



**GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION  
CONNECTION PROJECT**

**Weekly Construction Status Report**

**Docket#: PU-11-605 and PU-11-606**

**July 15, 2013 through July 19, 2013**

<i>Contacts</i>	<i>Name</i>	<i>Company</i>	<i>Office</i>	<i>Cell</i>
Project Manager- Grenora	Tim Kinney	Enbridge	715-857-9005	505-320-0207
Project Manager- Little Muddy	Tim Clausnitzer	Enbridge	715-857-9004	701-319-8606

**Pipeline Construction**

**This Week's Activities**

- No activity this week.(Grenora)
- Pipeline Complete(Little Muddy)

**Next Week's Activities**

- No activity planned. (Grenora)
- Pipeline Complete(Little Muddy)

**Little Muddy to East Fork**

Clearing	100%	Complete	Trenching	100%	Complete
Grading	100%	Complete	Lowering-in/Backfill	100%	Complete
Stringing	100%	Complete	Rough Cleanup	100%	Complete
Welding	100%	Complete	Hydro test	100%	Complete



## GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION CONNECTION PROJECT

### Weekly Construction Status Report

Docket#: PU-11-605 and PU-11-606

July 15, 2013 through July 19, 2013

### Facilities Construction

#### This Week's Activities

- Complete pulling cable(Grenora)
- Complete setting station instrumentation(Grenora)
- Complete ESB terminations(Grenora)
- Continue pipeline tie-in fabrication(Grenora)
- Continue wet Commissioning(Grenora)
- Continue painting(Little Muddy)
- Continue pipeline tie-in fabrication(Grenora)

#### Next Week's Activities

- Start pipeline tie – ins(Grenora)
- Continue wet Commissioning(Grenora)
- Continue painting(Little Muddy)

#### Grenora Expansion Project

<u>Activity</u>	<u>Station</u>
Civil Work	98% complete
Mechanical Work	97% complete
Tank Construction	96% complete

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**Little Muddy Project (US)**

<b><u>Activity</u></b>	<b><u>Station</u></b>
Civil Work	100% complete
Mechanical Work	99% complete
Tank Work	98% complete

**Grenora Expansion Project Updates**

- Updated New Receivers to include metering and pressure control valve assemblies.
- Added New Switchgear Building due to change in Enbridge specification.
- Updated Tank Fill Manifold from 10" to 12".
- Updated Booster pumps from 125 HP to 200 HP.
- Updated Main line pumps from 1500 HP to 2000 HP.
- Increased station piping by 1780 ft.

**Little Muddy Expansion Project Updates**

- Update Booster pumps from 125 HP to 150 HP.
- Update Tank Fill Manifold from 10" to 12".
- Added New Switchgear Building due to change in Enbridge specifications.
- Eliminated transformer from the scope of the project.
- Abandoned existing ground bed and installed new deep well and rectifier.



**GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION  
CONNECTION PROJECT**

**Weekly Construction Status Report**

**Docket#: PU-11-605 and PU-11-606**

**July 8, 2013 through July 12, 2013**

<i>Contacts</i>	<i>Name</i>	<i>Company</i>	<i>Office</i>	<i>Cell</i>
Project Manager- Grenora	Tim Kinney	Enbridge	715-857-9005	505-320-0207
Project Manager- Little Muddy	Tim Clausnitzer	Enbridge	715-857-9004	701-319-8606

**Pipeline Construction**

**This Week's Activities**

- No activity this week.(Grenora)
- Pipeline Complete(Little Muddy)

**Next Week's Activities**

- No activity planned. (Grenora)
- Pipeline Complete(Little Muddy)

**Little Muddy to East Fork**

Clearing	100%	Complete	Trenching	100%	Complete
Grading	100%	Complete	Lowering-in/Backfill	100%	Complete
Stringing	100%	Complete	Rough Cleanup	100%	Complete
Welding	100%	Complete	Hydro test	100%	Complete



## GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION CONNECTION PROJECT

### Weekly Construction Status Report

Docket#: PU-11-605 and PU-11-606

July 8, 2013 through July 12, 2013

#### Facilities Construction

##### This Week's Activities

- Continue pulling cable(Grenora)
- Continue setting station instrumentation(Grenora)
- Continue ESB terminations(Grenora)
- Continue pipeline tie – in plans(Grenora)
- Continue Dry Commissioning(Grenora)
- Start painting(Little Muddy)
- Start pipeline tie-in fabrication(Grenora)

