



Request for Proposals No. 26-036

Dissolved Air Flotation Thickening (DAFT) Polymer Supply for Greater Nanaimo Pollution Control Centre

Issue Date: September 29, 2026

CLOSING DATE AND TIME:

Proposals are requested to be received at the Closing Location on or before:
3:00 PM (15:00 hrs) Pacific Time on October 27, 2026

Regional District of Nanaimo (RDN) Contact for Questions:

Adrian Limpus

Wastewater Program Coordinator - Operations

Email: alimpus@rdn.bc.ca

To schedule a Jar Test, please contact:

Date: October 5, 2026 to October 23, 2026

Location: Greater Nanaimo Pollution Control Centre

Contact: Craig Hoover, GNPCC Chief Operator

choover@rdn.bc.ca

Jar Testing of polymers is mandatory prior to submission.

Test Results must be attached to submission

Questions must be received at least three (3) business days before the closing date.

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1. Introduction

1.1 Invitation to Polymer Suppliers

The Regional District of Nanaimo is interested in procuring Dissolved Air Flotation Thickening (DAFT) polymer for use in the treatment of wastewater at Greater Nanaimo Pollution Control Centre.

Greater Nanaimo Pollution Control Centre (GNPCC) treats wastewater from Nanaimo, Lantzville, and the Snuneymuxw First Nation. GNPCC was upgraded in 2020 from primary to secondary treatment. The primary treatment process uses sedimentation tanks. The secondary process is an activated sludge process with bioreactors and secondary clarifiers.

1.1 Mandatory Jar Testing

Jar testing of the polymers at Greater Nanaimo Pollution Control Centre is mandatory PRIOR to submitting a proposal. Test Results must be attached to submission.

Jar testing must be scheduled between October 5, 2026 to October 23, 2026
with:

Craig Hoover
GNPCC Chief Operator
choover@rdn.bc.ca

1.2 Term

The contract will be for a three (3) year term. Fixed pricing will be required over the initial one year of the term. Rates for each subsequent year will be adjusted based upon mutual written agreement.

2. Instructions to Proponents

2.1 Closing Time

Proposals are to be received on or before the closing time of 3:00 PM (15:00 hrs), Pacific Time, October 27, 2026

By Email: With "26-036 DAFT Polymer for GNPCC" as the subject line to this email address
alimpus@rdn.bc.ca

Please note: Maximum email file size limit is 20MB, or less. The RDN will not be liable for any technological delays of submissions.

Submissions received in any other manner will not be accepted.

2.2 Amendments to Proposals

Proposals may be amended in writing and sent via email to the RDN contact person identified on the cover page on or before the closing. Such amendments should be signed by the authorized signatory of the Proponent.

2.3 Addenda and Question & Answers

If the RDN determines that an amendment or questions & answers are required for this RFP, the RDN will post the Addendum on the RDN (www.rdn.bc.ca/current-bid-opportunities) and BC Bid (www.bcbid.gov.bc.ca/) website. Each addendum will be incorporated into and become part of the RFP. No amendment of any kind to the RFP is effective unless it is contained in a written addendum issued by the RDN. It is the sole responsibility of the Proponent to check and ensure all amendments are included prior to submitting their final Proposal submission.

2.4 Withdrawal of Proposals

The Proponent may withdraw their Proposal at any time by submitting a written withdrawal email to the RDN contact person identified on the cover page on or before the closing date.

2.5 Unsuccessful Vendors

The Regional District will offer debriefings to unsuccessful Proponents, on request, at a mutually agreeable time.

2.6 Supply Agreement

The successful Proponent(s) will be expected to sign a Supply Agreement. The Supply Agreement must be fully executed by both the RDN and successful Proponent prior to commencement of supply and delivery of this product.

The RDN's preferred Supply Agreement is provided, and includes the following:

- RDN Supply Agreement Template (Appendix C)
- Technical Specifications and Requirements (see Section 3.0)
- 5.7 Product Performance.
- Appendix A – Submission Form
- Addenda issued (if applicable).
- Certificates of Insurance

Proponents should carefully review this agreement. Should any vendors request that RDN consider revisions, Proponents should include any clauses of concern in their proposal submission and suggest replacement language.

3. Technical Specifications and Requirements

3.1 Deliverables

1. General

- (i) Products must be compatible with the RDN's existing chemical delivery and mixing equipment.
- (ii) Polymers must have been jar tested prior to submission at Greater Nanaimo Pollution Control Centre. **Jar test results must be attached to submission.**

2. Product Specifications

The polymers must meet the following minimum specifications to be considered.

- (i) Shelf Life: Six (6) months minimum
- (ii) Low toxicity with respect to contact with skin and eyes and to accidental ingestion or inhalation. Product must be accompanied by an SDS and will not be classified as acutely toxic under WHMIS for normal handling and use.

3. Chemical Mixing and Delivery Systems

Dissolved Air Flotation Thickening (DAFT) Polymer

- Liquid Polymer compatible with the RDN's existing mixing and chemical delivery equipment (Velodyne Veloblend VM-10P-1200-Rw-3C -A2 model) (see Figure 1).
- The polymer mixing system was designed for a 40% liquid emulsion polymer.
- Vendors should be able to provide liquid polymer in totes of 1000L size. 208 L (55 US gallon) drums are preferred for trials.
- Polymer is pumped from tote into the batch mixing/dosing tank.
- Dosing pumps utilize make-up water to dose batched polymer to Dissolved Air Flotation Thickening System.

4. Waste Activated Sludge Characteristics

The Total Suspended Solids (TSS) in the Waste Activated Sludge (WAS) is not typically tested. However, the sludge has similar characteristics to the Mixed Liquor in Bioreactors at GNPCC which have an average TSS level of 1900 mg/L (0.19%). TSS can range between 1,100 mg/L (0.11%) to 2,930 mg/L (0.29%).

