



# Beneficial Management Practices

## Plans & Designs Appendix 2024/25



### Planning, Technical Assessments or Engineered Designs

#### Cost-Shared Ratios:

- Basic Plans and Designs: 100% up to an identified limit
- Complex Plans and Designs: 80% up to an identified limit
- Biogas Plans and Designs: 80% up to 50K

Maximum Funding Amounts vary by plan.

**Submission Window:** March 12<sup>th</sup> and ongoing until funding is fully allocated

**Project Completion Date:** + 90 days from Project Approval/Start Date

#### Categories:

- **Basic Plans**
  - Nutrient management planning (voluntary) | (100% up to \$3K)
  - Nutrient management planning (regulatory) | (100% up to \$6K)
  - Integrated pest management planning | (100% up to \$3K)
  - Grazing management planning | (100% up to \$3K)
  - Biodiversity planning | (100% up to \$3K)
  - Irrigation system assessment and plan | (100% up to \$3K)
  - Water management plan | (100% up to \$6K)
  - Riparian management planning | (100% up to \$3K)
  - Vegetative buffer planning | (100% up to \$3K)
- **Complex Plans** (80% to max program payment \$10K)
  - Engineering or technical design work by a qualified professional (earthen manure storage structure assessment as per Section 24: The Code of Practice for Agricultural Environmental Management)
  - Engineering or technical design work by a qualified professional (organic residuals – composting)
  - Energy Assessments and alternative energy pre-feasibility study completed by a qualified professional

- **Designs** (80% to a max program payment of \$20K)
  - Engineering or technical design work by a qualified professional (manure treatment)
  - Engineering or technical design work by a qualified professional (confined livestock area runoff)
  - Engineering or technical design work by a qualified professional (confined livestock relocation)
  - Engineering or technical design work by a qualified professional (wastewater – nutrient recovery)
  - Engineering or technical design work by a qualified professional (water and riparian)
  - Engineering or technical design work or technical feasibility studies (methane emission reduction)
  - Engineering or technical design work or technical feasibility studies (carbon dioxide emission reduction)
- **Biogas Feasibility Studies** (80% to a max program payment of \$50K)
  - Feasibility studies for the installation of biogas systems



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## Practice Code Details

For all plans, technical assessments or engineering designs a quote and a CV is required from the plan/design writer.

BMP Category Practice Code and Commodity	Eligible BMPs and Costs
<p><b>Voluntary Nutrient Management Planning (NMP) – 2401.1</b></p> <p>Consultative services to develop nutrient management plans, planning and decision support tools</p>	<ul style="list-style-type: none"> <li>• <b>Up to \$3K per plan</b></li> <li>• Laboratory analyses (e.g., manure, soil, leaf tissue or compost)</li> <li>• NMPs should include required elements (appropriate record keeping and reporting standards - see Information sheet at <a href="http://www.BCEFP.ca">www.BCEFP.ca</a>)</li> <li>• Estimated actual costs associated with development of plan must be submitted for review and approval</li> </ul> <p><b>Note:</b> Raw laboratory analyses nutrient data – free of farm identification – will be collected for environmental health indicators reporting purposes</p>
<p><b>Regulatory Nutrient Management Planning (NMP) – 2401.2</b></p> <p>Consultative services to develop nutrient management plans, planning and decision support tools</p> <p>Designated for Nutrient Management Planning (As per Sections 56 and 57: <i>The Code of Practice for Agricultural Environmental Management</i> )</p>	<ul style="list-style-type: none"> <li>• <b>Up to \$6k per plan</b></li> <li>• Laboratory analyses (e.g. manure, soil, leaf tissue or compost) as part of the eligible costs of the nutrient management plan</li> <li>• NMPs should include required elements (appropriate record keeping and reporting standards - see Information sheet at <a href="http://www.BCEFP.ca">www.BCEFP.ca</a>)</li> <li>• Estimated actual costs associated with development of plan must be submitted for review and approval</li> </ul> <ul style="list-style-type: none"> <li>• <b>Note:</b> Raw nutrient data – free of farm identification – will be collected for environmental health indicators reporting purposes</li> </ul>

