

From: Bennett, Jim
To: ["Patrick BROWN"](#)
Subject: RE: 10-30-12 Meeting Notes Re: Groundwater Resources - Rugged Solar, Tule & Rough Acres Ranch
Date: Wednesday, October 31, 2012 12:00:00 PM

Patrick,

Please provide Larry a revised project description with what your proposed water use is for construction. Additionally, include the construction timeline with water uses anticipated on a daily basis through construction. We really need a static project description. I appreciate the fact that the groundwater investigation is going to be a large cost for you and am doing everything possible to keep costs down. An example is trying to utilize Well 6 as a monitoring well for the other well cluster which will minimize costs at this stage of the game.

To answer your question on Well 8, the situation has changed since the Tule project was approved. The Tule project was looked at through the lens of it being a single 9 month project. We are now in a situation where this well is being requested for use by your project and for Rough Acres Ranch. I'm looking at your project as being linked to Rough Acres Ranch in order to evaluate impacts to groundwater resources since both your projects are in process and requesting water from the same well. The request for a monitoring well is reasonable given the potential impacts from pumping and development of water level thresholds for this project up front.

Thanks,

Jim Bennett, P.G. #7707, CHG#854
Groundwater Geologist

County of San Diego

Planning & Development Services
5510 Overland Avenue, Suite 110, San Diego, CA 92123
Phone: 858-694-3820 Fax: 858-694-3373

From: Patrick BROWN [mailto:Patrick.BROWN@soitec.com]
Sent: Wednesday, October 31, 2012 10:55 AM
To: Bennett, Jim
Subject: RE: 10-30-12 Meeting Notes Re: Groundwater Resources - Rugged Solar, Tule & Rough Acres Ranch

Jim,

You know that all these projects will be using these wells at different times between 2013 through 2016. There will be no overlap in usage of the wells between the projects. This will be demonstrated by a Gantt chart. Also, if we just keep well 8 at the existing approved capacity for Tule that and not put a bigger pump, that should be fine right? Also, we have revised water numbers we are going to present. Are previous numbers were based on a project in the desert, which uses more water to do construction. I appreciate your feedback because the costs of all this groundwater testing is hundreds of thousands and I need to get it under control.

Pb

From: Bennett, Jim [<mailto:Jim.Bennett@sdcounty.ca.gov>]
Sent: Wednesday, October 31, 2012 10:47 AM
To: Patrick BROWN
Cc: Slovick, Mark; 'Erin Crouthers'; Hofreiter, Larry; 'sdickey@dudek.com'; Trey Driscoll; 'sjbattelle@geo-logic.com'; Beddow, Donna; Grunow, Richard; Sibbet, David
Subject: RE: 10-30-12 Meeting Notes Re: Groundwater Resources - Rugged Solar, Tule & Rough Acres Ranch

Good Morning Patrick,

The Tule Wind Farm was approved for 20 acre-feet of total groundwater use (18 gallons per minute) as a one time use over a nine month period. The Rugged Solar project current projected construction water use of 80+ acre-feet (rates of up to 200 gallons per minute at peak construction) is resulting in the Rugged project evaluating what the maximum sustainable yield from this well would be for their use. Additionally, we have a third project, Rough Acres Ranch Campground and Mine (P12-020 and P12-021) that also wants to utilize water from this well at rates of 14 to 24 acre-feet per year for its uses. This is a totally different situation as compared to what we were looking at when Tule Wind came along. With multiple projects now looking at obtaining water from this well the monitoring well is needed. I will be asking for this same monitoring well from the Rough Acres Ranch project so maybe cost sharing could be considered.

I want to make it clear that additional wells may be requested beyond this first phase of aquifer testing given the unprecedented amount of groundwater for multiple projects being requested from the same wells. Additionally, as indicated during our meeting we are going to want a groundwater monitoring network (at least three monitoring wells) surrounding each production well location prior to extraction of groundwater from Well 8 as well as Well 6,6a,6b. Again, cost sharing may be considered with the Rough Acres project.

Thanks,

Jim Bennett, P.G. #7707, CHG#854
Groundwater Geologist

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From: Patrick BROWN [<mailto:Patrick.BROWN@soitec.com>]
Sent: Wednesday, October 31, 2012 9:59 AM
To: Bennett, Jim
Cc: Slovick, Mark; Bennett, Jim; 'Erin Crouthers'; Hofreiter, Larry; 'sdickey@dudek.com'; Trey Driscoll; 'sjbattelle@geo-logic.com'
Subject: RE: 10-30-12 Meeting Notes Re: Groundwater Resources - Rugged Solar, Tule & Rough Acres Ranch

Jim,

Why is a monitoring well needed now for well 8? It was previously tested out for Tule's project and did not require a monitoring well. All we are doing is putting in a better pump. Please advise because this more project expense,

pb

From: Hofreiter, Larry [<mailto:Larry.Hofreiter@sdcounty.ca.gov>]
Sent: Tuesday, October 30, 2012 5:57 PM
To: 'sdickey@dudek.com'; Trey Driscoll; 'sjbattelle@geo-logic.com'; Hofreiter, Larry; Bennett, Jim
Cc: Patrick BROWN; Slovick, Mark; Bennett, Jim; 'Erin Crouthers'
Subject: 10-30-12 Meeting Notes Re: Groundwater Resources - Rugged Solar, Tule & Rough Acres Ranch

All,

Thank you for your time today. Please see the attached meeting notes from today's meeting.

Sincerely,

Larry Hofreiter

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