

PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

November 12, 2020

Susan Poulsom, P.E., Manager NPDES Permits Unit United States Environmental Protection Agency - Region 10 1200 Sixth Avenue, Suite 155, OWW Seattle, WA 98101

RE: First Amendment to Clean Water Act Section 401 Final Certification Order No. 16892 for EPA National Pollutant Discharge Elimination System Permit No. WA0023256 – Suquamish Wastewater Treatment Plant

Dear Susan Poulsom:

Enclosed is an amendment to Water Quality Certification Order No. 16892, issued on December 16, 2019 for the Suquamish Wastewater Treatment Plant. We have also included a strikeout version of the Water Quality Certification that reflects the change made. All other conditions of Water Quality Certification Order No. 16892 remain in effect.

Ecology modified sample types to reflect grab sampling in the monitoring requirements table. Also, reporting and planning requirements were revised to provide additional clarity on the scope of the submittals. Submittal due dates for the formal engineering report were also modified.

If you have any questions or would like to discuss these matters further, please contact Eleanor Ott, P.E. at <u>eleanor.ott@ecy.wa.gov</u> or (360) 407-6433.

Sincerely,

Vincent McGowan, P.E.

Department of Ecology

Water Quality Program Manager

Enclosure

Sent by email and Certified Mail: 9489 0090 0027 6066 2467 23

cc: Kai Shum, Permit Writer, Region 10 EPA

Loree' Randall, Department of Ecology, SEA Program

Laura Zippel, Kitsap County

Lisa J. Nickel, Kitsap County

Stella Vakarcs, Kitsap County, Senior Program Manager

ecyrefedpermits@ecy.wa.gov

IN THE MATTER OF GRANTING A WATER QUALITY CERTIFICATION TO Discrete to the second seco

TO: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 10

ATTN: Susan Poulsom

1200 Sixth Ave, Suite 155, OWW

Seattle, WA 98101

On December 16, 2019, the Washington Department of Ecology (Ecology) issued a 401 Water Quality Certification to U.S. Environmental Protection Agency (EPA) for the above-referenced permit pursuant to the provisions of 33 U.S.C. 1341 (FWPCA § 401).

Ecology modified sample types to reflect grab sampling in the monitoring requirements table. Also, reporting and planning requirements were revised to provide additional clarity on the scope of the submittals. Submittal due dates for the formal engineering report were also modified.

Order No. 16892 dated December 16, 2019 is hereby amended as follows:

B. Water Quality

- 1. This Certification does not authorize exceedances of water quality standards established in WAC 173-201A. (WAC 173-201A-510(1), 173-240-080)
- 2. This Certification authorizes a mixing zone per WAC 173-201A-400.
- 3. Nutrient Control and Reduction: (RCW 90.48.080, 90.54.020(3)(b))

Nutrients discharged from wastewater treatment plants contribute to low dissolved oxygen (D.O.) levels, below state water quality criteria, in Puget Sound. Nitrogen is the limiting nutrient in Puget Sound waters, and total inorganic nitrogen (TIN) is the form of nitrogen more available for algal growth that drives eutrophication and the dissolved oxygen impairment. All wastewater discharges to Puget Sound containing inorganic nitrogen contribute to the D.O. impairment.

The Permittee's discharge contains inorganic nitrogen, and the NPDES permit must require the Permittee to control nutrients consistent with the Clean Water Act and Washington's Water Pollution Control Act. Water quality based effluent limits (WQBELs) are required for wastewater treatment plants discharging to surface waters when the discharge has reasonable potential to cause or contribute to an in-stream excursion above a narrative or numeric State water quality criteria (40 CFR 122.44(d)(1)(iii)).

Washington State does not have numeric criteria for nitrogen from which to derive a WQBEL, and Ecology uses D.O. as a surrogate which requires modeling to demonstrate water quality impacts from a discharge.