BMP Category Practice Code and Commodity	Eligible BMPs and Costs
<p><b>Integrated Pest Management Planning - 2501</b></p> <p>Consultative services to develop integrated pest management plans, planning and decision support tools.</p>	<ul style="list-style-type: none"> <li>• <b>Up to \$3K per plan</b></li> <li>• IPM consultant must be approved by IAF to be eligible for reimbursement.</li> <li>• IPM plans must contain required elements of a plan (see information sheet at <a href="http://www.BCEFP.ca">www.BCEFP.ca</a>)</li> <li>• Actual costs associated with development of plan must be submitted for review and approval</li> </ul> <p><b>Note:</b> Limit of one plan per eligible farm operation</p>
<p><b>Grazing Management Planning - 2601</b></p> <p>Consultative services to develop range and grazing management plans, planning and decision support tools</p>	<ul style="list-style-type: none"> <li>• <b>Up to \$3K per plan</b></li> <li>• Linked to Practice Codes 1004, 1005.1 and 1005.2</li> </ul> <p><b>Note:</b> Limit of two plans per eligible farm operation</p>
<p><b>Biodiversity Management Planning - 2801</b></p> <p>Consultative services to create a biodiversity management plan</p>	<ul style="list-style-type: none"> <li>• <b>Up to \$3K per plan</b></li> <li>• Plan must include an opportunities assessment, an action plan, identification of potential activities to be implemented, and a monitoring plan.</li> <li>• Plan must include a comprehensive list of species present and known occurrences for species at risk (or anecdotal reports from landowner and neighbours if no occurrence data is present)</li> <li>• Planning and decision support tools (e.g., computer software and aerial photos)</li> <li>• Maps and land resource information costs</li> <li>• Report preparation by consultant</li> <li>• Plan review with producer</li> <li>• Guidance for this BMP is derived from the EFP “Planning for Biodiversity A Guide for BC Farmers and Ranchers”</li> <li>• Linked to BMP Practice Codes 1001, 1003, 1901 and 2204</li> </ul> <p><b>Note:</b> Limit of one plan per eligible farm operation</p>
<p><b>Irrigation System Assessment - 2901</b></p> <p>Consultative services by a Certified Irrigation Designer to evaluate and optimize irrigation system performance (existing systems)</p>	<ul style="list-style-type: none"> <li>• <b>Up to \$3K per plan</b></li> </ul> <p>Professional consultative services by a Certified Irrigation Designer from the <a href="http://www.IIABC.ca">Irrigation Industry Association of BC (IIABC)</a> to assess existing irrigation systems and provide an action plan on how to increase water use efficiency and irrigation system performance.</p> <p><b>Note:</b> The BMP program does not recognize certified designers from elsewhere.</p> <p>The designer must develop an action plan that includes:</p>



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	<ul style="list-style-type: none"> <li>• Assessment of the existing irrigation system to determine whether the design aligns with industry standards and whether the water supply and water licences are adequate to meet crop needs</li> <li>• Details on how the system can be improved to increase water use efficiency and performance for all components of irrigation systems, including water delivery and application</li> <li>• A certified design layout, material list, and operation and maintenance requirements</li> <li>• Applicable <b>Irrigation System Assessment Worksheets</b> from the EFP Planning Workbook or Irrigation System Assessment Guide</li> <li>• Site investigation by a Certified Irrigation Designer prior to action plan and quote preparation</li> <li>• Identification of areas where maintenance is required</li> <li>• Certified Irrigation Designer must sign and seal each plan for the project to be eligible for funding</li> <li>• The Certified Irrigation Designer must submit an invoice to the producer outlining the services before payment for plan preparation can be made</li> </ul>
<p><b>Water Management Plan – 2902</b></p> <p>Consultative services to mitigate issues arising from excess water, water supply, and other water-related issues</p>	<ul style="list-style-type: none"> <li>• <b>Up to \$6K per plan</b></li> </ul> <p>Professional consultative services for water management planning to deal with issues arising from excess water (stormwater and drainage), shortage of water supply, and other water-related issues resulting from climate change.</p> <ul style="list-style-type: none"> <li>• Plan must assess water supply to the farm (i.e., how the water is being managed on the farm for irrigation, livestock watering, and other farm water uses), as well as drainage and stormwater management. This includes assessment of existing water storage facilities for all farm water uses (e.g., dugouts), water supply sources, drainage channels/structures, and management of runoff/stormwater.</li> <li>• Irrigation system assessment and plan is <u>not</u> included (funded under BMP 2901).</li> <li>• Dam assessment is <u>not</u> included (funded under BMP 1102).</li> <li>• Plan must include recommendations for water management improvements on the farm and specify whether additional water supply, water storage, drainage/runoff control, or water licences are recommended/required.</li> <li>• Consideration should be given to design and operation parameters identified in the BC Irrigation Management</li> </ul>

