

2017 Carbon Offset Report

25 January 2018

1) CO2 Emissions in 2017

In calendar year 2017, GroundWork staff and consultants undertook many flights as part of on-going survey and research project. The amount of CO₂ emitted from each flight was determined using the MyClimate.org's online climate calculator. In total, nearly **64 metric tonnes** of CO₂ were emitted in 2017 by flights taken by GroundWork's staff and consultants. The table below presents the breakdown of carbon emitted for each flight.

2) Offsetting

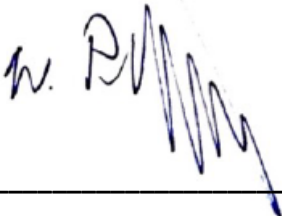
GroundWork has offset its CO₂ emissions in 2017 with a donation to the *Nature Conservancy* of 960 USD (see https://support.nature.org/site/Donation2?df_id=3901&3901.donation=form1). This equates to a contribution of approximately 15 USD for 1 metric ton of CO₂ emitted. The Nature Conservancy offers carbon offsets based on carbon sequestered through forest lands preserved.

More details of their carbon offset program can be found at <https://www.nature.org/ourinitiatives/urgentissues/global-warming-climate-change/help/carbon-offset-program-frequently-asked-questions.xml#1>.

SIGNATURE:



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| From | Via | To | Oneway / Return | Carbon emitted (tonnes)* | Link |
|------------------------|------------------------|------------------------|-----------------|--------------------------|---|
| Zurich, Switzerland | - | Muscat, Oman | Return | 1.900 | https://co2.myclimate.org/en/portfolios?calculation_id=1033079 |
| Geneva, Switzerland | Paris, France | Freetown, Sierra Leone | Oneway | 1.000 | https://co2.myclimate.org/en/portfolios?calculation_id=1033088 |
| Freetown, Sierra Leone | - | Conakry, Guinea | Oneway | 0.090 | https://co2.myclimate.org/en/portfolios?calculation_id=1033095 |
| Conakry, Guinea | Paris, France | Geneva, Switzerland | Oneway | 0.998 | https://co2.myclimate.org/en/portfolios?calculation_id=1033093 |
| Geneva, Switzerland | Brussels, Belgium | Accra, Ghana | Return | 3.600 | https://co2.myclimate.org/en/portfolios?calculation_id=1033435 |
| Accra, Ghana | - | Tamale, Ghana | Return | 0.276 | https://co2.myclimate.org/en/portfolios?calculation_id=1033412 |
| Geneva, Switzerland | Casablanca, Morocco | Banjul, The Gambia | Return | 1.700 | https://co2.myclimate.org/en/portfolios?calculation_id=1033413 |
| Zurich, Switzerland | Brussels, Belgium | Accra, Ghana | Return | 3.600 | https://co2.myclimate.org/en/portfolios?calculation_id=1033432 |
| Zurich, Switzerland | Brussels, Belgium | Accra, Ghana | Return | 3.600 | https://co2.myclimate.org/en/portfolios?calculation_id=1033432 |
| Zurich, Switzerland | Istanbul, Turkey | Tashkent, Uzbekistan | Return | 3.100 | https://co2.myclimate.org/en/portfolios?calculation_id=1033438 |
| Basel, Switzerland | Amsterdam, Netherlands | Accra, Ghana | Return | 3.700 | https://co2.myclimate.org/en/portfolios?calculation_id=1033441 |
| Basel, Switzerland | Istanbul, Turkey | Tashkent, Uzbekistan | Return | 3.100 | https://co2.myclimate.org/en/portfolios?calculation_id=1033440 |
| Zurich, Switzerland | Amsterdam, Netherlands | Nairobi, Kenya | Return | 2.800 | https://co2.myclimate.org/en/portfolios?calculation_id=1035915 |
| Nairobi, Kenya | - | Kisumu, Kenya | Return | 0.230 | https://co2.myclimate.org/en/portfolios?calculation_id=1035675 |
| Hanoi, Vietnam | Nairobi, Kenya | Addis Ababa, Ethiopia | Return | 3.500 | https://co2.myclimate.org/en/portfolios?calculation_id=1035672 |
| Hanoi, Vietnam | Bangkok, Thailand | Nairobi, Kenya | Return | 3.100 | https://co2.myclimate.org/en/portfolios?calculation_id=1035673 |
| Nairobi, Kenya | - | Kisumu, Kenya | Return | 0.230 | https://co2.myclimate.org/en/portfolios?calculation_id=1035675 |
| Hanoi, Vietnam | Seoul, Korea | Tashkent, Uzbekistan | Return | 3.000 | https://co2.myclimate.org/en/portfolios?calculation_id=1035658 |
| Hanoi, Vietnam | Bangkok, Thailand | Nairobi, Kenya | Return | 3.100 | https://co2.myclimate.org/en/portfolios?calculation_id=1035673 |
| Nairobi, Kenya | - | Kisumu, Kenya | Return | 0.230 | https://co2.myclimate.org/en/portfolios?calculation_id=1035675 |
| Victoria, Canada | - | Vancouver, Canada | Return | 0.163 | https://co2.myclimate.org/en/portfolios?calculation_id=1035640 |
| Vancouver, Canada | Amsterdam, Netherlands | Accra, Ghana | Oneway | 2.400 | https://co2.myclimate.org/en/portfolios?calculation_id=1035642 |
| Accra, Ghana | - | Nairobi, Kenya | Oneway | 0.784 | https://co2.myclimate.org/en/portfolios?calculation_id=1035643 |
| Nairobi, Kenya | Amsterdam, Netherlands | Vancouver, Canada | Oneway | 2.700 | https://co2.myclimate.org/en/portfolios?calculation_id=1035644 |
| Victoria, Canada | - | Vancouver, Canada | Return | 0.163 | https://co2.myclimate.org/en/portfolios?calculation_id=1035640 |
| Vancouver, Canada | Frankfurt, Germany | Muscat, Oman | Return | 5.000 | https://co2.myclimate.org/en/portfolios?calculation_id=1035649 |

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|------------------------|-----------------|------------------------|--------|-------|---|
| Boston, USA | - | New York, USA | Oneway | 0.118 | https://co2.myclimate.org/en/portfolios?calculation_id=1035899 |
| New York, USA | Accra, Ghana | Freetown, Sierra Leone | Oneway | 1.800 | https://co2.myclimate.org/en/portfolios?calculation_id=1035900 |
| Freetown, Sierra Leone | Conakry, Guinea | Paris, France | Oneway | 0.953 | https://co2.myclimate.org/en/portfolios?calculation_id=1035902 |
| Paris, France | New York, USA | Boston, USA | Oneway | 1.200 | https://co2.myclimate.org/en/portfolios?calculation_id=1035903 |
| Chicago, USA | Paris, France | Accra, Ghana | Return | 5.400 | https://co2.myclimate.org/en/portfolios?calculation_id=1033442 |

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|--------------|--|--|--|---------------|--|
| Total | | | | 63.535 | |
|--------------|--|--|--|---------------|--|

*Calculation is adjusted for radiative forcing