

Appendix D

Field Daily Reports

From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 10/06/20
Date: Wednesday, October 7, 2020 12:06:21 PM
Attachments: [USM PDIWP Daily Report 20201006.pdf](#)

Hi Hunter,

Please see attached for the October 6, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation. We had issues downloading Photo 6 (Sampling of Sediments into Bowl) and Photo 9 (Jars in Cooler with Ice) from the camera to the computer, preventing us from including them in the attached daily. We have rectified this issue and a complete photo set will be included in the next daily report.

Let us know if you have any questions.

Nik

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Managing Geologist

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T 206.287.9130

D 206.903.3376

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 10/07/20
Date: Thursday, October 8, 2020 11:26:06 AM
Attachments: [USM PDIWP Daily Report 20201007.pdf](#)

Hi Hunter,

Please see attached for the October 7, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 10/08/20
Date: Friday, October 9, 2020 8:05:35 AM
Attachments: [USM PDIWP Daily Report 20201008.pdf](#)

Hi Hunter,

Please see attached for the October 8, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

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To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 10/09/20
Date: Saturday, October 10, 2020 9:44:35 AM
Attachments: [USM PDIWP Daily Report 20201009.pdf](#)

Hi Hunter,

Please see attached for the October 9, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

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To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 10/10/20
Date: Sunday, October 11, 2020 8:35:32 AM
Attachments: [USM PDIWP Daily Report 20201010.pdf](#)

Hi Hunter,

Please see attached for the October 10, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

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USMS0024364

From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 10/11/20
Date: Sunday, October 11, 2020 11:56:45 PM
Attachments: [USM PDIWP Daily Report 20201011.pdf](#)

Hi Hunter,

Please see attached for the October 11, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 10/12/20
Date: Tuesday, October 13, 2020 8:01:37 AM
Attachments: [USM PDIWP Daily Report 20201012.pdf](#)

Hi Hunter,

Please see attached for the October 12, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

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To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 10/28/20
Date: Thursday, October 29, 2020 10:03:42 AM
Attachments: [USM PDIWP Daily Report 20201028.pdf](#)

Hi Hunter,

Please see attached for the October 28, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 10/29/20
Date: Friday, October 30, 2020 12:28:42 PM
Attachments: [USM PDIWP Daily Report 20201029.pdf](#)

Hi Hunter,

Please see attached for the October 29, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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USMS0024368

From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 10/30/20
Date: Saturday, October 31, 2020 1:07:03 PM
Attachments: [USM PDIWP Daily Report 20201030.pdf](#)

Hi Hunter,

Please see attached for the October 30, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation. The field crew is off for the weekend and field work will start again on Monday, November 2nd.

Let us know if you have any questions.

Nik

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To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 11/2/20
Date: Tuesday, November 3, 2020 12:54:36 PM
Attachments: [USM PDIWP Daily Report 20201102.pdf](#)

Hi Hunter,

Please see attached for the November 2, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 11/3/20
Date: Wednesday, November 4, 2020 9:04:29 AM
Attachments: [USM PDIWP Daily Report 20201103.pdf](#)

Hi Hunter,

Please see attached for the November 3, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 11/4/20
Date: Thursday, November 5, 2020 9:58:46 AM
Attachments: [USM PDIWP Daily Report 20201104.pdf](#)

Hi Hunter,

Please see attached for the November 4, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 11/5/20
Date: Friday, November 6, 2020 12:41:40 PM
Attachments: [USM PDIWP Daily Report 20201105.pdf](#)

Hi Hunter,

Please see attached for the November 5, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation. We are working through this weekend.

Let us know if you have any questions.

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 11/6/20
Date: Saturday, November 7, 2020 2:31:14 PM
Attachments: [USM PDIWP Daily Report 20201106.pdf](#)

Hi Hunter,

Please see attached for the November 6, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation. We are working through this weekend.

Let us know if you have any questions.

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 11/7/20
Date: Sunday, November 8, 2020 8:04:31 AM
Attachments: [USM PDIWP Daily Report 20201107.pdf](#)

Hi Hunter,

Please see attached for the November 7, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: RE: US Moorings Project Area PDI Daily Progress Report 11/6/20 (REVISED DAILY ATTACHED)
Date: Monday, November 9, 2020 9:23:58 AM
Attachments: [USM PDIWP Daily Report 20201106 Revised.pdf](#)

Hi Hunter,

I failed to include a core collected on 11/06 in the daily report for that day. Attached is a revised daily for 11/06 that includes the omitted station (USMPDI-022).