BMP Category Practice Code and Commodity	Eligible BMPs and Costs
	<p>Guide, BC Agricultural Drainage Manual and/or the EFP Drainage Management Guide.</p> <ul style="list-style-type: none"> <li>Plan must be developed, signed and sealed by a Qualified Professional (e.g., Professional Agrologist, Professional Engineer, or Certified Irrigation Designer with education and work experience in agriculture water). <b>Note:</b> Certified Irrigation Designer must be from the <a href="#">Irrigation Industry Association of BC (IIABC)</a>. The BMP program does not recognize certified designers from elsewhere.</li> </ul>
<p><b>Riparian Management Plan - 3001</b></p> <p>Consultant fees to produce a riparian management plan (RMP) report for farmer with BMP recommendations that include a design layout, species list and maintenance protocols</p>	<ul style="list-style-type: none"> <li><b>Up to \$3K per plan</b></li> <li>RMP is based on a needs assessment from riparian health assessments (RHA) generated during EFP process</li> <li>Results of RHA must be included with application for RMP</li> <li>Planning and decision support tools (e.g. computer software, aerial photos)</li> <li>Maps and land resource information costs</li> <li>Data collection, materials and sampling and analysis costs by consultant</li> <li>Design work by consultant for water course and wetland areas and riparian buffer strip projects. Detailed engineering of bank stability and/or stream crossings should be completed under Practice Codes 1102</li> <li>Report preparation by consultant</li> <li>Plan review with producer</li> </ul> <p><b>Ineligible items:</b></p> <ul style="list-style-type: none"> <li>Time, effort and travel by the producer</li> <li>Professional services not directly related to riparian health assessment and buffer strip planning</li> <li>Field-specific agronomic practices (e.g. variable rate application of crop inputs)</li> <li>Costs associated with developing engineer reports for drainage projects</li> </ul>
<p><b>Vegetative Buffer Planning - 3401</b></p> <p>Services of a qualified consultant or EFP Program designate to produce a vegetative buffer plan (VBP) that includes a design layout, species list and maintenance protocols</p>	<ul style="list-style-type: none"> <li><b>Up to \$3K per plan</b></li> <li>A shelterbelt, buffer or hedgerow VBP based on a needs assessment from a BMP recommendation generated during the EFP process</li> <li>Services of a qualified consultant or EFP Program designate to produce a vegetative buffer plan (VBP) that includes a design layout, species list and establishment protocols.</li> <li>A shelterbelt, buffer or hedgerow VBP based on a needs assessment from BMP recommendations generated through the EFP process.</li> </ul>

BMP Category Practice Code and Commodity	Eligible BMPs and Costs
	<ul style="list-style-type: none"> <li>• Planning and decision support tools (e.g. computer software, aerial photos)</li> <li>• Maps and land resource information costs</li> <li>• Data collection, materials, sampling and analysis costs by consultant or designate</li> <li>• Design work by consultant for buffer layout, species selection and establishment costs</li> <li>• Report preparation</li> <li>• Plan review with producer</li> <li>• Linked to BMP Practice Code 1901</li> </ul> <p><b>Ineligible items:</b></p> <ul style="list-style-type: none"> <li>• Time, effort and travel by the producer</li> <li>• Professional services not directly related to the VBP</li> </ul>
<b>Complex Plans</b> (80% to a maximum program payment of \$10K associated with first plan)	
<p><b>Improved Manure Storage and Handling - 0106</b></p> <p>Engineering or technical design work by a qualified professional (earthen manure storage structure assessment)</p>	<ul style="list-style-type: none"> <li>• Assessment of existing earthen manure or agricultural by-product storage basins (lagoons) built before February 28th, 2019 by a qualified professional as per Section 24: <i>The Code of Practice for Agricultural Environmental Management</i> Costs can include site assessment by drilling, analytical costs for soil or water and report preparation</li> </ul> <p><b>Ineligible items:</b></p> <ul style="list-style-type: none"> <li>• Permanent monitoring equipment</li> <li>• Leak prevention supplies</li> </ul>
<p><b>Product and Waste Management - 0804</b></p> <p>Engineering or technical design work</p>	<ul style="list-style-type: none"> <li>• Engineering or technical design report and drawings to facilitate construction of composting facility, new liquid manure storage or modification of existing liquid manure storage</li> <li>• Compost facility operational planning and monitoring information</li> </ul> <p><b>Ineligible items:</b></p> <ul style="list-style-type: none"> <li>• Construction materials</li> <li>• Monitoring equipment</li> </ul>
<p><b>Carbon Dioxide (CO<sub>2</sub>) Emission Reduction - 3301</b></p> <p>Energy Assessments and alternative energy pre-feasibility study completed by a qualified professional</p>	<ul style="list-style-type: none"> <li>• Consultative services for on-farm energy efficiency assessment, and alternative energy assessments or pre-feasibility studies.</li> <li>• Energy assessments for energy efficiency or for alternative energy assessments</li> <li>• Alternative energy pre-feasibility assessments</li> <li>• Assessments must be carried out by a contracted professional</li> </ul>



