</u> | | <u>-</u> |
| Other: | <u>-</u> | | <u>-</u> |
| Nearest Downstream Public Water Supply Intake | <u>Buffalo Township Municipal Authority - Freeport Plant</u> | | |
| PWS Waters | <u>Allegheny River</u> | Flow at Intake (cfs) | <u>2,576</u> |
| PWS RMI | <u>29.4</u> | Distance from Outfall (mi) | <u>55.0</u> |

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.

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. $H^+ + OH^- \rightarrow H_2O$).

Dechlorination will occur prior to discharge from Outfall 027. Sodium Bisulfite (NaHSO₃) will be added to consume any free oxidant ($NaHSO_3 + HOCl + H_2O \rightarrow NaHSO_4 + HCl$). 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):

| 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 | 91.4 |
| 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 | 98.9 |
| Jun 16-30 | 72 | N/A -- Case 2 | 81.6 |
| Jul 1-31 | 76 | N/A -- Case 2 | 81.5 |
| Aug 1-15 | 80 | N/A -- Case 2 | 107.0 |
| 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 | 109.4 |
| Nov 16-30 | 50 | N/A -- Case 2 | 91.1 |
| Dec 1-31 | 42 | N/A -- Case 2 | 80.6 |

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 discharge 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.

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.

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/mi² to 0.175 cfs/mi² 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 Conc. (µg/l) | WQBEL (µg/l) | %WQBEL |
|---------------------|------------------------|--------------|--------|
| Total Aluminum | 508.8 | 750 | ≥50% |
| Total Antimony | 45.8 | 22.7 | ≥50% |
| Total Cadmium | <0.5 | 3.07 | >10% |
| Hexavalent Chromium | <15.3 | 16.3 | ≥50% |
| Total Cobalt | 25.4 | 77.0 | >10% |
| Total Copper | 101.8 | 110 | ≥50% |
| Dissolved Iron | <195 | 1216 | >10% |
| Total Mercury | 0.029 | 0.2 | >10% |
| Total Zinc | 457.9 | 0.77 | ≥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.

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. $H^+ + OH^- \rightarrow H_2O$).

Dechlorination will occur prior to discharge from Outfall 027. Sodium Bisulfite ($NaHSO_3$) will be added to consume any free oxidant ($NaHSO_3 + HOCl + H_2O \rightarrow NaHSO_4 + HCl$). 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 (°F) | 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 |
| Chromium III, Total | 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 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 | 4 Grabs/24 Hours |
| 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.

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 (°F) Jun 1 - 15 | XXX | XXX | XXX | XXX | XXX | 98.9 | 1/week | I-S |
| Temperature (°F) Jan 1 - 31 | XXX | XXX | XXX | XXX | XXX | 91.4 | 1/week | I-S |
| Temperature (°F) Jun 16 - 30 | XXX | XXX | XXX | XXX | XXX | 81.6 | 1/week | I-S |
| Temperature (°F) Aug 1 - 15 | XXX | XXX | XXX | XXX | XXX | 107.0 | 1/week | I-S |
| Temperature (°F) Aug 16 - 31 | XXX | XXX | XXX | XXX | XXX | 110 | 1/week | I-S |
| Temperature (°F) Feb 1 - 28 | XXX | XXX | XXX | XXX | XXX | 96.2 | 1/week | I-S |
| Temperature (°F) Nov 16 - 30 | XXX | XXX | XXX | XXX | XXX | 91.1 | 1/week | I-S |
| Temperature (°F) Nov 1 - 15 | XXX | XXX | XXX | XXX | XXX | 109.4 | 1/week | I-S |
| Temperature (°F) Mar 1 - May 31, Sep 1 - Oct 31 | XXX | XXX | XXX | XXX | XXX | 110 | 1/week | I-S |
| Temperature (°F) Jul 1 - 31 | XXX | XXX | XXX | XXX | XXX | 81.5 | 1/week | I-S |

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 | | |
| Temperature (°F) Dec 1 - 31 | XXX | XXX | XXX | XXX | XXX | 80.6 | 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 | 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 |
| Chromium III, Total (3) | XXX | XXX | XXX | 0.2 | 0.2 | XXX | 1/week | 24-Hr Composite |
| Hexavalent Chromium | XXX | XXX | XXX | 0.016 | 0.032 | 0.048 | 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 | 4 Grabs/24 Hours |

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 | | |
| Total Zinc (ug/L) | XXX | XXX | XXX | 0.77 | 1.44 | 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



