

Date May 21, 2020

PROJECT Pleasure Creek Biochar- and Iron-
Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day
 Weather
 Temp. °F
 Wind
 Humidity

S	M	T	W	Th	F	S
Bright Sun	Sunny	Over- cast	Rain	Snow		
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 36			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
3:30-4:30	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Skidsteer and multiple attachments

Unusual Items

EPG indicated the pump passed bench testing and they are finishing up work on the control panel. System should be available for delivery and install soon.

Noted some water backfilling into pretreatment manhole from upstream structures. Unclear at this point if source of water is residual water still draining out or if additional leaks exist that need to be repaired.

Construction Activities

Crew installed snout in pretreatment manhole, installed bollards, removed excess materials and demobilized equipment from site. Trail opened by removal of construction signage. Minimal materials (conduit, gate valve, pipe section) remain onsite for final touchup work. Crew plans to return next week when pump and controls are available, and more is known on how to resolve the leaking pretreatment manhole structure issue. Will conduct tracer wire test next week as well.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date May 20, 2020

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	T	<u>W</u>	Th	F	S
Bright Sun	<u>Sunny</u>	Over- cast		Rain		Snow
<32	32-50	<u>50-70</u>	<u>70-85</u>	85-100	>100	
Still	<u>Moder.</u>	High	Report No. 35			
Dry	<u>Moder.</u>	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
Name	Representing	Remarks	
Jon Janke	Coon Creek Watershed District		

Equipment at the Site

Skidsteer and multiple attachments

Unusual Items

Looking into replacement trail apron. Asphalt apron is functional and will either suffice long term or until new apron can be installed.

Looking into options to completely seal off leaks in pretreatment manhole between the structure and pipe. Engineer recommended considering drilling holes into the leaking area from the inside and then backfilling with an epoxy.

Construction Activities

Crew worked on plugging pretreatment manhole pipe and dewatering structure, installing remaining seed and erosion control blanket and site cleanup.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date May 19, 2020

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day
 Weather
 Temp. °F
 Wind
 Humidity

S	M	T	W	Th	F	S
Bright Sun	Sunny		Over-cast	Rain		Snow
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 34			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
12:00-1:00	Jon Janke	Coon Creek Watershed District	
12:30-1:00	Ed Matthiesen	Wenck Associates, Inc	

Equipment at the Site

Skidsteer and multiple attachments, mini backhoe, trail paving equipment.

Unusual Items

Construction Activities

Engineer onsite reviewed and confirmed biochar was sufficiently well mixed to proper depth throughout filter media.

T.A. Schifsky and Sons completed trail paving. Existing trail apron was damaged and removed. Crew extended asphalt paving to back of curb with a flare and slope equivalent to the previous trail apron. Plan is to keep trail closed signs in place until construction is complete.

Crew placed riprap around distribution heads, seeded and blanketed disturbed areas between trail and road and began dewatering pretreatment manhole. Discovered small water leak in downstream pretreatment manhole doghouse. Crew plan to secure tracer wire, install remaining plumbing, bollards, pump, control panel and complete seeding and blanketing later this week.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date May 18, 2020

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day
 Weather
 Temp. °F
 Wind
 Humidity

S	M	T	W	Th	F	S
Bright	Sunny	Over-	Rain	Snow		
Sun		cast				
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 33			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
Name	Representing	Remarks	
8:00-9:00	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Skidsteer and multiple attachments, mini backhoe.

Unusual Items

Removed debris obstructing trash rack on downstream end of culvert under Pleasure Creek Parkway.

Construction Activities

The crew used the bucket of a mini backhoe to mix the biochar with the iron sand media and raked the basin by hand to level the media to final grade. Bologs remain along the perimeter of the project area and filter socks were installed along perimeter of the filter media cells. Replaced northern Y sample port junction with a T junction. Crew noted significant soil saturation approximately 4 feet below ground. Removed floating silt curtains now that biologs are in place. Final grading and preparation for seeding. Crew plans to seed and blanket and pave the trail tomorrow.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date May 15, 2020

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day
 Weather
 Temp. °F
 Wind
 Humidity

S	M	T	W	Th	F	S
Bright	Sunny	Over-	Rain	Snow		
Sun		cast				
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 32			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
9:00-10:00	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Skidsteer and multiple attachments.

Unusual Items

Construction Activities

Crew continued working on mixing biochar with iron-sand media. Attempts to mix media with skidsteer tiller attachments has so far been unsuccessful. Level logger conduit installed. Crew to begin working on pretreatment manhole plumbing fixtures and other miscellaneous tasks. Crew plans to return to site on next week to install pump components and repave trail.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date May 14, 2020

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day
 Weather
 Temp. °F
 Wind
 Humidity

S	M	T	W	Th	F	S
Bright Sun	Sunny	Over-cast	Rain	Snow		
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 31			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
3:00-5:00	Jon Janke	Coon Creek Watershed District	
3:00-3:30	Eric Raatsi	City of Blaine	

Equipment at the Site

Skidsteer and multiple attachments.

Unusual Items

Installed brochure holder and stocked with brochure at construction site message center.

Discussed Connexus and control panel installation with Killmer Electric and approved adding a AB HIM module to allow programming the VFD without being exposed to high voltage.

Construction Activities

16 1.8CY totes of biochar was delivered to site, spread over south filter cell and initially tilled in with skidsteer auger attachment. Crew plans to mobilize a tiller tomorrow to ensure proper mixing of filter media.

Bollards and electrical conduit delivered to site.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date May 13, 2020

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	T	W	Th	F	S
Bright Sun	Sunny		Over- cast	Rain	Snow	
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 30			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
Time	Name	Representing	Remarks
3:30-4:00	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Skidsteer and multiple attachments.

Unusual Items

Considered field change to plant 34-261 seed mix along pond bank (trail to pond) and restore remaining disturbed area with Petersons specialized park turf mix.

Considered alternative installation options to install level logger low voltage logger. Design indicates burying wire within central berm however contractor requesting recommendation to install wire beneath impermeable liner along edge of filter.

Discussed modifying northern sample port existing wye union with a tee union to facilitate with future water quality monitoring sampling.

Construction Activities

Crew resumed construction. Removed remaining trail bituminous that is to be replaced. Approximately 2" of bituminous and 2" of base aggregate was observed throughout the existing trail. 1 load of base aggregate was delivered to the site and spread along the trail to achieve a 4' base. Spread topsoil over all disturbed areas to final grade and hauled excess material offsite. Graded central berm to final grade. Removed all damaged silt fence from site as biologs have been installed instead.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date May 12, 2020

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day
 Weather
 Temp. °F
 Wind
 Humidity

S	M	T	W	Th	F	S
Bright Sun	Sunny		Over-cast	Rain		Snow
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 29			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
2:30-3:00	Jon Janke	Coon Creek Watershed District	
2:30-3:00	Ed Matthiesen	Wenck Associates Inc	
2:30-3:00	Erik Megow	Wenck Associates Inc	

Equipment at the Site

Unusual Items

Spring construction has been delayed due to COVID-19.

Several residents have called requesting a construction status update and wondering when the trail will be reopened.

Contractor, Engineer and Owner met onsite to review site conditions, discuss outstanding work and update the punch list. Contractor plans to resume work tomorrow (Wednesday) and complete construction by the end of June.

