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| **Project Name:** |  | **Date:** |  |
| **Engineer Name:** |  | **AK P.E. License No.:** |  |
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| This checklist is required for the construction of a new or modification of an existing public water system rain catchment source or change in use of a rain catchment source to a public water system source. If the project includes a water transmission main from the source, the Distribution - Piped Checklist (Checklist Number 5.0) should be completed for the transmission main. For treatment of rainwater catchment sources, use the Treatment - SW/GWUDISW Checklist (Checklist 6.0).  **Note:** When completing this checklist, please answer the question and also include where in the submittal detailed information is found for each submittal requirement. Please be as specific as possible (specify document name, page number, section number, paragraph, etc.). This will accelerate the review process. | | | |

| **Submittal Requirements** | ***Regulatory Reference*** |
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| 1. **Source Protection:** Do the drawings and specifications for construction of the catchment include roofing and piping materials, paint, gutter material, liner material, and first flush diverter details or alternate means of screening out debris? Discuss other source protection details in the submittal. | *18 AAC 80.205(a)(2)* |
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| 1. **Source Production:** Does the source production information include average rainfall, catchment area, and icing prevention? Is this the sole water source or will it be used to augment another water source? | *18 AAC 80.205(b)(9)* |
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| 1. **Raw Water Analysis:** For a new source which has been constructed, are results of raw water analyses included? For a proposed source, is the proposed raw water quality sampling plan included? | *18 AAC 80.205 (c)(2) Table B* |
| **Please note:** Raw water sample results for nitrate and nitrite must be analyzed separately for new public water system sources and samples need to be collected from the catchment and taken at a time indicative of typical water quality. In addition, the analyses of samples (Table B) must be completed by a State approved laboratory and the samples must be labeled with the public water system’s PWSID. The engineer should contact the appropriate DEC Drinking Water Program office if the public water system does not have a PWSID. | |
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| 1. **Pump and Pump Motor Information:** Do the specifications provided for the source pump include the pump and motor make, model, and pump curve? | *18 AAC 80.205(b)(9)* |
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| 1. **Service Pressure:** If the raw water source pump will also be used to meet distribution pressure and flow, do the engineering calculations show the pump is capable of maintaining at least 20 psi of service pressure at the highest service elevation or pressure zone of the distribution under peak demand flow conditions? | *18 AAC 80.205(a)(5)* |
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| 1. **Backflow/Cross-Connection Prevention:** If the rain water catchment also provides water for non-potable use, is an analysis submitted of cross-connection prevention between potable and non‑potable water? | *18 AAC 80.025* |
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| 1. **Sources of Contamination:** Does analysis of situations with the potential to contaminate the source include debris accumulation and overhanging trees, and fisheries, spawning, or nesting areas that could attract birds, etc? Does the site plan show the location or proposed location of the source, its protective radius regardless of property boundaries, and all potential sources of contamination within 500 feet of it? Has the submitting engineer identified situations needing a separation distance waiver? | *18 AAC 80.205(b)(3)* |
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| 1. **Location:** Is a completed Alaska Public Water System Locational Data Collection Form (Longitude/Latitude Form) included for each new source (taken at collection chamber)? The form can be found on our website at <http://dec.alaska.gov/media/10880/pws-locational-data-collection-form.pdf>. If the water collection chamber has not yet been installed, the form will be required for the submittal to request approval to operate the source. | *18 AAC 80.205(b)(4)*  *18 AAC 80.015(c)(1)(B)* |
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| 1. **Raw Water Collection Tank:** If the project includes adding or modifying the raw water collection tank, is the information in the storage checklist (Checklist No. 4.0) included as appropriate for this component? | *18 AAC 80.205(b)(9)* |
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