

# Monthly Progress Report

February 15, 2017

To: Eric Winiecki, U.S. Environmental Protection Agency, Region 10

From: Mark Larsen and Nicole LaFranchise, Anchor QEA, LLC

cc: Rene Fuentes and Jennifer MacDonald, EPA;  
Henry Bosma, Liberty Dairy, LLC;  
Dan DeRuyter, George DeRuyter and Son Dairy, LLC;  
Adam Dolsen, Cow Palace, LLC;  
Lori Terry Gregory, Foster Pepper PLLC;  
Brendan V. Monahan, Stokes Lawrence, P.S.;  
Patrick W. Ryan, Perkins Coie LLP

**Re: Docket No. SDWA-10-2013-0080; Yakima Valley Dairies  
January 2017 Monthly Progress Report**

This memorandum provides the monthly progress report for activities performed in compliance with Docket No. SDWA-10-2013-0080 for the period January 11, 2017, through February 10, 2017. This progress report is submitted on behalf of the Yakima Valley Dairies, including 1) Cow Palace Dairy, L.L.C.; 2) D & A Dairy, LLC (also known as D and A Dairy L.L.C.), George DeRuyter & Son Dairy, L.L.C., and George & Margaret, L.L.C.; and 3) Liberty Dairy LLC and its associated dairy facility H&S Bosma Dairy.

## 1. Major Accomplishments and Issues

- Construction activities continued for the lining of the NW Catch Basin at the Cow Palace Dairy by the selected contractor (Hilmes Construction). Water and Environmental Technologies (WET) continues to provide regular progress updates to EPA during completion of that work.
- Anchor QEA submitted the final Modified Lagoon Work Plans for Liberty Dairy and D&A/DeRuyter Dairies to EPA on January 3, 2017.
- Anchor QEA submitted revised Lagoon Pre-design Data Collection QAPPs for Liberty Dairy and D&A/DeRuyter Dairies to EPA on January 27, 2017.
- Anchor QEA submitted the Revised Draft 2015 Annual Report to EPA on January 31, 2017.

## 2. Other Actions Taken to Comply with the AOC

- Anchor QEA received EPA comments on the draft Lagoon Pre-design Data Collection QAPPs (Letter 140) on February 2, 2017, and addressed those comments and resubmitted to EPA on February 2, 2017.
- Agrimanagement is working with the Dairies to repair/replace/upgrade damaged irrigation moisture sensors prior to the 2017 irrigation season. Per EPA Letter 133 (dated 1/3/17), Specific Comment 6, the status of the data loggers by category is as follows:

- Loggers damaged by implements or other: ~15
- Loggers intermittently working that will eventually be upgraded: ~25
- Loggers not working that are being upgraded: ~30
- Loggers already upgraded: ~12

The upgrade involves updating the motherboard, which includes code division multiple access (CDMA) transmission. The Dairies installed high visibility flagging at each sensor station to help avoid damaging or destroying the sensors in the future. Additional administrative and engineering controls (e.g., more frequent servicing, installing protective barrier, etc.) are currently under discussion, and will be described in future progress reports.

### 3. Work in Progress

Table 1 outlines the updated deliverable schedule.

**Table 1**  
**Deliverable Schedule**

<b>Deliverable Name or Event</b>	<b>Date of Most Recent EPA Comment Letter (if any)</b>	<b>Current Due Date (if any) Established by Consent Order or Date Indicated in EPA Comment Letter</b>	<b>Anticipated Start/End Date</b>	<b>On Track to meet Due Date, or Start or End Date? (yes/no; if no explain in item 4)</b>
2013 Annual Report (Revised)	5/5/2016 (Letter 121)	2/27/2016 (Letters 104, 116, and 128)	Complete	Submitted to EPA on 11/18/2016
2014 Annual Report (Revised)	5/5/2016 (Letter 121)	4/1/2016 (Letters 109, 116, and 128)	Complete	Submitted to EPA on 11/18/2016
2015 Annual Report (Revised)	1/3/2017 (Letter 133)	1/31/2017 (Letter 133)	Complete	Submitted to EPA on 1/31/2017
2016 Annual Report	--	3/1/2017	3/1/2017	Yes
Monthly Progress Report	--	15th of the Month (AOC)	15th of the Month	Yes
Updated Groundwater Monitoring QAPP (Draft)	10/12/2016 (Letter 129)	11/9/2016 (Letter 129)	Complete	Revised draft submitted to EPA on 11/9/2016
3rd Quarter Groundwater Monitoring Report (Draft)	--	11/29/2016 (60 days following data collection)	Complete	Submitted to EPA on 11/30/2016