Punchlist

- COVID related updates to site health and safety plan
- Provide updated construction schedule
- Maintain erosion control as needed (remove downstream silt curtain, repair upstream silt curtain, remove damaged silt fence, refresh biorolls as needed until stabilization)
- Witness or confirm EPG pump benchmark testing
- Install pump, level loggers, pump controls and pump components
- Verify all plumbing components are installed (flow meter, valves...)
- Grade central berm and adjacent area to final grade
- Till in biochar in southern filter cell when material becomes available and site conditions allow
- Install riprap around distribution heads of southern filter cell once biochar is installed and media is at final grade
- Fold in or cut off excess liner material along edge of filter media
- Patch structure chips as needed
- Verify structure grout remains functional
- Coordinate tracer wire connectivity test with City of Blaine
- Verify Connexus Energy service distribution is complete
- Install 2 6" bollards on the trail side of the transformer pad
- Remove remaining trail and install new bituminous
- Assess sidewalk, curb and road condition and repair as needed
- Install landscape vegetation along perimeter of filter
- Seed and install erosion control blanket over disturbed areas
- Replace northern sample port Y with T

- Exercise gate valves to ensure working properly

Punchlist (continued)

- Install 4" threaded female cap with male plug to drainpipe between valve vault and lift station
- Soft start filter for 1-2 days to flush filter media prior to hard start
- Schedule site walkthrough 1-2 days prior to demobilizing from site
- Remove silt fence, floating silt curtain, inlet protection, construction fencing and biologists once vegetation is established
- Remove equipment, signage, excess materials, trash and debris
- Provide as-builts
- Provide IC134 affidavit prior to retainage release and final payment
- Initiate weekly progress meetings as needed
- Install brochure holder and brochures
- Share photos and documents near end of project

Construction Activities

Site cleanup and preparation to resume work.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date February 24, 2020

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	T	W	Th	F	S
Bright Sun	Sunny	Over-cast	Rain	Snow		
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 28			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
9:30-12:00	Jon Janke	Coon Creek Watershed District	
11:00-12:00	Eric Raatsi	City of Blaine	

Equipment at the Site

Backhoe, skidsteer with multiple attachments including sweeper, storage container.

Unusual Items

No brochures remain in message center. Numerous brochures taken since last checked on 2-20-2020; likely due to increased trail usage with warmer temperatures. Owner will add more brochures tomorrow.

Transformer pad and bollards all removed since bollards were installed on 1-8-2020. Contractor and Connexus Energy coordinating energy service distribution.

Owner will install temporary combination hatch locks for the 3 structure hatches to provide safety, security and accessibility. City of Blaine can install city locks post construction.

Some road deterioration and settling becoming apparent as daily temperatures are starting to be above freezing. Many cracks and potholes present in area outside of construction area. Road likely due for replacement in next few years. Will continue to monitor and determine what/if any road repairs are necessary in the spring as a result of construction activities.

Construction Activities

Structure hatches, outlet grate and replacement outlet control structure barrel delivered to site. Structures were stored on top of wood boards to keep clean from site dirt and debris. Structures were inspected and found to be within specifications. One small surficial chip was identified on a corner of valve vault hatch.

Hatch installation for lift station, pretreatment manhole and valve vault-contractor removed temporary hatch from structure, cleared snow, ice, dirt and debris from top of structure and adjacent work area using a torch and shovel, torch dried and swept top of structure, placed manufacture supplied butyl gasket, heated gasket with torch. Hatch lifted with lift rings, chains and backhoe, oriented so hinges face away from structure ladder as indicated on design plans, and slowly, level, placed on top of the structure. Chains were removed, wood board was placed on top of hatch and light pressed was applied with the backhoe bucket to ensure proper seal bonding between the structure and hatch, process was repeated around hatch to ensure seal bond throughout perimeter of structure.

Outlet control structure barrel installation- contractor expressed concern about installing barrel using a greased o-ring as recommended by the manufacturer. A previous attempt on 12-3-2019 to install the barrel resulted in unrepairable damage to the structure that took nearly 3 months to fabricate and deliver a replacement barrel. The exact cause of the previous damage is unknown however the contractor believes the likely cause was the greased o-ring created too tight a seal. Other factors could have been a structure defect, undetected structural damage caused prior to installation, site conditions during

installation, improper installation technique...or a combination of factors. Owner contacted structure manufacture (Wieser Concrete 1-800-325-8456) who stated that they dry fit their structures monthly to ensure quality control and do prefer installation with a greased o-ring. Manufacture suggested an acceptable alternative installation method of placing butyl seals along the top of the bell and around the seam to create two layers or a redundant seal. Owner approved contractor to proceed using alternative installation technique using butyl seals. Contractor removed temporary hatch and previously damaged barrel from structure, cleared snow, ice, dirt and debris from top of structure and adjacent work area using a torch and shovel, torch dried and swept top of structure, placed butyl gaskets along the top of the bell and around the seam to create two layers or a redundant seals, heated gasket with torch. Barrel lifted with lift keys, chains and backhoe, oriented so lowest elevation face towards the central filter berm as indicated on design plans, slowly placed on top of the structure, and rotated slightly to correct alignment. Chains were removed, wood board was placed on top of barrel and light pressed was applied with the backhoe bucket to ensure proper seal bonding between the structure and barrel, process was repeated around hatch to ensure seal bond throughout perimeter of structure. Contractor additionally cleaned and drier exterior seam and applied a gator wrap over the exterior seam for additional insurance.

Outlet control structure grate installation-contractor installed bolts using a hammer drill and secured grate to structure using manufacturer supplied nuts.

Backfilled topsoil around outlet control structure and sample ports to rough grade. Top-dressed central berm with topsoil. Will grade to final grade in spring when site conditions are more favorable.

Plan to demobilize backhoe, temporary hatches, damaged barrel and remaining debris later this week. Contractor to return when pump, biochar and/or electrical service ready for installation.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date January 8, 2020

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	T	<u>W</u>	Th	F	S
Bright Sun	Sunny	Over- cast		Rain		Snow
<u><32</u>	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 27			
<u>Dry</u>	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
9:45-10:00	Jon Janke	Coon Creek Watershed District	
9:45-10:00	Ed Matthiesen	Wenck Associates	

Equipment at the Site

Backhoe, skidsteer with multiple attachments including sweeper.

Unusual Items

Wenck provided valve vault test memo for file and future reference.

Construction Activities

Cleanouts cut 2' above media and capped with grate. Tracer wire tied into grate. Owner may cover cleanouts with fake boulder in future for aesthetic purposes and/or secure top grate with hinge or pin for secured easy access in the future.

Distribution heads cut 4-6' above media and grate secured to top. Heads on iron-sand side covered with class II angular basalt riprap. Remaining riprap stockpiled onsite until biochar is mixed in. Owner may top-dress riprap with a river rock in the future for aesthetic purposes.

Gate valve and sample ports cut 1' above media and capped. Owner may cover cleanouts with fake boulder in future for aesthetic purposes and/or modify cap for ease of future access.

Bollards covered with blankets to aid in the concrete curing process.

Site cleanup and removal of garbage and excess material.

Crew will not return to site until pump and/or hatch components are ready for installation.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date January 7, 2020

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	T	W	Th	F	S
Bright Sun	Sunny	Over- cast	Rain	Snow		
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 26			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
10:00-12:00	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Backhoe, skidsteer with multiple attachments including sweeper.

Unusual Items

Delivery of structure hatches not anticipated until February. Large backhoe needed to maneuver hatches will remain onsite.

4 yards of concrete were delivered to site and used for structures and bollards.