Let us know if you have any questions.

Nik

Niklas Bacher, L.G.

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From: Nik Bacher

Sent: Saturday, November 7, 2020 2:31 PM

To: Young, Hunter <Young.Hunter@epa.gov>; Peterson, Lance <PetersonLE@cdmsmith.com>

Cc: Bob Wyatt <rjw@nwnatural.com>; Patricia Dost <pdost@pearllegalgroup.com>; Ryan Barth <rbarth@anchorqea.com>; Jen Mott <jmott@anchorqea.com>; Jason Cornetta <jcornetta@anchorqea.com>

Subject: US Moorings Project Area PDI Daily Progress Report 11/6/20

Hi Hunter,

Please see attached for the November 6, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation. We are working through this weekend.

Let us know if you have any questions.

Nik

Niklas Bacher, L.G.

Managing Geologist

ANCHOR QEA, LLC

USMS0024376

From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 11/8/20
Date: Monday, November 9, 2020 9:12:20 AM
Attachments: [USM PDIWP Daily Report 20201108.pdf](#)

Hi Hunter,

Please see attached for the November 8, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 11/9/20
Date: Tuesday, November 10, 2020 9:24:19 AM
Attachments: [USM PDIWP Daily Report 20201109.pdf](#)

Hi Hunter,

Please see attached for the November 9, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 11/10/20
Date: Wednesday, November 11, 2020 10:19:03 AM
Attachments: [USM PDIWP Daily Report 20201110.pdf](#)

Hi Hunter,

Please see attached for the November 10, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 11/11/20
Date: Thursday, November 12, 2020 11:50:20 AM
Attachments: [USM PDIWP Daily Report 20201111.pdf](#)

Hi Hunter,

Please see attached for the November 11, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation. This was the last day of core collection in 2020 as water levels prevents us from collection additional cores in the nearshore area. We are anticipating starting up core collection again when water levels are higher in the April/May 2021 timeframe.

Let us know if you have any questions.

Nik

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Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 11/12/20
Date: Friday, November 13, 2020 10:11:11 AM
Attachments: [USM PDIWP Daily Report 20201112.pdf](#)

Hi Hunter,

Please see attached for the November 12, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#); [Jason Cornetta](#)
Subject: US Moorings Project Area PDI Daily Progress Report 11/16/20
Date: Tuesday, November 17, 2020 9:51:19 AM
Attachments: [USM PDIWP Daily Report 20201116.pdf](#)

Hi Hunter,

Please see attached for the November 16, 2020 daily progress report for the US Moorings Project Area Pre-Design Investigation. The submission of this report concludes the 2020 US Moorings field work. We will re-start the sediment sampling in spring 2021 when higher river levels allow us to complete the remaining nearshore sampling locations.

Let us know if you have any questions.

Nik

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, March 8, 2021
Date: Tuesday, March 9, 2021 8:06:08 AM

Hi Hunter,

The following is the March 8, 2021, daily progress report for the pre-remedial design investigation being conducted at the US Moorings Project Area in accordance with the U.S. Environmental Protection Agency (EPA)-approved *Revised Final Pre-Remedial Design Work Plan (PDIWP)*. This was the 23rd day of the investigation.

Personnel On Site

- James Melton, Ben Uhl (Anchor QEA); Jeff Jones, Javier Anguiano, Esteban Marquez (Holt Drilling Services, Inc.)
- Oversight: Pamela Hartman, Whitney Treadway (CDM Smith)
- Visitors: Kristin Addis (USACE)

Top of Riverbank Angled Borings Sampling Program

Top of riverbank angled sonic boring was collected from the following location:

- USMPDI-061 (The boring was advanced at 45-degree angle to a final vertical target depth of 25.5 ft below ground surface and samples were collected in accordance with the PDIWP)

Health and Safety

- No reportable incidents

Samples Shipped

- No samples were submitted to the laboratory today.

Substantive Discussions with EPA Oversight

- None

Deviations

- None

Please let us know if you have any questions.

Nik

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, March 9, 2021
Date: Wednesday, March 10, 2021 10:14:44 AM

Hi Hunter,

The following is the March 9, 2021, daily progress report for the pre-remedial design investigation being conducted at the US Moorings Project Area in accordance with the U.S. Environmental Protection Agency (EPA)-approved *Revised Final Pre-Remedial Design Work Plan (PDIWP)*. This was the 24th day of the investigation.

