

Nowell, Keith, Env. Health

From: Nowell, Keith, Env. Health
Sent: Monday, December 11, 2017 9:05 AM
To: 'Matthew Jones'
Cc: Ben McAlexander; Michael Sweetenham; Corissa.Lutz@balcoproperties.com; Roe, Dilan, Env. Health; Khatri, Paresh, Env. Health
Subject: Authorization of work, RO378- Wareham Property Development, 2855 Mandela Parkway, Oakland

Matthew,

Alameda County Department of Environmental Health (ACDEH) authorizes the bail down testing and collection of a soil vapor sample from well SVW-1. We request the work be performed as soon as possible ahead of the anticipated rainy season.

Please report your findings in a document to be submitted by February 2, 2018.

Regards,
Keith Nowell

From: Matthew Jones [mailto:mjones@trihydro.com]
Sent: Thursday, December 07, 2017 10:54 AM
To: Nowell, Keith, Env. Health <Keith.Nowell@acgov.org>
Cc: Ben McAlexander <bmcalexander@trihydro.com>; Michael Sweetenham <MSweetenham@trihydro.com>; Corissa.Lutz@balcoproperties.com; Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>; Khatri, Paresh, Env. Health <paresh.khatri@acgov.org>
Subject: FW: Balco Follow-up

Hello Keith,

Thanks so much for making time for us to discuss the Mandela Parkway site on Tuesday. It was a great focused discussion on a path forward for future site closure. Per conversations during the meeting there were two main data gaps identified:

- Confirmation of LNAPL properties through additional baildown tests
- Pending soil gas sampling of point SVW-1

The May 2016 LNAPL baildown effort used bailers as the method for recovering LNAPL. While this method is often adequate for conducting baildowns, in the previous case it was not sufficient for removing LNAPL from the wells. This was particularly the case for TR-10, where limited drawdown was induced in a well with initial substantial LNAPL thickness. A different LNAPL recovery method (e.g., peristaltic or submersible pump) will likely better remove LNAPL while also minimizing groundwater extraction. Therefore, we request your concurrence to conduct LNAPL baildowns using a pump. A standard operating procedure and field form is attached. As shown in these materials, we will calculate the approximate pre-test LNAPL volume in the well and adjacent filter pack, and note in the field form whether this volume is removed during a given baildown. This will assist in data analysis for identifying whether observed LNAPL recharge is likely related to filter pack drainage versus formation recharge. We anticipate that the proposed baildowns will be conducted on wells TR-6 and TR-10. We will gauge each of the area wells, if practicable, to confirm this prior to conducting baildowns and intend to include any wells with 1 ft LNAPL thickness or greater in the testing.

During the December 5, 2017 meeting, we also discussed soil gas sampling at vapor well SVW-1. This vapor well has previously been inundated by water and it has not been possible to collect a soil gas sample. We request your concurrence to revisit the vapor well again attempt to collect a vapor sample.

Thanks again and do not hesitate to contact me if you would like to discuss further.

**Matthew Jones, P.G.
Geologist**



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