##### Next Week's Activities

- Complete pulling cable(Grenora)
- Complete ESB terminations(Grenora)
- Continue pipeline tie – in fabrication(Grenora)
- Start wet Commissioning(Grenora)
- Continue painting(Little Muddy)

##### Grenora Expansion Project

<u>Activity</u>	<u>Station</u>
Civil Work	98% complete
Mechanical Work	97% complete
Tank Construction	96% complete

<b><u>Little Muddy Project (US)</u></b>	
<b><u>Activity</u></b>	<b><u>Station</u></b>
Civil Work	100% complete
Mechanical Work	99% complete
Tank Work	98% complete

- Grenora Expansion Project Updates**
- Updated New Receivers to include metering and pressure control valve assemblies.
  - Added New Switchgear Building due to change in Enbridge specification.
  - Updated Tank Fill Manifold from 10" to 12".
  - Updated Booster pumps from 125 HP to 200 HP.
  - Updated Main line pumps from 1500 HP to 2000 HP.
  - Increased station piping by 1780 ft.

- Little Muddy Expansion Project Updates**
- Update Booster pumps from 125 HP to 150 HP.
  - Update Tank Fill Manifold from 10" to 12".
  - Added New Switchgear Building due to change in Enbridge specifications.
  - Eliminated transformer from the scope of the project.
  - Abandoned existing ground bed and installed new deep well and rectifier.



**GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION  
CONNECTION PROJECT**

**Weekly Construction Status Report**

**Docket#: PU-11-605 and PU-11-606**

**July 1, 2013 through July 3, 2013**

<i>Contacts</i>	<i>Name</i>	<i>Company</i>	<i>Office</i>	<i>Cell</i>
Project Manager- Grenora	Tim Kinney	Enbridge	715-857-9005	505-320-0207
Project Manager- Little Muddy	Tim Clausnitzer	Enbridge	715-857-9004	701-319-8606

**Pipeline Construction**

**This Week's Activities**

- No activity this week.(Grenora)
- Pipeline Complete(Little Muddy)

**Next Week's Activities**

- No activity planned. (Grenora)
- Pipeline Complete(Little Muddy)

**Little Muddy to East Fork**

Clearing	100%	Complete	Trenching	100%	Complete
Grading	100%	Complete	Lowering-in/Backfill	100%	Complete
Stringing	100%	Complete	Rough Cleanup	100%	Complete
Welding	100%	Complete	Hydro test	100%	Complete



## GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION CONNECTION PROJECT

### Weekly Construction Status Report

Docket#: PU-11-605 and PU-11-606

July 1, 2013 through July 3, 2013

### Facilities Construction

#### This Week's Activities

- Continue pulling cable(Grenora)
- Continue setting station instrumentation(Grenora)
- Continue ESB terminations(Grenora)
- Complete finish grade work(Little Muddy)
- Continue pipeline tie – in plans(Grenora)
- Continue Dry Commissioning(Grenora)

#### Next Week's Activities

- Continue pulling cable(Grenora)
- Continue ESB terminations(Grenora)
- Continue installing clay liner(Grenora)
- Start pipeline tie – in fabrication(Grenora)
- Continue Dry Commissioning(Grenora)

#### Grenora Expansion Project

<u>Activity</u>	<u>Station</u>
Civil Work	96% complete
Mechanical Work	97% complete
Tank Construction	96% complete

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<b><u>Little Muddy Project (US)</u></b>	
<b><u>Activity</u></b>	<b><u>Station</u></b>
Civil Work	100% complete
Mechanical Work	99% complete
Tank Work	98% complete
<b><u>Grenora Expansion Project Updates</u></b>	
<ul style="list-style-type: none"><li>• Updated New Receivers to include metering and pressure control valve assemblies.</li><li>• Added New Switchgear Building due to change in Enbridge specification.</li><li>• Updated Tank Fill Manifold from 10" to 12".</li><li>• Updated Booster pumps from 125 HP to 200 HP.</li><li>• Updated Main line pumps from 1500 HP to 2000 HP.</li><li>• Increased station piping by 1780 ft.</li></ul>	
<b><u>Little Muddy Expansion Project Updates</u></b>	
<ul style="list-style-type: none"><li>• Update Booster pumps from 125 HP to 150 HP.</li><li>• Update Tank Fill Manifold from 10" to 12".</li><li>• Added New Switchgear Building due to change in Enbridge specifications.</li><li>• Eliminated transformer from the scope of the project.</li><li>• Abandoned existing ground bed and installed new deep well and rectifier.</li></ul>	



**GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION  
CONNECTION PROJECT**

**Weekly Construction Status Report**

**Docket#: PU-11-605 and PU-11-606**

**June 24, 2013 through June 28, 2013**

<i>Contacts</i>	<i>Name</i>	<i>Company</i>	<i>Office</i>	<i>Cell</i>
Project Manager- Grenora	Tim Kinney	Enbridge	715-857-9005	505-320-0207
Project Manager- Little Muddy	Tim Clausnitzer	Enbridge	715-857-9004	701-319-8606

**Pipeline Construction**

**This Week's Activities**

- No activity this week.(Grenora)
- Pipeline Complete(Little Muddy)

**Next Week's Activities**

- No activity planned. (Grenora)
- Pipeline Complete(Little Muddy)

**Little Muddy to East Fork**

Clearing	100%	Complete	Trenching	100%	Complete
Grading	100%	Complete	Lowering-in/Backfill	100%	Complete
Stringing	100%	Complete	Rough Cleanup	100%	Complete
Welding	100%	Complete	Hydro test	100%	Complete



## GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION CONNECTION PROJECT

### Weekly Construction Status Report

Docket#: PU-11-605 and PU-11-606

June 24, 2013 through June 28, 2013

### Facilities Construction

#### This Week's Activities

- Continue pulling cable(Grenora)
- Continue setting station instrumentation(Grenora)
- Continue ESB terminations(Grenora)
- Complete finish grade work(Little Muddy)
- Continue pipeline tie – in plans(Grenora)
- Continue Dry Commissioning(Grenora)
- Complete clay liner (Grenora)
- Complete finish grade work(Grenora)
- Reseed pipeline ROW(Little Muddy)

#### Next Week's Activities

- Continue pulling cable(Grenora)
- Continue ESB terminations(Grenora)
- Continue installing clay liner(Grenora)
- Start pipeline tie – in fabrication(Grenora)
- Continue Dry Commissioning(Grenora)
- Continue finish grad work(Little Muddy)
- Reseed pipeline ROW(Little Muddy)

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#### Grenora Expansion Project

<u>Activity</u>	<u>Station</u>
Civil Work	94% complete
Mechanical Work	96% complete
Tank Construction	96% complete

**Little Muddy Project (US)**

<u>Activity</u>	<u>Station</u>
Civil Work	99% complete
Mechanical Work	99% complete
Tank Work	98% complete

**Grenora Expansion Project Updates**

- Updated New Receivers to include metering and pressure control valve assemblies.
- Added New Switchgear Building due to change in Enbridge specification.
- Updated Tank Fill Manifold from 10" to 12".
- Updated Booster pumps from 125 HP to 200 HP.
- Updated Main line pumps from 1500 HP to 2000 HP.
- Increased station piping by 1780 ft.

**Little Muddy Expansion Project Updates**

- Update Booster pumps from 125 HP to 150 HP.
- Update Tank Fill Manifold from 10" to 12".
- Added New Switchgear Building due to change in Enbridge specifications.
- Eliminated transformer from the scope of the project.
- Abandoned existing ground bed and installed new deep well and rectifier.



**GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION  
CONNECTION PROJECT**

**Weekly Construction Status Report**

**Docket#: PU-11-605 and PU-11-606**

**June 17, 2013 through June 21, 2013**

<i>Contacts</i>	<i>Name</i>	<i>Company</i>	<i>Office</i>	<i>Cell</i>
Project Manager- Grenora	Tim Kinney	Enbridge	715-857-9005	505-320-0207
Project Manager- Little Muddy	Tim Clausnitzer	Enbridge	715-857-9004	701-319-8606

**Pipeline Construction**

**This Week's Activities**

- No activity this week.(Grenora)
- Pipeline Complete(Little Muddy)

**Next Week's Activities**

- No activity planned. (Grenora)
- Pipeline Complete(Little Muddy)