Personnel On Site

- James Melton, Sasha Norwood (Anchor QEA); Jeff Jones, Javier Anguiano, Esteban Marquez (Holt Drilling Services, Inc.)
- Oversight: None
- Visitors: Kristin Addis (USACE)

Top of Riverbank Angled Borings Sampling Program

Top of riverbank angled sonic boring was collected from the following location:

- USMPDI-062 (The boring was advanced at 45-degree angle to a final vertical target depth of 25.0 ft below ground surface and samples were collected in accordance with the PDIWP)

Health and Safety

- No reportable incidents

Samples Shipped

- No samples were submitted to the laboratory today.

Substantive Discussions with EPA Oversight

- None

Deviations

- None

Please let us know if you have any questions.

Nik

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, March 10, 2021
Date: Thursday, March 11, 2021 10:47:34 AM

Hi Hunter,

The following is the March 10, 2021, daily progress report for the pre-remedial design investigation being conducted at the US Moorings Project Area in accordance with the U.S. Environmental Protection Agency (EPA)-approved *Revised Final Pre-Remedial Design Work Plan (PDIWP)*. This was the 25th day of the investigation.

Personnel On Site

- James Melton, Sasha Norwood (Anchor QEA); Jeff Jones, Alex Langdon, Colby McCarthy (Holt Drilling Services, Inc.)
- Oversight: Whitney Treadway (CDM Smith)
- Visitors: Kristin Addis (USACE)

Top of Riverbank Angled Borings Sampling Program

Top of riverbank angled sonic boring was collected from the following location:

- USMPDI-063 (The boring was advanced at 45-degree angle to a final vertical target depth of 24.7 ft below ground surface and samples were collected in accordance with the PDIWP)
- USMPDI-064 (The boring was advanced at 45-degree angle to 10 ft below ground surface and the 0-10 ft sample was collected in accordance with the PDIWP. The boring will be advanced to total depth and additional samples will be collected tomorrow)

Health and Safety

- No reportable incidents

Samples Shipped

- Samples were submitted to the laboratory today.

Substantive Discussions with EPA Oversight

- None

Deviations

- None

Please let us know if you have any questions.

Nik

Niklas Bacher, L.G., P.G.

Senior Managing Geologist

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, March 11, 2021
Date: Friday, March 12, 2021 7:28:02 AM

Hi Hunter,

The following is the March 11, 2021, daily progress report for the pre-remedial design investigation being conducted at the US Moorings Project Area in accordance with the U.S. Environmental Protection Agency (EPA)-approved *Revised Final Pre-Remedial Design Work Plan (PDIWP)*. This was the 26th day of the investigation.

Personnel On Site

- James Melton, Sasha Norwood (Anchor QEA); Jeff Jones, Alex Langdon, Colby McCarthy (Holt Drilling Services, Inc.)
- Oversight: None
- Visitors: Kristin Addis (USACE)

Top of Riverbank Angled Borings Sampling Program

Top of riverbank angled sonic boring was collected from the following location:

- USMPDI-064 (The boring was advanced at 45-degree angle to a final vertical target depth of 23.4 ft below ground surface and samples were collected in accordance with the PDIWP)
- USMPDI-068 (The boring was advanced at 45-degree angle to 20 ft below ground surface and the 0-10 ft sample and the 10-20 ft sample was collected in accordance with the PDIWP. The boring will be advanced to total depth and additional samples will be collected tomorrow)

Health and Safety

- No reportable incidents

Samples Shipped

- Samples were submitted to the laboratory today.

Substantive Discussions with EPA Oversight

- None

Deviations

- None

Please let us know if you have any questions.

Nik

Niklas Bacher, L.G., P.G.

Senior Managing Geologist

USMS0024386

From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, March 12, 2021
Date: Friday, March 12, 2021 10:57:26 PM

Hi Hunter,

The following is the March 12, 2021, daily progress report for the pre-remedial design investigation being conducted at the US Moorings Project Area in accordance with the U.S. Environmental Protection Agency (EPA)-approved *Revised Final Pre-Remedial Design Work Plan (PDIWP)*. This was the 27th day of the investigation.

