

## **Comment 1 for Analysis of Dairy and Livestock Methane Emissions Reduction Progress (2020analysis-ws) - 1st Workshop.**

First Name: Wesley

Last Name: Ratzlaff

Email Address: Wesley.Ratzlaff@dgs.ca.gov

Affiliation: CA Dept. of General Services

Subject: Comments on CARB Webinar

Comment:

There was mention in the webinar if there are Dairy Farms that could be grounds for testing of food additives on GHG emissions; I have had discussions within the Procurement Division of DGS as to a pilot program of implementing feed additives to Dairy Farms that are operated by the California Department of Corrections and Rehabilitation (CDCR). As an employee of the Environmentally Preferable Purchasing (EPP) we have been tasked with implementing procurements so as to reduce GHG emissions to meet N-19-19 expectations and in doing so have collaboratively worked with CalRecycle on purchase of compostable paper products (food containers). I feel that we too can collaboratively work with CARB and CDCR on a pilot program with exemptions for purchasing commercially available seaweed additives (some products available in Australia, Great Britain, and China) for the testing of reductions of Methane in Enteric fermentation and provide further data to UC Davis in their research endeavors.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2020-05-21 13:50:58

No Duplicates.

## **Comment 2 for Analysis of Dairy and Livestock Methane Emissions Reduction Progress (2020analysis-ws) - 1st Workshop.**

First Name: Wesley

Last Name: Ratzlaff

Email Address: Wesley.Ratzlaff@dgs.ca.gov

Affiliation: CA Dept. of General Services

Subject: Comments on CARB Webinar

Comment:

In the webinar the main obstacle that has been pointed out is that these food additives are not commercially available; I have done quite a bit of research on the global market and while there are not manufacturers available in the states there are some products commercially available in Australia, Great Britain and China that contain species of seaweed as additives in their feeds. Could there be a possibility of exemption testing of these before USDA approval?

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2020-05-21 13:54:08

No Duplicates.

### **Comment 3 for Analysis of Dairy and Livestock Methane Emissions Reduction Progress (2020analysis-ws) - 1st Workshop.**

First Name: David  
Last Name: Bezanson  
Email Address: bezanpsy3506@hotmail.com  
Affiliation:

Subject: Methane emissions from livestock  
Comment:

The most cost-effective approach is to replace livestock farming with crop farming. Meat is not essential for us to maintain health. In fact, a plant-based diet is healthier. Each of the nutrients from meat are attainable from crops. The livestock industry has a much higher environmental impact than raising crops. It requires ten to 20 times more water than crop farming, per pound produced. It requires ten times more land than crops to produce the same amount of nutrients. It requires more than ten times more deforestation per calorie produced. Raising livestock presents risks of zoonotic infections, e.g., COVID 19.

The kind of crop farming that has the lowest environmental impact is no-till organic agroecology. Combustion-powered farm equipment should be replaced with electric equipment. This approach to raising our food supply is the most sustainable. It does not require energy-intensive equipment to capture and store GHGs, e.g., methane.

During a pandemic, severe recession, and accelerating climate change, it is best to conserve our clean natural resources and minimize sources of GHGs.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2020-05-23 16:02:34

No Duplicates.

**Comment 4 for Analysis of Dairy and Livestock Methane Emissions Reduction Progress  
(2020analysis-ws) - 1st Workshop.**

First Name: Steve  
Last Name: McCorkle  
Email Address: mccorkle@agwastesolutions.com  
Affiliation: Ag Waste Solutions (AWS)

Subject: Comments from May 21 2020 Webinar  
Comment:

Please find attached our comment letter from subject Webinar.

We appreciate the opportunity to submit our comments and feedback.

Steve McCorkle

Attachment: [www.arb.ca.gov/lists/com-attach/4-2020analysis-ws-UmBRZ1FiWToFLgEx.pdf](http://www.arb.ca.gov/lists/com-attach/4-2020analysis-ws-UmBRZ1FiWToFLgEx.pdf)

Original File Name: 2020-06-04 CARB Dairy Methane Emission Reduction via Enteric Comment Letter SM  
FINAL.pdf

Date and Time Comment Was Submitted: 2020-06-04 19:00:51

No Duplicates.

## **Comment 5 for Analysis of Dairy and Livestock Methane Emissions Reduction Progress (2020analysis-ws) - 1st Workshop.**

First Name: Elisavet

Last Name: Zoupanidou

Email Address: ezoupanidou@mootral.com

Affiliation:

Subject: Comments in Response to the CARB Webinar on Analysis of Dairy and Livestock Methane Emissions  
Comment:

Comments in Response to the CARB Webinar on Analysis of Dairy and Livestock Methane Emissions Reduction Progress.