The nitrogen in the Permittee's discharge has reasonable potential to contribute to far-field water quality impacts. For this permit, implementing a discharge-specific numeric WQBEL for nitrogen is infeasible. This is due to the additional modeling scenarios necessary to quantify both the Permittee's far-field water quality effect and the corresponding effluent limit necessary to prevent an exceedance of the D.O. standard.

40 CFR 122.44(k) states that best management practices (BMPs) to control or abate the discharge of pollutants are acceptable when numeric effluent limitations are infeasible. Ecology believes that a combination of a nutrient load cap based on current nutrient discharge levels and treatment efficiency optimization constitutes a suite of BMPs that complies with 40 CFR 122.44(k). EPA must revaluate this limit in consultation with Ecology during development of the next permit iteration.

EPA provided Ecology with effluent data collected from 2016 to 2019. Ecology calculated an annual TIN load cap of 14,691 lbs, which must be included as a Permit condition. Compliance with the annual TIN cap is assessed at the end of each 12-month period following the effective date of the permit.

Optimization of treatment performance is an adaptive management strategy the Permittee can use to reduce the discharge of TIN to [sic] as much as possible during the permit term and stay below the annual average load cap. Ecology expects these facility specific operational efforts to be initiated following permit issuance. See section 5.b of this certification for planning requirements related to optimization. Any permanent process changes resulting from optimization must be reflected in an update to the standard operating procedures in the Permittee's Operation and Maintenance manual. The Permittee must alert EPA of any updates made in their plan.

4. Monitoring Requirements: (WAC 173-220-210)

In accordance with the Quality Assurance Plan (QAP) required under the Permit, Permittee must monitor monthly and cumulative TIN loads and submit the results with the monitoring reports required under the Permit. The Permittee must report the monthly load and the cumulative load during the annual reporting period as described in Section B.3 of this certification. Results must be submitted in the discharge monitoring report. The Permit must contain the following effluent monitoring frequencies for purposes of tracking compliance with the annual TIN cap.

Parameter	Units &	Minimum	Sample Type
	Specifications	Sampling	
		Frequency	

Final wastewater effluent

Final Wastewater Effluent means wastewater exiting the last treatment process or operation. Typically, this is after or at the exit from the chlorine contact chamber or other disinfection process.

The total ammonia and nitrate plus nitrite samples must be taken on the same calendar day.

Flow, monthly average	MGD	Monthly	metered/recorded
Total Ammonia	mg/L as N	Monthly	24-Hour
			Composite
Nitrate plus Nitrite Nitrogen	mg/L as N	Monthly	24-Hour
			Composite
Total Inorganic Nitrogen ¹	mg/L as N	Monthly	Calculated
Total Inorganic Nitrogen	Lbs/day	Monthly	Calculated
Load ²			
Average Monthly Total	Lbs	Monthly	Calculated
Inorganic Nitrogen ³			
Annual Total Inorganic	Lbs	Monthly	Calculated
Nitrogen, year to date ⁴			

¹Calculate the total inorganic nitrogen concentration (mg/L as N) using the following

TIN concentration (mg/L as N)

= Total Ammonia (mg/L as N) + Nitrate plus Nitrite (mg/L as N)

If the Permittee conducts additional total ammonia and/or nitrate plus nitrite sampling during the month, the average of the concentration results must be used in the above equation.

Monthly average TIN load (lbs as N)

= TIN load (lbs/day as N) x number of days in the calendar month

Annual TIN load (lbs as N) = \sum Monthly average TIN loads, to date

² Calculate the total inorganic nitrogen load (lbs/day as N) using the following equation: TIN load (lbs/day as N)

⁼ TIN concentration (mg/L as N) x average monthly flow (mgd) x 8.34

³ Calculate the monthly average total inorganic nitrogen load (lbs as N) using the following equation:

⁴ For each discrete 12-month period, calculate the cumulative annual total inorganic nitrogen, year to date using the following calculation:

- 5. Planning Requirements: (WAC 173-201A-510(4)(b)(ii), 173-240-060, 173-240-080)
 - a. The Permittee must submit a TIN Compliance Plan identifying standard procedures and potential operational adjustments to maintaining [sic] compliance with the TIN cap. The Plan shall be submitted no later than one year following the permit effective date as an addendum to the required Operations and Maintenance Plan described in the Permit.
 - b. The Permittee must submit a TIN Optimization Plan identifying operational improvements of existing treatment processes to potentially reduce total inorganic nitrogen loads. The Plan should identify process improvements through operational adjustments designed to enhance nitrification and denitrification, such as side-stream management opportunities or incorporation of anoxic zones. The Plan should also describe previously made process improvements and a list of future potential improvements requiring further study or capital investment. When possible, the Plan should provide estimates in nutrient load reductions resulting from process improvements using plant specific monitoring data collected between each annual update. The Permittee must submit a status report identifying the Permittee's work to date on the Plan no later than two-years following the permit effective date. The Plan shall be submitted no later than three-years following the permit effective date. The Permittee must update the plan annually to evaluate the effectiveness of adopted strategies.
 - c. With the next permit application, or eighteen (18) months following any exceedance of the annual TIN load cap, whichever comes first, the Permittee must submit a Facility Feasibility Study, for evaluating different levels of TIN reduction through facility modifications. The Feasibility Study should evaluate actual operating conditions obtained from the TIN Optimization and Compliance Plan and develop potential facility upgrades with associated planning level and operating costs to reduce TIN discharges. The Feasibility Study should also incorporate treatment process improvements, including consideration of reclaimed water use and incremental approaches to phased nitrogen reduction. Ancillary benefits for each potential treatment modification should be part of this evaluation.
 - d. If Ecology develops a facility-specific numeric WQBEL for TIN during the permit term for the Suquamish Wastewater Treatment Plant, Ecology will provide formal written notice to the Permittee. If the Permittee does not meet the facility-specific numeric WQBEL, the Permittee must develop a formal engineering report with selection of a preferred design alternative. This engineering report must be submitted as follows:
 - i. If the Facility Feasibility Study, as described in 5.c of this certification, has been submitted, then within 24 months after formal written notice by Ecology. In the event that Permittee is unable to secure an outside engineering firm to complete the engineering report that meets Permittee's required qualification as listed in its Request for

Oualifications (RFO), Permittee is entitled to extend the 24 month deadline by a further 12 months following notice to Ecology at least 90 days prior to the expiration of the deadline.

ii. If the Facility Feasibility Study has not been submitted, then within 36 months after formal written notice by Ecology.

No other conditions or requirements of the above referenced Order are affected by this amendment.

Ecology retains continuing jurisdiction to make modifications hereto through supplemental order, if it appears necessary to further protect the public interest.

Failure to comply with this amended Order may result in the issuance of civil penalties or other actions whether administrative or judicial, to enforce the terms of this amended Order.

YOUR RIGHT TO APPEAL

You have a right to appeal this Order to the Pollution Control Hearing Board (PCHB) within 30 days of the date of receipt of this Order. The appeal process is governed by Chapter 43.21B RCW and Chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2).

To appeal you must do all of the following within 30 days of the date of receipt of this Order:

- File your appeal and a copy of this Order with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.
- Serve a copy of your appeal and this Order on Ecology in paper form by mail or in person. (See addresses below.) E-mail is not accepted.

You must also comply with other applicable requirements in Chapter 43.21B RCW and Chapter 371-08 WAC.