Personnel On Site

- James Melton, Sasha Norwood (Anchor QEA): Jeff Jones, Alex Langdon, Colby McCarthy (Holt Drilling Services, Inc.)
- Oversight: None
- Visitors: Kristin Addis (USACE)

Top of Riverbank Angled Borings Sampling Program

Top of riverbank angled sonic boring was collected from the following location:

- USMPDI-068 (The boring was advanced at 45-degree angle to a final vertical target depth of 32.1 ft below ground surface and samples were collected in accordance with the PDIWP)
- USMPDI-069 (The boring was advanced at 45-degree angle to a final vertical target depth of 36.3 ft below ground surface and samples were collected in accordance with the PDIWP)

Health and Safety

- No reportable incidents

Samples Shipped

- Samples were submitted to the laboratory today

Substantive Discussions with EPA Oversight

- None

Deviations

- None

Please let us know if you have any questions.

Nik

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, March 15, 2021
Date: Tuesday, March 16, 2021 3:36:07 PM

Hi Hunter,

The following is the March 15, 2021, daily progress report for the pre-remedial design investigation being conducted at the US Moorings Project Area in accordance with the U.S. Environmental Protection Agency (EPA)-approved *Revised Final Pre-Remedial Design Work Plan (PDIWP)*. This was the 28th day of the investigation.

Personnel On Site

- James Melton, Sasha Norwood (Anchor QEA): Jeff Jones, Andy Mengle, Grady Green (Holt Drilling Services, Inc.)
- Oversight: Louisa Orr (CDM Smith)
- Visitors: None

Top of Riverbank Angled Borings Sampling Program

Top of riverbank angled sonic boring was collected from the following location:

- USMPDI-066 (The boring was advanced at 45-degree angle to a final vertical target depth of 22.5 ft below ground surface and samples were collected in accordance with the PDIWP)

Health and Safety

- No reportable incidents

Samples Shipped

- No samples were submitted to the laboratory today

Substantive Discussions with EPA Oversight

- None

Deviations

- None

Please let us know if you have any questions.

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, March 16, 2021
Date: Wednesday, March 17, 2021 10:56:22 AM

Hi Hunter,

The following is the March 16, 2021, daily progress report for the pre-remedial design investigation being conducted at the US Moorings Project Area in accordance with the U.S. Environmental Protection Agency (EPA)-approved *Revised Final Pre-Remedial Design Work Plan* (PDIWP). This was the 29th day of the investigation.

Personnel On Site

- James Melton, Sasha Norwood (Anchor QEA): Jeff Jones, Andy Mengle, Grady Green (Holt Drilling Services, Inc.)
- Oversight: None
- Visitors: None

Top of Riverbank Angled Borings Sampling Program

Top of riverbank angled sonic boring was collected from the following location:

- USMPDI-067 (The boring was advanced at 45-degree angle to a final vertical target depth of 21.9 ft below ground surface and samples were collected in accordance with the PDIWP)

Health and Safety

- No reportable incidents

Samples Shipped

- Samples were submitted to the laboratory today.

Substantive Discussions with EPA Oversight

- None

Deviations

- None

Please let us know if you have any questions.

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, March 17, 2021
Date: Thursday, March 18, 2021 8:39:32 AM

Hi Hunter,

The following is the March 17, 2021, daily progress report for the pre-remedial design investigation being conducted at the US Moorings Project Area in accordance with the U.S. Environmental Protection Agency (EPA)-approved *Revised Final Pre-Remedial Design Work Plan (PDIWP)*. This was the 30th day of the investigation.

Personnel On Site

- James Melton, Sasha Norwood (Anchor QEA): Jeff Jones, Andy Mengle, Grady Green (Holt Drilling Services, Inc.)
- Oversight: None
- Visitors: None

Top of Riverbank Angled Borings Sampling Program

Top of riverbank angled sonic boring was collected from the following location:

- USMPDI-058 (The boring was advanced at 45-degree angle to a final vertical target depth of 26.2 ft below ground surface and samples were collected in accordance with the PDIWP)
- USMPDI-060 (The boring was advanced at 45-degree angle to a final vertical target depth of 28.1 ft below ground surface and samples were collected in accordance with the PDIWP)

Health and Safety

- No reportable incidents

Samples Shipped

- No samples were submitted to the laboratory today.

Substantive Discussions with EPA Oversight

- None

Deviations

- None

Please let us know if you have any questions.

Nik

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, March 18, 2021
Date: Friday, March 19, 2021 10:46:10 AM

Hi Hunter,

The following is the March 18, 2021, daily progress report for the pre-remedial design investigation being conducted at the US Moorings Project Area in accordance with the U.S. Environmental Protection Agency (EPA)-approved *Revised Final Pre-Remedial Design Work Plan* (PDIWP). This was the 31st day of the investigation and the last day of the angled riverbank borings field work.