On behalf of Mootral, we appreciate the opportunity to comment and provide information on the material and issues presented by Dan Weller on the 21st of May. We acknowledge the importance of Short-Lived Climate Pollutant (SLCP) Reduction Strategy and the urgency to achieve 40% reductions in methane from dairy and livestock manure management by 2030.

Mootral is seeking to contribute to the Dairy and Livestock Greenhouse Gas Emissions Working Group (Working Group). Our goal is to improve knowledge of enteric fermentation emissions, including short and long-term impacts potential reduction measures could have on dairy product quality and consumer acceptance, animal health and welfare and dairy economics.

CARB has evaluated information on potentially effective feed additives in enteric methane reduction. Is the scope of the evaluation focusing only on feed additives or you are considering the feed strategies such as the feed supplements with effective results? Mootral, for instance, has shown effective results in dairy and beef cattle.

Example of published studies:

<https://academic.oup.com/tas/article/3/4/1383/5550562>

[https://mootral.s3.amazonaws.com/Publications/Mootral\\_Vrancken\\_H\\_2019.pdf](https://mootral.s3.amazonaws.com/Publications/Mootral_Vrancken_H_2019.pdf)

<https://www.mootral.com/science/>

Moreover, Mootral has developed a carbon methodology under the VCS program approved by VERRA for quantifying and monitoring methane emissions from ruminants. This methodology has been developed in an effort to drive finance into agricultural projects that provide an immediate, permanent and measurable impact on mitigating climate change at a local level. Being able to quantify enteric methane emission reductions from livestock projects represents an important step towards mitigating climate change, delivering long-term sustainable development and many other benefits that further the UN Sustainable Development Goals.

Currently, ARB has adopted the Compliance Offset Protocol Livestock Projects that provides methods to quantify and report greenhouse gas (GHG) emission reductions associated with the installation of a biogas control systems. Is ARB considering the adoption of a compliance offset protocol for the quantification and report of enteric methane reductions? How material is the process and results, including the carbon price, of voluntary carbon offset projects reducing enteric methane?

Thank you for considering these comments. We look forward to providing more comments on the draft analysis during the public consultation and engaging with staff and stakeholders to contribute to the SLCP strategy.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2020-06-04 23:49:10

No Duplicates.

**Comment 6 for Analysis of Dairy and Livestock Methane Emissions Reduction Progress  
(2020analysis-ws) - 1st Workshop.**

First Name: Michael

Last Name: Boccadoro

Email Address: lkistner@westcoastadvisors.com

Affiliation: Dairy Cares

Subject: Dairy Cares Comments on Methane Emissions Target from Dairy and  
Comment:

Please see attached Dairy Cares Comments on Progress Toward  
Achieving Methane Emissions Target from Dairy and Livestock Sector

Attachment: [www.arb.ca.gov/lists/com-attach/6-2020analysis-ws-UjZSNVE5VXQKdVIN.pdf](http://www.arb.ca.gov/lists/com-attach/6-2020analysis-ws-UjZSNVE5VXQKdVIN.pdf)

Original File Name: Dairy Cares comments on CARB Methane Emissions Target-FINAL.pdf

Date and Time Comment Was Submitted: 2020-06-05 13:14:10

No Duplicates.

**Comment 7 for Analysis of Dairy and Livestock Methane Emissions Reduction Progress  
(2020analysis-ws) - 1st Workshop.**

First Name: Colby  
Last Name: Morrow  
Email Address: clmorrow@socalgas.com  
Affiliation: SoCalGas Company

Subject: SoCalGas comments on 5.21.20 Analysis of Dairy & Livestock Reduction Progress  
Comment:

Please accept the attached comment letter from SoCalGas on the  
5.21.2020 webinar regarding Analysis of Dairy and Livestock Methane  
Emissions Reductions Progress. Thank you very much - Colby Morrow

Attachment: [www.arb.ca.gov/lists/com-attach/7-2020analysis-ws-BjRXYVd4AmcGLgA1.pdf](http://www.arb.ca.gov/lists/com-attach/7-2020analysis-ws-BjRXYVd4AmcGLgA1.pdf)

Original File Name: 20.6.5 SCG letter CARB 5.21.20 webinar.pdf

Date and Time Comment Was Submitted: 2020-06-05 16:29:22

No Duplicates.



**There are no comments posted to Analysis of Dairy and Livestock Methane Emissions Reduction Progress (2020analysis-ws) that were presented during the Workshop at this time.**