

Victoria Hsu

From: Anton Walker <antonwalker@google.com>
Sent: Friday, June 12, 2020 5:22 PM
To: Victoria Hsu
Cc: Heidi Rous; Hillary Gitelman; Franziska Church; Karl Heisler; Linda S. Peters; Brian Schuster; Bhavesh Parikh; Andy Wang; Victoria Lehman; Matthew Eastman
Subject: Re: Caltrain update assumptions
Attachments: DTW_EIR Schedule Equipment_2020.06.12_Caltrain Removed.xlsx

Hi everyone,

Please see attached the revised construction assumptions with the following updated assumptions:

- LTA project assumptions added in a new sheet.
- Added 8% contingency for office building foundations and 15% contingency for residential building foundations, to allow flexibility of building footprints.
- Excavation for 5,500 car spaces + 5% contingency. Please keep the same parking number in the PD but utilize this number for the AQ analysis to allow for future flexibility.
- No duration contingency added. Please add the one month of duration contingency per parcel which we discussed to allow for flexibility.
- Hazardous materials quantities are updated.

Finally, for diesel generators please assume 47 generators distributed across the site. This number went up from the previous assumption based on total number of buildings being revised as well as the portion of residential buildings above 75 feet.

I think that you should now have all of the critical data needs from us but please let us know if anything is missing or you have questions.

Have a great weekend!

Thank you

On Thu, Jun 11, 2020 at 9:33 AM Anton Walker <antonwalker@google.com> wrote:
Great - I went ahead and sent out an invite to the group for 2pm. Speak to you then.

On Thu, Jun 11, 2020 at 9:26 AM Victoria Hsu <VHsu@esassoc.com> wrote:

That time (2-2:30) works for me too.

Victoria Hsu

Managing Associate

ESA | Environmental Science Associates

From: Heidi Rous <HRous@esassoc.com>
Sent: Thursday, June 11, 2020 9:19 AM
To: Anton Walker <antonwalker@google.com>; Hillary Gitelman <HGitelman@esassoc.com>
Cc: Franziska Church <f.church@fehrandpeers.com>; Karl Heisler <KHeisler@esassoc.com>; Linda S. Peters <lspecters@esassoc.com>; Brian Schuster <BSchuster@esassoc.com>; Victoria Hsu <VHsu@esassoc.com>; Bhavesh Parikh <bhaveshp@google.com>; Andy Wang <wangan@google.com>; Victoria Lehman <vlehman@google.com>; Matthew Eastman <eastmanmatthew@google.com>
Subject: Re: Caltrain update assumptions

2-2:30 works for me.

Heidi Rous, CPP

Director

ESA

[626-823-5378](tel:626-823-5378)

----- Original message-----

From: Anton Walker

Date: Thu, Jun 11, 2020 09:14

To: Hillary Gitelman;

Cc: Franziska Church;Karl Heisler;Linda S. Peters;Heidi Rous;Brian Schuster;Victoria Hsu;Bhavesh Parikh;Andy Wang;Victoria Lehman;Matthew Eastman;

Subject:Re: Caltrain update assumptions

Heidi, Brian, and Vicky,

Would you be available for a 30 minute call today with Matt to close out open questions sometime either 11 - 1 or 1:30 - 2:30? Let me know what time is best and I'll circulate an invite.

Thanks

On Thu, Jun 11, 2020 at 8:50 AM Hillary Gitelman <HGitelman@esassoc.com> wrote:

This is great Anton, thanks. Hillary

Sent from my iPhone

On Jun 10, 2020, at 5:57 PM, Anton Walker <antonwalker@google.com> wrote:

See below for an update on the list of questions we discussed this morning:

- ~~a. — Status of Thermal BAU figure/info?~~ provided
- ~~b. — Confirm Block C2 is residential~~ confirmed
- c. Confirm SAP Center stairs construction equipment is included somewhere - forthcoming in revised construction assumptions
- ~~d. — Confirm approach to Pavilions/Kiosks construction equipment~~ confirmed approach accounted for these within the equipment assumptions
- e. Is there construction info for any off-site (LTA) improvements of note? - confirming internally if any additions to construction assumptions are needed based on off-site improvements list
- ~~f. — Confirm approach to natural gas use in restaurant kitchens~~ confirmed approach to convert 50K sqft restaurant space to kitchen space - 20K sqft
- g. Decision whether to “hedge” horsepower hours with a 10% factor or conduct sensitivity analysis to determine future flexibility. - confirmed to add 5% buffer. Scheduling call tomorrow to discuss how 5% buffer is applied.
- ~~h. — Lot E/replacement parking description and confirmation that all analysis will be qualitative~~ confirmed direction to include qualitative analysis for Lot E. Lot ABC replacement parking narrative forthcoming.
- i. Diesel generator figure - forthcoming

On Wed, Jun 10, 2020 at 10:36 AM Hillary Gitelman <HGitelman@esassoc.com> wrote:

Thanks Anton.