ADDRESS AND LOCATION INFORMATION

Street Addresses	Mailing Addresses
Department of Ecology	Department of Ecology
Attn: Appeals Processing Desk	Attn: Appeals Processing Desk
300 Desmond Drive SE	PO Box 47608
Lacey, WA 98503	Olympia, WA 98504-7608
Pollution Control Hearings Board	Pollution Control Hearings Board
1111 Israel Road SW	PO Box 40903
STE 301	Olympia, WA 98504-0903
Tumwater, WA 98501	

CONTACT INFORMATION

Please direct all questions about this Order to:

Eleanor Ott, P.E. Department of Ecology P.O. Box 47600 Olympia, WA 98503-7600

Phone: 360-407-6433

Email: eleanor.ott@ecy.wa.gov

MORE INFORMATION

- Pollution Control Hearings Board Website
- Chapter 43.21B RCW Environmental and Land Use Hearings Office Pollution Control Hearings Board

http://apps.leg.wa.gov/RCW/default.aspx?cite=43.21B

- Chapter 371-08 WAC Practice And Procedure http://apps.leg.wa.gov/WAC/default.aspx?cite=371-08
- Chapter 34.05 RCW Administrative Procedure Act http://apps.leg.wa.gov/RCW/default.aspx?cite=34.05
- Chapter 90.48 RCW Water Pollution Control http://apps.leg.wa.gov/RCW/default.aspx?cite=90.48
- Chapter 173.204 Washington Administrative Code (WAC) Sediment Management Standards

https://apps.leg.wa.gov/wac/default.aspx?cite=173-204

• Chapter 173-200 WAC Water Quality Standards for Ground Waters of the State of Washington

https://apps.leg.wa.gov/wac/default.aspx?cite=173-200

• Chapter 173-201A WAC Water Quality Standards for Surface Waters of the State of Washington

https://apps.leg.wa.gov/wac/default.aspx?cite=173-201A

SIGNATURE

November 12, 2020

Vincent McGowan, P.E.

Date

Water Quality Program Manager Department of Ecology

State of Washington

1st Amendment Changes are reflected Red Page 1 of 7

IN THE MATTER OF GRANTING A)	ORDER # 16892
WATER QUALITY)	First Amendment
CERTIFICATION TO)	Revised Planning Requirements
U.S. Environmental Protection Agency)	
in accordance with 33 U.S.C. 1341)	
(FWPCA § 401), RCW 90.48.120, RCW)	
90.48.260 and Chapter 173-201A WAC)	
)	
)	

TO: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 10

ATTN: Susan Poulsom

1200 Sixth Ave, Suite 155, OWW

Seattle, WA 98101

On September 17, 2019, the U.S. Environmental Protection Agency (EPA) requested a Section 401 Water Quality Certification for the NPDES permit authorizing discharges to a water of the state (defined in RCW 90.48) from the Suquamish Wastewater Treatment Plant (WWTP). This Order and 401 Certification (Certification) imposes additional conditions, beyond the conditions of the draft NPDES permit, on the Applicant or Permittee.

The draft NPDES permit covers the discharge of pollutants from the Suquamish WWTP to Port Madison, Puget Sound.

This Certification is based on the terms and conditions contained in the proposed draft NPDES permit. If EPA issues a final NPDES permit that contains any changes from the draft NPDES permit that do not include requirements outlined in this Certification, Ecology reserves the right to either modify or revoke this Certification. In accordance with 40 CFR 124.53(e)(3), Ecology has determined that no condition in the draft NPDES permit may be made less stringent without violating requirements in Washington State law. Ecology reserves the right to modify or revoke this Certification if there is no longer reasonable assurance that there will be compliance with 33 U.S.C §§ 1311, 1312, 1313, 1316 and 1317 due to changes in the operation of the facility, changes in the characteristics of the waters into which discharges occur, changes in water quality criteria applicable to those waters, or changes to applicable effluent limits or other requirements.

