

## REDACTED

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**From:** Jen Mott

**Sent:** Monday, February 20, 2023 8:07 AM

**To:** 'Wesley.Thomas@deq.oregon.gov' <Wesley.Thomas@deq.oregon.gov>

**Cc:** Halah Voges <hvoges@anchorqea.com>; Robert Ede - Hahn and Associates (robe@hahnenv.com) <robe@hahnenv.com>; John Renda <jrenda@anchorqea.com>; Patty Dost (pdost@pearllegalgroup.com) <pdost@pearllegalgroup.com>; Ryan Barth (rbarth@anchorqea.com) <rbarth@anchorqea.com>; Bob Wyatt <rjw@nwnatural.com>; Heidi Nelson - DEQ (Heidi.Nelson@deq.oregon.gov) <Heidi.Nelson@deq.oregon.gov>; Paul Seidel - Oregon Department of Environmental Quality (Paul.Seidel@deq.oregon.gov) <Paul.Seidel@deq.oregon.gov>; Henning Larsen - DEQ (Henning.Larsen@deq.oregon.gov) <henning.larsen@deq.oregon.gov>

**Subject:** RE: Gasco: Weekly Water Levels; Koppers and LNG Basin Area

Wes,

The following email is provided on behalf of John Renda.

The attached table includes the weekly measurements from the fifteen locations requested by DEQ. Twelve of the locations have transducers installed, recording elevations at 15-minute intervals. For this request, a single weekly water level measurement was used for wells with transducers by selecting the closest 15-minute interval to the manual measurements. Also, as requested in the meeting with DEQ on January 28, 2021, weekly elevation data was added for the four newly installed wells (MW-50F, MW-51F, MW-52F, and MW-53F) associated with the Fill WBZ trench system for a total of 19 locations.

This spreadsheet includes monthly water level elevations (groundwater in the wells and piezometer and surface water in the Koppers Basin) for the 15 locations from July 2018 through April 2019 and weekly measurements beginning in May 2019 through January 2023.

Dewatering of the Koppers Basin began on May 27, 2022, and water levels in the Koppers Basin dropped through August 2022 and became free of standing water in September 2022 although pumping was temporarily stopped at the end of December due to freezing temperatures but has

since resumed. Approximately 4.56 million gallons of water have been pumped from the basin from May 2022 through January 2023.

Continuous automated pumping from the Fill WBZ trenches began on March 11, 2021. Response from pumping can be seen in monitoring wells MW-49F through MW-53F. Pumping from the 50-foot trench stopped in September 2022 for maintenance and resumed in November 2022. An increase in water level elevation is evident in MW-49F and MW-51F in response to pump shutdown with a pronounced decrease in elevation once pumping resumed.

Let us know if you have any questions.

Jen Mott  
Project Coordinator  
**Anchor QEA, LLC**  
[jmott@anchorqea.com](mailto:jmott@anchorqea.com)  
6720 S Macadam Ave, Suite 125, Portland, OR 97219  
(503) 972-5014

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**From:** BAYUK Dana <[Dana.BAYUK@state.or.us](mailto:Dana.BAYUK@state.or.us)>  
**Sent:** Wednesday, May 29, 2019 10:57 AM  
**To:** Rob Ede <[robe@hahnenv.com](mailto:robe@hahnenv.com)>  
**Cc:** NELSON Heidi <[Heidi.NELSON@state.or.us](mailto:Heidi.NELSON@state.or.us)>; Halah Voges <[hvoges@anchorqea.com](mailto:hvoges@anchorqea.com)>; Jen Mott <[jmott@anchorqea.com](mailto:jmott@anchorqea.com)>; John Renda <[jrenda@anchorqea.com](mailto:jrenda@anchorqea.com)>; SEIDEL Paul <[Paul.SEIDEL@state.or.us](mailto:Paul.SEIDEL@state.or.us)>; Patricia Dost <[pdost@pearllegalgroup.com](mailto:pdost@pearllegalgroup.com)>; Ryan Barth <[rbarth@anchorqea.com](mailto:rbarth@anchorqea.com)>; Bob Wyatt <[rjw@nwnatural.com](mailto:rjw@nwnatural.com)>; Sarah Riddle <[sriddle@pearllegalgroup.com](mailto:sriddle@pearllegalgroup.com)>  
**Subject:** RE: Summary of Agreement on Weekly Water Levels; Koppers and LNG Basin Area

Hello Rob.

