

JMLord
incorporated
scientists and engineers



Dairy Issue.

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Ag^{the}Inform^{er}

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“TIMES ARE TIGHT” seems to be the new slogan for this year. However, cows still need to be milked, crops need to be harvested and requirements for RWQCB Dairy General Order still need to be addressed. At JMLord, Inc., we want to do our part to help you meet your regulatory needs and limit your burden as much as possible. In this issue of the **AgInform^{er}**, we have briefly highlighted some items you should consider working on over the next couple of months to meet the looming July 1, 2010 deadline. This year, the completion of the required items cannot be completed within a month's time. Significantly more time will be needed to calculate, review and address the requirements of the July 1, 2010 deadline for the Dairy General Order. We would like to offer our expertise to help you meet these requirements.

WHAT WAS YOUR NUMBER? The completion of the Nutrient Management Plan (NMP) came with a little number, which could dictate a dairy's future. If your number was above 1.65, then you have some more work to do to come into compliance with the nitrogen balance requirements of the Dairy General Order. This may mean buying more land, securing additional wastewater agreements, extending pipelines to access for land for wastewater application or potentially reducing herd size. If you are between 1.4 and 1.65, then you may be able to make some minor management changes to come into compliance, such as improving crop yields, growing a third crop or exporting more manure. For those lucky enough to have a nitrogen balance below 1.4, you can focus solely on the next steps of the Order.

Please contact Betsy Gerwig or Louie Oliveira for more information about your options.

THE NEXT HURDLE... The next step to complying with the Dairy General Order is to complete the Waste Management Plan (WMP). This will be a very time consuming effort for both you and your dairy team. Did you know that the FEMA Flood Plain Maps have been updated over the past 5 years in the San Joaquin Valley? The updates dramatically change the 100 yr flood plain boundaries. Did you also know that the “Proposal for Modification and Improvement” for the WMP includes the submission of engineering design and reports? We have gone beyond the use of check lists to find ways to improve the facility. It is recommended to contact your dairy team as soon as possible to begin addressing these issues. See details on next page...

WHAT NEEDS TO BE COMPLETED FOR THE JULY 1, 2010 RWQCB DEADLINE?

1. Annual Report including Annual Dairy Facility Assessment with modifications implemented to date.
Refer to the MPR in the Dairy General Order for more information.
 - The following items will be included within the Annual Report (partial list).
 - Sampling analysis summary.
 - Waste application records by field
 - Annual monitoring well report (if applicable)
 - Discharge samples & reports (if applicable)
 - Groundwater well analysis
 - Crop information by field
 - Summation of nutrients produced, applied & exported
2. Nutrient Management Plan– Retrofit Plan to improve nitrogen balance with schedule.
 - Provide status update on items defined in the Retrofit Plan .
6. Waste Management Plan (Attachment B) - Additional Documentation Required
 - Item I.F.1.B: Dairy Map Update {Pg. B2, 27, IS-25}
 - Item I.F.2.B: Field Map Update {Pg. B3, 27, IS-25} - Should have been updated with NMP completion.
 - Item II: Storage Capacity {Pg. 28, IS-25, B3-B5}
 - Engineered report documenting storage capacity. May require the storage pond to be emptied and measured.
*** Must be certified by Registered Professional.**
 - Item III: Flood Protection {Pg. 28, IS-25, B5– BC}
 - Show facility is outside flood zone or develop engineering report documenting adequate flood protection.
 - County flood zoning requirements may also apply to any analysis or engineering reports.
*** Engineering report must be certified by Registered Professional.**
 - Item IV: Production Area Design and Construction {Pg. 28, IS-25, B6}
 - Show proper drainage or collection of all runoff from production area.
 - Develop plan/schedule to make changes to fix any deficiencies.
 - Item VI: Backflow Certification of NO cross Connections {Pg. 28, IS-10, IS-25, B8}
 - Verify corrective actions have been completed and Complete Part V of Back Flow documentation form.
*** Must be completed by certified specialist.**
3. Waste Management Plan with Retrofitting Plan and Schedule.
 - Retrofitting Plan and Schedule {Pg. 27, IS-25}
 - Physical retrofits or modifications needed to improve storage capacity, flood protection, or design of production area (i.e.: design/construction of new pond, berms for flood protection, grading for drainage, etc.)
 - Schedule for installation of improvements
*** Engineering reports and design schematics for improvements or changes must be submitted with the Retrofitting Plan and Schedule and must be certified by Registered Professional.**



On a lighter note:

What do you call a sheep with no legs? A cloud.
 What do you get if you cross a chicken with a cement mixer? A brick layer.
 What's green and loud? A frog horn.

Check out our website for more information about **Routine Activities and Sampling Requirements.**
www.jmlordinc.com