



# INLAND EARTH SCIENCES

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October 15, 2014

Project 14-07YVD

Mr. Eric Winiiecki  
EPA Project Coordinator  
U.S. Environmental Protection Agency, Region 10  
1200 Sixth Avenue, Suite 900  
Seattle, WA 98101

**SUBJECT: DOCKET NO. SDWA-10-2013-0080, Yakima Valley Dairies**  
September 2014 Monthly Progress Report

Dear Mr. Winiiecki:

Please find attached the Yakima Valley Dairies Monthly Progress Report for the period September 11 to October 10, 2014, submitted on behalf of: (1) Cow Palace, LLC; (2) D & A Dairy, LLC (also known as D&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. If you have any questions or comments, please do not hesitate to call. Thank you.

Very Truly Yours,

INLAND EARTH SCIENCES CORPORATION

Kevin M. Freeman  
YVD Project Coordinator  
kfreeman@inlandearth.com | (509) 981-4747 Direct

Attachments:

Monthly Progress Report, September 11 to October 10, 2014

Copies:

Adam Dolsen, Cow Palace LLC  
Dan DeRuyter, George DeRuyter & Son Dairy LLC  
Henry Bosma, Liberty Dairy LLC  
Rene Fuentes, EPA  
Jennifer MacDonald, EPA  
Patrick W. Ryan, Perkins Coie LLP  
Brendan V. Monahan, Stokes Lawrence Velikanje Moore & Shore

**YAKIMA VALLEY DAIRIES (YVD)**

**Docket No. SDWA-10-2013-0080**

**Monthly Progress Report [per Consent Order (CO) Statement of Work (SOW) III.K.1]**

**Period: September 11 to October 10, 2014**

<b>Task Number</b>	<b>Task Title</b>	<b>Actions Completed During Reporting Period</b>	<b>Work Planned for Next 60 days</b>	<b>Problems Encountered/Anticipated and Solutions Developed/ Implemented</b>
<b>GENERAL TASKS</b>				
1	Identify Project Coordinator (Consent Order 16. b.) and Contractor (notification of subsequent contractors must be provided to EPA 20 days prior to commencement of Work) (Consent Order 16.a.)	<b>TASK COMPLETE</b>		
4	Notify EPA regarding interest in participating in the public involvement	<b>TASK COMPLETE</b>		
<b>PROVISION OF WATER (III.D.)</b>				
5	Submit Residential Well Sampling QAPP (III.D.2.)	<b>TASK COMPLETE</b>		
6	Test each residential drinking water well within the Dairy Facilities boundary and within one mile downgradient of the Dairy Facilities (III.D.3.)	<b>TASK COMPLETE</b>		
7	Provide residents results of Hach test strip (III.D.4.)	<b>TASK COMPLETE</b>		
8	Provide preliminary results of laboratory analysis of residential drinking water well samples to EPA (III.D.4.)	<b>TASK COMPLETE</b>		
9	Provide validated laboratory analytical results to each resident and to EPA	<b>TASK COMPLETE</b>		
10	Provide reverse osmosis treatment system (or other EPA approved alternative water supply) to each owner/occupant that accepts offer for alternative water (III.D.5)	<b>TASK COMPLETE</b>		
11	Submit Residential Well Sampling Report	<b>TASK COMPLETE</b>		

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<b>GROUNDWATER MONITORING (III.E.)</b>				
12	Submit Groundwater Monitoring QAPP (III.E.1.)	Completed Third Quarter 2014 sampling event on September 24, 2014 .	Prepare for Fourth Quarter 2014 sampling event.	
13	Submit Groundwater Monitoring Well Installation Report (III.E.2.)	Received conditional approval for Report from EPA on September 4, 2014.	Submit Final Report addressing EPA comments by October 19, 2014.	Final Report addressing EPA comments was to be submitted on September 19, 2014; report production was delayed due to a error in file reproduction. Document is currently in production.
14	Report validated groundwater nitrate analytical results (III.A.3.e.(1))	Certified Analytical Reports for Third Quarter (3Q) 2014 event were received from the laboratory on October 9, 2014.	Prepare and submit 3Q3014 Data Usability Reports to EPA by November 9, 2014. Revise 4Q2013, 1Q2014, and 2Q2014 Data Usability Reports based on EPA comments.	
15	Quarterly Groundwater Monitoring Data Reports (III.E.3.)	Submitted Draft 2Q2014 GWM Report to EPA on September 29, 2014.	Prepare Draft 2Q2014 GWM Report and submit to EPA by December 9, 2014. Revise 4Q2013, 1Q2014, and 2Q2014 GWM Reports based on EPA comments.	
16	Annual Groundwater Monitoring Data Report (III.E.3.)	Submitted 2013 Annual Report to EPA on May 1, 2014.	Revise 2013 Report based on EPA comments.	

