



May 22, 2015

Erin McDonnell, P.E.
Cleanup Project Engineer
Oregon Department of Environmental Quality
Northwest Region Water Quality
700 NE Multnomah St., Suite #600
Portland, OR 97232

Re: Notice of Voluntary Next Steps
Intel Corporation/Intel – Aloha Campus
Site ID # 41940 /Permit # 101533 /EPA ID # OR0030929

Dear Erin McDonnell,

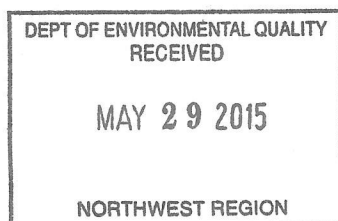
This letter is to serve notice to DEQ of Intel planned voluntary next steps at the Aloha ground water cleanup project. Hydraulic containment preventing contamination from leaving the site and natural attenuation have been successful, but three wells still show Vinyl Chloride levels around the Maximum Contaminant Level: AW-10-36 and OW-1 (upper water bearing zone), and MLW 3/ zone 4 (valley-fill lower water bearing zone). This summer, Intel will be targeting these remaining wells by:

- Performing the proposed hydraulic flushing of well AW-10-36, which was acceptable by DEQ per the letter received from DEQ on January 22, 2014. The activity would flush AW-10-36 by drawing well water into the existing pumping system associated with Recovery Well (RW-10).
- Carbon-based amendment application west (up gradient) of OW-1 to create geochemical conditions to facilitate natural biological degradation.
- Continuing groundwater extraction via extraction well EW-6, to flush valley-fill groundwater from the vicinity of MLW-3/zone 4.

Once these targeted contaminant reduction efforts are complete, Intel will submit a request to DEQ to shut off the hydraulic containment system. Once the system is shut off, sampling will begin to identify whether closure of the project is appropriate. In conjunction with this summer's efforts, Intel will work with DEQ to define and perform necessary scope related to updating previous Beneficial Water Use Determination (BWUD) / Future Land Use Consideration (FLUC) to facilitate project closure steps. If you have any questions regarding this information, please contact John Hollerung at (503) 819-5186 or by email at john.a.hollerung@intel.com.

Sincerely,
INTEL CORPORATION

Stephen Horwath
Facilities Manager



Intel Corporation
5200 NE Elam Young Pkwy
Hillsboro, OR 97123
M/S RS5-115

MCDONNELL Erin

From: MCDONNELL Erin
Sent: Friday, January 20, 2012 2:15 PM
To: Bunker, Russ
Cc: Cano, Leonard; Shanley, Stephanie B; Cooper, Tom
Subject: RE: Intel

Hi Russ,
Yes, I concur with these elements of the project as described in your email below.

Thank you,
Erin

Erin McDonnell, P.E.
Cleanup Project Engineer
Oregon DEQ, NWR
503.229.6900

From: Bunker, Russ [russ.bunker@amec.com]
Sent: Friday, January 20, 2012 1:15 PM
To: MCDONNELL Erin
Cc: Cano, Leonard; Shanley, Stephanie B; Cooper, Tom
Subject: Intel

Erin,

This email is just to memorialize our conversation of the other day - we understand that you are no longer requiring an Enhanced In Situ Bioremediation report for the Aloha project, because the project has already progressed to monitored natural attenuation.

I also wanted to let you know that we are modifying the methane monitoring program to focus on just the service courtyard area, where the long-term carbon release material may still be producing methane. Through December 2011, measurements in this, as well as other areas, show no methane or only very low methane levels. But we agree with you that continued monitoring in the courtyard area is prudent and we will continue monitoring there approximately every two weeks. Unless we see levels approaching the LEL, when we would inform you, we otherwise plan to report the methane data in the routine progress reports.

Please let me know if you need additional information.

Thanks,

Russ

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If you are not an intended recipient you must not use, disclose, disseminate, copy or print its contents.
If you receive this e-mail in error, please notify the sender by reply e-mail and delete and destroy the message.

MCDONNELL Erin

From: MCDONNELL Erin
Sent: Wednesday, December 28, 2011 10:13 AM
To: 'Shanley, Stephanie B'; 'Bunker, Russ'
Cc: HAFLEY Dan; GILLES Bruce A
Subject: Intel-Aloha (ECSI #1131), MNA Plan

Hi Stephanie,

DEQ has received and approves the Natural Attenuation Monitoring Plan, dated December 2011, for the Intel-Aloha Site. We have no comments on the documents. Please continue to communicate to DEQ any proposed modifications to the monitoring plan or conducting supplemental injections.

Submittal of the first annual Progress Report (116) is scheduled for July 2012. DEQ will conduct an annual review following future progress report submittals to evaluate whether the remedy remains protective and progress towards achieving the remedial action objectives.

Yes, when identified please provide the new Intel contact for the project. I will continue to include you on any communication until then. Best wishes in your new position. It has been a pleasure working with you.

Thank you,
Erin

Erin McDonnell, P.E.
Cleanup Project Engineer
Oregon DEQ, NWR
503.229.6900

From: Shanley, Stephanie B [<mailto:stephanie.b.shanley@intel.com>]
Sent: Monday, December 05, 2011 9:46 AM
To: MCDONNELL Erin; 'Bunker, Russ'
Cc: HAFLEY Dan; GILLES Bruce A; Shanley, Stephanie B
Subject: RE: Progress Report 115, Intel-Aloha (ECSI# 1131)

Erin,

Here are our responses to the attached letter. Please let me know if you need this in a more formal way.

1. Okay
2. Report will be submitted week of 12/12
3. Okay
4. See number 6 below
5. We will begin tracking results against revised Oregon RBCs
6. Although we appreciate your recommendation to cease operation of the groundwater recovery system, Intel will operate the containment until all MCLs are met. We feel that 3 samples in AW24 are not adequate to fully establish a trend. We have also continually committed to our neighbors that we will contain all GW on-site that is over drinking water standards. We realize this is conservative but it is in our best interest long term to prevent any potential of negative perception. We will reassess at the end of 2012.
7. Okay
8. Okay
9. Okay

MCDONNELL Erin

From: Shanley, Stephanie B [stephanie.b.shanley@intel.com]
Sent: Monday, December 05, 2011 9:46 AM
To: MCDONNELL Erin; 'Bunker, Russ'
Cc: HAFLEY Dan; GILLES Bruce A; Shanley, Stephanie B
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On another note, I have accepted a new job as the Group Lead for the Environmental/Industrial Hygiene Staff. As such, I have to transition much of my individual responsibilities although I'll still be available for assistance as needed. I'll provide you new contact information when that is determined.

Thanks,

Stephanie Shanley
Intel Corporation
Ronler Acres / Aloha Environmental/Industrial Hygiene Group Lead
503-613-5950 desk
503-319-6285 cell

From: MCDONNELL Erin [<mailto:MCDONNELL.Erin@deq.state.or.us>]
Sent: Monday, November 07, 2011 3:02 PM
To: Shanley, Stephanie B; 'Bunker, Russ'
Cc: HAFLEY Dan; GILLES Bruce A
Subject: Progress Report 115, Intel-Aloha (ECSI# 1131)

Hi Stephanie,

Attached are DEQ comments on Progress Report 115 for the Intel-Aloha site. Please provide a response to comments where requested.

Please contact me if you have any questions about the letter or the project.

Thank you,
Erin

MCDONNELL Erin

From: MCDONNELL Erin
Sent: Monday, November 07, 2011 3:02 PM
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Cc: HAFLEY Dan; GILLES Bruce A
Subject: Progress Report 115, Intel-Aloha (ECSI# 1131)

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