



Supplemental Phase II Environmental Site Assessment Report

Ko'Kwel Wharf Property – Lot 2
Tremont Street, North Bend, Oregon

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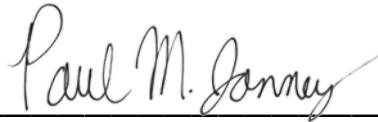
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Supplemental Phase II Environmental Site Assessment Report – Ko’Kwel Wharf Property – Lot 2 – Tremont Street, North Bend, Oregon

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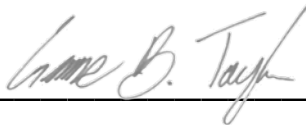
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EXECUTIVE SUMMARY

Stantec Consulting Services Inc. (Stantec) has completed a Supplemental Phase II Environmental Site Assessment (ESA) on behalf of the Mith-ih-kwuh Economic Development Corporation (MEDC) for the Ko’Kwel Wharf Property – Lot 2 located on Tremont Street in North Bend Oregon, Oregon (referred to as “Property”). MEDC is in the process of developing and implementing a Master Plan for Property redevelopment. Pursuant to these redevelopment goals for the Property, Stantec completed a Phase II ESA on Lots #2 and #3 in September 2022 (Stantec 2022b) that included incremental sampling methodology (ISM) sampling from eight decision units (DUs), composite soil sampling from eight direct-push, and grab groundwater sampling from the eight temporary wells.

Findings from the September 2022 Phase II ESA indicated concentrations of dioxins and furans in soil samples collected from 0 to 3 feet below ground surface (bgs) on Lot 2 in ISM samples collected from DU-5 and DU-6, and in the composite sample collected from SB-08. Concentrations in these samples exceeded the Oregon Department of Environmental Quality (DEQ) Risk Based Concentration (RBC) for occupational direct contact of 16 picograms per gram (pg/g).

A Conceptual Site Model (CSM) was developed for the Property based on land use and beneficial water use determinations. The CSM determined that potential receptors and potentially complete exposure pathways include:

- Direct contact with soil within 3 feet of the ground surface (occupational workers and construction/excavation workers);
- Direct contact with soil 3-15 feet below ground surface (bgs) (construction and excavation workers);
- Inhalation of indoor and outdoor vapors from volatile contaminants in groundwater (occupational workers);
- Groundwater in an excavation (construction and excavation workers); and
- Terrestrial ecological receptor direct contact with soil within 3 feet of ground surface.

The Phase II ESA described herein was focused on two DUs (DU-5 and DU-6) and one soil boring (SB-08) from the previous investigation with dioxin and furan exceedances. This investigation included ISM soil sampling from two DUs that were divided into quadrants (NE, NW, SE, and SW), a confirmation sample from SB-08, and 4 step-out borings to laterally delineate the exceedances observed in SB-08. Soil samples in this investigation were collected from two intervals: 0 to 1.5 feet bgs and 1.5 to 3 feet bgs. ISM DU quadrants were further sub-sampled discretely and submitted to the laboratory on hold pending analysis of the DU samples.

Soil samples collected from the Property indicate that concentrations of dioxins and furans exceed ecological RBCs published by DEQ in select areas. However, there is no current suitable habitat or a plan to create habitat for ecological receptors on the Property. Therefore, these exceedances are presented for informational purposes only and no cleanup or further investigation is warranted to protect ecological receptors on the Property.

A Toxic Equivalent (TEQ) was calculated for each analyzed soil sample using published Toxic Equivalency Factors (TEFs) to normalize total dioxins and furans to a common toxicity to 2,3,7,8-TCDD to allow for risk



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screening. The TEQ was detected above the occupational receptor direct contact RBC in primary soil samples including SB-08-1.5-3, DU-5-NE-0-1.5, DU-5-SE-0-1.5, DU-6-NW-0-1.5, and DU-6-SW-0-1.5. Follow on analysis was performed on the individual sub-samples collected from each DU quadrant with RBC exceedances that identified the following sub-samples with occupational direct contact RBC exceedances: DU-5-NE-A-0-1.5, DU-5-NE-B-0-1.5, DU-5-NE-C-0-1.5, DU-5-NE-H-0-1.5, DU-5-SE-I-0-1.5, DU-6-NW-D-0-1.5, DU-6-NW-F-0-1.5, DU-6-NW-I-0-1.5, and DU-6-SW-F-0-1.5.

Overall, the Property is well characterized and suitable for redevelopment. Site remediation and/or management activities are recommended for the Property, limited to the soil management area estimated at 26,400 square feet and a calculated in-situ volume of 1,467 cubic yards. An analysis of brownfield cleanup alternatives (ABCA) and/or a soil management plan should be developed to determine a cleanup/management approach for the defined soil management area.



1.0 INTRODUCTION

The Property is being evaluated using a United States Environmental Protection Agency (USEPA) Brownfield Assessment Grant (Cooperative Agreement Number BF-01J86301). A figure depicting the Property location is provided as **Figure 1**. The Supplemental Phase II ESA was conducted in conformance with the master Quality Assurance Project Plan (QAPP) prepared for the MEDC Brownfield Project and approved by the USEPA on July 8, 2021 (Stantec 2021a). Additionally, the Supplemental Phase II ESA was completed in general accordance with the *Supplemental Site-Specific Sampling and Analysis Plan (SSSAP)* dated November 18, 2022 (Stantec 2022).

2.0 PROPERTY DESCRIPTION AND PRIOR ENVIRONMENTAL ASSESSMENT/CLEANUP

2.1 PROPERTY DESCRIPTION

The Property is located on Tremont Street in North Bend, Oregon and is zoned by The City of North Bend as General Commercial (C-G) and Light/Heavy Industrial (M-L and M-H). Coos Bay is located adjacent east to the Property. Surrounding sites are generally industrial, commercial, and residential in use. A Project Location Map is provided as **Figure 1**.

The Property covers an area of 13.7 acres and is comprised of a single Coos County Tax Lot (25S13W15-105). The Property contains five existing structures historically used to manage the various commercial and industrial enterprises on the Property and adjacent tax lots.

2.2 PRIOR ENVIRONMENTAL ASSESSMENT/CLEANUP

2.2.1 2019 Stantec Environmental File Review

In 2019 Stantec completed an environmental file review for the Property and identified previous environmental records associated with the Property including a DEQ Environmental Cleanup Site Information listing (ECSI #4082). The DEQ issued a No Further Action (NFA) determination for the ECSI listing dated May 15, 2007. Overall, the Property has been well characterized and environmental conditions are well documented.

Based on a review of environmental records constituents of potential concern (COPCs) at the Property include:

- Total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO) and oil range organics (ORO);
- Volatile organic compounds (VOCs);
- Semi-volatile organic compounds (SVOCs);
- Pentachlorophenol (PCP);
- Heavy metals;
- Polychlorinated biphenyls (PCBs); and
- Dioxins and furans.



2.2.2 2022 Stantec Phase II Environmental Site Assessment

In 2022 Stantec completed a Phase II ESA on Lots #2 and #3 of the Property to assist MEDC with the redevelopment goals for the Property. The 2022 Phase II ESA included ISM soil sampling from eight DUs, composite soil sampling from eight direct-push borings, and grab groundwater sampling from eight temporary wells associated with the direct push borings.

Findings of the 2022 Phase II ESA indicated concentrations of dioxins and furans in soil samples collected from 0 to 3 feet bgs. on Lot 2 in ISM samples collected from DU-5 and DU-6, and in the composite sample collected from SB-08. These concentrations were reported in exceedance of the occupational direct contact DEQ RBC of 16 picograms per gram (pg/g). All other analytical concentrations of constituents of potential concern (COPC) were reported below applicable DEQ RBCs as indicated in the 2022 Phase II ESA Report.

3.0 CONCEPTUAL SITE MODEL AND DATA USE OBJECTIVES

The Conceptual Site Model (CSM) for Property including the land use and beneficial water use determination, and potentially complete exposure pathways remain the same from the original March 2022 SSSAP and is described in detail in that document. Based on this understanding of the CSM, potential receptors and potentially complete exposure pathways, a sampling program was developed using incremental sampling methodology (ISM) and discrete soil sampling from select locations as depicted in **Figures 2, 3, and 4**.

3.1 LAND USE DETERMINATION

The Property is zoned as General Commercial (C-G) and Light/Heavy Industrial (M-L and M-H) by the City of North Bend. Coos Bay is located adjacent east to the Property. Surrounding sites are generally industrial and commercial with residential development across Highway 101 from the Property. Likely future development will include commercial structures including retail, offices, restaurants, hotels and outdoor parking spaces, and an industrial zone designated for manufacturing and material storage, as specified in a 2020 Master Plan developed in 2020 using an Oregon Department of Land, Conservation and Development (DLCD) grant (Stantec 2021b). Therefore, current and reasonably likely future human Property receptors include occupational, construction, and excavation workers.

Current use of the Property is for industrial and commercial enterprise and there is currently no suitable habitat for terrestrial ecological receptors on the Property. Further, no habitat restoration is part of the redevelopment plan for the Property. Despite the absence of habitat, for informational purposes only, the Property risk screening will include comparison to DEQ ecological RBCs.

3.2 BENEFICIAL WATER USE DETERMINATION

There are no public or private water supply wells on the Property. Potable water is supplied to the Property and immediate area by the Coos Bay-North Bend Water Board, and future water supply to the Property is assumed to be the same; therefore, groundwater is not anticipated to be accessed for drinking or other purposes.



3.3 POTENTIALLY COMPLETE EXPOSURE PATHWAYS

Based on the current and anticipated continued future commercial and industrial use of the Property, the following exposure pathways are considered potentially complete or reasonably likely to be complete at the Property in the future:

- Direct contact with soil within 3 feet of the ground surface (occupational workers and construction/excavation workers);
- Direct contact with soil 3-15 feet below ground surface (bgs) (construction and excavation workers);
- Inhalation of indoor and outdoor vapors from volatile contaminants in soil and groundwater (occupational workers);
- Groundwater in an excavation (construction and excavation workers); and
- Terrestrial ecological receptor direct contact with soil within 3 feet of ground surface.