The current TSS concentration can be shared with Proponents for their jar testing.

5. Location

- (i) Greater Nanaimo Pollution Control Centre, 4600 Hammond Bay Road, Nanaimo, B

6. Estimated annual quantity

(i) Current Dissolved Air Flotation Thickening (DAFT) polymer consumption is approximately 26,600 kg annually.

Quantities are estimates only and may vary substantially depending on process conditions and operational requirements.

7. Ordering and delivery

(i) Product ordered through email must be delivered within 10 working days of receipt of order.

(ii) Deliveries will be made between the hours of 8:30 am to 4:30 pm.

(ii) Should there be any delay in obtaining product from supplier for any reason, the Regional District reserves the right to secure alternative product from any source without waiving or voiding the terms and conditions.

8. Material Disclosures

Currently, the RDN is purchasing DAFT Polymer from Alumichem Canada Inc. The product purchased is Wes-Floc 7510 A. The Safety Data Sheet (SDS) for this product is attached as Appendix B.

9. Spills

The supplier is responsible for cleaning up any spills in transport and when offloading the product at the RDN's facilities. The supplier must meet all requirements of the *BC Spill Reporting Regulation*. The contractor must provide their spill reporting procedures for the RDN to review.

10. Transport and Delivery

The supplier must comply with all Workplace Hazardous Materials Information Systems (WHMIS) in terms of chemical handling and comply with Transport of Dangerous Goods Requirements (TDG) where applicable when transporting the products to RDN facilities.

Figure 1 – Dissolved Air Thickening Polymer Mixing and Chemical Delivery System



3.2 General Specifications

The work must be completed in accordance with all applicable federal, provincial, and municipal and local government laws, bylaws, regulations, codes, and standards.

The supplier is responsible for the overall management and administration for supplying the product to the RDN's facilities. Management must include the provision of qualified management and administrative staff with experience supplying wastewater treatment chemicals, appropriate liability insurance, permits, financing and other functions related to the contract administration.

The supplier must also comply with all statutory occupational health and safety requirements under or in connection with the *Workers Compensation Act* and *Occupational Health and Safety Regulation* in performance of the Services and the Contractor represents and warrants to the Regional District that it follows all requirements of the *Workers Compensation Act*, including with respect to registration and payment of assessments. The Contractor must also always comply with all site-specific safety and personal protective equipment (PPE) requirements.

The Supply Contractor must meet requirements of Wastewater Service's Environmental Management System (ISO 14001:2015). These requirements are specified in the department's Contractor-Supplier Package which must be signed by the successful Proponent. For more information, please refer to [Wastewater Services Contractor Supplier Package](#).

4. General RFP Terms and Conditions

4.1 No Contract

By submitting a Request for Proposal and participating in the process as outlined in this RFP, proponents expressly agree that no contract of any kind is formed until a fully executed contract is in place.

4.2 Privilege Clause

The lowest or any proposal may not necessarily be accepted.

4.3 Acceptance and Rejection of Submissions

This RFP does not commit the RDN, in any way to select a preferred Proponent, or to proceed to negotiate a contract, or to award any contract. The RDN reserves the right in its sole discretion cancel this RFP, up until award, for any reason whatsoever.

The RDN may accept or waive a minor and inconsequential irregularity, or where applicable to do so, the RDN may, as a condition of acceptance of the Submission, request a Proponent to correct a minor or inconsequential irregularity with no change in the Submission.

4.4 Conflict of Interest

Proponents shall disclose in their Proposals any actual or potential Conflict of Interest and existing business relationships it may have with the RDN, its elected officials, appointed officials or employees.

4.5 Solicitation of Board Members and RDN Staff

Proponents and their agents will not contact any member of the RDN Board or RDN Staff with respect to this RFP, other than the RDN Contact(s) named in this document.

4.6 Litigation Clause

The RDN may, in its absolute discretion, reject a Proposal submitted by Proponent, if the Proponent, or any officer or director of the Proponent is or has been engaged either directly or indirectly through another corporation in legal action against the RDN, its elected or appointed officers and employees in relation to:

- (a) any other contract for works or services; or
- (b) any matter arising from the RDN's exercise of its powers, duties, or functions under the Local Government Act, Community Charter or another enactment within five years of the date of this Call for Proposals.

In determining whether to reject a Proposal under this clause, the RDN will consider whether the litigation is likely to affect the Proponent's ability to work with the RDN, its consultants and representatives and whether the RDN's experience with the Proponent indicates that the RDN is likely

to incur increased staff and legal costs in the administration of this Contract if it is awarded to the Proponent.

4.7 Exclusion of Liability

Proponents are solely responsible for their own expenses in preparing and submitting a Proposal, attending the site, accommodations, meals, travel, any meetings, providing RDN staff training, any other costs related to this RFP submission, and any negotiations. The RDN will not be liable to any Proponent for any claims, whether for costs, expense, losses or damages, or loss of anticipated profits, or for any other matter whatsoever, incurred by the Proponent in preparing and submitting a Proposal, or participating in negotiations for a Contract, or other activity related to or arising out of this RFP. Except as expressly and specifically permitted in these Instructions to Proponents, no Proponent shall have any claim for compensation of any kind whatsoever, as a result of participating in this RFP, and by submitting a Proposal each Proponent shall be deemed to have agreed that it has no claim.

4.8 Ownership of Proposals

All Proposals, including attachments and any documentation submitted to and accepted by the RDN in response to this RFP become the property of the RDN.