Personnel On Site

- James Melton, Sasha Norwood (Anchor QEA): Jeff Jones, Andy Mengle, Grady Green (Holt Drilling Services, Inc.)
- Oversight: Whitney Treadway (CDM Smith)
- Visitors: None

Top of Riverbank Angled Borings Sampling Program

Top of riverbank angled sonic boring was collected from the following location:

- USMPDI-059 (The boring was advanced at 45-degree angle to a final vertical target depth of 25.5 ft below ground surface and samples were collected in accordance with the PDIWP)

Health and Safety

- No reportable incidents

Samples Shipped

- Samples were submitted to the laboratory today.

Substantive Discussions with EPA Oversight

- None

Deviations

- None

Please let us know if you have any questions.

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, March 29, 2021
Date: Tuesday, March 30, 2021 10:55:29 AM

Hi Hunter,

The following is the March 29, 2021, daily progress report for the pre-remedial design investigation being conducted at the US Moorings Project Area in accordance with the U.S. Environmental Protection Agency (EPA)-approved *Revised Final Pre-Remedial Design Work Plan (PDIWP)*. This was the 32nd day of the investigation.

Personnel On Site

- James Melton, Sasha Norwood (Anchor QEA)
- Oversight: Whitney Treadway (CDM Smith)
- Visitors: None

-

Riverbank Surface Soil Sampling Program

Today, the field team completed a visual survey of the presence or absence of riverbank erodible surface soils at all 13 riverbank surface soil sampling stations identified in the PDWIP. The result of the survey is summarized below.

CDM Smith and the Anchor QEA field team agreed that riverbank surface soil was visually present at two stations. Soil sampling will be attempted tomorrow.

- USMPDI-073 (Soil observed at the target location.)
- USMPDI-077 (Soil observed approximately 30 feet south of the target location.)

No riverbank surface soil was observed at the following 11 stations. The absence of riverbank erodible soils was photo documented at each target location, which will be included in the forthcoming field change request form proposing abandonment of riverbank surface soil sampling at these locations.

- USMPDI-071 (All riprap to shoreline. Steep slope of riprap to south of target location. No erodible soils observed.)
- USMPDI-072 (Riprap and gravel. Steep slope of riprap to south of target location. No erodible soils observed.)
- USMPDI-074 through USMPDI-076 and USMPDI-079 through USMPDI-083 (All riprap to shoreline. No erodible soils observed.)

Health and Safety

- No reportable incidents

Samples Shipped

- No samples were submitted to the laboratory today.

Substantive Discussions with EPA Oversight

EPA oversight was on site and reviewed the conditions at all 13 target riverbank erodible soil sampling stations. After observing the riverbank conditions, they concurred that no erodible soils are present other than at USMPDI-073 and USMPDI-077.

Deviations

- None

Please let us know if you have any questions.

Nik

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, March 30, 2021
Date: Wednesday, March 31, 2021 9:23:00 AM

Hi Hunter,

The following is the March 30, 2021, daily progress report for the pre-remedial design investigation being conducted at the US Moorings Project Area in accordance with the U.S. Environmental Protection Agency (EPA)-approved *Revised Final Pre-Remedial Design Work Plan* (PDIWP). This was the 33rd day of the investigation and the last day of the riverbank surface soil sampling field work.

Personnel On Site

- James Melton, Ben Uhl (Anchor QEA)
- Oversight: Whitney Treadway (CDM Smith)
- Visitors: None

-

Riverbank Surface Soil Sampling Program

Riverbank surface soil was collected from the following locations:

- USMPDI-073: Two grab samples collected and composited in accordance with the PDIWP except as noted below
- USMPDI-077: Two grab samples collected and composited in accordance with the PDIWP except as noted below

-

Health and Safety

- No reportable incidents

Samples Shipped

- No samples were submitted to the laboratory today, they will be submitted to the laboratory in the AM

Substantive Discussions with EPA Oversight

- None

Deviations

- Section 3.3.2 of the *Revised Final Field Sampling Plan* (Appendix B to the PDIWP) states that three grab samples will be collected in a triangular pattern at each riverbank surface soil sampling location to be homogenized into a composite sample for that location. Due to the lack of sufficient erodible soils present at both USMPDI-073 and USMPDI-077 we were only able to collect two grab samples which were homogenized into a composite sample at each of these two locations.

Please let us know if you have any questions.