Analytical data gathered during the Supplemental Phase II ESA was compared to DEQ Risk-Based Concentrations (RBCs) for these potentially complete exposure pathways to assess potential risk to human health.

3.4 DATA USE OBJECTIVES

Data collected for this project will be used to:

- Support Property redevelopment;
- Assess baseline conditions for potential future Property tenants;
- Evaluate potential risk to current and future human receptors;
- Locate and identify potential sources of contamination;
- Formulate remediation strategies and estimate remediation costs;
- Evaluate treatment and disposal options;
- Characterize soil for on-site or off-site treatment; and/or
- Evaluate whether additional assessment or remediation is required.

4.0 PRE-SAMPLING ACTIVITIES

4.1 UTILITY CLEARANCE

Prior to any intrusive work at the Property, Stantec contacted the Utility Notification Center and requested a public underground utility locate for the Property. Additionally, Stantec subcontracted with GPRS to perform a geophysical survey of the property to identify subsurface utilities. The geophysical survey report is included in **Appendix A**.

4.2 HEALTH AND SAFETY

A Site-Specific Health and Safety Plan (HASP), as required by Oregon Occupational Safety and Health Division (OR-OSHA) Safety and Health Act and 40 Code of Federal Regulations 1910.120 was prepared to describe field sampling activity safety protocols for Stantec employees engaged in the project.



4.3 SPATIAL DATA COLLECTION

Stantec implemented an ISM sampling strategy generally consistent with the Interstate Technology and Regulatory Council (ITRC) ISM protocols (ITRC 2020) and with DEQ’s Decision Unit Characterization guidance (DEQ 2020b). Implementation of this sampling strategy consisted of sub-dividing Decision Units DU-5 and DU-6 into equal quadrants as depicted on **Figure 2**.

Within each DU quadrant, 10 sub-sample locations were selected to provide adequate spatial distribution of sampling locations. Upon arrival at the Property, field personnel determined the DU boundaries for the ISM sampling program using a handheld Arrow 100 global positioning system (GPS) unit as shown in **Figures 3 and 4**. Field personnel used the GPS unit to navigate to predetermined locations and used marking paint/flagging to identify the 10 sub-sample increment locations in each DU quadrant, for a total of 40 sub-sample locations per DU. Select sub-sample locations deviated from predetermined locations due to field conditions identified below. Once all increment locations were marked with marking paint/flagging, the sampling areas were photo documented and final sampling locations were collected with the GPS. Locations of temporary borings for soil (SB-08 and the four step out borings) were also collected using the GPS unit. Select DU boundaries and incremental or subsample locations were altered due to the following field conditions:

- The eastern boundary of DU-6 was adjusted approximately 15 feet west due to the original boundary being mapped over a portion of the wharf structure which could not be drilled; and,
- Areas of DU-5 and DU-6 had standing water and subsamples could not be advanced. The field team adjusted proposed borings in these areas to avoid the surface water but maintain adequate spatial coverage within the DUs. Areas of standing water as observed during field activities are shown on **Figures 3 and 4**.

5.0 SOIL AND GROUNDWATER SAMPLING METHODS AND OBSERVATIONS

Stantec subcontracted with Steadfast Services Northwest, LLC. of Vancouver, Washington, to install and collect groundwater samples from five temporary groundwater borings and to assist with sampling for the ISM program at the Property. The sampling was conducted from February 21 through February 23, 2023. The sampling methodology is described below.

5.1 SUBSURFACE CONDITIONS

Subsurface soils primarily consisted of sand, with up to 70% shells in select locations, and some silts and clays to the maximum explored depth of 3 feet bgs. No VOCs were detected with a photoionization detector (PID) above one part per million (ppm). Signs of visual and olfactory evidence of impacts to soil were not observed during the field investigation.



5.2 ISM SOIL SAMPLING

ISM sub-samples were collected using a GeoProbe 7720DT direct-push drill rig. The focus areas of DU-5 and DU-6 from the previous investigation were each sub-divided into equal quadrants. Within each quadrant, 10 direct-push borings were advanced to a maximum depth of 3 feet bgs for collection of soil sample aliquots from two depth intervals: 0 to 1.5 feet bgs and 1.5 to 3 feet bgs. Soil aliquots from each interval in each boring were composited in a stainless-steel mixing bowl using a stainless-steel spoon by dividing the soil within the bowl into quarters and thoroughly mixing each quarter separately, combining quarter portions of the bowl into two separate halves and thoroughly mixing each half, then combining the halves together and thoroughly mixing the contents of the bowl. All non-disposable field sampling equipment (i.e. bowls and spoons) were properly decontaminated between intervals using a non-phosphate cleaner (Alconox or similar) followed by a clean water rinse and a final deionized water rinse.

Two equal volumes of soil were retained from the composition bowl at each depth interval of each sub-sample boring: 1) the primary sample aliquot (used for 10-point composite primary sample) and 2) the archive sample volume. Sub-samples for the primary sample were placed directly into a one-gallon sample jar provided by the contract laboratory. The archive sample volume was separated and stored individually with the boring identification number for follow on analysis.

5.2.1 Primary Soil Samples

One aliquot from each soil sub-sample location, as described in **Section 5.2**, was collected in a secondary composition bowl to generate the 10-point depth-specific primary composite sample collected from each DU quadrant. Once all 10 subsample aliquots were obtained in the second composition bowl to create the quadrant primary sample, the soil volume was again composited using similar mixing procedures as described above and then inserted into laboratory supplied containers.

5.2.2 Archive Soil Samples

The second sub-sample aliquot was collected from the first composition bowl in laboratory supplied containers as an archive sample. Archive samples were submitted to the analytical laboratory on hold pending the results of the primary composite soil samples collected from the DU-5 and DU-6 quadrants.

5.2.3 Soil Sampling - SB-08 Confirmation and Step-Out Borings

Concentrations of dioxins and furans were reported in exceedance of the occupational direct contact RBC in the April 2022 composite soil sample from SB-08 collected from 0 to 3 feet bgs. To further define the extent of these impacts, an additional four step-out borings were advanced approximately 15 feet north, south, east, and west of the original SB-08 location, as well as a boring adjacent to the original SB-08 location for confirmation sampling.

Soils were composited from two depth intervals in the step-out borings (0 to 1.5 feet bgs and 1.5 to 3 feet bgs) using the field composition regime described in **Section 5.2**. Samples were placed into laboratory supplied containers and submitted for laboratory analysis.



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All soil samples collected during this Supplemental Phase II ESA were handled and submitted for laboratory analysis in accordance with the USEPA-approved QAPP (Stantec 2021).

Collected samples were temporarily stored in a cooler containing cubed ice. Following the completion of sampling activities, the soil samples were shipped on ice to Eurofins in Sacramento, California, for sample preparation and analysis in accordance with ITRC guidelines. The laboratory representative sampling methodology (RSM) standard operating procedure for preparation and analysis of ISM samples as presented in the SSSAP was followed. Each of the DU ISM soil samples were tested for dioxins and furans by USEPA Method 1613B.

5.3 COMPOSITE SOIL SAMPLING

Concentrations of dioxins and furans were reported in exceedance of the occupational direct contact RBC in the April 2022 composite soil sample from SB-08 collected from 0 to 3 feet bgs. To further define the extent of these impacts, an additional four step-out borings were advanced approximately 15 feet north, south, east, and west of the original SB-08 location, as well as a boring adjacent to the original SB-08 location to confirm the original result and to vertically and horizontally delineate the exceedance.

Soils were composited from two depth intervals in the step-out borings (0 to 1.5 feet bgs and 1.5 to 3 feet bgs) using the field composition regime described in **Section 5.2**. Samples were placed into laboratory supplied containers and submitted for laboratory analysis. Composite soil samples were analyzed for dioxins and furans by USEPA Method 1613B.



6.0 LABORATORY TESTING RESULTS

6.1 SOIL TESTING RESULTS

16 primary ISM soil samples, 11 composite soil samples, and 160 ISM sub-samples were collected from the Property. All 17 primary ISM soil samples (including one duplicate sample), 11 composite samples, and 40 of the ISM sub-samples were submitted for laboratory testing for this Supplemental Phase II ESA. After receiving laboratory data from the primary ISM samples, samples DU-5-NE-0-1.5, DU-5-SE-0-1.5, DU-6-NW-0-1.5, and DU-6-SW-0-1.5 had detections above the DEQ RBCs for occupational receptors. Follow on analysis was requested for the related sub-samples from each of the listed quadrants from the depth interval with exceedances.

Detected soil concentrations were compared to DEQ clean fill screening values (DEQ 2019), and applicable DEQ human health receptor RBCs (DEQ 2023) and DEQ ecological receptor RBCs (DEQ 2020a) for potentially complete exposure pathways identified in the CSM presented in **Section 3.0**. Soil sampling results were compared to the following potentially applicable human health and ecological RBCs for the Property:

- Ecological RBC – Plants;
- Ecological RBC – Invertebrates;
- Ecological RBC – Non-T&E birds;
- Ecological RBC – Non-T&E mammals;
- Occupational Direct Contact;
- Construction Worker Direct Contact; and
- Excavation Worker Direct Contact.

Soil analytical results are described in the subsection below. A comparison of soil analytical results to potentially applicable DEQ RBCs are summarized in **Tables 1**. Only detected analytes are included in tables. The Eurofins analytical reports are provided in **Appendix B**.