BMP Category Practice Code and Commodity	Eligible BMPs and Costs
<b>Designs</b> (80% to a max program payment of \$20K)	
<b>Manure Treatment - 0204</b> Engineering or technical design work	<ul style="list-style-type: none"> <li>• Eligible projects include assessment and design of agricultural by-product manure treatment</li> <li>• Focus of engineering or technical design should on recovery of nutrients</li> </ul>
<b>Farmyard Runoff Control / Storm Water Management - 0503</b> Engineering or technical design work	<ul style="list-style-type: none"> <li>• Eligible projects include assessment and design of farmyard runoff control and/or management of stormwater to prevent clean water from being contaminated or prevent the release of contaminated water</li> <li>• Consideration should be given to design and operation parameters identified in the BC Agricultural Drainage Manual and/or the EFP Drainage Management Guide</li> </ul>
<b>Relocation of Livestock Confinement - 0603</b> Engineering or technical design work	<ul style="list-style-type: none"> <li>• Eligible projects include assessment and design of outdoor livestock confinement areas with a view to protecting riparian areas or critical habitat</li> <li>• Focus of engineering or technical design should on both design of new site and the decommissioning of the original site</li> </ul>
<b>Nutrient Recovery from Wastewater - 1702</b> Engineering or technical design work	<ul style="list-style-type: none"> <li>• Eligible projects include assessment and design of agricultural by-product wastewater treatment</li> <li>• Focus of engineering or technical design should on recovery of nutrients</li> </ul>
<b>Engineering or technical design/assessment - water and riparian-1102</b> Engineering or technical design by an accredited engineering consultant or a qualified professional in accordance with federal, provincial, and local government regulations and specifications	<p><b>Eligible costs:</b></p> <ul style="list-style-type: none"> <li>• Assessment and design of any riparian structures (i.e., culverts, dams, bridges, revetments, root wads, fencing, off-stream watering, bank stabilization planting)</li> <li>• Assessment and design of licensed water storage structures (e.g., dugouts, dams, reservoirs) associated with water licences with an agricultural water use purpose</li> <li>• Engineering design or technical assessment required by the Ministry to support an application for a water licence with an agricultural water use purpose (e.g., Environmental Flow Needs assessment, hydrogeological assessment).</li> </ul> <p><b>Ineligible items:</b></p> <ul style="list-style-type: none"> <li>• Construction services</li> </ul>



BMP Category Practice Code and Commodity	Eligible BMPs and Costs
<p><b>Methane (CH<sub>4</sub>) Emission Reduction - 3102</b></p> <p>Engineering design work or technical feasibility studies</p>	<ul style="list-style-type: none"> <li>• This practice code is designated as to be used when feasibility studies are required prior to the implementation of practice code 3101-1</li> <li>• This practice code will stand alone if project does not proceed for economic, technical or environmental reasons</li> </ul>
<p><b>Carbon Dioxide (C<sub>2</sub>O) Emission Reduction - 3309</b></p> <p>Engineering <i>or technical</i> design work or technical feasibility studies</p>	<ul style="list-style-type: none"> <li>• Option to utilize engineering or technical design in advance of 3303, 3304</li> <li>• This practice code will stand alone if project does not proceed for economic, technical or environmental reasons</li> </ul>
<p><b>Biogas: Feasibility Studies (80% to a maximum program payment of \$50K)</b></p>	
<p><b>Feasibility studies for the installation of biogas systems - 0205</b></p> <p>Consultative services to develop pre-feasibility, technical feasibility, or Engineering design work for on-farm biogas systems.</p> <p>Projects must either reduce agricultural carbon dioxide emissions or reduce the concentration of CO<sub>2</sub> in the atmosphere</p>	<ul style="list-style-type: none"> <li>• Eligible projects include: <ul style="list-style-type: none"> <li>• assessment through feasibility studies and design of biogas systems to be integrated into on-farm waste management systems</li> <li>• Engineering or technical design report and drawings to facilitate construction of biogas systems</li> <li>• Focus of engineering or technical design should be on biogas systems and associated required infrastructure. Recovery of nutrients may be included if it is required to meet regulated Nutrient Management Planning.</li> <li>• Estimated costs associated with development of studies or design must be submitted for review and approval</li> </ul> </li> </ul> <p><b>Ineligible items:</b></p> <ul style="list-style-type: none"> <li>• Feasibility studies should not include the costs and infrastructure for standalone manure storage systems</li> </ul>

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