AUTHORITIES:

In exercising authority under 33 U.S.C. § 1341, 16 U.S.C. § 1456, RCW 90.48.120, and RCW 90.48.260, Ecology has examined EPA's request for CWA 401 certification of the draft permit pursuant to the following:

1st Amendment Changes are reflected Red Page 2 of 7

- 1. Conformance with applicable water quality-based, technology-based, and toxic or pretreatment effluent limitations as provided under 33 U.S.C. §1311, 1312, 1313, 1316, and 1317 (FWPCA §301, 302, 303, 306 and 307);
- 2. Conformance with the state water quality standards contained in Chapter 173-201A WAC and authorized by 33 U.S.C. §1313 and by Chapter 90.48 RCW, and with other applicable state laws; and
- 3. Conformance with the provision of using all known, available and reasonable methods to prevent and control pollution of state waters as required by RCW 90.48.010.
- 4. Conformance with Washington's prohibition on discharges that cause or tend to cause pollution of waters of the state of Washington. RCW 90.48.080

WATER QUALITY CERTIFICATION CONDITIONS:

With this Certification and through issuance of this Order, Ecology certifies that it has reasonable assurance that the activity as proposed and conditioned by this Certification will be conducted in a manner that will not violate applicable water quality standards and other appropriate requirements of state law. In view of the foregoing and in accordance with 33 U.S.C. §1341, RCW 90.48.120, RCW 90.48.260 Chapter 173-200 WAC and Chapter 173-201A WAC, water quality certification is granted to the Applicant subject to the conditions within this Order and NPDES Permit No. WA0023256.

Certification of the Applicant's proposed final permits does not authorize the Permittee to exceed applicable state surface water quality standards (Chapter 173-201A WAC), ground water standards (Chapter 173-200 WAC) or sediment quality standards (Chapter 173-204 WAC), standards in the EPA's Revision of certain Federal water quality criteria applicable to Washington (40 CFR 131.45), and other appropriate requirements of State law.

1st Amendment Changes are reflected Red Page 3 of 7

A. General Conditions

- 1. For purposes of this Order, the term "Applicant" shall mean U.S. Environmental Protection Agency.
- 2. For purposes of this Order, the term "Permittee" shall mean Kitsap County.
- 3. The Applicant shall enforce the permit and ensure that the Permittee complies with the conditions of the permits at all times.
- 4. Nothing in this Certification waives Ecology's authority to issue additional orders if Ecology determines that further actions are necessary to implement the water quality laws of the state. Further, Ecology retains continuing jurisdiction to make modifications hereto through supplemental orders, if additional impacts due to project construction or operation are identified (*e.g.*, violations of water quality standards, downstream erosion, etc.), or if additional conditions are necessary to further protect water quality.
- 5. In the event of changes or amendments to the state water quality, ground water quality, or sediment standards, or changes in or amendments to the state Water Pollution Control Act (RCW 90.48) or the federal Clean Water Act, Ecology may issue an amendment to this Certification to incorporate any such changes or amendments applicable to this project.
- 6. Failure of any person or entity to comply with this Certification may result in the issuance of civil penalties or other actions, whether administrative or judicial, to enforce the terms of this Certification.

B. Water Quality

- 1. This Certification does not authorize exceedances of water quality standards established in WAC 173-201A. (WAC 173-201A-510(1), 173-240-080)
- 2. This Certification authorizes a mixing zone per WAC 173-201A-400.
- 3. Nutrient Control and Reduction: (RCW 90.48.080, 90.54.020(3)(b))

Nutrients discharged from wastewater treatment plants contribute to low dissolved oxygen (D.O.) levels, below state water quality criteria, in Puget Sound. Nitrogen is the limiting nutrient in Puget Sound waters, and total inorganic nitrogen (TIN) is the form of nitrogen more available for algal growth that drives eutrophication and the dissolved oxygen impairment. All wastewater discharges to Puget Sound containing inorganic nitrogen contribute to the D.O. impairment.

The Permittee's discharge contains inorganic nitrogen, and the NPDES permit must require the Permittee to control nutrients consistent with the Clean Water Act and Washington's Water Pollution Control Act. Water quality based effluent limits (WQBELs) are required for wastewater treatment plants discharging to surface waters when the discharge has reasonable potential to cause or contribute to an in-stream excursion above a narrative or numeric State water quality criteria

1st Amendment Changes are reflected Red Page 4 of 7

(40 CFR 122.44(d)(1)(iii)).