**WATER MANAGEMENT SYSTEM
OPEN VIOLATIONS BY CLIENT**

Client ID: 298406

Client: All

Open Violations: 4

| | 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 |

| | 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 |



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)* |
|----------------------------------|
| 35 |
| 35 |
| 40 |
| 47 |
| 53 |
| 58 |
| 62 |
| 67 |
| 71 |
| 75 |
| 74 |
| 74 |
| 71 |
| 65 |
| 60 |
| 54 |
| 48 |
| 42 |
| 37 |



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 | 91.4 |
| 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 | 98.9 |
| Jun 16-30 | 72 | N/A -- Case 2 | 81.6 |
| Jul 1-31 | 76 | N/A -- Case 2 | 81.5 |
| Aug 1-15 | 80 | N/A -- Case 2 | 107.0 |
| 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 | 109.4 |
| Nov 16-30 | 50 | N/A -- Case 2 | 91.1 |
| Dec 1-31 | 42 | N/A -- Case 2 | 80.6 |



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 | | | | | | |

| Discharge Pollutant | Units | Max Discharge Conc | 0 if left blank | | 0.5 if left blank | | 0 if left blank | | | 1 if left blank | |
|---------------------------------|-------|--------------------|-----------------|-------------|-------------------|-----------|-----------------|------------|-----|-----------------|-------------|
| | | | 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 | mg/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 | | | | | | | | | | | | | | | | | | | |
| | 1,1,1,2-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)Anthracene | 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 | | | | | | | | | | | | | | | | | | | | |



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 |

Q₇₋₁₀

| 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 | | | | | | | | | | | | | | |



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)Anthracene | 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): PMF: Analysis Hardness (mg/l): Analysis pH:

| 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 | 0 | N/A | N/A | N/A | |
| Chloride (PWS) | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Sulfate (PWS) | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Fluoride (PWS) | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Aluminum | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Antimony | 0 | 0 | 0 | 0 | 220 | 220 | 892 | |
| Total Arsenic | 0 | 0 | 0 | 0 | 150 | 150 | 608 | Chem Translator of 1 applied |
| Total Barium | 0 | 0 | 0 | 0 | 4,100 | 4,100 | 16,620 | |
| Total Boron | 0 | 0 | 0 | 0 | 1,600 | 1,600 | 6,486 | |
| Total Cadmium | 0 | 0 | 0 | 0 | 0.644 | 0.76 | 3.07 | Chem Translator of 0.851 applied |
| Total Chromium (III) | 0 | 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)Anthracene | 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

OCT (min):

PMF:

Analysis Hardness (mg/l):

Analysis pH:

| 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 | 0 | 500,000 | 500,000 | N/A | |
| Chloride (PWS) | 0 | 0 | 0 | 0 | 250,000 | 250,000 | N/A | |
| Sulfate (PWS) | 0 | 0 | 0 | 0 | 250,000 | 250,000 | N/A | |
| Fluoride (PWS) | 0 | 0 | 0 | 0 | 2,000 | 2,000 | N/A | |
| Total Aluminum | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Antimony | 0 | 0 | 0 | 0 | 5.6 | 5.6 | 22.7 | |
| Total Arsenic | 0 | 0 | 0 | 0 | 10 | 10.0 | 40.5 | |
| Total Barium | 0 | 0 | 0 | 0 | 2,400 | 2,400 | 9,728 | |
| Total Boron | 0 | 0 | 0 | 0 | 3,100 | 3,100 | 12,566 | |
| Total Cadmium | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Chromium (III) | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Hexavalent Chromium | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Cobalt | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Copper | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Free Cyanide | 0 | 0 | 0 | 0 | 4 | 4.0 | 16.2 | |
| Dissolved Iron | 0 | 0 | 0 | 0 | 300 | 300 | 1,216 | |
| Total Iron | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Lead | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Manganese | 0 | 0 | 0 | 0 | 1,000 | 1,000 | 4,054 | |
| Total Mercury | 0 | 0 | 0 | 0 | 0.050 | 0.05 | 0.2 | |
| Total Nickel | 0 | 0 | 0 | 0 | 610 | 610 | 2,473 | |
| Total Phenols (Phenolics) (PWS) | 0 | 0 | 0 | 0 | 5 | 5.0 | N/A | |
| Total Selenium | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Silver | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Thallium | 0 | 0 | 0 | 0 | 0.24 | 0.24 | 0.97 | |
| Total Zinc | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Acrolein | 0 | 0 | 0 | 0 | 3 | 3.0 | 12.2 | |
| Acrylonitrile | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Benzene | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Bromoform | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Carbon Tetrachloride | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Chlorobenzene | 0 | 0 | 0 | 0 | 100 | 100.0 | 405 | |
| Chlorodibromomethane | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| 2-Chloroethyl Vinyl Ether | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Chloroform | 0 | 0 | 0 | 0 | 5.7 | 5.7 | 23.1 | |
| Dichlorobromomethane | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| 1,2-Dichloroethane | 0 | 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)Anthracene | 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: Analysis Hardness (mg/l): Analysis pH:

| 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 | 0 | N/A | N/A | N/A | |
| Chloride (PWS) | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Sulfate (PWS) | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Fluoride (PWS) | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Aluminum | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Antimony | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Arsenic | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Barium | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Boron | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Cadmium | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Chromium (III) | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Hexavalent Chromium | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Cobalt | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Copper | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Free Cyanide | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Dissolved Iron | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Iron | 0 | 0 | 0 | 0 | N/A | N/A | N/A | |
| Total Lead | 0 | 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)Anthracene | 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

| Pollutants | Mass Limits | | Concentration Limits | | | | Governing WQBEL | WQBEL Basis | Comments |
|---------------------|---------------|---------------|----------------------|--------|--------|-------|-----------------|-------------|------------------------------------|
| | AML (lbs/day) | MDL (lbs/day) | AML | MDL | IMAX | Units | | | |
| 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 | 0.77 | 1.1 | 1.1 | mg/L | 0.77 | 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)Anthracene | 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 |

**ANALYSIS RESULTS TABLE
POLLUTANT GROUP 1**

| APPLICANT NAME | | Homer City Generation LP | | | | | | | | | |
|---|------------------------------|--------------------------|-----------------------|----------------|---------------------|----------------|--------------|-----------------------------|---------|-------------|--|
| <input checked="" type="checkbox"/> Outfall / IMP Number 027 (Show location of sampling point on Line Drawing) <input type="checkbox"/> Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing) <input type="checkbox"/> Intake Sampling Results (Specify Source: _____) <input type="checkbox"/> Background (Upstream) Sampling Results (Specify Location: _____) <input checked="" type="checkbox"/> 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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**ANALYSIS RESULTS TABLE
POLLUTANT GROUP 1**

| | | | | | | | | | | |
|---|-------------------------------------|---------------------------|------------------------------|---------------------------|----------------------------|---------------------------|---------------------|-------------------------------------|----------------|--------------------|
| APPLICANT NAME | | Homer City Generation LP | | | | | | | | |
| <input checked="" type="checkbox"/> Outfall / IMP Number 027 (Show location of sampling point on Line Drawing) <input type="checkbox"/> Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing) <input type="checkbox"/> Intake Sampling Results (Specify Source: _____) <input type="checkbox"/> Background (Upstream) Sampling Results (Specify Location: _____) <input checked="" type="checkbox"/> 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 |

**ANALYSIS RESULTS TABLE
POLLUTANT GROUP 2**

| APPLICANT NAME | | Homer City Generation LP | | | | | | | | | |
|---|------------------------------|--------------------------|-----------------------|----------------|---------------------|----------------|--------------|-----------------------------|---------|-------------|--|
| <input checked="" type="checkbox"/> Outfall / IMP Number 027 (Show location of sampling point on Line Drawing) <input type="checkbox"/> Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing) <input type="checkbox"/> Intake Sampling Results (Specify Source: _____) <input type="checkbox"/> Background (Upstream) Sampling Results (Specify Location: _____) <input checked="" type="checkbox"/> 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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**ANALYSIS RESULTS TABLE
POLLUTANT GROUP 3**

| APPLICANT NAME | | Homer City Generation LP | | | | | | | | | |
|---|------------------------------|--------------------------|-----------------------|----------------|---------------------|----------------|--------------|-----------------------------|---------|-------------|--|
| <input checked="" type="checkbox"/> Outfall / IMP Number 027 (Show location of sampling point on Line Drawing) <input type="checkbox"/> Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing) <input type="checkbox"/> Intake Sampling Results (Specify Source: _____) <input type="checkbox"/> Background (Upstream) Sampling Results (Specify Location: _____) <input checked="" type="checkbox"/> 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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**ANALYSIS RESULTS TABLE
POLLUTANT GROUP 3**

| | | | | | | | | | | | | |
|---|-------------------------------------|---------------------------|------------------------------|---------------------------|----------------------------|---------------------------|---------------------|-------------------------------------|----------------|--------------------|-----|--|
| APPLICANT NAME | | Homer City Generation LP | | | | | | | | | | |
| <input checked="" type="checkbox"/> Outfall / IMP Number 027 (Show location of sampling point on Line Drawing) <input type="checkbox"/> Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing) <input type="checkbox"/> Intake Sampling Results (Specify Source: _____) <input type="checkbox"/> Background (Upstream) Sampling Results (Specify Location: _____) <input checked="" type="checkbox"/> 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 | 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 | 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 | 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 | N/A | |