Clarifications on design components.

- Cleanouts are to be cut 2' above media to allow for future access in a worst-case scenario where the filter plugs and is full of water. Owner may cover cleanouts with fake boulder in future for aesthetic purposes.
- Gate valve and sample ports are to be cut 1' above media to allow for some ponding of water over media before overflowing. Owner may cover cleanouts with fake boulder in future for aesthetic purposes.
- Distribution heads are to be cut 0.25' (4") above media and covered with class II angular riprap (no limestone) so that the bar guards are not visible. Owner may top-dress riprap with a river rock in the future for aesthetic purposes.

Construction Activities

OCS-1-area around structure already excavated. Dewatered pooled water in bottom of structure. Poured concrete into structure to fill base even with pipe inverts. This differs from design however will prevent water pooling in the structure and future ice issues. Hand spread concrete over pipe annulus areas and shaped base for free flow of water between pipes.

Pretreatment manhole-Doghouse patch. Excavated around structure to expose 15" PVC pipe on north and south side of structure. Re-inflated pipe ball plug in upstream most pipe and dewatered within and around structure. Dugout material 6-12" below 15" PVC pipe and approximately 5' out from structure. Poured generous amount of concrete over 15" PVC pipe using shovel to ensure material is pressed under pipe. Allowed concrete to set for several hours. Backfilled around structure.

Lift Station- Doghouse patch. Excavated around structure to expose 15" PVC pipe on north side of structure. Dewatered within and around structure. Dugout material 6-12" below 15" PVC pipe and approximately 5' out from structure. Poured generous amount of concrete over 15" PVC pipe using shovel to ensure material is pressed under pipe. Allowed concrete to set for several hours. Backfilled around structure.

Bollards (N=4)- Hole and bollards tubes previously installed by Killmer Electric. Used cutoff traffic cone as funnel to fill bollards with concrete. Hand worked excess concrete to form a smoothed cone shaped top.

Plan is to complete gate valve, cleanout and distribution components to finished details on Tuesday. May not return to site until pump and/or hatch components are ready for installation.

Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Blaine
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date December 24, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day
 Weather
 Temp. °F
 Wind
 Humidity

S	M	<u>T</u>	W	Th	F	S
Bright Sun	Sunny	<u>Over-</u> cast	Rain	Snow		
<32	<u>32-50</u>	50-70	70-85	85-100	>100	
Still	<u>Moder.</u>	High	Report No. 25			
Dry	<u>Moder.</u>	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
Name	Representing	Remarks	

Equipment at the Site
 Backhoe, skidsteer with multiple attachments including sweeper.

Unusual Items

Construction Activities
 Installed 360' of bioglog to protect the entire gutter line and also around the sand cells in front of any loose piles of material.

Crew plans to not be back on site until after Jan 1st.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date December 23, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	T	W	Th	F	S
Bright Sun	Sunny	Over-cast	Rain	Snow		
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 24			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
3:00-3:30	Jon Janke	Coon Creek Watershed District	
3:00-3:30	Ed Matthiesen	Wenck Associates	

Equipment at the Site

Backhoe, skidsteer with multiple attachments including sweeper.

Unusual Items

Punchlist items:

- Valve vault load test report for file.
- Change order 1 (trail replacement, 15" storm pipe material, pump, vegetation plan, bollards)
- Coordinate tracer wire connectivity test.
- Outlet control structure section replacement and hatch installation. Large backhoe to remain onsite until structure and hatch work is complete.
- Backfill around OCS-a when structure and hatch installation is complete
- Dog houses (annulus area) and backfilling bollards planned to be completed in January/February when weather and schedules align.
- Patch structure chips (when dog houses or hatches installed).
- Cutoff excess material from cleanout and distribution heads.
- Monitor road and trail damages.
- Export excess iron-sand and coarse aggregate.
- Till in biochar when acceptable material is available
- Restore disturbed area with turf. May require tilling and topsoil to counter compaction and iron-sand residue.

Construction Activities

Biologs were installed in areas silt fence was damaged by snow plow and/or construction activities. Contractor installed available biologs onsite in areas of highest importance (stockpiles, loose material...) but did not have enough onsite to secure the site. Contractor plans to return Tuesday with additional biologs and finish securing the site.

Linear hairline cracks found along curb line where trucks were entering site. Cracks do not appear to be a cause for concern now but should be monitored for further deterioration and repaired during site restoration.

Excess liner remains visible (approximately 6-12") above filter media. Engineer agreed to tuck/roll excess liner material along perimeter of filter media once media is at final grade.

Clay berm rough graded with some dips and sag points. Contractor to top-dress berm with topsoil and smooth to final grade.

Tracer wire installed throughout piping system and remain exposed at all openings. Coordinate tracer wire connectivity test. Holiday break-no work planned until after January 3, 2020.

Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Blaine
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date December 20, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day
 Weather
 Temp. °F
 Wind
 Humidity

S	M	T	W	Th	F	S
Bright Sun	Sunny	Over- cast	Rain	Snow		
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 23			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
11:30-12:00	Jon Janke	Coon Creek Watershed District	
11:30-12:00	Mario Frucci	Coon Creek Watershed District	

Equipment at the Site

Backhoe, skidsteer with multiple attachments including sweeper.

Unusual Items

Construction Activities

Site cleanup, biolog installation along roadside and demobilize mini excavator.

Filter components and media installed. Distribution and cleanout pipes have extended PVC sections on them which will get cut to final elevation when screens are installed. Contractor plans to fold excess liner along the perimeter of the media rather than trimming the excess to allow for future modifications if needed. Are not backfilled around outlet control structure to allow for section replacement and hatch installation.

Approximately ½ load of excess iron-sand stockpiled onsite.

Control structure section replacement, hatch installation, dog houses (annulus area) and backfilling bollards planned to be completed in January/February when weather and schedules align. Large backhoe to remain onsite until structure and hatch work is complete.

Holiday break-no work planned until after January 3, 2020.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date December 19, 2019

 PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

 Day
 Weather
 Temp. °F
 Wind
 Humidity

S	M	T	W	Th	F	S
Bright Sun	Sunny	Over-cast	Rain	Snow		
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 22			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
12:00-12:45	Jon Janke	Coon Creek Watershed District	
12:00-12:45	Mario Frucci	Coon Creek Watershed District	

Equipment at the Site

Backhoe(s), skidsteer with multiple attachments including sweeper.

Unusual Items

Bollards required by Connexus to be installed on all four corners of transformer pad. Contractor and Engineer to discuss cost and include in change order.

Construction Activities

Killmer Electric installed transformer pad and 4 bollard posts (no concrete) as detailed by Connexus. Plan is to pour concrete when dog houses are completed.

Dog houses (annulus area) planned to be patched on Friday or Monday. Contractor determining best method the ensure structures are mostly free of ice and dewatered.

South basin (iron-sand) mostly installed. Liner, plumbing, coarse aggregate and iron-sand installed. Clean outs and distribution head have temporary risers.

North basin (biochar) partially installed. Liner and some plumbing installed. Coarse aggregate and most of irons sand onsite and ready to be installed when plumbing complete. Contractor will leave space for biochar addition in future.

Backhoe planned to remain onsite until outlet control structure and hatches are installed in January/February.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date December 18, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day
 Weather
 Temp. °F
 Wind
 Humidity

S	M	T	W	Th	F	S
Bright Sun	Sunny	Over-cast	Rain	Snow		
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 21			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
9:00-9:30	Jon Janke	Coon Creek Watershed District	
9:00-9:30	Erik Megow	Wenck Associates	

Equipment at the Site

Backhoe(s), skidsteer with multiple attachments including sweeper.