4.9 Freedom of Information

All submissions will be held in confidence by the RDN. The RDN is bound by the Freedom of Information and Protection of Privacy Act (British Columbia) and all documents submitted to the RDN will be subject to provisions of this legislation. The successful vendor and value of the award is routinely released.

4.10 No Guarantee of Volume of Work or Exclusivity of Contract

The RDN makes no guarantee of the value or volume of work to be assigned to the successful Proponent(s). The agreement to be negotiated will not be an exclusive contract of the provision of the described Deliverables. The RDN may contract with others for goods and services the same or like the Deliverables or may obtain such goods and services internally.

5. Evaluation

5.1 Evaluation Process

All decisions on the degree to which the polymers recommended meet the stated evaluation criteria, compliance to Technical Specifications, and the scores assigned during the evaluations, are at the sole discretion of RDN.

Proposals submitted should be in enough detail to allow the RDN to determine the Proponent's qualifications and capabilities from the documents received. The selection committee, formed at the RDN's sole discretion, will score the Proposals in accordance with the criteria provided.

The RDN may evaluate proposals on a comparative basis by comparing one proponent's proposal to another proponent's proposal. The RDN reserves the right to not complete a detailed evaluation if the RDN concludes the proposal is materially incomplete or, irregular or contain any financial or commercial terms that are unacceptable to the RDN.

The selection committee may proceed with an award recommendation or the RDN may proceed to negotiate with the highest evaluated proponent with the intent of developing an agreement. If the parties after having bargained in good faith are unable to conclude a formal agreement, the RDN and the Proponent will be released without penalty or further obligations other than any surviving obligations regarding confidentiality and the RDN may, at its discretion, contact the Proponent of the next best rated Proposal and attempt to conclude a formal agreement with it, and so on until a contract is concluded or the proposal process is cancelled.

The RDN reserves the right to award the assignment in whole or in part or to add or delete any portion of the work. Throughout the evaluation process, the evaluation committee may seek additional clarification on any aspect of the Proposal to verify or clarify the information provided and conduct any background investigation and/or seek any additional information it considers necessary.

5.2 Mandatory Submission Requirements

Proposals not clearly demonstrating that they meet the following mandatory criteria will be excluded from further consideration.

Proposal must be received before the Closing Time
The Proposal must be submitted on Appendix A – Submission Form

5.3 Compliance to Technical Requirements

Compliance to Technical Specifications will be assessed for each Polymer recommended:

Compliance to Technical Specifications (Section 3.0) as determined by the RDN in its sole discretion	Pass/Fail
Polymers must have been Jar Tested by Supplier PRIOR to submission. Jar test report must be attached to submission.	Pass/Fail

5.4 Stage 1 – Shortlisting Submissions

Submissions will be ranked in accordance with the following criteria:

Criteria	Evaluation Points
Rate (\$/kg)	40%
Jar Test Results (Sample Report provided in Appendix D) • Provide jar test results for recommended product.	20%
Technical Criteria: • Proponent Experience and Qualifications • Use of Chemical in Similar Wastewater Applications • Service and Quality Commitments • Sustainability • Safety	40%

5.5 Stage 2 - Operational Trial

The RDN will shortlist up to three submissions which received the highest evaluation score in the Stage 1 process.

Shortlisted Proponents will be invited to participate in an operational trial in which recommended polymers will be used in the DAFT wastewater treatment process at GNPCC for a period of up to three weeks in length.

The RDN will purchase the chemicals needed for this trial. However, suppliers will provide only the chemicals needed for the trial. Suppliers will also permit the RDN to return unused chemical at the end of the trial period without a restocking fee.

Evaluation will consider operational observations, dosage requirements, sludge handling performance and process impacts.

Polymers will be ranked according to the following criteria based on the operational trial results:

Criteria	Evaluation Points
Financial Criteria (Estimated based on Pricing & Dosing)	40%
Operation Trial Results • Solids Removal • Floc Formation • Underflow Clarity • Wastewater Process Impact	40%
Quality Control, Service Level Commitments, Sustainability, and Safety	20%

5.6 Proof of Concept

Polymers selected may be tested for an additional 3 weeks following both stages of the evaluation process to optimize the polymers tested operationally to meet operational requirements. In the event, testing shows the product as failing to meet operational requirements, and the Supplier is unable to resolve the issue to the RDN's satisfaction, the Regional District may move on to the next ranked Proponent without further liability, damage, or cost to the RDN.

5.7 Product Performance

(a) If during the Contract term, the polymer is found to be losing effectiveness and/or product dosage increases to a level that is unacceptable to the Regional District, the Supplier will make every effort to improve such performance within 10 working days of notification.

(b) Any product substitution suggested by the incumbent supplier will perform equal to and/or better than the initial full-scale evaluation or baseline performance. Additionally, any product substitution will be formally pre-approved by the Regional District and supplied and the unit price in effect at the time of contract issuance.

(c) If the substitute cannot be supplied at the same cost or a more effective polymer cannot be found, the Regional District will have the right to contact other Suppliers to supply effective polymer.

APPENDIX A – SUBMISSION FORM

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GNPCC DAFT Polymer

SUBMISSION FORM

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Please provide pricing in Canadian Dollars, including delivery fees, but excluding any taxes, Freight on Board (F.O.B.) destination to:

Greater Nanaimo Pollution Control Centre

4600 Hammond Bay Road

Nanaimo, BC, Canada, V9T 5A8

Required Pricing Information (exclusive of GST/PST)

Recommended Polymer	Description	Unit Price (\$/kg)	Specific Gravity (kg/L)	Recommended Dosing Rate at GNPCC (dose/dry ton solids)

Please also attach Safety Datasheet (SDS's) for recommended product.