ISM soil samples, ISM sub-samples, and composite soil samples were analyzed for the presence of dioxins and furans. Detected concentrations of dioxins and furans in soil samples are summarized in **Table 1**. All samples had detections above the MDL for one or more of the following analytes:

- 1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD);
- 1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF);
- 1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxins (HpCDD);
- 1,2,3,4,6,7,8-Heptachlorodibenzofurans (HpCDF);
- 1,2,3,4,7,8,9-HpCDF;
- 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxins (HxCDD);
- 1,2,3,4,7,8-Hexachlorodibenzofurans (HxCDF);
- 1,2,3,6,7,8-HxCDD;
- 1,2,3,6,7,8-HxCDF;
- 1,2,3,7,8,9-HxCDF;
- 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD);
- 1,2,3,7,8-Pentachlorodibenzofurans (PeCDF);
- 2,3,4,6,7,8-HxCDF;



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- 2,3,4,7,8-PeCDF;
- 2,3,7,8-Tetrachlorodibenzo-p-dioxins (TCDD); and/or
- 2,3,7,8-Tetrachlorodibenzo-furan (TCDF).

Exceedances of the Ecological RBCs for Non-T&E Mammals and Non-T&E Birds for one or more of the individual dioxins and furans were detected except for 1,2,3,7,8,9-HxCDF.

A TEQ was calculated for each analyzed soil sample using published DEQ TEFs to normalize total dioxins to a common toxicity for 2,3,7,8-TCDD to allow for risk screening. Calculated TEQs for dioxins and furans were above clean fill screening values (0.29 picograms per gram [pg/g]) in 63 of the 68 analyzed samples. Soil samples in which the TEQ exceeded the Ecological RBC for Non-T&E mammals (0.25 pg/g) include 64 of the 68 analyzed samples. The TEQ exceeded the Ecological RBC for Non-T&E Birds (5.2 pg/g) in 42 of 68 analyzed samples.

A comparison of TEQs to human health RBCs indicated that the Occupational Direct Contact RBC (16 pg/g) was exceeded in the sample collected from 1.5 to 3 feet bgs in boring SB-08; however, the calculated TEQ in soil samples collected above and below this sample in SB-08 and the samples collected from the step-out borings did not exceed applicable RBCs. The sample result exceeding applicable RBCs in SB-08 was determined to be highly localized and concentrations do not pose a significant risk to human receptors at this location.

The Occupational Direct Contact RBC (16 pg/g) was exceeded in ISM samples and sub-samples including:

- DU-5-NE-0-1.5 and the sub-samples A, B, C, and H from the same quadrant and depth interval (e.g., DU-5-NE-A-0-1.5);
- DU-5-SE-0-1.5 and the sub-sample I from the same quadrant and depth interval;
- DU-6-NW-0-1.5 and the sub-samples D, F, and I from the same quadrant and depth interval; and,
- DU-6-SW-0-1.5 and the sub sample F from the same quadrant and depth interval.

The highest calculated TEQ for dioxins and furans was in sample DU-6-NW-D-0-1.5 at 86 pg/g. A soil management area was determined and depicted on **Figure 5** for sample locations that encompass exceedances of RBCs for occupational receptors by direct contact. This area is approximately 26,400 square feet and the impact area is limited to the 0-1.5 feet bgs interval. Based on these dimensions, the total volume of impacted soils in the soil management area is estimated at 39,600 cubic feet or 1,467 cubic yards.

No dioxin and furan concentrations exceeded RBCs for construction or excavation worker receptors, or the RBCs for occupational volatilization to outdoor air or vapor intrusion.

6.2 QUALITY ASSURANCE/QUALITY CONTROL

QA/QC procedures outlined in the SSSAP were followed for this project. The following QA/QC samples were collected during this Phase II ESA:

- One field duplicate ISM soil sample;
- One Matrix Spike/Matrix Spike Duplicate (MS/MSD) sample; and,
- One equipment blank.



6.2.1 Field Duplicate Soil Samples

A field duplicate ISM sample was collected during this Supplemental Phase II ESA. The ISM soil field duplicate sample (DU-5-X, a field duplicate of sample DU-5-SW-1.5-3) was analyzed for the same analytes as the primary sample described in **Section 5.3**. Results from the field duplicate sample are presented in **Table 1**.

6.2.2 Matrix Spike/Matrix Spike Duplicate

One MS/MSD sample was collected during this Supplemental Phase II ESA. The soil sample SB-08-1.5-3 was collected as a MS/MSD sample with triplicate volume. The MS/MSD sample was analyzed for the same analytes as the primary samples described in **Section 5.3**. Results from the MS/MSD sample are presented in **Table 1**.

6.2.3 Equipment Blank

One equipment blank (EB-20230223) was collected during the implementation of this Supplemental Phase II ESA. The equipment blank was collected by pouring deionized water over a decontaminated down hole drill rod and collecting the rinsate water directly into laboratory-supplied sample containers. The equipment blank was submitted to Eurofins Labs for the same analytical test methods as the soil samples identified in **Section 5.3**.

Six dioxin/furans were detected in equipment blank sample EB-20230223. All six of the analytes were qualified as non-detect in EB-20230223 due to associated method blank detections. As a result, no sample results were qualified because of this equipment blank detection. This analysis determined that decontamination procedures of sampling equipment used during this Phase II ESA were adequate.



7.0 DATA VALIDATION

The laboratory report received from Apex Labs was validated by Stantec chemists to verify compliance with the project QAPP, and to confirm the usability of the laboratory data. No data was rejected as a result of data validation. All data qualified as a result of the data validation is included in **Table 1** and indicated in the data validation reports included in **Appendix C**.



8.0 INVESTIGATION DERIVED WASTE

Investigation derived waste (IDW) generated during Phase II ESA activities includes decontamination water and soil cuttings. One 55-gallon drum containing purge and decontamination water and three 55-gallon drums of soil were generated during investigation activities. The four drums were labelled and staged on the Property in a designated area of the Property during the investigation phase of the project. These drums were picked up from the Property on March 9, 2023 and transported to the Hillsboro landfill as non-hazardous waste under a non-hazardous waste manifest. The non-hazardous waste manifest is included in **Appendix D**.



9.0 CONCLUSIONS AND RECOMMENDATIONS

Stantec completed a Supplemental Phase II ESA at the Property which included ISM soil sampling from two DUs sub-divided into quadrants and composite soil sampling from five direct-push borings.

Soil samples collected from the Property indicate that concentrations of select dioxins and furans, and their calculated TEQs exceed ecological RBCs in select areas. However, there is no current suitable habitat or a plan to create habitat for ecological receptors on the Property. Therefore, these exceedances are presented for informational purposes only and no cleanup or further investigation is warranted to protect ecological receptors on the Property. If habitat is to be created on the Property a more robust ecological risk assessment may be necessary.

Concentrations of select dioxins and furans in select soil samples exceed DEQ clean fill screening criteria in soil. Dioxins and furans were detected above occupational receptor RBCs in boring SB-08 from 1.5 to 3 feet bgs, and in the northeast and southeast quadrants of DU-5 and the northwest and southwest quadrants of DU-6.

Overall, the Property is well characterized and suitable for redevelopment. Site remediation and/or management activities are recommended for the Property limited to the soil management area from 0 to 1.5 feet bgs as shown on **Figure 5** and described above to mitigate the concentration of dioxins and furans that may affect human receptors. The soil management area is estimated to contain approximately 1,467 cubic yards although this volume could be refined with additional sampling and analysis that could be conducted during future site investigation or remediation. An ABCA and/or a soil management plan should be developed to determine a cleanup/management approach for the defined soil management area.



10.0 LIMITATIONS

This report documents work that was performed in accordance with generally accepted professional standards at the time and location in which the services were provided. No other representations, warranties or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential liabilities associated with the identified property.

This report provides an evaluation of selected environmental conditions associated with the identified portion of the property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information. All information received from the client or third parties in the preparation of this report has been assumed by Stantec to be correct. Stantec assumes no responsibility for any deficiency or inaccuracy in information received from others.

The conclusions are based on the site conditions encountered by Stantec at the time the work was performed at the specific testing and/or sampling locations, and conditions may vary among sampling locations. Factors such as areas of potential concern identified in previous studies, site conditions (e.g., utilities) and cost may have constrained the sampling locations used in this assessment. In addition, analysis has been carried out for only a limited number of chemical parameters, and it should not be inferred that other chemical species are not present. Due to the nature of the investigation and the limited data available, Stantec does not warrant against undiscovered environmental liabilities nor that the sampling results are indicative of the condition of the entire site. As the purpose of this report is to identify site conditions which may pose an environmental risk; the identification of non-environmental risks to structures or people on the site is beyond the scope of this assessment.

The opinions in this report can only be relied upon as they relate to the condition of the portion of the identified property that was assessed at the time the work was conducted. Activities at the property subsequent to Stantec’s assessment may have significantly altered the property’s condition. Stantec cannot comment on other areas of the property that were not assessed.

Conclusions made within this report consist of Stantec’s professional opinion as of the time of the writing of this report and are based solely on the scope of work described in the report, the limited data available and the results of the work. They are not a certification of the property’s environmental condition. This report should not be construed as legal advice.