Unusual Items

Weekly progress meeting- representatives from Coon Creek Watershed District, Wenck Associates and Peterson Companies present.

Discussed: Last weekly progress meeting until rescheduled as needed. Invoice (with load tickets and material receipts) due December 27 to Engineer. Contractor encouraged to submit invoice prior to holiday break. Schedule is to install liner, plumbing, coarse aggregate and iron sand this week, then patch annulus Monday or Tuesday and demobilize large equipment Tuesday or Wednesday. No construction planned between Christmas and New Year's. Reattempt grouting annulus between 15" pipe and structures rather than using flexible material, Wenck formal approval of valve vault load test, structure chips to be patched when hatches installed, replacement outlet control structure ordered, hope to install OCS replacement while equipment remains onsite before the holiday, OCS installation coordinate presence of city, owner and/or engineer, biochar supply delay and alternatives, outstanding pump submittals, transformer pad size and placement, adding bollards between trail and transformer pad to protect against plows and maintenance equipment, tracer wire testing, trail and vegetation change cost estimates, change order 1 to include 15" pipe type, pump specifications, vegetation species, additional trail replacement, spare actuator valve and 2 bollards for transformer pad. Install biologs along roadside when equipment demobilized.

Action items:

- Wenck- double check with geotechnical engineer to patch annulus with grout
- Peterson & Wenck- discuss vegetation species and additional trail replacement costs
- Peterson & Wenck- continue working biochar testing and supplier options
- Peterson- final pump submittal
- Peterson- patch structure chips when hatches installed
- Wenck- final approval for valve vault repair and load test
- Wenck- change order 1
- Coon Creek- summarize meeting and distribute to contacts

Construction Activities

Schedule is to install liner, plumbing, coarse aggregate and iron sand this week, then patch annulus Monday or Tuesday and demobilize large equipment Tuesday or Wednesday. No construction planned between Christmas and New Year's.

Delivery of coarse filter aggregate.

Installation of liner along north basin. Liner was housed in a temperature-controlled facility and covered with blankets when delivered to the site to maintain material flexibility. Basin was smoothed as much as reasonable to avoid liner punctures. Liner was laid in in strips along the short distance of the basin. Liner remained flexible during installation. Seams were sealed with glue. Distribution and drain pipes were inserted through liner at inlet and outlet ends respectively.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date December 17, 2019

 PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

 Day
 Weather
 Temp. °F
 Wind
 Humidity

S	M	T	W	Th	F	S
Bright	Sunny		Over-cast	Rain	Snow	
Sun						
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 20			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
11:30-12:00	Jon Janke	Coon Creek Watershed District	
11:30-12:00	Justine Dauphinais	Coon Creek Watershed District	
11:30-12:00	Ed Matthiesen	Wenck Associates	

Equipment at the Site

Backhoe(s), skidsteer with multiple attachments including sweeper.

Unusual Items

Killer Electric discovered that the premanufactured transformer pad from Connexus was larger than the plans indicated and that the larger pad would encroach on the adjacent trail. Onsite measurements confirmed the pad would approach the edge of the trail. Decision is to shrink the control pad to provide an additional 12-18" of space so the transformer pad can be shifted away from the trail. This will provide a gap to minimize future issues with trail usage and/or maintenance activities.

Construction Activities

Installation of liner along south basin. Liner was housed in a temperature-controlled facility and covered with blankets when delivered to the site to maintain material flexibility. Basin was smoothed as much as reasonable to avoid liner punctures. Liner was laid in in strips along the short distance of the basin. Liner remained flexible during installation. Seams were sealed with glue. Distribution and drain pipes were inserted through liner at inlet and outlet ends respectively.

Hauled remaining excess spoil material from site.

Schedule is to continue liner installation tomorrow then backfill with filter components by Friday.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date December 11, 2019

PROJECT	<u>Pleasure Creek Biochar- and Iron-Enhanced Sand Filter</u>	Day	S	M	T	W	Th	F	S
JOB NO.	<u>PAN 19-02, Wenck #B12390100-04</u>	Weather	Bright	Sunny		Over-	Rain	Snow	
CLIENT	<u>Coon Creek Watershed District</u>	Temp. °F	Sun			cast			
CONTRACTOR	<u>Peterson Companies, Inc.</u>	Wind	<32	32-50	50-70	70-85	85-100	>100	
PROJECT MANAGER	<u>Zak Milton</u>	Humidity	Still	Moder.	High	Report No. 19			
			Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
9:00-9:45	Jon Janke	Coon Creek Watershed District	
9:00-9:45	Ed Matthiesen	Wenck Associates	
9:00-9:45	Erik Megow	Wenck Associates	

Equipment at the Site

Backhoe(s), skidsteer with multiple attachments including sweeper.

Unusual Items

Weekly progress meeting- representatives from Coon Creek Watershed District, Wenck Associates and Peterson Companies present.

Discussed: methods to mud annulus between 15" pipe and structures, Wenck formal approval of valve vault load test, structure chips to be patched when hatches installed, replacement outlet control structure ordered, contractor distribute helical pile test results memo from Braun, pipe pressure test between valve vault and lift station, biochar supply delay and alternatives, pre-mixing biochar is preferred but tilling is allowed, outstanding pump submittals, electrical service installed with tracer wire and warning tape, tracer wire testing, trail and vegetation change cost estimates, change order 1 to include 15" pipe type, pump specifications, vegetation species, additional trail replacement and spare actuator valve.

Action items:

- Peterson & Wenck- determine annulus patch method
- Peterson & Wenck- continue working biochar supplier options
- Peterson- final pump submittal
- Peterson- patch structure chips when hatches installed
- Wenck- final approval for valve vault repair and load test
- Wenck- change order 1
- Coon Creek- summarize meeting and distribute to contacts

Annulus patch was decided to first reattempt to seal the space now that the site is more stable. A flexible material would assist with initial installation but may not have the longevity of grout.

Results of helical pile static load testing memo from Braun supplied by Contractor.

Construction Activities

Schedule is to return to the site next week for liner and filter component install.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer

4. Owner
5. City of Blaine
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date December 6, 2019

		Day	
PROJECT	<u>Pleasure Creek Biochar- and Iron-Enhanced Sand Filter</u>	Weather	
JOB NO.	<u>PAN 19-02, Wenck #B12390100-04</u>		
CLIENT	<u>Coon Creek Watershed District</u>	Temp. °F	
CONTRACTOR	<u>Peterson Companies, Inc.</u>	Wind	
PROJECT MANAGER	<u>Zak Milton</u>	Humidity	

S	M	T	W	Th	F	S
Bright	Sunny		Over- cast	Rain	Snow	
Sun						
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 18			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
12:45-1:45	Jon Janke	Coon Creek Watershed District	
1:00-1:15	Ed Matthiesen	Wenck Associates	
1:00-1:15	Paul Eickenberg	Wenck Associates	

Equipment at the Site

Side dump trucks, Backhoe(s), skidsteer with multiple attachments including sweeper.

Unusual Items
Construction Activities

4" sch 40 pvc pipe between lift station and valve vault installed with 2 angle unions to accommodate vertical elevation change between structures. Pressure test completed by pressurizing pipe with 5 psi for 30 minutes. Pressure test in project manual incorrectly requires minimum 150 psi for 2 hours which is for watermain and other stronger pipe scenarios. Communication between Engineer, contractor and city determined appropriate pressure and duration necessary. Green tracer wire installed over pipe and area backfilled.