Hillary Gitelman

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From: Anton Walker <antonwalker@google.com>

Sent: Wednesday, June 10, 2020 10:25 AM

To: Franziska Church <f.church@fehrandpeers.com>

Cc: Hillary Gitelman <HGitelman@esassoc.com>; Karl Heisler <KHeisler@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Heidi Rous <HRous@esassoc.com>; Brian Schuster <BSchuster@esassoc.com>; Victoria Hsu <VHsu@esassoc.com>; Bhavesh Parikh <bhaveshp@google.com>; Andy Wang <wangan@google.com>; Victoria Lehman <vlehman@google.com>; Matthew Eastman <eastmanmatthew@google.com>

Subject: Re: Caltrain update assumptions

Hi all,

Please see the revised thermal figure attached. As I noted, this still shows an inset for the Northern Variant due to the outdated base figure which can be ignored. We'll provide an updated figure for inclusion as an exhibit once we have a revised base figure from Sitelab.

Let me know if there are any questions on this.

On Tue, Jun 9, 2020 at 4:00 PM Franziska Church <f.church@fehrandpeers.com> wrote:

I will join the call tomorrow AM, as well.

Franziska Church, AICP

Senior Associate

Fehr & Peers Transportation Consultants

[408.645.7014](tel:408.645.7014)

From: Hillary Gitelman <HGitelman@esassoc.com>

Sent: Tuesday, June 9, 2020 9:20 AM

To: Anton Walker <antonwalker@google.com>; Karl Heisler <KHeisler@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Franziska Church <f.church@fehrandpeers.com>; Heidi Rous <HRous@esassoc.com>; Brian Schuster <BSchuster@esassoc.com>; Victoria Hsu <VHsu@esassoc.com>

Cc: Bhavesh Parikh <bhaveshp@google.com>; Andy Wang <wangan@google.com>; Victoria Lehman <vlehman@google.com>; Matthew Eastman <eastmanmatthew@google.com>

Subject: RE: Caltrain update assumptions

Thanks Anton. We will take a look. Also, 8AM tomorrow looks open for ESA folks.

Hillary

Hillary Gitelman

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From: Anton Walker <antonwalker@google.com>

Sent: Tuesday, June 9, 2020 9:13 AM

To: Hillary Gitelman <HGitelman@esassoc.com>; Karl Heisler <KHeisler@esassoc.com>; Linda S. Peters <lpeters@esassoc.com>; Franziska Church <f.church@fehrandpeers.com>; Heidi Rous <HRous@esassoc.com>; Brian Schuster <BSchuster@esassoc.com>; Victoria Hsu <VHsu@esassoc.com>

Cc: Bhavesh Parikh <bhaveshp@google.com>; Andy Wang <wangan@google.com>; Victoria Lehman <vlehman@google.com>; Matthew Eastman <eastmanmatthew@google.com>

Subject: Caltrain update assumptions

Hi all,

Thanks for your patience as we finalized the decisions on Caltrain and Cahill and pulled together the revised assumptions. Please see attached for the outstanding data needs and below for explanations. Let me know if there are any inputs critical for starting to re-run the analysis that you're still missing. Could everyone be available for a call at 8am tomorrow to run through any questions?

Block program (attached)

See below for a summary of the changes. The total program remains unchanged.

- D2 and D3 parcels removed and program reallocated across the site
- C2 changed from residential to office
- Redistribution of office gsf, residential units, limited term corp. accommodation units, and active use gsf across the site.
- Northern variant removed
- A1, A2, and A3 combined into single A1 block
- E block split into separate residential and office portions consistent with land use plan
- Addition of active use gsf to existing D8-D13 buildings to account for proposed expansions
- Addition of active use gsf to account for open space pavilions and kiosks. These total 20,500 gsf of active uses program. Given that these are relatively minor within the overall construction program, we propose that these get analyzed as if they're part of the nearest building. We've incorporated each set of kiosks within the equipment list and phasing assumptions of the nearest building.
- F4 and D5 split into existing building and new build portions.
- Southern CUP shifted from G1 to F5.
- Construction phasing and durations updated to reflect revised program.

While making these updates, we did some general clean-up in the spreadsheet as well and deleted out any information no longer needed. Let us know if any information is unclear or missing.

Construction assumptions (attached)

Construction assumptions have been fully updated to reflect the changes in the block program and phasing. One note is that we're double checking the excavation calculations this morning. We don't anticipate any changes on it but will let you know today if so.

Thermal BAU figure

We're making some last revisions on the figure and assumptions. I will provide this shortly when available.

Cahill extension

We have confirmed no change to the existing project assumptions. Cahill to be extended north of Santa Clara for vehicle access. No change needed.

MERV-16

One other assumption which we've discussed is removal of the MERV-16 mitigation measure for residential. We would still like to retain it for the daycares. We understand that you'll update us on the potential impact of this on the on-site receptors as you're running the HRA.

Thank you


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<image001.jpg> **Anton Walker** | Development Manager
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<image002.jpg> **Anton Walker** | Development Manager
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