11.0 REFERENCES

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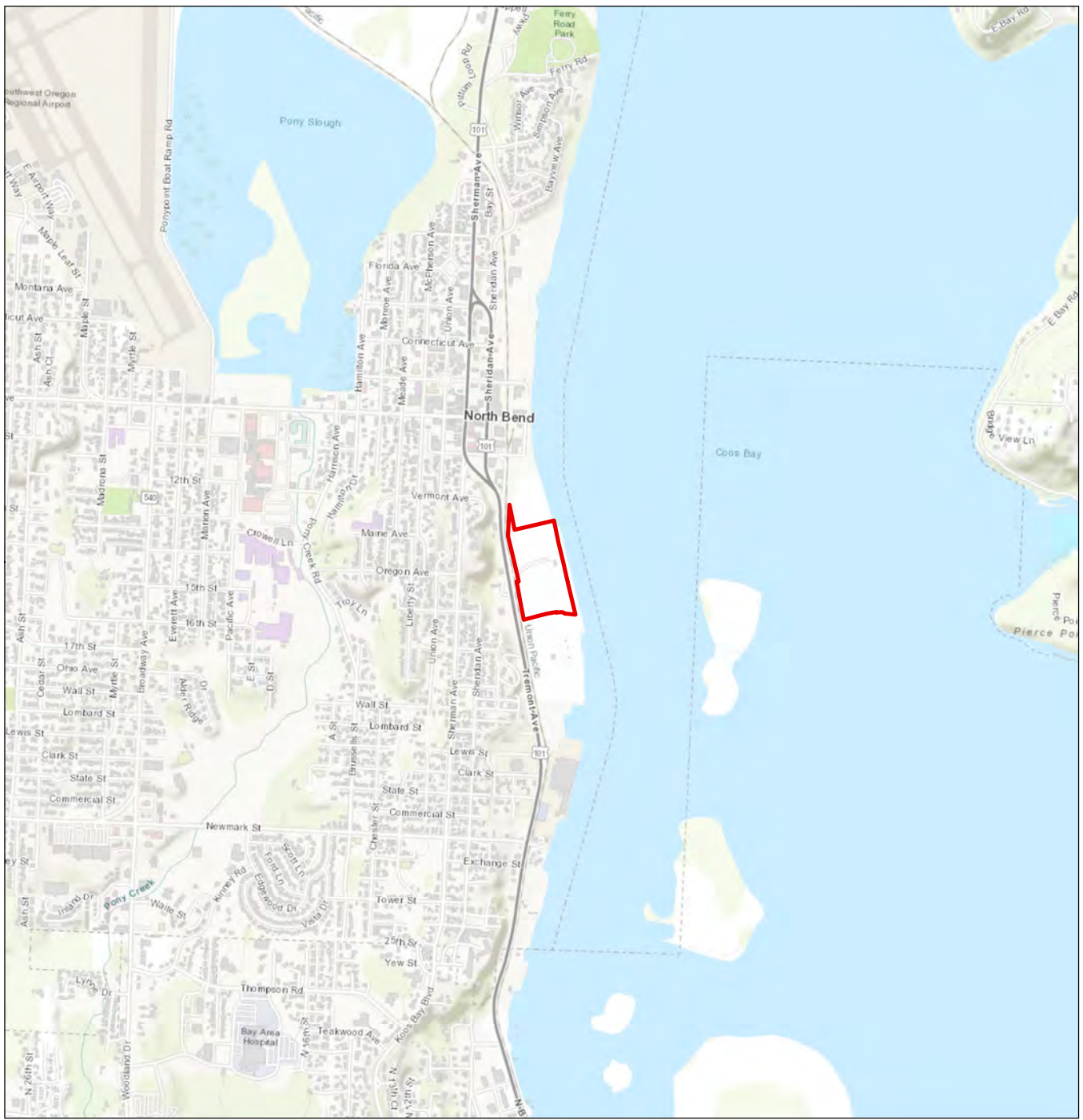
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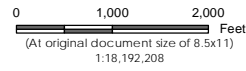
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FIGURES



 Project Location



Project Location 185751418
 Ko'Kwel Wharf
 North Bend, Coos County, OR

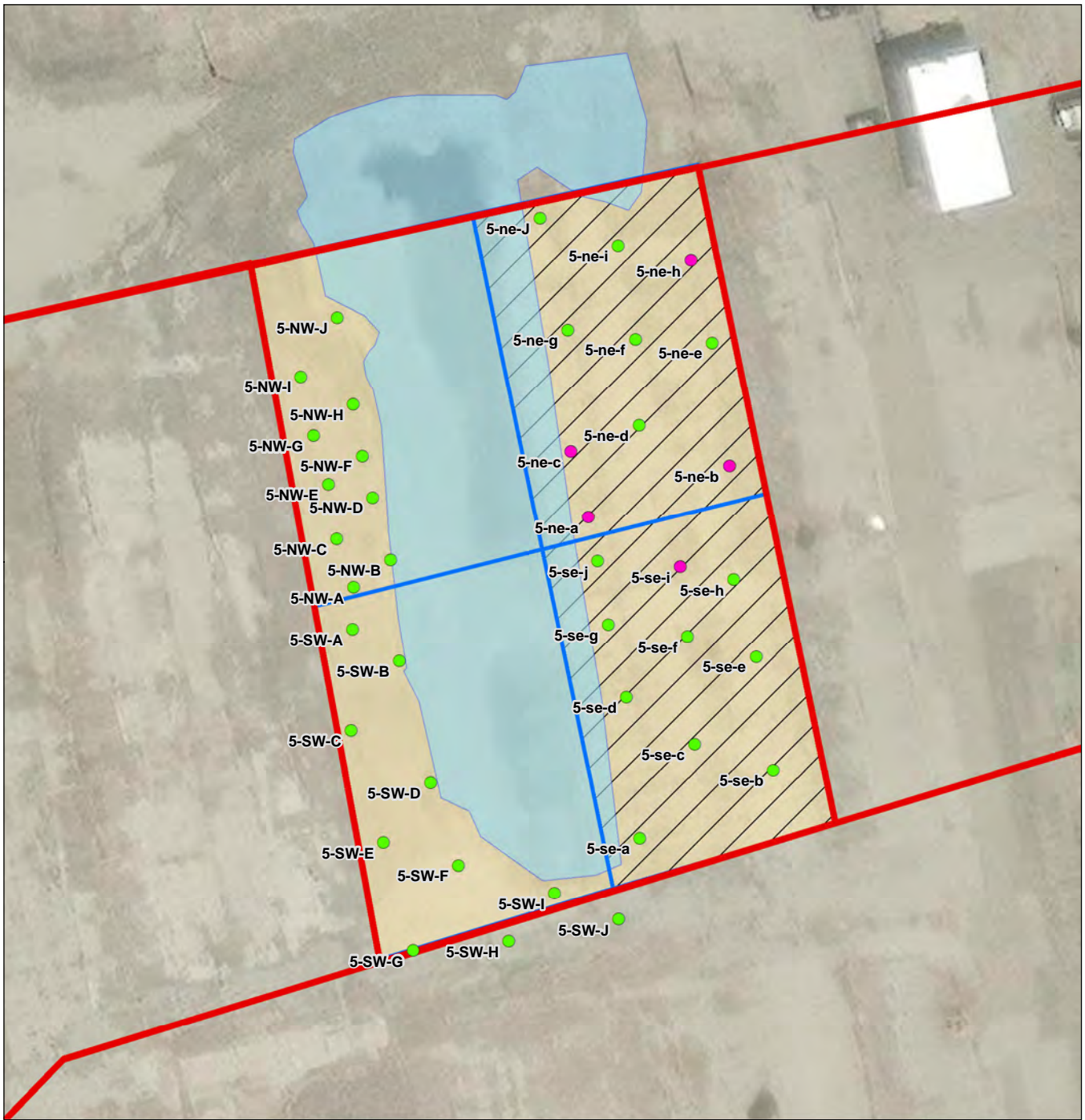
Client/Project
 Mith-ih-kwuh Economic Development Corporation
 Ko'Kwel Wharf

Figure No.
 1

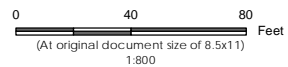
Title
 Project Location

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- Sample Location
- Sample Location (Exceeds Occupational Direct Contact)
- DU-5
- ISM Sampling Quadrants Exceeding Occupational Direct Contact
- ISM Sampling Quadrant
- Decision Unit Boundaries
- Inaccessible Area (Surface Water)