Electrical service installed. Concrete pad required by connexus slightly larger than project specifications. Owner allowed contractor to adjust placement of larger concrete pad by shifting several feet from design. Tracer wire and red "caution buried electrical" tape installed over electrical service.

Distribution pipe was installed through valve vault and approximately 25 feet into filter area. Green tracer wire installed over pipe.

EPDM liner not installed. Contractor to house liner in climate control until installation for easier installation.

Schedule is to return to the site the end of next week or the week after once the site has had a chance to freeze and weather and schedule align for liner and filter component install.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date December 5, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day
 Weather
 Temp. °F
 Wind
 Humidity

S	M	T	W	Th	F	S
Bright	Sunny		Over-cast	Rain	Snow	
Sun						
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High		Report No. 17		
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
10:45-11:45	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Side dump trucks, Backhoe(s), skidsteer with multiple attachments including sweeper.

Unusual Items

Contractor will order and install a replacement outlet control structure ring section rather than repair the cracked portion. During initial placement Peterson waited until the afternoon high temperature, applied excessive grease to the gasket and was delicate in placing the structure. To avoid cracking of the replacement structure Peterson plans to repeat their process with an additional step of heating the structure and gasket to compensate for the cold site conditions.

Biochar supplier unable to supply material until spring. Contractor has found an alternative supplier in Oregon. Contractor obtaining and supplying material specifications to determine if they meet design specifications. Additional shipping cost.

Construction Activities

- Material delivery- Majority of drain tile delivered to site. Remaining drain tile available but not onsite yet. 6 rolls (50'x20') of 45 mil EPDM liner and sealant supplies delivered to site however will return to contractors' facility and remain in climate control until installation. Coarse aggregate delivery delayed until next week when liner is installed. 15" RCP removed from site.
- Material export- Shaw trucking side dump trucks hauled material from site. All excess soil material was exported from the site. Temporary stockpiles of topsoil and clay remain onsite for restoration and the berm.
- Grading-rough excavation of filter occurred with large backhoe during material export. Skidsteer and mini-backhoe were used to refine grade and shape of filter area. Survey, paint and lath accompanied final grading to confirm excavation meets design.
- Erosion control- side dump trucks remained on the road during material export to minimize tracking off the site. Some material spilled onto the road during loading. Street was swept. Silt fence alongside road was damaged so was removed and replaced with biologs. Site remains unfrozen however current weather forecast includes sub-zero temperatures over the next few days.
- Schedule-Filter footprint will be graded to final grade by the end of today and allow the site to freeze over the weekend. Friday installation and pressure test of pipe between valve vault and lift station. Will return next week to install liner and filter components.

Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Blaine
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date December 4, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	T	W	Th	F	S
Bright	Sunny	Over-	Rain	Snow		
Sun	cast					
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 16			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
9:00-9:45	Jon Janke	Coon Creek Watershed District	Weekly progress meeting
9:00-9:45	Justine Dauphinais	Coon Creek Watershed District	Weekly progress meeting
9:00-9:45	Ed Matthiesen	Wenck Associates	Weekly progress meeting
9:00-9:45	Erik Megow	Wenck Associates	Weekly progress meeting
9:00-9:45	Rebecca Haug	City of Blaine	Weekly progress meeting

Equipment at the Site

Side dump trucks, Backhoe(s), skidsteer with multiple attachments including sweeper.

Unusual Items

Weekly progress meeting- representatives from City of Blaine, Coon Creek Watershed District, Wenck Associates and Peterson Companies present.

Discussed: valve vault load test completed and passed, methods to mud annulus between 15" pipe and structures, pipe alignment between valve vault and lift station requires 22-45 degree angles added, hauling surcharge material offsite, primary disposal pit closed due to site conditions, alternative disposal pit operational, biochar supply delay, pre-mixing biochar is preferred but tilling is allowed, as-builts by contractor and verified by owner, project webpage for construction reports and updates, document and photo sharing post construction, message center removed and replaced with plywood signage, structure chips to be patched, contractor distribute helical pile test results memo from Braun, outstanding hatch and pump submittals, payment method for electrical service, directional bore, change order 1 to include 15" pipe type, pump specifications, vegetation species, additional trail replacement, spare actuator valve, drain tile anticipated delivery and Forterra's plans for removal of 15" RCP from site.

Action items:

- Peterson & Wenck- alternative material for annulus patch
- Peterson- hatch and pump submittals
- Wenck- final approval for valve vault repair and load test
- Wenck- change order 1
- Coon Creek- electrical payment and application
- Coon Creek- summarize meeting and distribute to contacts

Construction Activities

Began to haul excess material from site. 8+ side dump trucks (Shaw Trucking) routed between project site and alternative dump site. Trucks were staged on the road and loaded by a backhoe within the project site to avoid tracking material off the site. Material was excavated to final grade. Sufficient surcharge material remained onsite to construct berm between the filter cells.

Contractor plans to begin installation of liner, base aggregate, drain tile and filter media this week to stay ahead of predicted colder temperatures the following week.

Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Blaine
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date December 3 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	T	W	Th	F	S
Bright	Sunny	Over-	Rain	Snow		
Sun		cast				
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 15			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
10:00-10:30	Jon Janke	Coon Creek Watershed District	
12:45-1:15	Ed Matthiesen	Wenck	
1:15-2:15	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Backhoe(s), skidsteer with multiple attachments including sweeper.

Unusual Items

Outlet control structure damage- during installation an outer portion of the upper section cracked. The crack only appeared on the outside of the structure and likely stopping at the internal rebar. The crack is above the seam between the two sections. Recommendation is to remove damaged material and patch with appropriate concrete mix. Will discuss during weekly progress meeting tomorrow.

Construction Activities

Core drill the 4" line from the lift station to valve vault. Hole was successfully cut through the valve vault but was unable to complete the lift station hole due to the limited space between the structures. Engineer and Contractor discussed alternative methods and will attempt again.

Install OCS-1. Directionally bored outlet pipe was greased and the structure maneuvered with backhoe and chains to specified location and tolerances. 5 gallon buckets were placed over the drain tile boots to protect them until connection. Gaskets were placed and greased between the lower and upper sections. The upper structure section was placed using a backhoe and chains in the designed orientation.

Tentative plan is for electrical service to begin installation Wednesday and trucks will begin hauling excess material off site starting Wednesday. Will proceed to install filter components.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date December 2, 2019

PROJECT Pleasure Creek Biochar- and Iron-
Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day
 Weather
 Temp. °F
 Wind
 Humidity

S	<u>M</u>	T	W	Th	F	S
Bright Sun	Sunny	Over- cast	Rain	Snow		
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 14			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
Name	Representing	Remarks	

Equipment at the Site

Backhoe(s), skidsteer with multiple attachments including sweeper.

Unusual Items

Contractor and Engineer continued communication with biochar suppliers (National Carbon Technologies and American Biochar) for product availability and cost. National Carbon Technologies is currently out of stock due to large orders and American Biochar has stock but at a significantly higher cost. Attempting to work with National Carbon to obtain a partial order now to provide time for material to be produced.

Construction Activities

Removed the valve vault load test weight (29,880lbs) that was placed on November 26 and re-surveyed the top four corners of the structure. The survey detected <0.02' of movement between pre- and post-test; which is within the survey tolerance. No visual movement or cracking was observed. Communication with Engineer agreed that load test passed and approved contractor to proceed with construction activities. Noted that contractor continues to warranty their work and would fix/replace any structure damage should any occur in the future.

Contractor schedule update - intended on trucking excess material from surcharge on Tuesday December 3, but the pit is currently to wet to get trucks into. Instead contractor plans to install OCS-1 and core drill the 4" line from the lift station to valve vault on Tuesday.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date November 26, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day Weather
 Temp. °F Wind
 Humidity Report No. 13

S	M	T	W	Th	F	S
Bright	Sunny	Over-	Rain	Snow		
Sun	cast					
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 13			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
11:30-12:30	Jon Janke	Coon Creek Watershed District	
1:00-1:30	Eric Raatsi	City of Blaine	
1:00-2:00	Paul Eickenberg	Wenck	
1:00-2:00	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Backhoe(s), skidsteer with multiple attachments including sweeper.

Unusual Items

8:00 conference call Erik Megow, Ed Matthiesn, Paul Eickenberg, Zak Milton, Craig Johnson, Jon Janke

- Need to load test the valve vault concrete slab repair. Plan to complete a load test totaling 15 tons (weights + structure). Additional weight is included to compensate for missing top section. Post load test failures to look for are crack in slab and helical pile movement. Need to visualize slab post-test for a shear crack which should be obvious post-test. Contractor to survey top of structure before and after test to detect movement. Valve vault currently in place. Plan to begin load test today or tomorrow to stay ahead of weather and use holiday (Thanksgiving) long weekend to let test run extended time. Contractor to work internally to prepare for load test and communicate what time Engineer needs to be onsite to witness test. Owner will attempt to be onsite as well.
- Water seepage issue in annulus (gap between PCV pipe and structure opening). Contractor attempted grouting as planned however water seepage caused failure before grout could set. Contractor requests approval to use an alternative method. Contractor recommended using a spray/expandable foam. Contractor to discuss internally for alternative options. Engineer requested contractor to submit details for review and approval. Concern over flexibility of grout or other material should the structure or pipe move even slightly resulting in cracking of the material and water leakage.
- Request for contractor schedule update. Prior to thanksgiving contractor will survey top of valve vault, load vault with 15 tons, schedule Engineer representative to be present for initial load test, follow-up on material substitute for annulus area.

Construction Activities

Backfill around structures, caps on all installed structure openings and site clean-up in preparation for long weekend.

Utilized 3 metal plates and 21 pieces of sheet piling to initiate valve vault load test. Weight was calculated by measuring empty and loaded truck weights which gave a net weight of 29,880lbs. The 3 plates and 21 pieces of sheet piling were added to the top of the valve vault structure in the afternoon and left. Come Monday morning the weight can be removed from the structure to inspect the slab and determine if there has been any shear cracking or settling.

Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Blaine
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date November 25, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	<u>M</u>	T	W	Th	F	S
Bright Sun	Sunny	Over-cast	Rain	Snow		
<u><32</u>	<u>32-50</u>	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 12			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
3:00-4:00	Jon Janke	Coon Creek Watershed District	
3:30-4:00	Erk Megow	Wenck	

Equipment at the Site

Backhoe, skidsteer with multiple attachments including sweeper.

Unusual Items

Geotechnical engineer remains concerned about structural integrity of valve vault concrete pour. Plan was discussed to load test the slab (which would provide immediate results) by placing the structure on the slab with additional weights to simulate the structure being full of water. The structure would then be removed, and the slab inspected for cracks of failures. However, this plan was not communicated with the field crew in time. The field crew installed the valve vault, plumbing and backfilled the structure. The Engineer and Contractor plan to conference call first thing tomorrow to determine if slab can still be tested with a load and detect movement from above.

The concrete patch between the 15" PCV pipe and the structure did not hold due to water intrusion. Crew is to determine how to remedy the issue. Options discussed were using a quick dry mix or a mix that cures under water. Either way the failed concrete will need to be removed in order to proceed with another option.

The north culvert opening of the pretreatment manhole needed to be enlarged in order to set the intake pipe from the pond. The contractor chipped material away from the structure opening and then used the concrete patch to fill in the majority of the chipped material.

The top of the pretreatment manhole was chipped in several locations. The chips were not present during Friday's inspections. The chips likely originated during install of the structure while setting the sections together. This will be discussed by the team to determine if these are an issue, need to be patched or are only a cosmetic issue that will be covered with the top hatch anyway.

Construction Activities

Valve vault, lift station and pretreatment chamber were installed (except for a few top sections and the tor grates which have not been fabricated yet). 15" storm sewer installed between pond, pretreatment manhole and lift station. Back flow drain pipe installed between valve vault and lift station. Concrete was formed between the 15" PVC pipe and the structures and then covered with geotextile fabric and backfilled.

Pond bank at directional bore outlet was graded, covered with geotextile fabric, ripped and all bare soil covered with straw blanket.

Skidsteer with street sweeper attachment removed tracking material from road prior to crew leaving for the day.

Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Blaine
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date November 22, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	T	W	Th	F	S
Bright Sun	Sunny	Over-cast	Rain	Snow		
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 11			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
	Name	Representing	Remarks
10:45-12:15	Jon Janke	Coon Creek Watershed District	
10:45-12:15	Jason Sundeen	City of Blaine	

Equipment at the Site

Backhoe, skidsteer with multiple attachments including sweeper.

Unusual Items

Flared end section on upstream pond end was discussed. Recommended to not install as unnecessary and causes challenges with installation.

Discussed negative/positive grade of 15" storm sewer inverted from typical. Instructed contractor to install so inverts are correct.

Discussed removal of storm sewer boot and instead mud structure opening around restrained PVC pipe. Also recommended placing a geotextile fabric over along the outside of the structure over the mud join to prevent soil contact.

Backhoe got stuck along pond shoulder. Additional equipment was temporarily mobilized to the site to recover the backhoe.

Construction Activities

Directional bore completed installation by noon. Peterson Companies verified upstream and downstream inverts were correct as staked. Bore hole slightly larger so pipe can be manipulated some if needed when tying into structure. Installer recommended installation of sign at ends of pipe indicating location of tracer wire. City of Blaine may fabricate sign post-construction. Installer also indicated bore hole was able to navigate through existing utilities on south shoulder of road without much deviation from the plan. There is positive flow throughout the pipe but the last section might have a slightly shallower grade due to avoiding utilities.

Restrained PVC pipe and 2 of 3 sections of valve vault delivered to site.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date November 21, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	T	W	Th	F	S
Bright Sun	Sunny		Over-cast	Rain		Snow
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 10			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	Clint
Visitors			
	Name	Representing	Remarks
Morning	Paul Eickenberg	Wenck	
Morning	Eric Raatsi	City of Blaine	
10:00-10:30	Jon Janke	Coon Creek Watershed District	
10:15-10:30	Brad LeTourneau	City of Blaine	
10:15-10:30	Rebecca Haug	City of Blaine	
Afternoon	Eric Raatsi	City of Blaine	
3:45-4:00	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Backhoe, skidsteer with multiple attachments including sweeper.

Unusual Items

Paul Eickenberg (Wenck geotechnical engineer) met with Eric Raatsi (City of Blaine) on site in morning and witnessed the anchor being exposed. It was obvious that the anchor was missed. Came up with a repair and Craig/Clint (Peterson Companies) are going to start constructing this afternoon. Eric will come back around 1:30 or 2 to check on them and they hope to place concrete at about 2.

Construction Activities

Directional bore postponed to Friday due to weather.

Contractor excavated valve vault concrete slab and exposed rebar caging near northwest helical. Confirmation that helical was not surrounded with rebar. Wenck geotechnical engineer and contractor agreed on reinforcement option. Contractor hammered out a section 3'x3', retired a 6" spacing grid of rebar with both top and bottom being tied into existing rebar and extending 8 inches beyond center of helical.

Restrained pvc pipe delivery was delayed until Friday.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date November 20, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day W
 Weather Bright Sunny Over-cast
 Temp. °F 32-50
 Wind Moder.
 Humidity Moder. Humid

S	M	T	<u>W</u>	Th	F	S
Bright Sun	<u>Sunny</u>	Over-cast	Rain	Snow		
<32	<u>32-50</u>	50-70	70-85	85-100	>100	
Still	<u>Moder.</u>	High	Report No. 9			
Dry	Moder.	<u>Humid</u>				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	Clint
Visitors			
Time	Name	Representing	Remarks
9:00-9:45	Ed Matthiesen	Wenck	Weekly progress meeting
9:00-9:45	Erik Megow	Wenck	Weekly progress meeting
9:00-9:45	Jon Janke	Coon Creek Watershed District	Weekly progress meeting
9:00-9:45	Justine Dauphinais	Coon Creek Watershed District	Weekly progress meeting
9:00-9:45	Rebecca Haug	City of Blaine	Weekly progress meeting
9:00-9:45	Eric Raatsi	City of Blaine	Weekly progress meeting
9:00-9:45	Paul Eickenberg	Wenck	Weekly progress meeting
2:00-3:45	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Backhoe, skidsteer with multiple attachments including sweeper.

Unusual Items

Weekly progress meeting- representatives from City of Blaine, Coon Creek Watershed District, Wenck and Peterson Companies present. Discussed: invoices due Friday, bus stop moved, public concerns, schedule, as-built measurements, staging area, material delivery and storage, outstanding submittals, pump size, helical test passed, electrical service, directional bore, both floating silt curtains installed, structure delivery, pretreatment manhole bedding material, storm sewer material change order, valve vault concrete pour concerns with rebar cage location and options to reinforce.

- Change order for RCP to PVC to be drafted based on Peterson's #s (including restocking fee); connection to concrete vault will be grouted
- Crew will not work next Thurs-Fri
- Wenck waiting on hatch submittals
- Peterson waiting to hear from CCWD/Wenck on pump decision
- Wenck to think about contingency plan for pretreatment vault if there is no sand substrate adjacent to pond
- Peterson to send CCWD form for electrical service (to be signed by Blaine)
- Directional bore scheduled for tomorrow. Floating silt curtain in place.
- Peterson to move pretreatment vault so that the gasket is no longer being smashed by the neighboring structure
- Rebecca interested in redoing the whole trail adjacent to the pond north of filter if budget allows
- Peterson to send pics of concrete pour that is in question and prep to hammer out the corner to evaluate extent of caging

Construction Activities

Majority of outlet control structure, valve vault and pretreatment manhole structures were delivered to the site. Measured dimensions of structures to compare with design and approved submittal values

Distribution:

1. Contractor
2. Subcontractor(s)
3. Engineer
4. Owner
5. City of Blaine
6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date November 19, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	<u>T</u>	W	Th	F	S
Bright Sun	Sunny	Over-cast	Rain	Snow		
<32	<u>32-50</u>	50-70	70-85	85-100	>100	
Still	<u>Moder.</u>	High	Report No. 8			
Dry	Moder.	<u>Humid</u>				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
Time	Name	Representing	Remarks
10:00-1:00	Eric Raatsi	City of Blaine	
10:45-1:00	Paul Eickenberg	Wenck	
11:00-1:00	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Backhoe, skidsteer with multiple attachments including sweeper.

Unusual Items

Onsite soil conditions unsuitable for installation of 15" RCP storm sewer as designed. Discussed alternatives of wrapping a 4.5'Wx2'D coarse aggregate with type 5 road fabric then covered with sand along length of pipe and alternative pipe materials. Engineer and Contractor to work out estimate for pipe type alternative including flared end section.

Valve vault installation was reviewed and discovered that rebar cribbing did not sufficiently surround all the helical piles. Discussed options to remove and repour slab, add additional slab on top, dowel in additional rebar, chip off unsupported end and repour with doweling, shift structure over, add additional helical, wrap the pour and apply an epoxy. Team working through options and will discuss at weekly progress meeting on Wednesday at 9am.

Sump structure installation assumes sandy material near excavation as indicated in soil borings. Crew exploration of pond bank suggests the soils within the bank were modified during the original pond excavation. Engineer to begin preparation for installation alternatives if sand is not found at assumed elevation.

Construction Activities

Crew started site preparation and excavating trench for storm sewer installation. Work was delayed due to unusual items listed above.

Material delivery to site.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date November 18, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	<u>M</u>	T	W	Th	F	S
Bright Sun	<u>Sunny</u>	<u>Over-</u>	<u>cast</u>	Rain	Snow	
<32	<u>32-50</u>	50-70	70-85	85-100	>100	
Still	<u>Moder.</u>	High	Report No. 7			
Dry	<u>Moder.</u>	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Visitors			
Time	Name	Representing	Remarks
9:45	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Pallet of biologs, silt fence, construction fence, porta-potty, message center. No heavy machinery at time of visit.

Unusual Items

Contractor not onsite at time of visit.

Trail closed signs only on trail spur between road and main trail.

Contractor plans to deliver storm sewer later today or tomorrow. Structure installation and directional bore planned for later this week. Contractor hopes all utility work will be completed this week.

No floating silt curtain installed. Contractor to install curtain prior to directional bore.

Construction Activities

Road was swept clean from concrete truck and equipment demobilization tracking on Friday. Biologs and silt fence reinstalled where equipment had entered/exited the site.

Valve vault pit was filled in with no evidence of hazards to trail goers.

Outlet control structure pit remained open with orange construction fence surrounding. Blankets covered concrete pour.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date November 15, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day
Weather
Temp. °F
Wind
Humidity

S	M	T	W	Th	F	S
Bright	Sunny	Over-	Rain	Snow		
Sun	cast					
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 6			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc. Braun Intertec	Zak Milton	Craig Johnson	Ken Foster Helical testing
Visitors			
Time	Name	Representing	Remarks
	Jon Janke Erik Megow Paul Eickenberg Eric Raatsi Brad LeTourneau	Coon Creek Watershed District Wenck Wenck City of Blaine City of Blaine	Geotechnical Engineer

Equipment at the Site

Dozer (Cat D6N), Backhoe (Hitachi 210 LC), Street sweeper, Skid-steer (Cat 2490) with multiple attachments, multiple side dump trucks

Unusual Items

Directional bore is planned for Monday. Structures are planned to be delivered next week.

Construction Activities

Helical pile test was completed by Braun Intertec in the morning. No visual movement detected however Braun will issue a report once data is processed in office.

Valve vault base- Groundwater filling excavated pit was pumped out during work. 4 helical piles were installed. Rebar cage was manufactured onsite with <12" spacing and installed around helical cap plates. Several vertical braces were missing. 1x12 lumber framing was installed. Concrete was delivered in afternoon and poured directly in place. Rebar caging was lifted above base material. Concrete was leveled and left to cure for >1 hour. Pour was covered with plastic, plywood and then buried to protect from air temperature and to fill in hole over weekend to prevent accidental falls.

Outlet control structure base- 3 helical piles were installed. Rebar cage was manufactured onsite with <12" spacing and installed around helical cap plates. Caging was a little smaller than desired leaving an approximate 1-foot space without support on the north end of the pour. 1x12 lumber framing was installed. Concrete was delivered in afternoon and poured directly in place. Rebar caging was lifted above base material. Concrete was leveled and left to cure for >1 hour. Concrete was covered with plastic and blanketed. Fencing was installed around pit to prevent accidental falls over the weekend.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date November 14, 2019

 PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

 Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	T	W	Th	F	S
Bright	Sunny		Over-	Rain	Snow	
Sun			cast			
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High		Report No. 5		
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	Ken Foster
Visitors			
Time	Name	Representing	Remarks
2:45-3:15	Ed Matthiesen	Wenck	
3:00-3:30	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Dozer (Cat D6N), Backhoe (Hitachi 210 LC), Street sweeper, Skid-steer (Cat 2490) with multiple attachments, multiple side dump trucks

Unusual Items

Biochar sample available onsite. Approved by engineer.

Approximately 6 inches of frost was discovered in compacted and uninsulated areas of project site. Areas covered with leaves had little frost.

Construction Activities

Started excavating hole for lift station structure. Crew anticipates completing excavation Friday morning, backfilling subgrade, pouring structure slab and blanketing to cure over weekend.

Helical pile installed on west end of site with monitoring equipment in place. Remaining helical pile material onsite. Crew anticipates Braun Intertec to be onsite Friday to test helical pile.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date October 3, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	T	W	Th	F	S
Bright Sun	Sunny	Over-cast	Rain	Snow		
<32	32-50	50-70	70-85	85-100	>100	
Still	Moder.	High	Report No. 4			
Dry	Moder.	Humid				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Peterson Companies, Inc.	Janelle Miller	Andrew Ives	
Visitors			
Time	Name	Representing	Remarks
10:30-11:00	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Dozer (Cat D6N), Backhoe (Hitachi 210 LC), Street sweeper, Skid-steer (Cat 2490) with multiple attachments, multiple side dump trucks

Unusual Items

Construction Activities

Dump trucks delivered remaining surcharge material to site. Dozer and skid steer were used to spread and compact surcharge material.

Monitoring plates will be installed after all surcharge material is in place to avoid damages to the plates. Plates will be installed by excavating necessary section of surcharge material, installing plate, then backfilling and recompacting surcharge material.

Street sweeper attempted to keep up with trucking.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date October 2, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	T	<u>W</u>	Th	F	S
Bright	Sunny		Over-	Rain		Snow
Sun			cast			
<32	32-50	<u>50-70</u>	70-85	85-100	>100	
Still	<u>Moder.</u>	High	Report No.3			
Dry	Moder.	<u>Humid</u>				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Peterson Companies, Inc.	Janelle Miller	Andrew Ives	
Visitors			
Time	Name	Representing	Remarks
10:30-11:00	Jon Janke	Coon Creek Watershed District	

Equipment at the Site

Dozer (Cat D6N), Backhoe (Hitachi 210 LC), Street sweeper, Skid-steer (Cat 2490) with multiple attachments, multiple side dump trucks

Unusual Items

Resident indicated local school bus stop on east end of project area. Bus company will be contacted. Contractor to adjust equipment and vehicle parking and usage around bus stop location and when children are present.

The orange flag on the message center signaling content updates will be removed until the contractor returns to complete filter construction.

Construction delayed due to rain. Contractor will attempt to resume construction in morning.

Construction Activities

Lath indicating location and elevation were installed at two local benchmark locations

Dump trucks delivered approximately half of the surcharge material and hauled away all of the topsoil and tree material from site. Dozer and skid steer were used to spread and compact surcharge material.

Monitoring plates were installed after surcharge material was in place to avoid damages to the plates. Plates were installed by excavating necessary section of surcharge material, installing plate, then backfilling and recompacting surcharge material.

Street sweeper attempted to keep up with trucking. City sweeper was deployed in afternoon to thoroughly clean the streets.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date October 1, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	M	<u>T</u>	W	Th	F	S
Bright Sun	Sunny	Over-cast	Rain	Snow		
<32	32-50	<u>50-70</u>	<u>70-85</u>	85-100	>100	
Still	<u>Moder.</u>	High	Report No.2			
Dry	Moder.	<u>Humid</u>				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Peterson Companies, Inc.	Janelle Miller	Andrew Ives	
Visitors			
Time	Name	Representing	Remarks
1:00-2:00	Jon Janke	Coon Creek Watershed District	
1:00-2:00	Ed Matthiesen	Wenck Associates	
1:00-2:00	Rebecca Haug	City of Blaine	
1:00-2:00	Eric Raatsi	City of Blaine	

Equipment at the Site

Dozer (Cat D6N), Backhoe (hitachi 210 LC), Street sweeper, Skid-steer (Cat 2490) with multiple attachments

Unusual Items

Crew indicated many residents approached them late Monday inquisitive about the construction.

Portable toilet needs to be anchored

Need to look into ADA compliant trail closure signage with kick board for the blind

Park bench had been removed from site.

Surcharge material pit inaccessible due to rain. Material delivery delayed 1 day.

Construction Activities

Surcharge monitoring plates delivered to site.

Silt fence installed around perimeter of surcharge area.

Two rock construction entrances installed for trucking route.

Excavation, grading and stockpiling of topsoil to prepare the surcharge area.

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator

Date September 30, 2019

PROJECT Pleasure Creek Biochar- and Iron-Enhanced Sand Filter
 JOB NO. PAN 19-02, Wenck #B12390100-04
 CLIENT Coon Creek Watershed District
 CONTRACTOR Peterson Companies, Inc.
 PROJECT MANAGER Zak Milton

Day _____
 Weather _____
 Temp. °F _____
 Wind _____
 Humidity _____

S	<u>M</u>	T	W	Th	F	S
Bright Sun	Sunny	Over-cast		<u>Rain</u>		Snow
<32	32-50	<u>50-70</u>	<u>70-85</u>	85-100	>100	
Still	<u>Moder.</u>	High	Report No.1			
Dry	Moder.	<u>Humid</u>				

Average Field Force			
Name of Contractor	Administration	Labor	Remarks
Peterson Companies, Inc.	Zak Milton	Craig Johnson	
Peterson Companies, Inc.	Janelle Miller	Andrew Ives	
Visitors			
Time	Name	Representing	Remarks
9:00-10:00	Jon Janke	Coon Creek Watershed District	
9:00-10:00	Mario Frucci	Coon Creek Watershed District	

Equipment at the Site

Skid-steer with multiple attachments

Unusual Items

Notice to proceed was issued.

Surveyed benchmarks were established at numerous locations around the filter area for monitoring of surcharge plates.

Photos were taken to document preexisting condition of road, trail, signs, light poles, utility boxes and green spaces.

Construction Activities

Trees and material were removed from filter area

Park bench had not been removed at time of visit. Bench should not be an issue for contractor, but contractor can remove bench if necessary.

Safety and silt fencing were installed

- Distribution:
1. Contractor
 2. Subcontractor(s)
 3. Engineer
 4. Owner
 5. City of Blaine
 6. Project File

By Jon Janke Title Operations and Maintenance Coordinator