Required Pricing Information Terms and Conditions:

- Rates quoted by the proponent must be all inclusive and include all labour and material costs, all travel costs, insurance costs, costs of delivery, installation, and set up including any pre-delivery inspection charges, and all other costs for provision of the product to the RDN's facilities.
- The quantities provided are estimates only based on historical averages and will be used to compare bids. Actual quantities ordered may be depending on operational need.
- The Regional District of Nanaimo reserves the right, in its sole discretion, to award all of the items, some of the items, or none of the items. The lowest, or any bid, may not necessarily be accepted.
- Pricing is in Canadian Dollars and fixed for a period of one year from the date of notification of award.
- The RDN will not pay fuel surcharges for the supply and delivery of this product.

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GNPCC DAFT Polymer

SUBMISSION FORM

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Technical Criteria:

1. Client References (please enter responses directly into Table below). References may be contacted to allow the evaluation team to obtain more information on use of the polymer in similar process applications, quality, and service level commitments.

Provide contact information of 3 current wastewater customers for the recommended polymer in the Table below. *Provide references from customers that are using their recommended polymer with a similar thickening process to GNPCC. If polymer has been specifically formulated for GNPCC, provide references from customers using polymers of a similar nature with thickening processes like GNPCC.*

Name of Polymer	Organization / Reference Name	Telephone	Email

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GNPCC DAFT Polymer

SUBMISSION FORM

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IMPORTANT NOTE: Enter responses directly into the Submission Form. Completed and signed Submission Form must be submitted by email to alimpus@rdn.bc.ca before the Closing Time.

The final Submission Form must be signed. Proponents have the choice of using an e-signature, or to print off the filled-out form, sign, and send in a scanned version by email. If sending in a scanned version, please ensure to open the form to ensure all pages scanned properly.

Respondents can also submit background material to provide further detail pertaining to the questions. Please keep background material concise in nature (maximum of 5 pages of background material preferred).

2. Use of Polymer in Similar Wastewater Applications *(see submission instructions above)*

(a) Identify at least 3 wastewater treatment facilities where the proposed polymer, or polymers of a similar formulation and function, have been used for dissolved air flotation thickening or similar wastewater treatment applications. Describe how these applications are comparable to the proposed use at GNPCC.

If the proposed polymer has been specifically formulated for GNPCC or has limited operating history, provide examples of similar polymers used in comparable applications and explain the basis for expecting equivalent or improved performance.

(b) What are the advantages of each of the polymer you recommend in comparison to other polymers in the market?

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GNPCC DAFT Polymer

SUBMISSION FORM

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(c) Explain how your polymer would be compatible with the RDN's existing chemical delivery equipment in its Dissolved Air Flotation Thickening (DAFT) System.

(d) What is your packaging size (see Section 3.0)? Can you deliver in a 1000 L tote sizes? If not, how would your proposed packaging size be compatible with the RDN's existing equipment

3. Company Experience and Qualifications *(see submission instructions on page 3 of Submission Form)*

(a) Provide a brief description of your company.

(b) Provide an executive summary describing the Proponent's relevant experience and qualifications in delivering services like those required in this RFP.

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GNPCC DAFT Polymer

SUBMISSION FORM

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(c) Provide relevant background and experience of all key personnel involved in providing the deliverables including any subcontractors.

4. Quality Control and Service Level Commitments *(see submission instructions on page 3 of Submission Form)*

(a) Detail product quality control measures.

(b) Provide details on product ordering and delivery services.

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GNPCC DAFT Polymer

SUBMISSION FORM

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4. Quality Control and Service Level Commitments (continued) *(see submission instructions on page 3 of Submission Form)*

(c) Provide service level commitments for request response times and lead time upon initiation of order to product delivery.

(d) What is the shelf-life of the product?

(e) What is your return policy for product? Provide information on payment for return freight and whether restocking fees would apply.

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SUBMISSION FORM

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5. Sustainability

(a) Does your firm allow for return of empty containers?

(b) Describe any sustainable processes/technologies employed during the production process?

(c) How does your firm reduce greenhouse gases from the transport of the chemicals

6. Safety

(a). Describe key handling hazards associated with the proposed polymer.

(b) Identify PPE requirements.

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GNPCC DAFT Polymer

SUBMISSION FORM

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6. Safety (continued)

(c) Describe spill prevention and spill response measures during delivery. The RDN may request spill response procedures for review.

(d) Describe supplier safety training available to operators.

(e) Provide information on product toxicity and exposure risks.

ACCEPTANCE:

The undersigned has examined REQUEST FOR PROPOSAL 26-036 and having full knowledge of the requirements of the Owner, do hereby agree to be bound by the Terms, Conditions, Statements and Representations contained herein:

Company Name & Mailing Address:

Phone No:

Contact Name:

Email:

Signature:

E-signatures may be used. Another option is to print, sign, and send in a scanned copy of the form.

Date:

APPENDIX B – SAFETY DATASHEET



ALUMICHEM

Safety Data Sheet

Wes-Floc 7510 A

Date of Issue: March 1 2021

Version 2.0

Date of Last Revision: November 1 2023

1. Identification

Product identifier

Product name :

Wes-Floc 7510A

Alternate names :

None.

Other means of identification

Chemical name :

Cationic polyacrylamide co-polymer.

Chemical family :

Organic polymer.

Recommended use of the chemical and restrictions on use

Recommended use :

Chemical flocculant for municipal and industrial applications.

Uses advised against :

No known restrictions against use.

Initial supplier identifier

Company :

Alumichem Canada Inc.
Unit 1 3531 Viking Way
Richmond
British Columbia
V6V 1W1
CANADA.

Telephone :

+1 888 921 3317.

Email :

Info_na@alumichem.com.