<b>Deliverable Name or Event</b>	<b>Date of Most Recent EPA Comment Letter (if any)</b>	<b>Current Due Date (if any) Established by Consent Order or Date Indicated in EPA Comment Letter</b>	<b>Anticipated Start/End Date</b>	<b>On Track to meet Due Date, or Start or End Date? (yes/no; if no explain in item 4)</b>
4th Quarter Groundwater Monitoring Report (Draft)	--	2/14/2017 (60 days following data collection)	2/14/2017	Yes
Liberty and H&S Bosma Dairies Lagoon Pre-Design Data Collection QAPP (Revised)	2/2/2017 (Letter 140)	3/2/2017 (Letter 140)	3/2/2017	Yes
George DeRuyter & Son and D&A Dairies Lagoon Pre-Design Data Collection QAPP (Revised)	2/2/2017 (Letter 140)	3/2/2017 (Letter 140)	3/2/2017	Yes
2015 Pre-Plant Dairy Application Field Report(s)	May 9, 2016 (Letter 123)	June 7, 2016 (Letter 123)	Complete	Submitted to EPA on 8/11/2016
2015 Post-Harvest Dairy Application Field Report(s)	May 9, 2016 (Letter 123)	June 7, 2016 (Letter 123)	Complete	Submitted to EPA on 8/11/2016
2016 Pre-Plant Dairy Application Field Report(s)	--	July 19, 2016 (60 days following last day of sample)	Complete	Submitted to EPA on 8/14/2016
2016 Post-Harvest Dairy Application Field Reports	--	1/3/2017 (60 days following data collection)	Complete	Submitted to EPA on 1/3/2017

#### **4. Encountered Issues and Anticipated Actions**

This section summarizes issues encountered and anticipated actions.

- As discussed with EPA, there are several damaged irrigation sensors in the field monitoring program. Agrimanagement is in the process of replacing these damaged sensors prior to the 2017 irrigation season. Progress has been slower than expected due to inclement weather conditions. Digging has currently halted, but will continue once the ground is thawed (currently there is a 12- to 18-inch frozen layer over the ground surface).

#### **5. List of Completed AOC Work**

Table 2 lists work that is completed and approved by EPA.

**Table 2**  
**Work Product Status Update**

Work Product		Date	Status
<b>PROVISION OF WATER (III.D.)</b>			
	Residential Well Sampling QAPP (III.D.2.)	4/26/2013	APPROVED
	Residential Well Sampling Report	12/20/2013	APPROVED
<b>GROUNDWATER MONITORING (III.E.)</b>			
	Groundwater Monitoring Well Installation Report (III.E.2.)	10/06/2014	APPROVED
	Data Usability Report (III.A.3.e.(1)) <sup>1</sup>		
	Third Quarter 2013	10/14/2015	APPROVED
	Fourth Quarter 2013	10/14/2015	APPROVED
	First Quarter 2014	10/14/2015	APPROVED
	Second Quarter 2014	10/14/2015	APPROVED
	Third Quarter 2014	10/14/2015	APPROVED
	Fourth Quarter 2014	5/21/2015	APPROVED
	First Quarter 2015	5/21/2015	APPROVED
	Second Quarter 2015	10/14/2015	APPROVED
	Quarterly Groundwater Monitoring Data Report (III.E.3.)		
	Third Quarter 2013	1/14/2016	APPROVED
	Fourth Quarter 2013	1/14/2016	APPROVED
	First Quarter 2014	1/14/2016	APPROVED
	Second Quarter 2014	9/4/2015	APPROVED
	Third Quarter 2014	1/14/2016	APPROVED
	Fourth Quarter 2014	1/14/2016	APPROVED
	First Quarter 2015	1/14/2016	APPROVED
	Second Quarter 2015	1/14/2016	APPROVED
	Third Quarter 2015	12/14/2015	APPROVED
	Fourth Quarter 2015	3/31/2016	APPROVED
	QAPP Addendum No. 1	1/13/2017	APPROVED
<b>IMMEDIATE SOURCE CONTROL ACTIONS (III.F.)</b>			
	Dairy Facility Application Field Management Plan(s) (III.F.1.)	11/18/2013	APPROVED; Revised DFAFMPs submitted to EPA on 5/31/2016
	2013 Post-Harvest Dairy Application Field Report(s)	8/29/2015	APPROVED
	2014 Pre-Plant Dairy Application Field Report(s)	8/13/2015	APPROVED
	2014 Post-Harvest Dairy Application Field Report(s)	8/14/2015	APPROVED
	Irrigation Water Management Plan(s) (III.F.2.)	8/15/2014	APPROVED
	Lagoon Review Report(s) (III.F.6.)	8/22/2013	APPROVED

<b>Work Product</b>		<b>Date</b>	<b>Status</b>
	Lagoon Evaluation Plans (III.F.6)	2/6/2015	NOT REQUIRED; Dairies elected to line lagoons
	Cow Palace Lagoon Work Plan (III.F.6)	3/11/2016	APPROVED
	Cow Palace Lagoon Quality Assurance Project Plan (III.F.6)	3/11/2016	APPROVED
	Cow Palace NW Catch Basin 100% Design (III.F.6)	6/20/2016	APPROVED
	Liberty and H&S Bosma Dairies Modified Lagoon Work Plan (III.F.6)	11/10/2016 and 1/3/2017	APPROVED
	George DeRuyter & Son and D&A Dairies Lagoon Work Plan (III.F.6)	11/10/2016 and 1/3/2017	APPROVED
<b>REPORTING (III.K.)</b>			
	Monthly Progress Reports (III.K.1.)	15th of the Following Month	Current through January 15, 2017
	Annual Reports (III.K.2.)		

Note:

1. Following Second Quarter 2015, Data Usability Reports are no longer required as separate deliverables.