DEQ reviewed your May 22, 2019 e-mail summarizing our May 14<sup>th</sup> telephone conversation regarding collecting and reporting water level measurements in the vicinity of the LNG Basin and the Koppers Tank Farm.

Based on our review, DEQ:

- Concurs with the e-mail summary of the call; and
- Approves the plan for collecting and reporting water level data subject to NW Natural conducting the work through December 2019.

Data for the May through December 2019 time period will be the basis for decisions regarding

continuing data collection.

Please feel free to contact me with questions regarding this e-mail and hope your day is going well.

Dana

Mr. Dana Bayuk  
Cleanup Program Project Manager/Hydrogeologist  
Oregon Department of Environmental Quality  
Northwest Region  
700 NE Multnomah Street, Suite 600  
Portland, OR 97232-4100

E-mail: [bayuk.dana@deq.state.or.us](mailto:bayuk.dana@deq.state.or.us)  
Phone: 503-229-5543  
FAX: 503-229-6945

Please visit our website at <http://www.oregon.gov/deq>



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**From:** Rob Ede <[robe@hahnenv.com](mailto:robe@hahnenv.com)>  
**Sent:** Wednesday, May 22, 2019 6:40 PM  
**To:** BAYUK Dana <[Dana.BAYUK@state.or.us](mailto:Dana.BAYUK@state.or.us)>  
**Cc:** Bob Wyatt <[rjw@nwnatural.com](mailto:rjw@nwnatural.com)>; John Renda <[jrenda@anchorqea.com](mailto:jrenda@anchorqea.com)>; Ryan Barth <[rbarth@anchorqea.com](mailto:rbarth@anchorqea.com)>; Halah Voges <[hvoges@anchorqea.com](mailto:hvoges@anchorqea.com)>; Patty Dost <[pdost@pearllegalgroup.com](mailto:pdost@pearllegalgroup.com)>; Sarah Riddle <[sriddle@pearllegalgroup.com](mailto:sriddle@pearllegalgroup.com)>; Jen Mott <[jmott@anchorqea.com](mailto:jmott@anchorqea.com)>  
**Subject:** Summary of Agreement on Weekly Water Levels; Koppers and LNG Basin Area

Hi Dana,

I'm providing this e-mail at your request to document our telephone conversation of May 14, 2019 regarding DEQ's request for weekly water level measurements at select locations surrounding the former Koppers tank basin and the nearby LNG tank basin. Our May 14 telephone conversation was an outcome from a site visit on May 6, 2019 with me, John Renda (Anchor QEA) and you to observe standing water in the former Koppers tank basin.

Based on the May 6, 2019 site visit and our follow-up call on May 14, 2019 it is understood that DEQ is requesting that NW Natural proceed with weekly water level measurements at the following 15 locations in the general vicinity of the Koppers and LNG tank basins:

1. MW-8-29
2. MW-9-29
3. MW-10-25
4. MW-11-32

5. MW-12-36
6. MW-43F
7. MW-44F
8. MW-45F
9. MW-46F
10. MW-47F
11. MW-48F
12. MW-49F
13. PZ-KB1
14. MW-KW-2
15. Koppers tank basin surface water measurement point

With the exception of the locations 13 through 15, all of the requested water level monitoring locations are already collecting the requested data at 15-minute intervals with the use of dedicated transducers. The requested water level data from the locations 13 through 15 (PZ-KB1, MW-KW-2, and Koppers tank basin surface water measuring point) will be collected manually on a weekly schedule – which began the week of May 13, 2019.

As further requested, NW Natural will provide a spreadsheet summarizing the weekly water level measurements to DEQ by e-mail on a monthly basis. Single weekly transducer measurements to coincide with the manual measurements will be selected for inclusion in this spreadsheet. The spreadsheet will include a summary of all weekly measurements and will be provided to DEQ by the 20th of the following month.

This work was requested so that water levels in the former Koppers tank basin and surrounding locations can be monitored on a more frequent basis as we move into and through the dry season. As such, the weekly work activities and reporting as described here will be a short-term interim effort during this timeframe.

Please let me know if this conforms with your understanding of our May 14, 2019 call and the agreed path forward regarding this item.

Thanks,

-Rob

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Rob Ede, R.G. \* [robe@hahnenv.com](mailto:robe@hahnenv.com)  
Hahn and Associates, Inc.  
Environmental Consultants  
434 NW 6th Avenue, Suite 203  
Portland, Oregon 97209-3651

<http://www.hahnenv.com>

Phone: 503.796.0717  
Mobile: 503.863.0958