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<b>IMMEDIATE SOURCE CONTROL ACTIONS (III.F.)</b>				
17	Submit Dairy Facility Application Field Management Plan (III.F.1.)	<b>TASK COMPLETE</b>		
18	Submit Dairy Facility Application Field Reports (III.A.3.e.(2))	2014 Post-Harvest Application Field sampling completed at all Respondents application fields <u>except</u> for Fields 5 and 14 at Liberty Dairy. Analytical results received for: Cow Palace Fields 4A, 4B, and 5; Liberty Dairy Fields 3, 4, 6, 7, and 8N; and George DeRuyter & Son Fields 1, 2, 3, 5, 7, 10, 12, and 14. Prepare Draft 2014 Pre-Plant Application Field Management Report.	Submit Draft 2014 Pre-Plant Application Field Management Report by October 30, 2014. Prepare Draft 2014 Post-Harvest Application Management Report, including data validation activities. Revise 2014 Pre-Plant Data Usability Reports based on EPA comments.	
19	Submit Irrigation Water Management Plan (III.F.2.)	<b>TASK COMPLETE</b>		
20	Implement Irrigation Water Management Plan (III.F.2.)	Completed soil field capacity (FC) sampling and testing of Cow Palace Fields 1, 2, 4A, 4B, 5 and 6; Liberty Dairy Fields 2, 4, 6, 7, 8N, and 9; and George DeRuyter & Son Dairy Fields 1, 2, 3, 7, 10, 13, and 14.	Continue soil field capacity testing of remaining fields as harvested. Install moisture sensors as FC testing is completed.	IES and Agrimanagement will provide a technical memorandum to EPA describing preliminary results of FC testing and presenting any issues requiring corrective actions based on the field observations following completion of the FC sampling.
21	Take action to reduce nitrate contributions from silage storage (III.F.3.)	<b>TASK COMPLETE</b>		
22	Take action to reduce nitrate contributions from solid separator (III.F.4)	<b>TASK COMPLETE</b>		
23	Install backflow prevention system (III.F.5)	<b>TASK COMPLETE</b>		
24	Submit Lagoon Review Report (III.F.6.)	<b>TASK COMPLETE</b>		

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25	Submit Lagoon Evaluation Plan (III.F.6).	Proposed and discussed a physical testing methodology for lagoon evaluation at a September 30, 2014 meeting between EPA and IES. Submitted a technical memorandum to EPA on October 6, 2014 outlining the proposed testing approach. Received EPA comments to technical memorandum on October 10, 2014.	Request teleconference between EPA and IES (as offered by EPA in October 10, 2014 letter) to discuss numbers and locations of proposed physical samples. Prepare and submit Lagoon Evaluation Plan QAPPs to EPA by October 31, 2014.	IES will submit schedule extension request for submission of Lagoon Evaluation QAPPs from October 24, 2014 to October 31, 2014.
26	Submit Lagoon Evaluation Report and Lagoon Work Plan (III.F.6)	None	None	
27	Submit records of locations to which manure is transported off of the Dairy Facilities (III.F.7)	Provided 2013 information to EPA as part of 2013 Annual Report	Work with respondents to collect and tabulate 2014 records.	
28	Eliminate furrow irrigation (III.F.8.)	<b>TASK COMPLETE</b>		
29	Submit Plan for assessment of area surrounding monitoring well DC-03 (III.F.12.)	None	Based on conversation with EPA at September 30, 2014 meeting, anticipate receipt of additional EPA comments regarding DC-03 Investigation.	
<b>REPORTING (III.K.)</b>				
34	Monthly Progress Reports (III.K.1.)	Submitted August MPR on September 16, 2014. Prepared September MPR.	Prepare and submit October and November MPR.	
35	Annual Reports (III.K.2.)	Submitted 2013 Annual Report to EPA on May 1, 2014.	Revise Report based on EPA comments.	