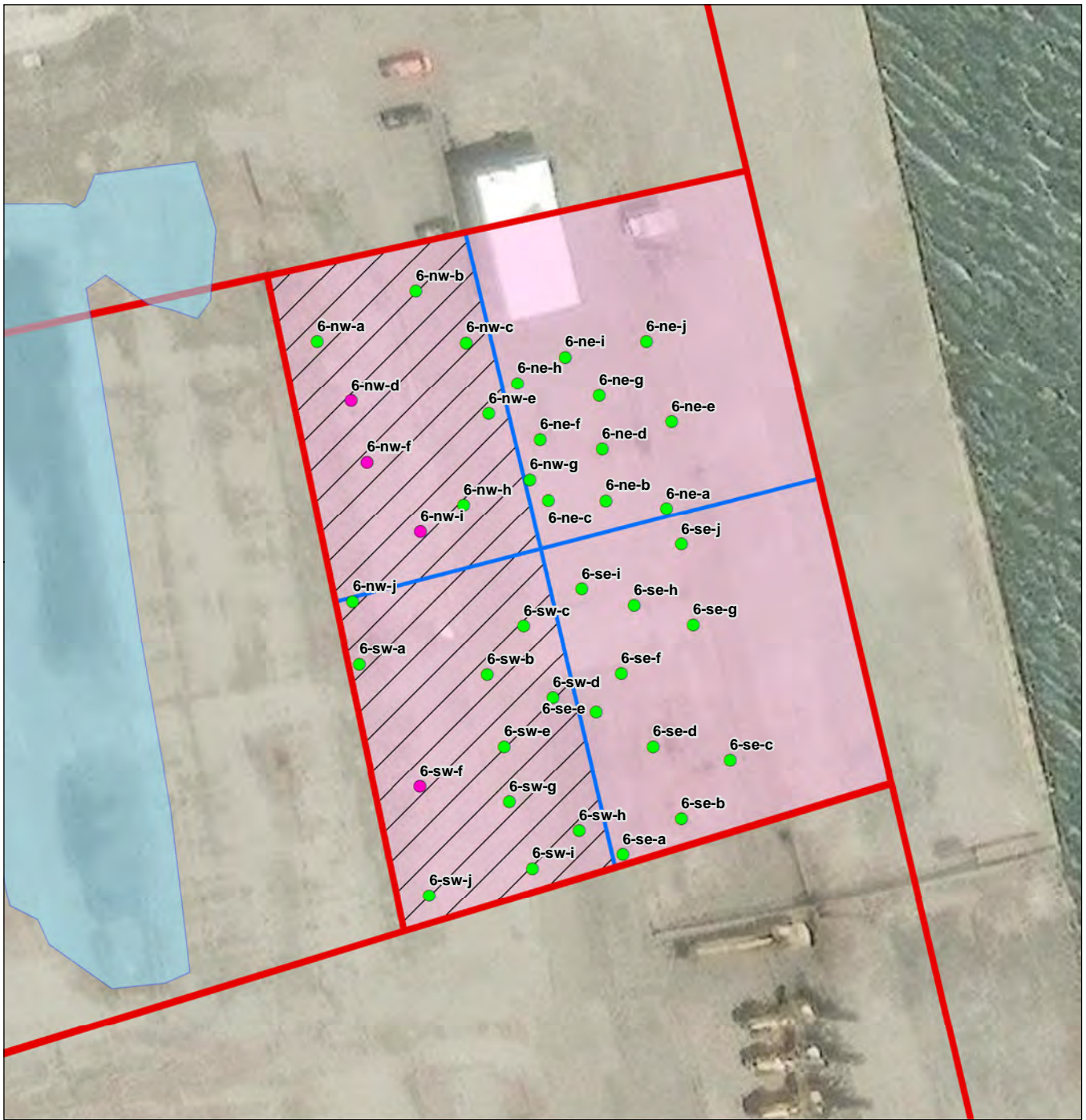


Project Location 185751418
 Ko'Kwel Wharf
 North Bend, Coos County, OR

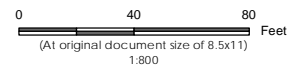
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 Ko'Kwel Wharf

Figure No.
 3

Title
 Sample Locations (DU-5)



- Sample Location
- Sample Location (Exceeds Occupational Direct Contact)
- DU-6
- ISM Sampling Quadrants Exceeding Occupational Direct Contact
- ISM Sampling Quadrant
- Decision Unit Boundaries
- Inaccessible Area (Surface Water)



Project Location 185751418
 Ko'Kwel Wharf
 North Bend, Coos County, OR

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Figure No.
 4

Title
 Sampling Locations (DU-6)

TABLES

TABLE 1
Soil Sample Analytical Results - Dioxins and Furans
Ko'Kwel Wharf Property
Tremont Street
North Bend, Oregon

Sample ID	Date Sampled	1,2,3,4,6,7,8- HpCDD	1,2,3,4,6,7,8- HpCDF	1,2,3,4,7,8,9- HpCDF	1,2,3,4,7,8- HxCDD	1,2,3,4,7,8- HxCDF	1,2,3,6,7,8- HxCDD	1,2,3,6,7,8- HxCDF	1,2,3,7,8,9- HxCDD	1,2,3,7,8,9- HxCDF	2,3,4,6,7,8- HxCDF	OCDD	OCDF	1,2,3,7,8- PeCDD	1,2,3,7,8- PeCDF	2,3,4,7,8- PeCDF	2,3,7,8- TCDD	2,3,7,8- TCDF	2,3,7,8-TCDD TEQ, ND=0
DU-5-NE-0-1.5	2/22/2023	920	140	6.6	6.7	8.9	76	8.8	22	1.2 U	9.3	7,100	140	5.4	2.6 J	3.0 J	0.15 U	3.4	33
DU-5-NE-A-0-1.5	2/22/2023	2100 J	250	9.5 J-	20	15 J	230	12 J	51	2.4 U	14 J	16000 J	150	11 J	7.0	10	1.5	6.1	79
DU-5-NE-B-0-1.5	2/22/2023	2000 J	270	9.1	20	21	260	17	52	1.3 U	16	18000 J	190	10 J	5.7	7.9	1.4	5.8	81
DU-5-NE-C-0-1.5	2/22/2023	640	80	2.4 UJ	6.1	7.2	100	7.5	22	1.4 U	5.6 J	5900 J	47	5.5	4.8 U	4.8	0.69 J	4.2	32
DU-5-NE-D-0-1.5	2/22/2023	170	19	0.55 U	5.0 U	5.0 U	24	5.0 U	5.5	0.35 U	5.0 U	1200	19	5.0 U	5.0 U	5.0 U	0.42 J	0.51 U	5.6
DU-5-NE-E-0-1.5	2/22/2023	310	53	4.8 U	4.8 U	4.8 U	51	4.8 U	12	0.92 U	4.8 U	2200	43	4.8 U	4.8 U	4.8 U	0.59 U	0.82 U	11
DU-5-NE-F-0-1.5	2/22/2023	260	30	4.7 UJ	4.7 U	4.7 U	36	4.7 U	8.1	0.37 U	4.7 U	2100	27	4.7 U	4.7 U	4.7 U	0.30 J	0.40 U	8.2
DU-5-NE-G-0-1.5	2/22/2023	230	49	4.7 UJ	7.9	4.7 U	23	4.7 U	5.3	4.7 U	4.7 U	1800	87	4.7 U	4.7 U	4.7 U	0.34 J	0.47 U	7.3
DU-5-NE-H-0-1.5	2/22/2023	610	130	5.2 J-	6.9	7.3	110	7.4	19	1.6 U	5.1 J	5400 J	150	5.4	4.8 U	4.8 U	1.1	2.8	31
DU-5-NE-I-0-1.5	2/22/2023	290	31	1.0 UJ	4.6 U	4.6 U	36	4.6 U	8.0	0.29 U	4.6 U	2500	30	4.6 U	4.6 U	4.6 U	0.43 J	0.63 U	8.8
DU-5-NE-J-0-1.5	2/22/2023	100	32	4.7 UJ	4.7 U	1.5 U	5.5	1.1 U	4.7 U	1.6 U	1.4 U	840 J-	66	4.7 U	0.21 U	0.35 U	0.19 J	0.53 J	2.4
DU-5-NE-1.5-3	2/22/2023	430	51	3.3 J	5.5	3.8 J	18	2.1 J	8.2	0.49 U	1.6 J	3,300	230	2.2 J	1.8 J	1.7 J	0.41 U	4.3	13
DU-5-NW-0-1.5	2/21/2023	210	36	1.8 J	1.5 J	4.0 J	10	2.5 J	4.2 J	0.46 J	1.5 J	1,700	82 J	0.43 U	1.9 J	1.4 J	0.12 U	1.9	6.1
DU-5-NW-1.5-3	2/21/2023	520	80	3.1 J	2.7 J	4.6 J	14	2.2 J	4.8 J	0.41 U	1.6 J	5,000	440	1.1 J	2.0 J	2.2 J	0.24 U	3.9	13
DU-5-SE-0-1.5	2/21/2023	610	84	4.6 J	5.2 J	4.8 J	63	4.8 J	12 J	0.51 U	4.0 J	4,500	99	2.5 J	1.7 J	2.0 J	0.25 U	2.4	21
DU-5-SE-A-0-1.5	2/21/2023	410	60	4.8 U	4.8 U	4.8 U	60	4.8 U	10	0.37 U	4.8 U	2200	42	4.8 U	4.8 U	4.8 U	1.3	0.35 U	14
DU-5-SE-B-0-1.5	2/21/2023	350	62	4.8 UJ	10	4.8 U	45	4.8 U	10	0.62 U	4.8 U	3100	91	4.8 U	4.8 U	4.8 U	0.55 J	1.9	12
DU-5-SE-C-0-1.5	2/21/2023	100	14	0.91 UJ	4.8 U	4.8 U	13	4.8 U	4.8 U	0.33 U	4.8 U	740	23	4.8 U	4.8 U	4.8 U	0.19 U	0.27 U	2.7
DU-5-SE-D-0-1.5	2/21/2023	360	67	0.87 UJ	4.8 U	4.8 U	55	4.8 U	8.2	0.50 U	4.8 U	2600	41	4.8 U	4.8 U	4.8 U	0.47 J	0.54 U	12
DU-5-SE-E-0-1.5	2/21/2023	84	13	0.90 U	4.9 U	0.59 U	11	0.46 U	4.9 U	0.41 U	0.43 U	540	27	0.63 U	0.45 U	0.63 U	0.84 U	0.59 J	2.3
DU-5-SE-F-0-1.5	2/21/2023	100	21	0.92 UJ	4.9 U	4.9 U	10	4.9 U	4.9 U	0.25 U	4.9 U	1000	50	4.9 U	4.9 U	4.9 U	0.21 J	0.96 J	2.8
DU-5-SE-G-0-1.5	2/21/2023	55	5.8	0.32 U	5.0 U	0.52 U	8.8	0.39 U	5.0 U	0.53 U	0.50 U	270	9.9 U	5.0 U	5.0 U	5.0 U	0.17 J	0.72 J	1.8
DU-5-SE-H-0-1.5	2/21/2023	39	6.1	0.89 UJ	4.8 U	0.41 U	5.4	4.8 U	4.8 U	0.39 U	0.35 U	370	12	4.8 U	4.8 U	4.8 U	0.13 U	0.36 J	1.1
DU-5-SE-I-0-1.5	2/21/2023	590	130	6.3	14	6.6	37	4.9 U	9.0	4.9 U	4.9 U	9600 J	380	4.9 U	4.9 U	4.9 U	1.2 J	2.5	18
DU-5-SE-J-0-1.5	2/21/2023	390	54	2.1 UJ	5.0 U	5.0 U	46	5.0 U	6.6	0.40 U	5.0 U	3500	37	5.0 U	5.0 U	5.0 U	0.17 J	0.67 U	11
DU-5-SE-1.5-3	2/21/2023	320	52	3.7 J	5.4	4.9	14	3.0 J	7.7	0.44 U	2.1 J	2,500	240	3.7 J	3.6 J	3.6 J	0.39 U	5.5	14
DU-5-SW-0-1.5	2/21/2023	50	8.8	0.58 U	0.42 U	0.54 U	3.4 J	0.46 U	0.91 J	0.55 U	0.48 U	420	15 J	0.32 U	0.27 U	0.30 U	0.11 U	0.40 J	1.2
DU-5-SW-1.5-3	2/21/2023	170	30	3.8 J	1.3 J	4.2 J	5.9	3.6 J	3.1 J	0.39 J	0.89 J	3,500	180	0.74 J	2.2 J	1.6 J	0.11 U	2.3	6.6
DU-5-X (FD of DU-5-SW-1.5-3)	2/21/2023	180	35	3.7 J	1.2 J	4.0 J	6.9	3.5 J	3.8 J	0.43 J	1.0 J	3,000	150	0.50 U	1.8 J	1.2 J	0.58 J	2.4	6.4
DU-6-NE-0-1.5	2/23/2023	110	25	1.5 J	1.1 J	1.6 J	6.1	1.8 J	3.1 J	0.39 U	0.91 J	990	68 J	0.72 J	0.48 J	0.38 J	0.088 U	1.0	4.1
DU-6-NE-1.5-3	2/23/2023	310	21	1.1 J	2.4 J	0.28 U	4.7 J	0.28 U	3.3 J	0.25 U	0.25 U	2,100	150	0.28 U	0.43 J	0.36 J	0.086 U	0.26 J	5.2
DU-6-NW-0-1.5	2/22/2023	420	110	5.3	5.4	4.2 J	29	4.6 J	9.5	0.88 U	4.2 J	2,800	330	2.5 J	1.0 J	1.4 J	0.90 J	2.0	16
DU-6-NW-A-0-1.5	2/22/2023	290	78	4.8 U	5.1	4.8 U	21	4.8 U	8.3	0.34 U	1.7 J	2400	330	1.5 J	1.4 J	1.9 J	0.45 J	2.0	11
DU-6-NW-B-0-1.5	2/22/2023	14	4.8 U	0.13 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	0.082 J	110	11	0.26 J	0.25 J	0.25 J	0.17 J	0.88 J	0.79
DU-6-NW-C-0-1.5	2/22/2023	22	5.1	0.32 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	0.098 U	0.21 J	160	15	0.50 J	0.46 J	0.40 J	0.14 J	0.35 U	1.1
DU-6-NW-D-0-1.5	2/22/2023	1500	520	21	42	19	190	20	57	1.5 U	18	10000 J	1,200	18 J	5.0 J	9.6	6.1	5.1	86
DU-6-NW-E-0-1.5	2/22/2023	47	8.0	0.23 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	0.063 U	0.23 J	470	38	0.28 J	0.52 J	0.55 J	0.18 J	0.60 U	1.4
DU-6-NW-F-0-1.5	2/22/2023	760	340	14 UJ	20	13	110	11	33	0.94 U	11	4300 J	690	8.4	3.2 J	5.5	1.1 J	2.6	44
DU-6-NW-G-0-1.5	2/22/2023	130	26	4.8 U	1.1 J	1.2 J	3.6 J	0.40 U	1.9 J	0.43 U	0.41 U	1500	160	0.35 J	0.59 J	0.60 J	0.39 J	1.3	3.9
DU-6-NW-H-0-1.5	2/22/2023	440	59	2.5 UJ	2.6 J	1.7 J	16	1.3 J	6.1	0.52 U	0.70 J	3700 J	370	1.2 J	0.54 J	0.73 J	0.37 J	0.77 J	11
DU-6-NW-I-0-1.5	2/22/2023	510	98	5.4	7.2	5.2	59	5.1	16	0.46 U	3.6 J	4600 J	220	3.0 J	1.5 J	2.2 J	1.0	2.1	22
DU-6-NW-J-0-1.5	2/22/2023	61	12	4.9 U	1.3 J	1.2 J	8.1	0.90 J	2.4 J	4.9 U	0.48 J	430	18	0.68 J	0.46 J	0.44 J	0.20 J	0.54 J	3.4
DU-6-NW-1.5-3	2/22/2023	230	42	2.2 J	3.7 J	2.6 J	13	1.4 J	7.7	0.18 U	1.3 J	1,900	160	1.1 J	0.89 J	1.2 J	0.28 U	2.1	8.0
DU-6-SE-0-1.5	2/23/2023	190	29	2.5 J	1.1 J	1.3 J	5.2	0.71 J	2.6 J	0.12 U	0.29 J	1,800	130	0.49 J	0.41 J	0.44 J	0.060 U	1.2	4.7
DU-6-SE-1.5-3	2/23/2023	69	5.6	0.46 J	0.60 J	0.49 J	1.1 J	0.27 J	0.88 J	0.089 U	0.087 U	460	34 J	0.12 U	0.046 U	0.055 U	0.053 U	0.87 J	1.3
DU-6-SW-0-1.5	2/22/2023	520	120	5.9	5.2	4.6 J	43	4.4 J	15	0.99 U	6.4	3,300	230	3.7 J	1.5 J	2.1 J	0.14 U	2.8	20
DU-6-SW-A-0-1.5	2/22/2023	140	26	4.8 U	4.8 U	4.8 U	14	4.8 U	6.6	0.39 U	1.3 J	940	57	1.5 J	0.51 J	0.85 J	0.47 U	0.11 U	5.9
DU-6-SW-B-0-1.5	2/22/2023	400	43	1.9 U	4.6 U	4.6 U	10	4.6 U	4.6 U	0.26 U	0.26 U	2800	330	0.45 J	0.41 J	0.48 J	0.22 J	0.14 U	7.2
DU-6-SW-C-0-1.5	2/22/2023	94	15	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	0.091 U	0.20 J	890	86	0.34 J	0.32 J	0.39 J	0.18 J	0.49 J	2.1