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, April 12, 2021
Date: Tuesday, April 13, 2021 9:15:08 AM
Attachments: [USM PDIWP Daily Report 20210412.pdf](#)

Hi Hunter,

Please see attached for the April 12, 2021 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, April 13, 2021
Date: Wednesday, April 14, 2021 9:21:31 AM
Attachments: [USM PDIWP Daily Report 20210413.pdf](#)

Hi Hunter,

Please see attached for the April 13, 2021 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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USMS0024397

From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, April 14, 2021
Date: Thursday, April 15, 2021 12:38:25 PM
Attachments: [USM PDIWP Daily Report 20210414.pdf](#)

Hi Hunter,

Please see attached for the April 14, 2021 daily progress report for the US Moorings Project Area Pre-Design Investigation.

This week we successfully collected thirteen out of the remaining seventeen surface sediment grabs, but we are precluded from collecting the remaining four due to the current water levels in the Willamette River. Our original schedule had us starting subsurface coring this coming Monday (4/19) but due to the current water levels we have decided to postpone the subsurface coring until the following Monday (4/26) when we anticipate the water levels to have increased due to snowmelt and the release of water from the dams upstream. The four remaining surface sediment grabs will be collected after the subsurface coring is complete.

Let us know if you have any questions.

Nik

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, April 26, 2021
Date: Tuesday, April 27, 2021 8:10:03 AM
Attachments: [USM PDIWP Daily Report 20210426.pdf](#)

Hi Hunter,

Please see attached for the April 26, 2021 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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USMS0024399

From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, April 27, 2021
Date: Wednesday, April 28, 2021 9:07:10 AM
Attachments: [USM PDIWP Daily Report 20210427.pdf](#)

Hi Hunter,

Please see attached for the April 27, 2021 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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USMS0024400

From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, April 28, 2021
Date: Thursday, April 29, 2021 10:12:03 AM
Attachments: [USM PDIWP Daily Report 20210428.pdf](#)

Hi Hunter,

Please see attached for the April 28, 2021 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, April 29, 2021
Date: Friday, April 30, 2021 9:23:30 AM
Attachments: [USM PDIWP Daily Report 20210429.pdf](#)

Hi Hunter,

Please see attached for the April 29, 2021 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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USMS0024402

From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, April 30, 2021
Date: Saturday, May 1, 2021 11:07:58 AM
Attachments: [USM PDIWP Daily Report 20210430.pdf](#)

Hi Hunter,

Please see attached for the April 30, 2021 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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USMS0024403

From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, May 1, 2021
Date: Sunday, May 2, 2021 8:22:40 AM
Attachments: [USM PDIWP Daily Report 20210501.pdf](#)
[USM PDIWP Daily Report 20210430 rev 1.pdf](#)

Hi Hunter,

Please see attached for the May 1, 2021 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Also, please note that I erroneously transcribed a core processed on the April 30 daily report.

USMPDI-015 was not processed on that date but USMPDI-051 was. The revised daily report for April 30 is attached.

Let us know if you have any questions.

Nik

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USMS0024404

From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, May 2, 2021
Date: Monday, May 3, 2021 10:06:23 AM
Attachments: [USM PDIWP Daily Report 20210502.pdf](#)
[USM PDIWP Daily Report 20210501 rev1.pdf](#)

Hi Hunter,

Please see attached for the May 2, 2021 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Also, attached is a revised daily from May 1, 2021 correcting a station number labeling error.

Let us know if you have any questions.

Nik

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USMS0024405

From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, May 3, 2021
Date: Tuesday, May 4, 2021 10:37:07 AM
Attachments: [USM PDIWP Daily Report 20210503.pdf](#)

Hi Hunter,

Please see attached for the May 3, 2021 daily progress report for the US Moorings Project Area Pre-Design Investigation.

Let us know if you have any questions.

Nik

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From: [Nik Bacher](#)
To: [Young, Hunter](#); [Peterson, Lance](#)
Cc: [Bob Wyatt](#); [Patricia Dost](#); [Ryan Barth](#); [Jen Mott](#)
Subject: US Moorings Project Area Pre-Design Investigation Daily Progress Report, May 4, 2021
Date: Wednesday, May 5, 2021 9:05:17 AM
Attachments: [USM PDIWP Daily Report 20210504.pdf](#)

Hi Hunter,

Please see attached for the May 4, 2021 daily progress report for the US Moorings Project Area Pre-Design Investigation. This phase of the US Moorings PDI is complete and this is the last daily progress report transmitted.

Let us know if you have any questions.

Nik

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