Emergency telephone number

CANUTEC :

+1 613 996 6666.

2. Hazard Identification

Classification of the product

Hazard class	Category	Hazard statement
Skin irritation	Category 2	H 315 – Causes skin irritation.
Eye irritation	Category 2A	H 319 – Causes serious eye irritation.
Acute aquatic toxicity	Category 3	H 402 – Harmful to aquatic life.

Label elements

Hazard symbols :



Signal word :

Warning.

Precautionary statements :

Prevention

- | | |
|-------|---|
| P 243 | Take precautionary measures against static discharge. |
| P 264 | Wash with plenty of water and soap thoroughly after handling. |
| P 273 | Avoid release to the environment. |
| P 280 | Wear protective gloves. |

Response

- | | |
|-----------------------|--|
| P301+P330+P331+P313 | IF SWALLOWED : Rinse mouth. Do NOT induce vomiting. Get medical attention. |
| P302+P362+P352+P314 | IF ON SKIN : Take off contaminated clothing. Wash with plenty of water and soap. Get medical attention if you feel unwell. |
| P 304 + P 340 + P 313 | IF INHALED : Remove person to fresh air and keep comfortable for breathing. Get medical attention. |
| P305+P351+P338+P314 | IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if you feel unwell. |

Storage

- | | |
|---------------|---|
| P 232 | Protect from moisture. |
| P 235 | Keep cool. |
| P 402 | Store in a dry place. |
| P 405 + P 233 | Store locked up. Keep container tightly closed. |

Disposal

- | | |
|-------|--|
| P 501 | Dispose of contents and containers in accordance with local, regional, national, and international regulation. |
|-------|--|

Hazards not otherwise classified (HNOC)

Spills of this product will produce extremely slippery surfaces.

Other non-GHS classifications

HMIS Rating

Health	1
Flammability	1
Reactivity	0
PPE	B

NFPA Rating

Health	1
Flammability	1
Reactivity	0
Special	

3. Composition / Information on Ingredients**According to Hazardous Products Regulations (HPR) (SOR/2015-17)**

Concentration. (W/W%)	CAS Number	Chemical Identity
20 – 45%	64742-47-8	Distillates (petroleum), hydrotreated light
< 5%	69011-36-5	Poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-, branched

4. First-Aid Measures**Description of necessary first-aid measures**

Ingestion :	Rinse mouth and drink plenty of water. Check breathing and pulse. Place the casualty in the recovery position, cover, and keep warm. Loosen tight clothing such as collar, tie, belt, or waistband. Get medical attention, or call Poison Control if necessary. Do NOT induce vomiting or give anything by mouth if the casualty is unconscious or having convulsions.
Skin contact :	Remove any contaminated clothing and shoes. Wash exposed skin thoroughly with soap and water 15 – 20 minutes. Get medical attention if irritation develops and persists.
Inhalation :	If breathing difficulties occur after inhalation, keep the patient calm, remove to fresh air and seek medical attention.
Eye contact :	Flush with water for at least 15 minutes with eyelids held open. Lift upper and lower eye lids to ensure all chemical is completely removed. Consult an eye specialist if eye irritation persists.

Most important symptoms and effects

Symptoms include possible eye and skin irritation and central nervous system depression.

Other important symptoms and effects are described in Section 2 : "Hazard Identification" and Section 11 : "Toxicological Information". Further important symptoms are not known.

Hazards : No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed

Treat according to individual symptoms and response to, and location of, exposure.
There are no known specific antidotes or contraindications.

5. Fire-Fighting Measures

Extinguishing media

Extinguish fire using dry powder, foam, carbon dioxide or water spray.
If water is used, restrict pedestrian and vehicular traffic in the area because this product is extremely slippery.

Specific hazards arising from the product

Fire-fighting hazards : Nitrogen oxides (NO_x), carbon oxides (CO_x), and hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

Other hazards : Spilled product is slippery underfoot. Very slippery when wet.

Special protective actions for fire-fighters

Wear a self-contained breathing apparatus.

Further information

Evacuate non-emergency personnel from the area.
Dispose of contaminated extinguishing water in accordance with local, regional, national, and international regulations.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Personal precautions : Stay upwind of this product to avoid inhalation.
Avoid walking through any spilt product or areas where slip hazard may exist; this product becomes extremely slippery when wetted.
Handle in accordance with good industrial hygiene and safety practices.

Protective equipment : Wear adequate personal protective equipment (See Section 8 : "Exposure Controls/Personal Protection").

Emergency procedures : Prevent further leakage or spillage if safe to do so.
Keep people away from spill/leak until clean-up is completed.

Environmental precautions

Do not flush into drains, surface water, or groundwater.
Contain contaminated water/firefighting water.

Methods and material for containment and cleaning up

Small spills : Do not flush with water as it will cause a slip hazard.
Soak up spill using an inert absorbent material and by sweeping or vacuum.
Keep the product in a suitable, closed container for disposal.

Large spills : Do not flush with water as it will cause a slip hazard.
Secure a dam and pump off or scoop away product. Dispose of the residue.

Residue : Soak up any residue using an inert absorbent material
After clean-up, flush away any trace material with water.
Use a common salt, such as sodium chloride, to aid in the removal of residue.

7. Handling and Storage

Precautions for safe handling

General precautions : Avoid contact with skin and eyes.
 Avoid application of product where slip hazard may exist.
 When using the product, do not eat, drink, smoke, or use tobacco.
 Wash hands before breaks and at the end of the workday.

Fire and explosion precautions : Take precautionary measures against static discharges.

Conditions for safe storage including any incompatibilities

Store closed in the original container in a cool, dry place.
Avoid temperature extremes.
Keep temperature between 5° C and 30° C.
Store away from strong oxidizing agents and reactive chemicals.

