

6217: COASTAL NON-POINT POLLUTION CONTROL PROGRAM

◆ **5 YEAR IMPLEMENTATION PLAN (1999 – 2004)**

❖ **15 YEAR PROGRAM STRATEGY (1999 – 2014)**

➤ **MILESTONES**

□ **GOALS**

MISSING ELEMENTS	CORRECTIVE ACTIONS/ POTENTIAL FUNDING	DATE	ENFORCEABLE POLICIES AND MECHANISMS/ COMMENTS	ENFORCING AGENCIES
<p>AGRICULTURE</p> <p>Confined Animal Facilities (large and small)</p> <ul style="list-style-type: none"> • Animal waste management measures • Aspects of the nutrient management measures <p>□ <u>Short-term goal:</u> Reduce the amount of nutrients and pathogens originating from large and small confined animal facilities and entering the ground water and surface water by 60 percent by 2004 for Category I watersheds.</p> <p>□ <u>Long-term goal:</u> Reduce the amount of nutrients and pathogens originating from large and small confined animal facilities and entering the ground water and surface water by 90 percent by 2014. Prevent the introduction of additional nutrients and pathogens from newly constructed large and small confined animal facilities into the ground water and surface water.</p>	<ul style="list-style-type: none"> ◆ New and expanding facilities will include applicable MMs via CRM major siting permitting procedure (CRM staff). ◆ DEQ will produce a brochure with diagrams and explanations of best management practices that can be implemented to prevent nutrient and pathogen contamination from large and small confined animal facilities. The brochure will also clearly state CNMI and federal regulations and contacts for additional information (Funding: 319). ◆ Conduct an overflight of Saipan, Tinian and Rota to identify all confined animal facilities (Funding: 319). ◆ Conduct an inspection of each confined animal facility identified during the Saipan, Tinian, and Rota overflights. The inspection will determine which management measures they are currently employing and the types of problems they are encountering (DEQ and CRM enforcement staff). ◆ DEQ will produce a video that demonstrates how appropriate BMPs prevent NPS and protect coral reefs (Funding: 319). ◆ Demonstrate to the swine producers in the Marpo Watershed how to protect ground and surface water through the wise use of locally available materials to absorb animal wastes and transform a potential threat to the water supply into a valuable soil amendment by using bedding material generated by a chipper. (Funding: 319). ◆ Demonstrate the efficiency and safety benefits of pesticide chemical mixing stations to farmer by constructing mixing station and conducting workshops (Funding: NRCS grants, DEQ staff) ◆ The CNMI will create a constructed wetland in American Memorial Park that will demonstrate how constructed wetlands can be used to treat storm water runoff (Funding: 319). ◆ DEQ will revise IWDS regulations to provide size thresholds for applicability and list appropriate MMs. (Funding: DEQ staff). ◆ Produce brochures in Chamorro, Carolinian, Mandarin, and Tagalog that explains management measures that can be implemented by farmers to reduce the amount of nutrients from farms polluting ground water and surface water. (Funding: DEQ) ◆ DEQ will work with CRM to develop a permit tracking system. (Funding: CRM, DEQ staff) ◆ Require all new agriculture homesteads in Dugi/Gampapa/I Chenchon Watershed to follow the earthmoving and erosion control plans developed as part of the Division of Public Land's CRM permit application. (Funding: CRM, DEQ staff) ◆ Require all CRM permit applicants for homesteads to develop and implement earthmoving and erosion control plans for the entire homestead. (Funding: CRM, DEQ staff) 	<p>1999</p> <p>1999</p> <p>1999-2002</p> <p>1999</p> <p>1999</p> <p>1999-2000</p> <p>1999-2000</p> <p>1999-2000</p> <p>1999-2000</p> <p>2000-2001</p> <p>2000-ongoing</p> <p>2000-ongoing</p>	<p align="center"><u>ENFORCEABLE POLICIES AND MECHANISMS</u></p> <p><u>CRM-</u> is revising their regulations to include appropriate MMs. Until regulation changes are approved, CRM will continue to use its existing permitting authority to include MMs.</p> <p><u>DEQ-</u> IWDS regulations require new and expanding facilities to include appropriate MMs.</p> <p align="center"><u>COMMENTS</u></p> <p>CRM- with the approval of the CRM board, CRM can condition all major siting projects, minor projects in an APC or CAFO other projects that could have adverse impacts on the environment to include MMs.</p> <p>DEQ- has the authority to implement animal waste management measures and nutrient management measures using IWDS regulations. DEQ is also revising their IWDS regulations to strengthen enforceability.</p> <p>If zoning is restored in the CNMI, CRM will be able to direct small and large farms away from sensitive areas, and mitigate when there is a potential impact to the environment.</p> <p>The schedule for implementation of BMPs is as follows: Impaired watersheds will be addressed first, all other watersheds will be fully implemented by the completion date.</p> <p>➤ MILESTONE: Require owners and operators of large facilities to store facility wastewater and runoff from a 25 year 24 hour storm and manage solids. Owners & operators of small permitted facilities will be required to collect solids, reduce contaminant concentrations, reduce runoff and manage solids.</p> <p><u>Special Note:</u> CRM and DEQ will use the year 2000 census to reevaluate the need for the confined animal facilities MMs.</p>	<p>CRM DEQ</p>

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<p>AGRICULTURE</p>	<p>Confined Animal Facilities (large and small)</p> <ul style="list-style-type: none"> • Animal waste management measures • Aspects of the nutrient management measures 	<ul style="list-style-type: none"> ◆ Develop guidance sheets for local-appropriate management measures (adapted from the 6217 'g' guidance document) that can be implemented to prevent polluted runoff. ◆ Determine the CNMI 25 yr. 24 hr. storm event (DEQ 319& CRM 6217 funds) ◆ Require all owners and operators of large and small confined animal facilities permitted through DEQ and CRM to prepare a Conservation Plan, which includes a nutrient management plan, with the assistance of the Natural Resources Conservation Service. ◆ In coordination with EPA's efforts to establish numeric criteria for nutrients, as stated in the Clean Water Action Plan, conduct a thorough analysis of nutrient levels in runoff from confined animal facilities, streams, ground water, and marine water. Determine effect of nutrient levels on the environment and public health. Revise nutrient criteria in CNMI Water Quality Standards if deemed necessary. (Funding: EPA grant) ◆ Encourage all farmers to prepare a Conservation Plan that includes a nutrient management plan, with the assistance of the Natural Resources Conservation Service. Require all confined animal facilities permitted through DEQ and CRM to prepare a nutrient management plan. ❖ Evaluate the success of the plan and if necessary, add or modify MMs to improve runoff from confined animal facilities (Funding: DEQ, CRM, and Watershed group staff) ❖ Conduct inspections (including water quality sampling) of all permitted confined animal facilities to ensure compliance with nutrient management plans (Funding: DEQ and CRM enforcement staff). ❖ Evaluate the success of the plan and if necessary, add or modify MMs to improve nutrient management plans (Funding: DEQ, CRM, and Watershed group staff). ❖ Conduct a follow-up study to FY03 project listed above to determine if our nutrient reduction goal has been met. (Funding: EPA grant) 	<p>2000-2003</p> <p>2000-2002</p> <p>2000-ongoing</p> <p>2003</p> <p>2004</p> <p>2004 2009 2014</p> <p>2006 2008 2010 2012</p> <p>2007 2009 2011 2013</p> <p>2013</p>	<p>DEQ CRM</p>