Washington State does not have numeric criteria for nitrogen from which to derive a WQBEL, and Ecology uses D.O. as a surrogate which requires modeling to demonstrate water quality impacts from a discharge.

The nitrogen in the Permittee's discharge has reasonable potential to contribute to far-field water quality impacts. For this permit, implementing a discharge-specific numeric WQBEL for nitrogen is infeasible. This is due to the additional modeling scenarios necessary to quantify both the Permittee's far-field water quality effect and the corresponding effluent limit necessary to prevent an exceedance of the D.O. standard.

40 CFR 122.44(k) states that best management practices (BMPs) to control or abate the discharge of pollutants are acceptable when numeric effluent limitations are infeasible. Ecology believes that a combination of a nutrient load cap based on current nutrient discharge levels and, treatment efficiency optimization, and facility planning constitutes a suite of BMPs that complies with 40 CFR 122.44(k). EPA must revaluate this limit in consultation with Ecology during development of the next permit iteration.

EPA provided Ecology with effluent data collected from 2016 to 2019. Ecology calculated an annual TIN load cap of 14,691 lbs, which must be included as a Permit condition. Compliance with the annual TIN cap is assessed at the end of each 12-month period following the effective date of the permit.

Optimization of treatment performance is an adaptive management strategy the Permittee can use to reduce the discharge of TIN to [sic] as much as possible during the permit term and stay below the annual average load cap. Ecology expects these facility specific operational efforts to be initiated following permit issuance. See section 4–5.b of this certification for planning requirements related to optimization. Any major process optimization permanent process changes resulting from optimization must be reflected in an update to the standard operating procedures in the Permittee's Operation and Maintenance manual. The Permittee must alert EPA of any updates made in their plan.

4. Monitoring Requirements: (WAC 173-220-210)

In accordance with the Quality Assurance Plan (QAP) required under the Permit, Permittee must monitor monthly and cumulative TIN loads and submit the results with the monitoring reports required under the Permit. The Permittee must report the monthly load and the cumulative load during the annual reporting period as described in Section B.3 of this certification. Results must be submitted in the discharge monitoring reports. The Permit must contain the following effluent monitoring frequencies for purposes of tracking compliance with the annual TIN

1st Amendment Changes are reflected Red Page 5 of 7

cap.

Parameter	Units &	Minimum	Sample Type
	Specifications	Sampling	
		Frequency	

Final wastewater effluent

Final Wastewater Effluent means wastewater exiting the last treatment process or operation. Typically, this is after or at the exit from the chlorine contact chamber or other disinfection process.

The total ammonia and nitrate plus nitrite samples must be taken on the same calendar day.

Flow, monthly average	MGD	Monthly	metered/recorded
Total Ammonia	mg/L as N	Monthly	Grab 24-Hour
			Composite
Nitrate plus Nitrite Nitrogen	mg/L as N	Monthly	24-Hour
			Composite Grab
Total Inorganic Nitrogen ¹	mg/L as N	Monthly	Calculated
Total Inorganic Nitrogen	Lbs/day	Monthly	Calculated
Load ²	8		
Average Monthly Total	Lbs	Monthly	Calculated
Inorganic Nitrogen ³			
Annual Total Inorganic	Lbs	Monthly	Calculated
Nitrogen, year to date ⁴			

¹ Calculate the total inorganic nitrogen concentration (mg/L as N) using the following equation:

TIN concentration (mg/L as N)

= Total Ammonia (mg/L as N) + Nitrate plus Nitrite (mg/L as N)

If the Permittee conducts additional total ammonia and/or nitrate plus nitrite sampling during the month, the average of the concentration results must be used in the above equation.

Monthly average TIN load (lbs as N)

= TIN load (lbs/day as N) x number of days in the calendar month

² Calculate the total inorganic nitrogen load (lbs/day as N) using the following equation: TIN load (lbs/day as N)

⁼ TIN concentration (mg/L as N) x average monthly flow (mgd) x 8.34

³ Calculate the monthly average total inorganic nitrogen load (lbs as N) using the following equation:

1st Amendment Changes are reflected Red Page 6 of 7

⁴ For each discrete 12-month period, calculate the cumulative annual total inorganic nitrogen, year to date using the following calculation: Annual TIN load (lbs as N) = \sum Monthly average TIN loads, to date

5. <u>Planning Requirements: (WAC 173-201A-510(4)(b)(ii), 173-240-060, 173-240-080)</u>

- a. The Permittee must submit an optimization plan identifying achievable improvements for maintaining compliance with the TIN cap no later than nine months following the permit effective date. The Permittee must submit a TIN Compliance Plan identifying standard procedures and potential operational adjustments to maintaining [sic] compliance with the TIN cap. The Plan shall be submitted no later than one year following the permit effective date as an addendum to the required Operations and Maintenance Plan described in the Permit.
- b. With the next permit application, or nine months following any exceedance of the annual TIN load cap, the Permittee must submit a nutrient reduction evaluation report individually or in collaboration with other Puget Sound Permittees identifying options and planning level costs for potential treatment upgrades. The Permittee must develop an approvable scope of work for this study in conjunction with EPA and Ecology. The Permittee must submit a TIN Optimization Plan identifying operational improvements of existing treatment processes to potentially reduce total inorganic nitrogen loads. The Plan should identify process improvements through operational adjustments designed to enhance nitrification and denitrification, such as side-stream management opportunities or incorporation of anoxic zones. The Plan should also describe previously made process improvements and a list of future potential improvements requiring further study or capital investment. When possible, the Plan should provide estimates in nutrient load reductions resulting from process improvements using plant specific monitoring data collected between each annual update. The Permittee must submit a status report identifying the Permittee's work to date on the Plan no later than twoyears following the permit effective date. The Plan shall be submitted no later than three-years following the permit effective date. The Permittee must update the plan annually to evaluate the effectiveness of adopted strategies.
- c. The Permittee must develop a formal engineering report with selection of a preferred design alternative if Ecology develops a facility specific numeric WQBEL for nitrogen during the permit term. If required, this document must be submitted within 18-months of initial notification from Ecology. With the next permit application, or eighteen (18) months following any exceedance of the annual TIN load cap, whichever comes first, the Permittee must submit a Facility Feasibility Study, for evaluating different levels of TIN reduction through facility modifications. The Feasibility Study should evaluate actual

1st Amendment Changes are reflected Red Page 7 of 7

operating conditions obtained from the TIN Optimization and Compliance Plan and develop potential facility upgrades with associated planning level and operating costs to reduce TIN discharges. The Feasibility Study should also incorporate treatment process improvements, including consideration of reclaimed water use and incremental approaches to phased nitrogen reduction. Ancillary benefits for each potential treatment modification should be part of this evaluation.

- d. If Ecology develops a facility-specific numeric WQBEL for TIN during the permit term for the Suquamish Wastewater Treatment Plant, Ecology will provide formal written notice to the Permittee. If the Permittee does not meet the facility-specific numeric WQBEL, the Permittee must develop a formal engineering report with selection of a preferred design alternative. This engineering report must be submitted as follows:
 - i. If the Facility Feasibility Study, as described in 5.c of this certification, has been submitted, then within 24 months after formal written notice by Ecology. In the event that Permittee is unable to secure an outside engineering firm to complete the engineering report that meets Permittee's required qualification as listed in its Request for Qualifications (RFQ), Permittee is entitled to extend the 24 month deadline by a further 12 months following notice to Ecology at least 90 days prior to the expiration of the deadline.
 - ii. If the Facility Feasibility Study has not been submitted, then within 36 months after formal written notice by Ecology.

C. Timing Requirements

1. This Certification is valid until the expiration date including any administrative extension or termination date of NPDES Permit No. WA0023256.

D. Notification Requirements

1. The Applicant shall enforce and the Permittee must comply with all the reporting and notification conditions of the NPDES permit, including conditions of the permit requiring the Permittee to report to Ecology.