8. Exposure Controls / Personal Protection**Control parameters**

Any component not listed has no established occupational exposure limits.

Component Name	Regulation	Exposure Limit
Distillates (petroleum), hydrotreated light	OSHA (8-hour TWA)	400 mg/m ³
	OSHA (15 minutes)	100 mg/m ³
	ACGIH (8-hour TWA)	200 mg/m ³
	NIOSH (10-hour TWA)	Not established.

Appropriate engineering controls

Ensure adequate ventilation in confined spaces or in the presence of misting.
Natural ventilation is adequate in the absence of any misting.

Individual protection measures

Eye and face protection : Do not wear contact lenses.
 Use splash resistant chemical goggles or face shield.
 Maintain an eye wash fountain in the handling area.

Skin protection : Wear chemical resistant PVC or other protective material gloves and boots.
 If splashing or repeated contact with the product is likely, wear a chemical resistant apron or protective suit.

Respiratory protection : No personal protective equipment normally required.
 If working concentrations are more than 10 mg/m³, then an NIOSH-certified (or equivalent) organic vapour/particulate respirator is recommended.

General safety and hygiene measures : Handle in accordance with good industrial hygiene.
 Ensure adequate ventilation.
 Wearing of closed work clothes is recommended.
 Wear protective clothing as necessary to minimize contact with the product.
 When using the product, do not eat, drink, smoke, or use tobacco.
 Wash hands before breaks and at the end of the workday.

9. Physical and Chemical Properties

All properties listed below are at 20° C and 101.3 kPa unless otherwise stated

Appearance	Milky emulsion.
Odour	Aliphatic.
Odour threshold	No data available.
pH	4 – 6 at 5 g/l
Melting point/freezing point	< 5° C
Initial boiling point and boiling range	> 100° C
Flash point	> 93° C (closed cup)
Evaporation rate	No data available.
Flammability (solid, gas)	Not highly flammable.
Lower explosive limit	Not applicable. Product is not a highly flammable liquid.
Upper explosive limit	Not applicable. Product is not a highly flammable liquid.
Vapour pressure	2.3 kPa @ 20° C.
Vapour density	0.804 g/l @ 20° C.
Bulk density	1.03 g/cm ³
Solubility	Dispersible in water. Low solubility in water.
Partition coefficient (n-octanol/water)	< 0
Auto-ignition temperature	No data available.
Decomposition temperature	> 150° C.
Viscosity - Bulk - Kinematic	20.5 mm ² /s @ 40 C.
Viscosity, Bulk – Dynamic	1200 mPa.s (cps)
Viscosity, Dilute (5.0 g/l)	1300 mPa.s (cps)
Explosive properties	No data available.
Oxidizing properties	No data available.
Average non-volatile solids (%)	47.0

10. Stability and Reactivity

Reactivity

No hazardous reactions are anticipated if the product is stored and handled as indicated.
No known corrosive effect on metals.
Not fire-propagating.

Chemical stability

Stable at normal temperatures and pressure.
Stable if stored and handled as indicated.

Possibility of hazardous reactions

This product does not undergo hazardous polymerization.
Oxidizing agents may cause exothermic reactions.

Conditions to avoid

Avoid extreme temperatures, frost, freezing, direct sunlight and sources of ignition.

Incompatible materials

Incompatible with strong oxidizing agents and reactive chemicals.

Hazardous decomposition products

Thermal decomposition may produce nitrogen oxides (NO_x), carbon oxides (CO_x), ammonia and hydrogen cyanide (hydrocyanic acid) in an oxygen deficient atmosphere.

No hazardous decomposition products are expected under normal usage, if stored and handled as indicated.

11. Toxicological Information

Information on acute toxicological effects

Wes-Floc 7510 A

Acute oral toxicity :

Value :	LD ₅₀ /oral/rat > 5000 mg/kg.
Method :	Derived from the components of the product.
Assessment :	No known acute oral effects.

Acute dermal toxicity :

Value :	LD ₅₀ /dermal/rat > 5000 mg/kg
Method :	OECD Guideline 402.
Assessment :	No known acute dermal effects.

Acute inhalation toxicity :

Value :	No data available.
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Skin irritation/corrosion :

Species :	Rabbit.
Method :	OECD Guideline 404.
Assessment :	Irritating to skin.

Serious eye damage/irritation :

Species :	Rabbit.
Method :	OECD Guideline 405.
Assessment :	Irritating to eyes.

Respiratory or skin sensitisation :

Method :	Derived from the components of the product.
Assessment :	No suspicion of skin or respiratory sensitisation.

Aspiration hazard :

Method :	Derived from the properties of the product.
Assessment :	No suspicion of aspiration hazard.

Single target organ toxicity – single exposure :

Method :	Derived from the components of the product.
Assessment :	None known

Information on chronic toxicological effects

Wes-Floc 7510 A

Repeated dose toxicity :

Method : Derived from the components of the product.
Assessment : No suspicion of adverse health effects from repeated dose.

Germ cell mutagenicity :

Method : OECD Guideline 476.
Assessment : Not mutagenic.

Carcinogenicity :

Method : Derived from the components of the product.
Assessment : No suspicion of being carcinogenic.

Reproductive toxicity :

Method : Derived from the components of the product.
Assessment : No suspicion of being toxic for reproduction.

Teratogenicity :

Method : Derived from the components of the product.
Assessment : No suspicion of being toxic for reproduction.

Single target organ toxicity – repeated exposure :

Method : Derived from the components of the product.
Assessment : None known.

Primary routes of exposure

Primary routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact.
Routes for entry of gases include inhalation and eye contact.
Skin contact may be a route of entry for liquefied gases.

