DOCKETED	
Docket Number:	19-SPPE-01
Project Title:	Laurelwood Data Center (MECP I Santa Clara I, LLC)
TN #:	229709
Document Title:	Laurelwood Data Center Internal EmailNitrogen Deposition Impacts on Habitat Areas
Description:	Internal email and figures summarizing the results of computer-modeled nitrogen deposition rates resulting from Laurelwood Data Center
Filer:	Susan Fleming
Organization:	Energy Commission
Submitter Role:	Public Agency
Submission Date:	9/10/2019 2:30:37 PM
Docketed Date:	9/10/2019

State Of California The Resources Agency of California

Memorandum

Date: September 10, 2019
Telephone: (916) 654-3936

To: Docket Unit
(For Laurelwood Data Center)

From: California Energy Commission – **Jon Hilliard, AICP**
1516 Ninth Street Energy Resource Specialist III
Sacramento, CA 95814-5512

Subject: **LAURELWOOD DATA CENTER (19-SPPE-01) INTERNAL EMAIL COMMUNICATION REGARDING NITROGEN DEPOSITION IMPACTS ON HABITAT AREAS**

Attached is an internal email (dated Wednesday, July 10, 2019) and figures prepared by Wenjun Qian, Ph.D, P.E. to Tia Taylor, Planner I summarizing the results of computer-modeled nitrogen deposition rates resulting from the Laurelwood Data Center. This attachment is referenced in Section 5.4, Biological Resources, of the Laurelwood Data Center Initial Study and Proposed Mitigated Negative Declaration as **CEC 2019d** – "California Energy Commission (CEC). Project communication and analysis – Nitrogen Deposition for Laurelwood Data Center, Energy Commission staff Jon Hilliard and Wenjun Qian, Ph.D, P.E."

Hilliard, Jon@Energy

From: Qian, Wenjun@Energy
Sent: Wednesday, July 10, 2019 1:41 PM
To: Taylor, Tia@Energy
Cc: Bemis, Gerry@Energy; Hilliard, Jon@Energy
Subject: Laurelwood Nitrogen Deposition Rates
Attachments: Contours.kml; Contours_ColorRamp.bmp; Ndep impacts on habitat areas.xlsx

Hi Tia,

I modeled nitrogen deposition of the Laurelwood project with the applicant's revised stack parameters and emission rates. The following table shows the modeled nitrogen deposition rates for the habitat areas you are interested in. Let me know if I missed any habitat areas. I've also attached the contour plot that can be viewed in Google Earth. You can just save the Contours.kml and Contours_ColorRamp.bmp in the same folder. If you open the Contours.kml in Google Earth, the color ramp (which shows the nitrogen deposition rates for each contour) will show automatically. Let us know if you need us to do additional work.

Habitat Area	Nitrogen deposition impacts (kg/ha/yr)
San Tomas Aquino Creek Corridor	0.00-2.76
Ulistac Natural Area	0.03
Baylands Park	0.06-0.09
Don Edwards San Francisco Bay National Wildlife Refuge	0.00-0.06

Thanks.

Wenjun Qian, Ph.D., P.E.
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California Energy Commission
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Sacramento, CA 95814
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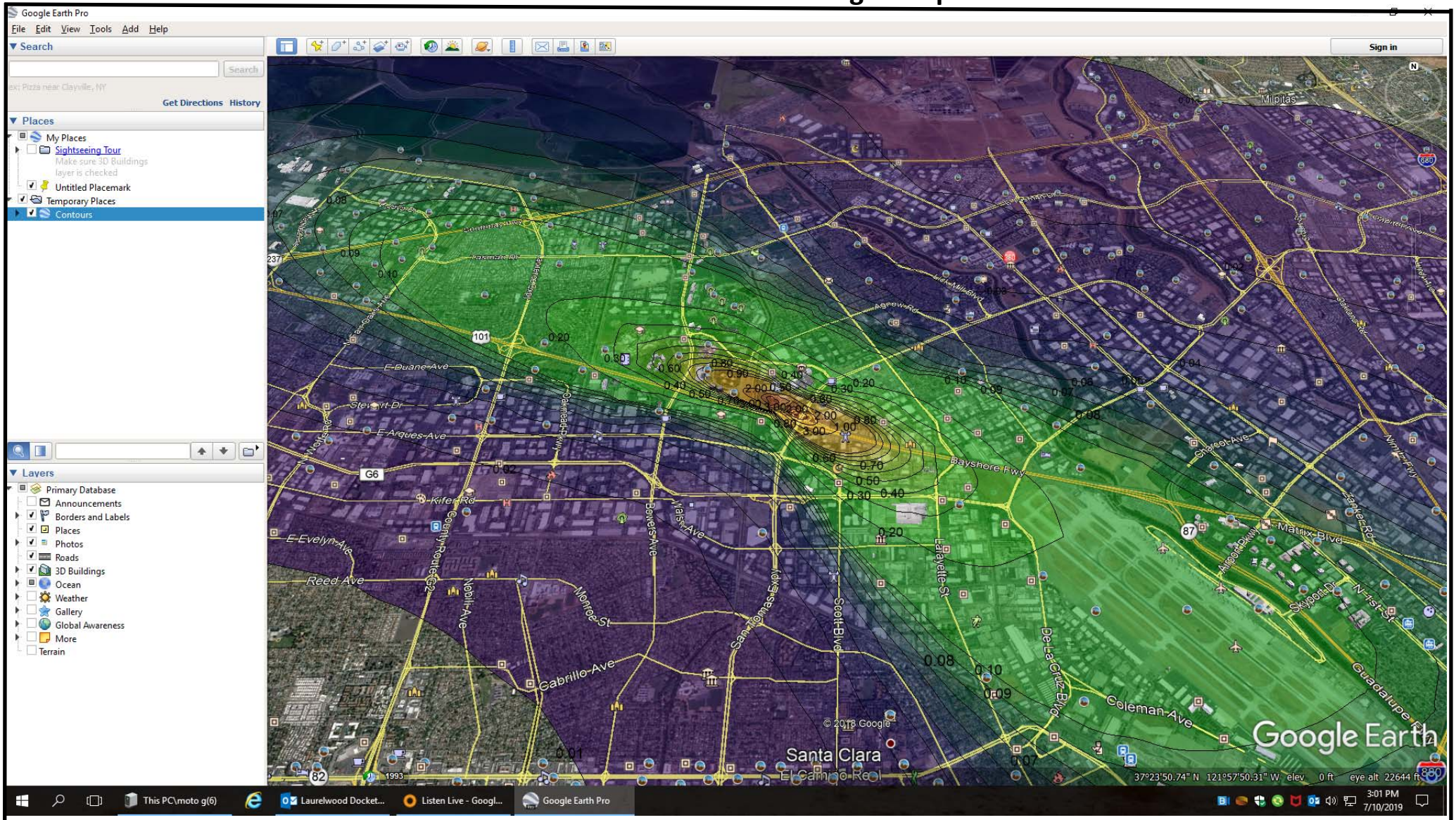
LAURELWOOD DATA CENTER—Nitrogen Deposition



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PLOT FILE OF MAX ANNUAL N-DEP FOR SOURCE GROUP: ALL kg/ha/yr

Max: 5.43 [kg/ha/yr] at (591700.00, 4137850.00)