

# Monthly Progress Report

September 15, 2017

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cc: Rene Fuentes and Jennifer MacDonald, U.S. Environmental Protection Agency, Region 10  
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**Re: Docket No. SDWA-10-2013-0080; Yakima Valley Dairies  
August 2017 Monthly Progress Report**

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

## 1. Major Accomplishments and Issues

- The lagoon lining project for Cow Palace Lagoon No. 2 will be implemented by the selected contractor (Hilmes Construction, Inc.) following final permitting approvals. Physical construction is expected to begin during September. Additional updates will be provided directly to the U.S. Environmental Protection Agency (EPA) by Water & Environmental Technologies.
- Lagoon lining projects for Liberty/H&S Bosma Dairies and George DeRuyter & Son/D&A Dairies are proceeding in accordance with the anticipated schedule and approved permits. Construction work began August 21 at Liberty Dairy Consolidated Lagoon No. 15. Work conducted to date includes filling, fine grading, trenching, and leak detection installation. Liquid and solid manure has been removed from D&A Dairy Consolidated Lagoon No. 3 with rough grading almost complete. Finish grading and leak detection system installation are expected to begin at D&A Dairy in late September. Both sets of lagoons (Liberty and D&A) are expected to be completed prior to the end of October.
- The First Quarter Groundwater Monitoring Data Report was revised in response to comments received from EPA (EPA Letter 148) and resubmitted on June 22, 2017. EPA comments were

received on that revised draft (EPA Letter 154), and the revised report was submitted on August 22, 2017.

- Anchor QEA is working with Liberty/H&S Bosma Dairies and George DeRuyter & Son/D&A Dairies to identify the lagoons to be lined at each dairy during 2018, consistent with the existing approved Lagoon Work Plans.
- WET is working with Cow Palace Dairy to identify the plans and schedule for lagoon lining activities in 2018.

## **2. Other Actions Taken to Comply with the Administrative Order on Consent**

The revised 100% lagoon lining design documents for Liberty/H&S Bosma Dairies and George DeRuyter & Son/D&A Dairies were submitted to EPA on August 23, 2017, consistent with EPA approvals as contained in Letters 155 and 156.

Anchor QEA provided an email notification to EPA on August 18, 2017, for third-quarter groundwater monitoring activities and for fall (post-harvest) application field sampling activities

The Final 2017 Pre-Plant Dairy Application Field Reports for Cow Palace Dairy, Liberty/H&S Bosma Dairies, and George DeRuyter & Son/D&A Dairies (approved by EPA on August 1, 2017; EPA Letter 157) were submitted to EPA on August 18, 2017.

## **3. Work in Progress**

Table 1 outlines the updated deliverable schedule.

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

No new issues were encountered.

## **5. List of Completed Administrative Order on Consent Work**

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

**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 AOC/Date Indicated in EPA Comment Letter</b>	<b>Anticipated Start/End Date</b>	<b>On Track to Meet Due Date/Start or End Date? (Yes/No; If No, Explain in Item 4)</b>
<b>GROUNDWATER MONITORING (III.E)</b>				
First Quarter 2017 Quarterly Groundwater Monitoring Data Report (Revised)	7/25/2017	8/22/2017 (Revised per EPA Letter 154)	Complete	Submitted to EPA on 8/22/2017
Second Quarter 2017 Quarterly Groundwater Monitoring Data Report (Draft)	--	--	Complete	Submitted to EPA on 08/07/2017
<b>REPORTING (III.K)</b>				
Monthly Progress Report	--	15th of each month (AOC)	15th of each month	Yes
2013 Annual Report (Revised)	5/5/2016 (EPA Letter 121)	2/27/2016 (EPA Letters 104, 116, and 128)	Complete	Submitted to EPA on 11/18/2016
2014 Annual Report (Revised)	5/5/2016 (EPA Letter 121)	4/1/2016 (EPA Letters 109, 116, and 128)	Complete	Submitted to EPA on 11/18/2016
2015 Annual Report (Revised)	1/3/2017 (EPA Letter 133)	1/31/2017 (EPA Letter 133)	Complete	Submitted to EPA on 1/31/2017
2016 Annual Report	--	3/1/2017	Complete	Submitted to EPA on 3/1/2017

Notes:

AOC: Administrative Order on Consent

EPA: U.S. Environmental Protection Agency

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

<b>Work Product</b>	<b>Submittal Date</b>	<b>Status</b>
<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
First Quarter 2016	5/31/2016	APPROVED
Second Quarter 2016	9/6/2016	APPROVED
Third Quarter 2016	3/16/2017	APPROVED
QAPP Addendum No. 1	1/13/2017	APPROVED
Fourth Quarter 2016	5/26/2017	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 Reports	8/29/2015	APPROVED
2014 Pre-Plant Dairy Application Field Reports	8/13/2015	APPROVED
2014 Post-Harvest Dairy Application Field Reports	8/14/2015	APPROVED

<b>Work Product</b>	<b>Submittal Date</b>	<b>Status</b>
2015 Pre-Plant Dairy Application Field Reports	3/27/2017	APPROVED
2015 Post-Harvest Dairy Application Field Reports	3/27/2017	APPROVED
2016 Pre-Plant Dairy Application Field Reports	3/27/2017	APPROVED
2016 Post-Harvest Dairy Application Field Reports	3/27/2017	APPROVED
2017 Pre-Plant Dairy Application Field Reports	7/26/2017	APPROVED
Irrigation Water Management Plan(s) (III.F.2)	8/15/2014	APPROVED
Lagoon Review Report(s) (III.F.6)	8/22/2013	APPROVED
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 QAPP (III.F.6)	3/11/2016	APPROVED
Cow Palace NW Catch Basin 100% Design (III.F.6)	6/20/2016	APPROVED
Liberty/H&S Bosma Dairies Modified Lagoon Work Plan (III.F.6)	11/10/2016 and 1/3/2017	APPROVED
Final Basis of Design Report, Liberty Dairy Consolidated Lagoon No. 15, 100% Design	08/23/2017	APPROVED
George DeRuyter & Son/D&A Dairies Lagoon Work Plan (III.F.6)	11/10/2016 and 1/3/2017	APPROVED
Final Basis of Design Report, D&A Dairy Consolidated Lagoon No. 3, 100% Design	08/23/2017	APPROVED
Liberty/H&S Bosma Dairies Lagoon Pre-Design Data Collection QAPP (III.F.6)	2/2/2017	APPROVED
George DeRuyter & Son/D & A Dairies Lagoon Pre-Design Data Collection QAPP (III.F.6)	2/2/2017	APPROVED
<b>REPORTING (III.K)</b>		
Monthly Progress Reports (III.K.1)	15th of the following month	Current through August 15, 2017
Health and Safety Plan	9/13/2016	Current version <sup>2</sup>

Notes:

1. Following the second quarter of 2015, Data Usability Reports are no longer required as separate deliverables.
2. This is the current version of the project Health and Safety Plan. EPA does not provide formal review and approval of the Health and Safety Plan, though it is provided for use. The Health and Safety Plan will be updated periodically if applicable to address additional work or field activities.

Dairies: Yakima Valley Dairies

DFAFMP: Dairy Facility Application Field Management Plan

EPA: U.S. Environmental Protection Agency

QAPP: Quality Assurance Project Plan