Symptoms of exposure

Symptoms include possible eye and skin irritation and central nervous system depression.
Other symptoms and effects are described in this section and Section 2 : "Hazard Identification".
Further symptoms are not known.

12. Ecological Information

Information on acute ecological effectsWes-Floc 7510 A

Acute toxicity to fish :

Value : LC₅₀/*Oncorhynchus mykiss*/96 hours = 10 – 100 mg/l
Method : OECD Guideline 203.
Assessment : Harmful to fish.

Acute toxicity to invertebrates :

Value : EC₅₀/*Daphnia magna*/48 hours = 10 – 100 mg/l
Method : OECD Guideline 202.
Assessment : Harmful to invertebrates.

Acute toxicity to algae :

Value :

No data available.

Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

Acute toxicity to aquatic plants :

Value :

No data available.

Information on chronic ecological effects

Wes-Floc 7510 A

Chronic toxicity to fish :

Value :

No data available.

Chronic toxicity to invertebrates :

Value :

No data available.

Chronic toxicity to algae :

Value :

No data available.

Chronic toxicity to aquatic plants :

Value :

No data available.

Persistence and degradability

Wes-Floc 7510 A

Degradation :

Readily biodegradable.

Hydrolysis :

At pH's > 6, the polymer degrades more than 70% in 28 days.
The hydrolysis products are not harmful to aquatic organisms.

Distillates (petroleum), hydrotreated light

Degradation :

Readily biodegradable (67.8% in 28 days).

Hydrolysis :

Does not hydrolyse.

Poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-, branched

Degradation :

Readily biodegradable (> 60% in 28 days).

Hydrolysis :

Does not hydrolyse.

Bioaccumulative potential

Wes-Floc 7510 A

Partition coefficient (Log power) :

< 0

Distillates (petroleum), hydrotreated light

Partition coefficient (Log power) :

3 – 6

Poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-, branched

Partition coefficient (Log power) :

> 3

Mobility in soil [Product as Supplied.]

Wes-Floc 7510 A

Adsorption to solid soil phase is expected due the properties of the product.

Other adverse effects

No other adverse effects are known.

Summary of ecological information

This product is toxic to fish and harmful to invertebrates and some algae.

The acute effects are due to the cationic charge of the polymer, but irreversible adsorption onto suspended and dissolved matter mitigates aquatic toxicity by a factor of 10 – 100 with 5 – 10 mg/l DOC in the water according to the US EPA "Dirty Water Test."

The product is not biologically available so accumulation in organisms is not to be expected.

There is currently no data available on the chronic effects of this product.

While it is not expected that this product has significant ecological effects, it is recommended this product not be discharged into the environment.

13. Disposal Considerations**Disposal methods**

Dispose of in accordance with local, regional, national, and international regulations.

Containers that cannot be cleaned should be disposed of in the same manner as the contents.

Crushing or puncturing the contaminated containers is recommended to prevent the unauthorized use of it.

Uncontaminated containers can be reused.

Do not dispose of into drains, surface water, or groundwater.

14. Transport Information**Land transport (TDG)**

Not classified as a dangerous good under transport regulations.

Sea transport (IMDG)

Not classified as a dangerous good under transport regulations.

Air transport (IATA)

Not classified as a dangerous good under transport regulations.

15. Regulatory Information**Safety, health, and environmental regulations specific for the product**

Domestic Substances List (DSL) :

All components of this product are either listed on the inventory or are exempt from listing.

Ingredient Disclosure List (IDL) :

No components are listed on the WHMIS ingredient disclosure list.

16. Other Information**SDS prepared by :**

Alumichem Canada Inc..

Version number :

2.0

Date of issue :

March 1 2021

Date of last revision :

November 1 2023

Notice to readers :

This information is supplied in accordance with Canada's Hazardous Products Regulations (HPR) SOR/2015-17 and the U.S. Hazard Communication Standard (HCS).

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of publication, but we cannot guarantee that the hazards listed are the only hazards that exist.

No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the product, or the results to be obtained from the use thereof is made, and Waterhouse Environmental Services Corporation assumes no responsibility.

END OF DATA SHEET

APPENDIX C – SUPPLY AGREEMENT

BETWEEN: (the "Supply Contractor")

AND: **Regional District of Nanaimo** (the "RDN")
6300 Hammond Bay Road,
Nanaimo, BC, Canada
V9T 6N2

THIS AGREEMENT WITNESSES that the Supply Contractor and the RDN agree as follows:

1. The Supply Contractor shall provide all labour, equipment, and materials required to supply and deliver the Product ("DAFT Polymer") to Greater Nanaimo Pollution Control Centre located at 4600 Hammond Bay Road, Nanaimo, BC, Canada within the required time and delivery location, as identified in the Contract Documents.
2. Shipping Terms: Freight on Board (FOB) destination, freight prepaid and allowed.
3. The RDN shall pay the Supply Contractor the Contract Price, as required by the Contract Documents.
4. The Contract Price shall be the sum in Canadian Dollars of the following:
 - (a) the Proposal Price, \$ /kg and

The Contract Price shall be the entire compensation owing to the Supply Contractor by the RDN for the Product and shall cover and include necessary costs including but not limited to all supervision, labour, materials, Supply Contractor's Plant and Equipment, overhead, profit, financing costs, duty, shipping charges, fabrication and finishing, conveyance and delivery, packing, crating, freight, cartage, off-loading, drafting charges, tariffs, warranty and all other costs and expenses whatsoever incurred in performing the Contract.

Except for the amounts which the RDN in good faith is disputing and except for any set off which the RDN may claim and except for invoices (or portions of invoices) in respect of which the RDN has requested and not received supporting evidence, the RDN shall pay invoices submitted to it for the Services within 30 days' receipt thereof.