**Little Muddy to East Fork**

Clearing	100%	Complete	Trenching	100%	Complete
Grading	100%	Complete	Lowering-in/Backfill	100%	Complete
Stringing	100%	Complete	Rough Cleanup	100%	Complete
Welding	100%	Complete	Hydro test	100%	Complete



## GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION CONNECTION PROJECT

### Weekly Construction Status Report

Docket#: PU-11-605 and PU-11-606

June 10, 2013 through June 14, 2013

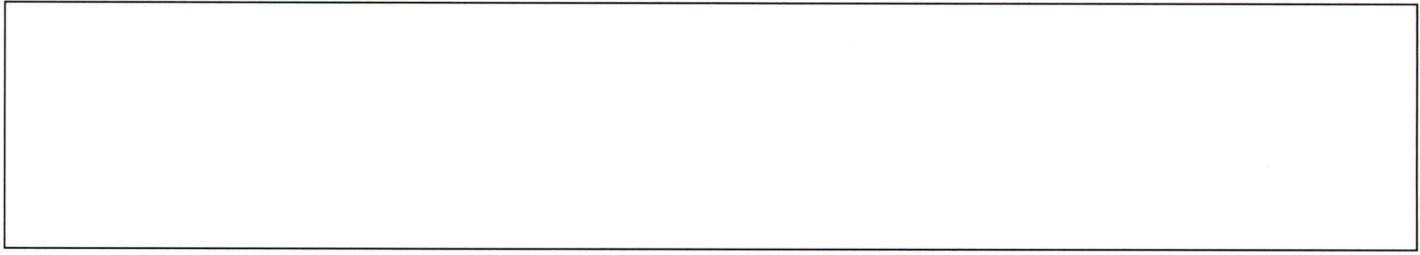
### Facilities Construction

#### This Week's Activities

- Continue pulling cable(Grenora)
- Continue setting station instrumentation(Grenora)
- Continue ESB terminations(Grenora)
- Continue finish grade work(Little Muddy)
- Continue pipeline tie – in plans(Grenora)
- Continue Dry Commissioning(Grenora)
- Finish Wet Commissioning(Little Muddy)
- Continue Contractor Demobilization(Little Muddy)
- Continue installing clay liner(Grenora)
- Continue finish grade work(Grenora)

#### Next Week's Activities

- Continue pulling cable(Grenora)
- Continue ESB terminations(Grenora)
- Continue installing clay liner(Grenora)
- Continue pipeline tie – in plans(Grenora)
- Continue Dry Commissioning(Grenora)
- Continue finish grad work(Little Muddy)
- Complete finish grade work(Grenora)
- Complete clay liner(Grenora)
- Reseed pipeline ROW(Little Muddy)



<b><u>Grenora Expansion Project</u></b>	
<b><u>Activity</u></b>	<b><u>Station</u></b>
Civil Work	92% complete
Mechanical Work	96% complete
Tank Construction	96% complete

<b><u>Little Muddy Project (US)</u></b>	
<b><u>Activity</u></b>	<b><u>Station</u></b>
Civil Work	98% complete
Mechanical Work	99% complete
Tank Work	98% complete

- Grenora Expansion Project Updates**
- Updated New Receivers to include metering and pressure control valve assemblies.
  - Added New Switchgear Building due to change in Enbridge specification.
  - Updated Tank Fill Manifold from 10" to 12".
  - Updated Booster pumps from 125 HP to 200 HP.
  - Updated Main line pumps from 1500 HP to 2000 HP.
  - Increased station piping by 1780 ft.

- Little Muddy Expansion Project Updates**
- Update Booster pumps from 125 HP to 150 HP.
  - Update Tank Fill Manifold from 10" to 12".
  - Added New Switchgear Building due to change in Enbridge specifications.
  - Eliminated transformer from the scope of the project.
  - Abandoned existing ground bed and installed new deep well and rectifier.



**GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION  
CONNECTION PROJECT**

**Weekly Construction Status Report**

**Docket#: PU-11-605 and PU-11-606**

**June 10, 2013 through June 14, 2013**

<i>Contacts</i>	<i>Name</i>	<i>Company</i>	<i>Office</i>	<i>Cell</i>
Project Manager- Grenora	Tim Kinney	Enbridge	715-857-9005	505-320-0207
Project Manager- Little Muddy	Tim Clausnitzer	Enbridge	715-857-9004	701-319-8606

**Pipeline Construction**

**This Week's Activities**

- No activity this week.(Grenora)
- Pipeline Complete(Little Muddy)

**Next Week's Activities**

- No activity planned. (Grenora)
- Pipeline Complete(Little Muddy)

**Little Muddy to East Fork**

Clearing	100%	Complete	Trenching	100%	Complete
Grading	100%	Complete	Lowering-in/Backfill	100%	Complete
Stringing	100%	Complete	Rough Cleanup	100%	Complete
Welding	100%	Complete	Hydro test	100%	Complete



## GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION CONNECTION PROJECT

### Weekly Construction Status Report

Docket#: PU-11-605 and PU-11-606

June 10, 2013 through June 14, 2013

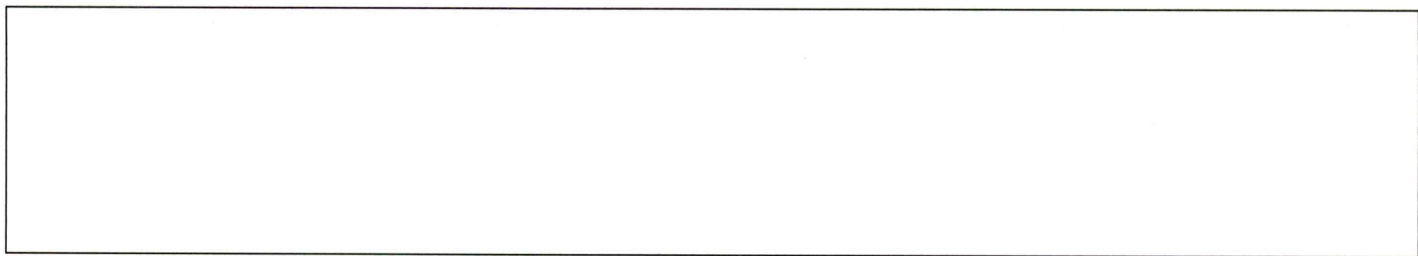
### Facilities Construction

#### This Week's Activities

- Continue pulling cable(Grenora)
- Continue setting station instrumentation(Grenora)
- Continue ESB terminations(Grenora)
- Continue finish grade work(Little Muddy)
- Continue pipeline tie – in plans(Grenora)
- Continue Dry Commissioning(Grenora)
- Finish Wet Commissioning(Little Muddy)
- Continue Contractor Demobilization(Little Muddy)
- Continue installing clay liner(Grenora)
- Continue finish grade work(Grenora)

#### Next Week's Activities

- Continue pulling cable(Grenora)
- Continue ESB terminations(Grenora)
- Continue installing clay liner(Grenora)
- Continue pipeline tie – in plans(Grenora)
- Continue Dry Commissioning(Grenora)
- Continue finish grad work(Little Muddy)
- Continue finish grade work(Grenora)



**Grenora Expansion Project**

<u>Activity</u>	<u>Station</u>
Civil Work	90% complete
Mechanical Work	96% complete
Tank Construction	96% complete

**Little Muddy Project (US)**

<u>Activity</u>	<u>Station</u>
Civil Work	96% complete
Mechanical Work	99% complete
Tank Work	98% complete

**Grenora Expansion Project Updates**

- Updated New Receivers to include metering and pressure control valve assemblies.
- Added New Switchgear Building due to change in Enbridge specification.
- Updated Tank Fill Manifold from 10" to 12".
- Updated Booster pumps from 125 HP to 200 HP.
- Updated Main line pumps from 1500 HP to 2000 HP.
- Increased station piping by 1780 ft.

**Little Muddy Expansion Project Updates**

- Update Booster pumps from 125 HP to 150 HP.
- Update Tank Fill Manifold from 10" to 12".
- Added New Switchgear Building due to change in Enbridge specifications.
- Eliminated transformer from the scope of the project.
- Abandoned existing ground bed and installed new deep well and rectifier.



**GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION  
CONNECTION PROJECT**

**Weekly Construction Status Report**

**Docket#: PU-11-605 and PU-11-606**

**June 3, 2013 through June 7, 2013**

<i>Contacts</i>	<i>Name</i>	<i>Company</i>	<i>Office</i>	<i>Cell</i>
Project Manager- Grenora	Tim Kinney	Enbridge	715-857-9005	505-320-0207
Project Manager- Little Muddy	Tim Clausnitzer	Enbridge	715-857-9004	701-319-8606

**Pipeline Construction**

**This Week's Activities**

- No activity this week.(Grenora)
- Pipeline Complete(Little Muddy)

**Next Week's Activities**

- No activity planned. (Grenora)
- Pipeline Complete(Little Muddy)

**Little Muddy to East Fork**

Clearing	100%	Complete	Trenching	100%	Complete
Grading	100%	Complete	Lowering-in/Backfill	100%	Complete
Stringing	100%	Complete	Rough Cleanup	100%	Complete
Welding	100%	Complete	Hydro test	100%	Complete



## GRENORA STATION UPGRADE PROJECT / LITTLE MUDDY STATION CONNECTION PROJECT

### Weekly Construction Status Report

Docket#: PU-11-605 and PU-11-606

June 3, 2013 through June 7, 2013

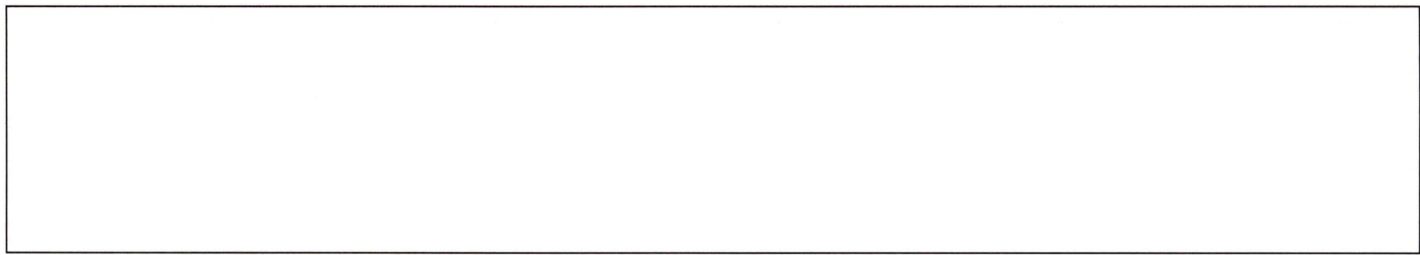
### Facilities Construction

#### This Week's Activities

- Continue pulling cable(Grenora)
- Continue setting station instrumentation(Grenora)
- Continue ESB terminations(Grenora)
- Continue finish grade work(Little Muddy)
- Continue pipeline tie – in plans(Grenora)
- Continue Dry Commissioning(Grenora)
- Finish Wet Commissioning(Little Muddy)
- Continue Contractor Demobilization(Little Muddy)
- Finish installing clay liner(Little Muddy)
- Continue installing clay liner(Grenora)

#### Next Week's Activities

- Continue pulling cable(Grenora)
- Continue ESB terminations(Grenora)
- Continue installing clay liner(Grenora)
- Continue pipeline tie – in plans(Grenora)
- Continue Dry Commissioning(Grenora)
- Continue finish grad work(Little Muddy)
- Start finish grade work(Grenora)



<b><u>Grenora Expansion Project</u></b>	
<b><u>Activity</u></b>	<b><u>Station</u></b>
Civil Work	88% complete
Mechanical Work	96% complete
Tank Construction	96% complete

<b><u>Little Muddy Project (US)</u></b>	
<b><u>Activity</u></b>	<b><u>Station</u></b>
Civil Work	95% complete
Mechanical Work	99% complete
Tank Work	98% complete

- Grenora Expansion Project Updates**
- Updated New Receivers to include metering and pressure control valve assemblies.
  - Added New Switchgear Building due to change in Enbridge specification.
  - Updated Tank Fill Manifold from 10" to 12".
  - Updated Booster pumps from 125 HP to 200 HP.
  - Updated Main line pumps from 1500 HP to 2000 HP.
  - Increased station piping by 1780 ft.

- Little Muddy Expansion Project Updates**
- Update Booster pumps from 125 HP to 150 HP.
  - Update Tank Fill Manifold from 10" to 12".
  - Added New Switchgear Building due to change in Enbridge specifications.
  - Eliminated transformer from the scope of the project.
  - Abandoned existing ground bed and installed new deep well and rectifier.