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**ANALYSIS RESULTS TABLE
POLLUTANT GROUP 4**

| | | | | | | | | | | | | |
|---|-------------------------------------|--------------------------|------------------------------|-----------------------|----------------------------|-----------------------|---------------------|-------------------------------------|----------------|--------------------|-----|--|
| APPLICANT NAME | | Homer City Generation LP | | | | | | | | | | |
| <input checked="" type="checkbox"/> Outfall / IMP Number 027 (Show location of sampling point on Line Drawing) <input type="checkbox"/> Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing) <input type="checkbox"/> Intake Sampling Results (Specify Source: _____) <input type="checkbox"/> Background (Upstream) Sampling Results (Specify Location: _____) <input checked="" type="checkbox"/> 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 | 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 | 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 | 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 | 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 | N/A | |
| 2-Nitrophenol (µg/L) | <10 | <0.6 | N/A | N/A | <10 | <0.4 | N/A | 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 | 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 | N/A | |
| Pentachlorophenol (µg/L) | <10 | <0.6 | N/A | N/A | <10 | <0.4 | N/A | 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 | 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 | N/A | |

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**ANALYSIS RESULTS TABLE
POLLUTANT GROUP 5**

| APPLICANT NAME | | Homer City Generation LP | | | | | | | | | |
|---|------------------------------|--------------------------|-----------------------|----------------|---------------------|----------------|--------------|--------------------------|---------|-------------|--|
| <input checked="" type="checkbox"/> Outfall / IMP Number 027 (Show location of sampling point on Line Drawing) <input type="checkbox"/> Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing) <input type="checkbox"/> Intake Sampling Results (Specify Source: _____) <input type="checkbox"/> Background (Upstream) Sampling Results (Specify Location: _____) <input checked="" type="checkbox"/> 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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**ANALYSIS RESULTS TABLE
POLLUTANT GROUP 5**

| APPLICANT NAME | | Homer City Generation LP | | | | | | | | | |
|---|------------------------------|--------------------------|-----------------------|----------------|---------------------|----------------|--------------|--------------------------|---------|-------------|--|
| <input checked="" type="checkbox"/> Outfall / IMP Number 027 (Show location of sampling point on Line Drawing) <input type="checkbox"/> Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing) <input type="checkbox"/> Intake Sampling Results (Specify Source: _____) <input type="checkbox"/> Background (Upstream) Sampling Results (Specify Location: _____) <input checked="" type="checkbox"/> 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 | |
| Hexachlorobutadiene (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-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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**ANALYSIS RESULTS TABLE
POLLUTANT GROUP 5**

| | | | | | | | | | | |
|---|-------------------------------------|--------------------------|------------------------------|-----------------------|----------------------------|-----------------------|---------------------|---------------------------------|----------------|--------------------|
| APPLICANT NAME | | Homer City Generation LP | | | | | | | | |
| <input checked="" type="checkbox"/> Outfall / IMP Number 027 (Show location of sampling point on Line Drawing) <input type="checkbox"/> Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing) <input type="checkbox"/> Intake Sampling Results (Specify Source: _____) <input type="checkbox"/> Background (Upstream) Sampling Results (Specify Location: _____) <input checked="" type="checkbox"/> 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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**ANALYSIS RESULTS TABLE
POLLUTANT GROUP 7**

| | | | | | | | | | | | | |
|---|-------------------------------------|--------------------------|------------------------------|-----------------------|----------------------------|-----------------------|---------------------|---------------------------------|----------------|--------------------|--|--|
| APPLICANT NAME | | Homer City Generation LP | | | | | | | | | | |
| <input checked="" type="checkbox"/> Outfall / IMP Number 027 (Show location of sampling point on Line Drawing) <input type="checkbox"/> Treatment Facility Influent Sampling Results (Show location of sampling point on Line Drawing) <input type="checkbox"/> Intake Sampling Results (Specify Source: _____) <input type="checkbox"/> Background (Upstream) Sampling Results (Specify Location: _____) | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> 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 | | |