5. The term of a Contract shall commence on January , 2027, and expires January 2030, unless terminated, cancelled, or extended.

The contract will be for a three (3) year term. Fixed pricing is required over the first one-year of the term. Annual fixed pricing for each subsequent year will be based upon

mutual agreement and successful price negotiations between both parties confirmed in writing. The contract will be amended annually to reflect that years' agreed to pricing. The Supply Contractor shall supply and deliver the Product to the Delivery Point no later than 10 working days from receipt of order. Deliveries will be made between the hours of 8:30 am to 4:00 pm. Should there be any delay in obtaining Product, the RDN reserves to secure alternative product from any source without waiving or voiding the terms and conditions.

6. The Contract Documents shall form a part of this Agreement as though recited in full.
7. The Contract supersedes all prior negotiations, representations, or agreements, whether written or oral and is the entire agreement between the RDN and the Supply Contractor with respect to the subject matter of this Agreement.
8. The Supply Contractor shall not assign the Contract, or any portion of the Contract, or any payments due or to become due under the Contract, without the express written consent of the RDN.
9. No action or failure to act by the RDN or an authorized representative of the RDN shall constitute a waiver of any right or duty afforded any of them under the Contract or constitute an approval or acquiescence in any breach thereunder, except as may be specifically agreed in writing.
10. This Agreement shall enure to the benefit of and be binding upon the RDN and the Supply Contractor and their respective heirs, executors, legal representatives, successors and permitted assigns. In the event of more than one person being the Supply Contractor, the grants, covenants, provisos and claims, rights, powers, privileges, and liabilities shall be construed and held to be several as well as joint.
11. Time shall be of the essence of this Agreement.
12. This Agreement may be executed in any number of counterparts, each of which will be deemed to be an original and all of which taken together will be deemed to constitute one and the same instrument. Delivery by electronic transmission in portable document format (PDF) of an executed counterpart of this Agreement is as effective as delivery of an originally executed counterpart of this Agreement.
13. The Supply Contractor will comply with all applicable federal, provincial, and municipal and local government laws, bylaws, regulations, codes, and standards.
14. The Supply Contractor will comply with all Workplace Hazardous Materials Information Systems (WHMIS) in terms of chemical handling and comply with Transport of

Dangerous Goods Requirements (TDG) where applicable when transporting and delivering Product to the RDN's facilities.

15. The Supply Contractor is responsible for cleaning up any spills in transport and when offloading Product at the RDN's facilities. The Supply Contractor must meet all requirements of the *BC Spill Reporting Regulation* in the event of a spill.
16. The Supply Contractor will ensure that the Product meets the requirements identified in Section 3.0 Technical Requirements of the *GNPCC DAFT Polymer Request for Proposals issued in September 2026* (attached as Appendix A).
17.
 - (a) If during the Contract term, the Product is found to be losing its effectiveness and/or product dosage increases to a level that is unacceptable to the RDN, the Supply Contractor will make every effort to improve such performance within 10 working days of notification.
 - (b) Any Product substitution suggested by the incumbent supplier will perform equal to and/or better than the initial full-scale evaluation or baseline performance. Additionally, any product substitution will be formally pre-approved by the RDN and supplied and the unit price in effect at the time of contract issuance.
 - (c) If the substitute cannot be supplied at the same cost or a more effective Product cannot be found, the RDN has the right to contact other vendors to supply effective Product.
18. The Supply Contractor will provide the RDN with not less than sixty (60) days written notice of any material change to the product formulation, manufacturing process, place of manufacture or quality control procedures that may affect Product performance.
19. The Supply Contractor shall indemnify and save harmless the Regional District of Nanaimo, its directors, officers, employees and agents from and against all claims, demands, actions, damages, losses, liabilities, costs and expenses, including legal fees, arising from or attributable to:
 - (a) the negligence, acts or omissions of the Supply Contractor, its employees, agents or subcontractors;
 - (b) any breach of this Agreement by the Supply Contractor; or
 - (c) the transportation, delivery, handling, storage or unloading of the Product by the Supply Contractor.

This indemnity shall survive the expiration or termination of this Agreement.

20. The Supply Contractor shall arrange commercial general liability coverage in an amount not less than five million dollars (\$5,000,000) per occurrence for bodily injury, death, or property damage, including coverage for loss of use. Such policy shall include the Regional District as an additional insured.

Prior to commencement of the Contract, and upon renewal of any policy, the Supply Contractor shall provide certificates of insurance acceptable to the RDN.

21. This agreement may be cancelled by either party for any reason without cause or penalty upon sixty (60) calendar day's written notice.

If this option is exercised, the RDN will be under no further obligation to the Supply Contractor, except to pay the Supply Contractor such amount as the Supply Contractor may be entitled to receive for services properly performed and provided to the date notice is given to the Supply Contractor.

IN WITNESS WHEREOF the parties hereto have executed this Agreement as follows:

REGIONAL DISTRICT OF NANAIMO

by its authorized signatory on _____ day of _____, 2027 (the date of Agreement):

SIGNED on behalf of the **Regional District of Nanaimo** by:

Signature: _____

Name: _____

Title: _____

Signature: _____

Name: _____

Title: _____

Supply Contractor

by its authorized signatory on _____ day of _____, 2027:

SIGNED on behalf of the Supply Contractor by:

Signature: _____

Name: _____

Title: _____

APPENDIX D – JAR TEST REPORT

Sample Jar Test Report

Dose		
Settling Time		
Vessel Material		

Pictures

Dose

5 minutes

10 minutes

30 minutes

Optimal Dose:

Settling Time: