



Contractors Present: Brian Brown, Twin Rivers
Paul Gardiner, GPS Construction
David Watson, Wayne Watson Construction
Denis Caron, Good Well Drilling (Wildstone Construction)
Dary Caron, Good Well Drilling (Wildstone Construction)
Neil Mayert, Twin Rivers

RDFFG Staff Present: Dana Ferguson, Operations Leader
Darwin Paton, Environmental Services Field Supervisor
Ashley Gosselin, Service Centre Representative

Minutes Recorded By: Ashley Gosselin, Service Centre Representative

Sign in Sheet: 1:30 p.m. Contractors completed sign-in sheet, along with introductions.

Call to Order: 1:30 p.m.

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- Darwin Paton:**
- Introduced the Landfill Gas Expansion project.
 - Review of tender: will be adding an additional eight (8) landfill gas wells on the hillside. Near completion, Contractor will be required to connect new subheader to existing 8" header. Subheader will run up the hill and split just above the second road. 50cm from the T, install a sample port and purge point. Specifications can be found in the drawings.
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- The Regional District can only give you the approximate location of the main header. The Contractor is responsible for excavation under the Regional District supervision. Regional District is responsible for ensuring gas is evacuated from the lines.
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- A Gated isolation valve will be installed. The sample port has to be put in upstream of it, just up the hill. This is only shown on the detailed drawings. If Contractors have any questions after looking at the drawings, please feel free to contact the Regional District for clarification.
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- GPS locations of wells will be staked. The well locations will determine where the subheader comes down. All subheaders and laterals crossing under roads will be cased in CSP and grouted. Are they to be grouted in the ends only? Yes, the ends only, not the whole pipe.
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- There are 16 existing wells. Two (2) new wells on face and junction. One lateral going to well 17 in between the two (2) roads. Coordinates for the wells are listed on the map and all will be staked.
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- What are we drilling into? Drilling into garbage. There should not be any vehicles buried here, however, the Regional District cannot guarantee that. It is possible you could hit wood debris, stumps, logs, concrete, or maybe an engine block.
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- Can the Contractor close the roads during construction? Yes. The lower road is the more important road and is actively used, so once the excavation is done, the Regional District would like that road open again as soon as possible to minimize any disruption.
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- Excavations will be done only with approval of the owner/engineer. No
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excavations will be left open overnight without owner/engineer approval. Any open excavations are the responsibility of the contractor. It is the Contractor's responsibility to ensure the appropriate safety measures are taken with any open excavations such as barricading at night, etc.

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- Clarification requested on "No backfill in areas with debris at bottom of hole". Bottom of the trench must be semi-uniform. How much clean material on top? This is shown in the drawings. Perforated horizontals will be surrounded by drain rock. Do not want any debris in this as it can block gas flow into the perforated pipes.
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- Low permeability soil and fill will be provided on site. The Contractor will be responsible for supplying drain rock, clear stone, and sand. The Contractor will be expected to salvage and reuse what they can when doing roads, etc. If material is scraped off, you are expected to reuse it to fill.
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- How do augers work in this environment? It is all very well compacted and settling over the years has increased compaction, but you will run into some areas that are more dense than others, due to the nature of the material.
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- What is the procedure if the Contractor encounters hazardous waste, for example asbestos, during drilling or excavation? Please provide clarification on timeline and procedure. A complete detailed answer will be provided in Addendum 1.
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- Should the drillers wear masks? The successful Contractor is to supply the Regional District with their Health and Safety plan, and this should be addressed there.
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- What kind of compaction? Backfilling process. Expect trench to be bucket packed or track packed. No wheeled packers, do not pound it, do not want to damage pipe. Surface will be finished in a way to promote drainage and inhibit/eliminate infiltration, percolation.
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- Stakes will be marked with which well each represents.
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- The top is a flat plateau. The grades on both sides of the hill are about the same as the side we were on. The steepest grade is on the north side where the 2 wells are and the subheader comes up.
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- The Regional District is responsible for temporary well drilling platforms and modifying access for drilling rigs. If the Regional District is supplying temporary drilling pads, is the contractor responsible for the final drilling platform? Detailed answer will be provided in Addendum 1.
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- Is the Contractor responsible for cutting the bench in on slopes? This is detailed by the engineer. Work on existing or do we make flat road? The Regional District will get clarification from the engineer. Answer will be provided in Addendum 1.
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- Where is there confirmed approved fill? Some areas, the Contractor will use what was just excavated. The Regional District will stockpile approved fill on site on the landing pad off to the side.
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- How does the Contractor dispose of material pulled up with augers? Dispose of as

directed by construction supervisor. Will have a place to put it. Please see Temporary stockpiling clause in Invitation to Tender.

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- Regional District will GPS location of horizontal connector. Will place stakes in ground. East to West run. Two (2) subheaders daylighted on South bench. Blind flanged. Contractor will excavate into where active filling is going on right now. Refer to Drawing C-02. Is this pipe to be surveyed with joints, etc? No, just survey the stakes on the ends.
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- The level of surveying required is detailed in the tender. The Regional District will provide GPS points, which will be staked in the ground. The Contractor will be required to survey laterals, subheader and grade. Tolerances for the survey are listed in the tender documents. Don't want any areas within the pipes or earthworks that can pond.
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- Why can't the drilling be done with air rigs? Landfill gas can be encountered and we don't want to introduce oxygen into this environment, as this could result in a fire and/or explosion.
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- If Contractor's equipment breaks down or requires repair, is there a location on site to weld? The Regional District will designate an area. Don't want pollutants or sparks generated on the active site.
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- Where will the laydown area be? This will be discussed between the Regional District and the successful Contractor.
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- There will be a start up meeting and weekly progress meetings between the contractor and the Regional District. Contract dates are June 1 to September 1. Actual start date will be determined by the Regional District and the successful Contractor. Once work has commenced, work is not to be stopped until completion without prior approval of the engineer.
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ACTION LIST

Darwin/Dana

Contact Engineer regarding:

1. What is the procedure if the Contractor encounters hazardous waste, for example, asbestos during drilling or excavation?
2. The Regional District is responsible for temporary well drilling platforms and modifying access for drilling rigs. If the Regional District is supplying temporary drilling pads, is the contractor responsible for the final drilling platform?
3. Is the Contractor responsible for cutting the bench in on slopes? This is detailed by the engineer. Work on existing or do we make flat road? The Regional District will get clarification from the engineer