TABLE 1
Soil Sample Analytical Results - Dioxins and Furans
Ko'Kwel Wharf Property
Tremont Street
North Bend, Oregon

Sample ID	Date Sampled	1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	1,2,3,4,7,8-HxCDD	1,2,3,4,7,8-HxCDF	1,2,3,6,7,8-HxCDD	1,2,3,6,7,8-HxCDF	1,2,3,7,8,9-HxCDD	1,2,3,7,8,9-HxCDF	2,3,4,6,7,8-HxCDF	OCDD	OCDF	1,2,3,7,8-PeCDD	1,2,3,7,8-PeCDF	2,3,4,7,8-PeCDF	2,3,7,8-TCDD	2,3,7,8-TCDF	2,3,7,8-TCDD TEQ, ND=0
DU-6-SW-D-0-1.5	2/22/2023	59	12	0.59 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	0.19 U	0.31 J	1200	35	0.33 J	0.30 J	0.35 J	0.26 J	0.37 J	1.9
DU-6-SW-E-0-1.5	2/22/2023	170	59	4.9 U	4.9 U	4.9 U	20	4.9 U	5.4	0.36 U	1.8 J	960	81	1.3 J	0.88 J	1.1 J	0.22 J	0.87 J	7.3
DU-6-SW-F-0-1.5	2/22/2023	1800	530	22	51	22	280	23	68	1.9 U	22	14000 J	910	21 J	7.1 J	13	3.3	7.7	104
DU-6-SW-G-0-1.5	2/22/2023	69	12	0.51 U	4.6 U	4.6 U	9.4	4.6 U	4.6 U	0.15 U	0.39 J	450	29	0.60 J	0.54 J	0.67 J	0.24 J	0.99	3.1
DU-6-SW-H-0-1.5	2/22/2023	32	9.1	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	0.31 U	0.37 J	290	16	0.48 J	0.35 J	0.40 J	0.31 J	0.58 J	1.5
DU-6-SW-I-0-1.5	2/22/2023	150	21	4.9 U	4.9 U	4.9 U	16	4.9 U	5.5	0.19 U	0.72 J	990	69	1.1 J	0.59 J	0.73 J	0.26 J	0.96 J	5.9
DU-6-SW-J-0-1.5	2/22/2023	150	44	4.9 U	4.9 U	4.9 U	19	4.9 U	6.3	0.76 U	1.7 J	890	79	1.5 J	0.59 J	0.89 J	0.44 J	0.58 J	7.2
DU-6-SW-1.5-3	2/22/2023	180	35	2.0 J	3.2 J	2.4 J	9.8	1.2 J	3.7 J	0.22 U	1.0 J	1,700	120	1.6 J	0.88 J	0.90 J	0.20 U	2.0	6.9
SB-08-0-1.5	2/23/2023	190	28	1.6 J	4.7 J	2.4 J	9.2	1.4 J	5.4 J	0.19 U	0.91 J	1,300	110	1.7 J	1.5 J	1.2 J	0.23 U	2.9	7.4
SB-08-1.5-3	2/23/2023	660	95	4.6 J	6.1	6.4	44	5.2	15	0.46 U	4.3 J	6,300 J	150	0.29 U	2.6 J	2.4 J	0.83 J	2.5	20
SB-08-3-6	2/23/2023	8.4	4.7 U	0.085 U	0.27 J	0.17 J	0.43 J	0.11 J	0.17 J	4.7 U	0.058 J	98	9.3 U	0.034 U	0.11 J	0.075 J	0.035 U	0.13 J	0.27
SB-08-E-0-1.5	2/23/2023	12	3.3 J	0.13 U	0.37 J	0.11 J	0.90 J	0.22 J	0.47 J	0.071 U	0.12 J	84	4.7 J	0.051 U	0.045 U	0.057 U	0.067 J	0.26 J	0.49
SB-08-E-1.5-3	2/23/2023	3.6 J	0.98 J	0.19 U	0.33 U	0.28 U	0.32 U	0.26 U	0.3 U	0.23 U	0.22 U	71	2.4 J	0.23 U	0.062 U	0.076 U	0.045 U	0.024 U	0.068
SB-08-N-0-1.5	2/23/2023	6.1	0.59 J	0.25 J	0.29 J	0.014 U	0.35 J	0.014 U	0.28 J	0.22 J	0.014 U	42	2.1 J	0.0095 U	0.0092 U	0.011 U	0.021 U	0.078 J	0.20
SB-08-N-1.5-3	2/23/2023	10	0.54 J	0.068 J	0.16 J	0.011 U	0.33 J	0.011 U	0.021 U	0.062 J	0.01 U	62	0.81 J	0.014 U	0.0049 U	0.0056 U	0.012 U	0.0012 U	0.18
SB-08-S-1.5-3	2/23/2023	150	34	1.4 J	0.99 J	1.5 J	11	1.0 J	2.4 J	0.13 U	1.1 J	860	58	0.61 J	0.50 J	0.41 J	0.026 U	0.47 J	4.7
SB-08-S-1-1.5	2/23/2023	330	65	3.8 J	5.4	3.5 J	17	2.4 J	7.2	0.27 J	2.2 J	2,800	220	2.3 J	1.5 J	1.5 J	0.14 U	2.8	12
SB-08-W-0-1.5	2/23/2023	4.9	0.15 U	0.15 U	0.099 U	0.12 U	0.096 U	0.11 U	0.089 U	0.1 U	0.10 U	18 J	0.30 U	0.077 U	0.049 U	0.054 U	0.062 U	0.035 U	0.054
SB-08-W-1.5-3	2/23/2023	300	79	3.3 J	2.5 J	2.4 J	13	1.6 J	5.3	0.26 U	1.4 J	2,000	300	1.1 J	0.83 J	0.82 J	0.054 U	0.79 J	8.6
Clean Fill Screening Values		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.29
Ecological RBC - Plants		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ecological RBC - Invertebrates		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,000,000
Ecological RBC - Non-T&E Birds		1,500	230	230	51	23	190	23	19	30	23	19,000	14,000	5.9	41	4.1	5.2	6.4	5.2
Ecological RBC - Non-T&E Mammals		7.0	11	11	1.2	1.1	0.89	1.1	0.89	1.4	1.1	300	220	0.28	6.5	0.65	0.25	3.0	0.25
Occupational Direct Contract RBC		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16
Construction Worker Direct Contact RBC		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	170
Excavation Worker Direct Contact RBC		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,800

Notes:
All results expressed as picograms per gram
bold = indicates concentrations detected above method detection limits
shaded yellow = indicates concentration exceeds one or more ecological RBCs
shaded orange = indicates concentration exceeds one or more human health RBCs
DUP = field duplicate
NA = Not Available, no screening value is listed for this analyte
ND = non-detect
T&E = threatened or endangered
TEQ = Toxic Equivalence Quotient
J = The result is an estimated value; "+" indicates a potential high bias and "-" indicates a potential low bias.
U = Not detected above the reported value
UJ = Not detected above the estimated value

Clean Fill Screening Values, Oregon DEQ April 2019 revision
Ecological Receptor RBCs = Oregon DEQ Default Tier 1 Risk-Based Concentrations, September 2020
RBCs = Oregon DEQ Risk-Based Concentrations, June 2023 revision

Appendix A GEOPHYSICAL SURVEY REPORT



SUBMITTAL LETTER

To: STANTEC

DECEMBER 13, 2022

Re: GPRS FINDINGS REPORT

KOKWEL WHARF, 3050 TREMONT AVE, NORTH BEND, OR

Thank you for the opportunity to serve you on your project. Please refer to the job summary report that is sent separately from this document for additional notes related to our site visit. Included with this submittal email, please find the document list below which includes a link to download your files from our database:

Document List:

COPIES	DATE	DESCRIPTION	LINK
1	12/13/2022	PDF Aerial Overlay - Open with PDF reader	PDF
1	12/13/2022	PDF Aerial Overlay with Icons - Open with PDF reader	PDF
1	12/13/2022	KMZ file - Open with Google Earth	KMZ
1	12/13/2022	SHP files - For use in CAD or GIS software	SHP

As an additional service, we also provide CAD drawings and can even use your existing drawings as background linework for our files. If you have already ordered CAD as a deliverable option, the CAD will be delivered as a separate submittal, typically in the next few days. If you would like CAD as a deliverable and have not yet requested it, please reach out to us to get a quote to have the service added to your job by replying to this email or giving me a call.

As a reminder, we do not provide surveying or engineering services at GPRS. The data provided is at mapping quality for general reference only. The GNSS/GPS locators that we utilize are certified for sub-meter accuracy and locations were attained by our project managers that are not surveying professionals. Some of the documents we provide with our deliverable have embedded location and elevation data that should be used at your own risk due to accuracy limitations listed above. If survey and design level accuracy is needed, you will need to hire a licensed surveyor in that state to pick up field markings to provide you with the desired data separate from GPRS. This letter is subject to our Terms and Conditions which are listed and incorporated by reference here: <https://gp-radar.com/terms-conditions>.

Please let me know if you have any questions, concerns, or additional requests. I look forward to working with you again soon.

Thank you!

Bradley Oberklaus

CC: Docs@gprsinc.com

Bradley.Oberklaus@gprsinc.com

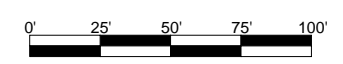


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LEGEND

- ELECTRICAL
- SANITARY
- STORM
- UNKNOWN
- WATER
- SCAN LIMIT



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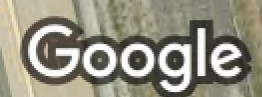
GPRS FINDINGS MAP

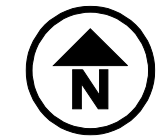
PREPARED FOR:
STANTEC

LOCATION:
KOKWEL WHARF
3050 TREMONT AVE
NORTH BEND, OR

PROJECT MANAGER:
BRADLEY OBERKLAUS
BRADLEY.OBERKLAUS@GPRSINC.COM

DATE	2022 DEC 13		
DRAWING NO.	1	REV.	0





AIR_COMPRESSOR	ELEC_BOX	FUEL_AST	MISC_CONTINUOUS	STEAM_CONTINUOUS	TREE_CONIFEROUS
AIR_CONTINUOUS	ELEC_CABINET	FUEL_CONTINUOUS	MISC_DEPTH	STEAM_EOI	TREE_DECIDUOUS
AIR_EOI	ELEC_CONTINUOUS	FUEL_EOI	MISC_EOI	STEAM_MANHOLE	UNKN_CONTINUOUS
AIR_MANHOLE	ELEC_EOI	FUEL_MANHOLE	MISC_MANHOLE	STEAM_MISC	UNKN_EOI
AIR_MISC	ELEC_EQUIPMENT	FUEL_MISC	MISC_POINT	STEAM_VALVE	UNKN_MANHOLE
AIR_PUMP	ELEC_LANDSCAPELIGHT	FUEL_PUMP	MISC_VALVE	STRM_CATCHBASINROUND	UNKN_MISC
AIR_RISER	ELEC_MANHOLE	FUEL_RISER	OIL_CONTINUOUS	STRM_CATCHBASINSQUARE	UNKN_VALVE
CHEM_AST	ELEC_METER	FUEL_UST	OIL_EOI	STRM_CLEANOUT	WTR_BACKFLOWPREVENTOR
CHEM_CONTINUOUS	ELEC_MISC	FUEL_VALVE	OIL_MANHOLE	STRM_CONTINUOUS	WTR_CONTINUOUS
CHEM_EOI	ELEC_PANEL	FUEL_VAULT	OIL_MISC	STRM_CURBINLET	WTR_EOI
CHEM_MANHOLE	ELEC_POWERPOLE	FUEL_VENT	OIL_PUMP	STRM_ENDPIPE	WTR_HYDRANT
CHEM_MISC	ELEC_SIGN	GAS_AST	OIL_RISER	STRM_LIFTSTATION	WTR_MANHOLE
CHEM_PUMP	ELEC_SITELIGHT	GAS_CONTINUOUS	OIL_TANK	STRM_LIFTSTATION	WTR_METER
CHEM_TANK	ELEC_TRANSFORMER	GAS_EOI	OIL_UST	STRM_MANHOLE	WTR_MISC
CHEM_VALVE	ELEC_UTILITYPOLE	GAS_MANHOLE	OIL_VALVE	STRM_MISC	WTR_POSTINDICATORVALVE
COMM_BOX	ELEC_VAULT	GAS_METER	OIL_VAULT	STRM_ROOFDRAIN	WTR_RISER
COMM_CAMERA	FIRE_BACKFLOWPREVENTOR	GAS_MISC	OIL_VENT	STRM_TRENCHDRAIN	WTR_VALVE
COMM_CONTINUOUS	FIRE_CONTINUOUS	GAS_PUMP	SAN_CLEANOUT	STRM_UST	WTR_WELLHEAD
COMM_EOI	FIRE_EOI	GAS_RISER	SAN_CONTINUOUS	STRM_VAULT	BUILDING CORNER
COMM_MANHOLE	FIRE_HYDRANT	GAS_UST	SAN_EOI	STRM_VENT	FLAGPOLE
COMM_MISC	FIRE_MANHOLE	GAS_VALVE	SAN_GREASETRAP	STRM_YARDBASIN	GRAVE
COMM_PEDESTAL	FIRE_METER	GAS_VAULT	SAN_INVERT	TRAF_BOX	GRAVE
COMM_POLE	FIRE_MISC	GAS_VENT	SAN_LIFTSTATION	TRAF_CABINET	HEADSTONE NO GRAVE
COMM_VAULT	FIRE_POSTINDICATORVALVE	IRR_BACKFLOWPREVENTOR	SAN_MANHOLE	TRAF_CONTINUOUS	MAILBOX
	FIRE_RISER	IRR_CONTINUOUS	SAN_MARKER	TRAF_EOI	POST
	FIRE_VALVE	IRR_CONTROL VALVE	SAN_MISC	TRAF_MANHOLE	SATELLITE
		IRR_EOI	SAN_SEPTICTANK	TRAF_MISC	SIGN
		IRR_MISC	SAN_VAULT	TRAF_PARKINGMETER	SOIL BORING MARKER
		IRR_RISER	SAN_VENT	TRAF_SIGN	SOIL BORING MARKER
		IRR_SPRINKLER		TRAF_SIGNAL	
				TRAF_STREETLIGHT	

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LEGEND

	ELECTRICAL
	SANITARY
	STORM
	UNKNOWN
	WATER
	SCAN LIMIT



Know what's below. Call before you dig.

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GPRS FINDINGS MAP

PREPARED FOR: STANTEC

LOCATION: KOKWEL WHARF 3050 TREMONT AVE NORTH BEND, OR

PROJECT MANAGER: BRADLEY OBERKLAUS BRADLEY.OBERKLAUS@GPRSINC.COM

DATE	2022 DEC 13
DRAWING NO.	2 REV. 0

Appendix B LABORATORY ANALYTICAL REPORTS





ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Janney
Stantec Consulting Corp.
601 SW 2nd Ave.
Suite 1400
Portland, Oregon 97204
Generated 4/6/2023 10:37:55 AM

JOB DESCRIPTION

Ko'Kwel Wharf Property

JOB NUMBER

320-97305-1

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northern California, LLC Project Manager.

Authorization



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Authorized for release by
Afsaneh Salimpour, Senior Project Manager
Afsaneh.Salimpour@et.eurofinsus.com
(925)484-1919



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Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Qualifiers

Dioxin

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Job ID: 320-97305-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-97305-1

Comments

No additional comments.

Receipt

The samples were received on 3/2/2023 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 3.7° C, 3.9° C, 4.4° C and 4.8° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SB-08-S-1-1.5 (320-97305-179). Sample 179, Container ID has SB-08-S-0-1.5 COC lists ID as SB-08-S-1-1.5. Sample logged in and labeled according to COC.

Dioxin

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD associated with the following samples run on instrument 12D5 exceeded this criteria: EB-20230223 (320-97305-185), (CCV 320-662732/2), (LCS 320-661244/2-A), (LCSD 320-661244/3-A) and (MB 320-661244/1-A). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD associated with the following samples run on instrument DFS 1 exceeded this criteria: SB-08-N-0-1.5 (320-97305-177), SB-08-N-1.5-3 (320-97305-178), SB-08-S-1-1.5 (320-97305-179), SB-08-S-1.5-3 (320-97305-180), SB-08-W-0-1.5 (320-97305-181), SB-08-W-1.5-3 (320-97305-182), SB-08-E-0-1.5 (320-97305-183), SB-08-1.5-3 (320-97305-187), SB-08-1.5-3 (320-97305-187[MSJ]), (CCV 320-663407/2), (LCS 320-661996/2-A) and (MB 320-661996/1-A) ; DU-5-SE-0-1.5 (320-97305-1), DU-5-SE-1.5-3 (320-97305-12), DU-5-SW-1.5-3 (320-97305-23), DU-5-SW-0-1.5 (320-97305-34), DU-5-NE-1.5-3 (320-97305-45), DU-5-NE-0-1.5 (320-97305-56), SB-08-E-1.5-3 (320-97305-184), SB-08-0-1.5 (320-97305-186), (CCV 320-663408/17), (LCS 320-662426/2-A) and (MB 320-662426/1-A) ; DU-5-NW-0-1.5 (320-97305-67), DU-5-NW-1.5-3 (320-97305-78), DU-6-SE-1.5-3 (320-97305-89), DU-6-SE-0-1.5 (320-97305-100), DU-6-SW-1.5-3 (320-97305-111), DU-6-SW-0-1.5 (320-97305-122), DU-6-NE-0-1.5 (320-97305-133), DU-6-NE-1.5-3 (320-97305-144), DU-6-NW-1.5-3 (320-97305-155), DU-6-NW-0-1.5 (320-97305-166), DU-5-X (320-97305-193) and (CCV 320-663409/32) ; DU-5-NE-1.5-3 (320-97305-45), DU-5-NE-0-1.5 (320-97305-56), DU-6-SW-1.5-3 (320-97305-111), DU-6-SW-0-1.5 (320-97305-122), DU-6-NW-0-1.5 (320-97305-166) and (CCV 320-664306/17), and DU-5-SE-1.5-3 (320-97305-12), DU-5-SW-1.5-3 (320-97305-23), SB-08-E-0-1.5 (320-97305-183), SB-08-E-1.5-3 (320-97305-184), SB-08-0-1.5 (320-97305-186) and (CCV 320-664305/2) This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

Method 1613B: The concentration of one or more analytes associated with the following samples exceeded the instrument calibration range: SB-08-1.5-3 (320-97305-187) and SB-08-1.5-3 (320-97305-187[MSJ]). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Method 1613B: The following samples were diluted due to the nature of the sample matrix: DU-5-NE-1.5-3 (320-97305-45), DU-5-NE-0-1.5 (320-97305-56), DU-6-SW-1.5-3 (320-97305-111), DU-6-SW-0-1.5 (320-97305-122), DU-6-NW-0-1.5 (320-97305-166) and SB-08-E-0-1.5 (320-97305-183). Elevated reporting limits (RLs) are provided.

Method 1613B: The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: SB-08-1.5-3 (320-97305-187[MSD]). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Case Narrative

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Job ID: 320-97305-1 (Continued)

Laboratory: Eurofins Sacramento (Continued)

Method 1613B: The ending resolution check indicated that the instrument was slightly less than 10,000 resolution. The samples were evaluated for high mass fragmentation breakthrough and non was found. There is no adverse impact on the data. The following samples are impacted.

DU-5-SE-0-1.5 (320-97305-1), DU-5-NW-0-1.5 (320-97305-67), DU-5-NW-1.5-3 (320-97305-78), DU-6-SE-0-1.5 (320-97305-100), DU-6-SW-1.5-3 (320-97305-111), DU-6-SW-0-1.5 (320-97305-122), DU-6-NE-0-1.5 (320-97305-133), DU-6-NW-1.5-3 (320-97305-155), DU-6-NW-0-1.5 (320-97305-166), DU-5-X (320-97305-193), (CCV 320-665271/2) and (WDM 320-665271/1)

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD associated with the following samples run on instrument DFS 1 exceeded this criteria: DU-5-SE-0-1.5 (320-97305-1), DU-5-SW-0-1.5 (320-97305-34), DU-6-SE-1.5-3 (320-97305-89), DU-6-NE-0-1.5 (320-97305-133), DU-6-NW-1.5-3 (320-97305-155), SB-08-W-0-1.5 (320-97305-181), DU-5-X (320-97305-193) and (CCV 320-665217/1). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD associated with the following samples run on instrument DFS 1 exceeded this criteria: DU-5-NW-0-1.5 (320-97305-67), DU-5-NW-1.5-3 (320-97305-78), DU-6-NE-1.5-3 (320-97305-144), (CCV 320-665539/2), (320-97305-A-1-G MS) and (320-97305-A-1-H MSD). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

Method 1613B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-661112 and 320-662426 and analytical batch 320-665539 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 1613B: Ion abundance ratios are outside criteria for the Isotope Dilution Analyte (IDA) associated with the following sample: (320-97305-A-1-G MS). The theoretical area for the IDA was used to quantitate recovery and target concentration.

Method 1613B: The following samples were diluted due to the nature of the sample matrix: : DU-5-SE-0-1.5 (320-97305-1), DU-5-NW-0-1.5 (320-97305-67), DU-5-NW-1.5-3 (320-97305-78) and DU-6-NE-1.5-3 (320-97305-144). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Dioxin Prep

Method 1613B: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: EB-20230223 (320-97305-185). Nominal volume required by method is 1 liter.

preparation batch 320-661244
Method: 1613B_Sox_Sep_P
Matrix: Water

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-SE-0-1.5

Lab Sample ID: 320-97305-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	2.5	J q	48	0.16	pg/g	10		1613B	Total/NA
Total PeCDD	2.5	J q	48	0.16	pg/g	10		1613B	Total/NA
1,2,3,4,7,8-HxCDD	5.2	J	48	0.49	pg/g	10		1613B	Total/NA
1,2,3,6,7,8-HxCDD	63		48	0.47	pg/g	10		1613B	Total/NA
1,2,3,7,8,9-HxCDD	12	J	48	0.44	pg/g	10		1613B	Total/NA
Total HxCDD	290		48	0.46	pg/g	10		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	610	B	48	2.6	pg/g	10		1613B	Total/NA
Total HpCDD	1100	B	48	2.6	pg/g	10		1613B	Total/NA
OCDD	4500	B	95	4.5	pg/g	10		1613B	Total/NA
Total TCDF	8.5	J q	9.5	0.047	pg/g	10		1613B	Total/NA
1,2,3,7,8-PeCDF	1.7	J	48	0.26	pg/g	10		1613B	Total/NA
2,3,4,7,8-PeCDF	2.0	J q	48	0.28	pg/g	10		1613B	Total/NA
Total PeCDF	23	J q	48	0.27	pg/g	10		1613B	Total/NA
1,2,3,4,7,8-HxCDF	4.8	J	48	0.61	pg/g	10		1613B	Total/NA
1,2,3,6,7,8-HxCDF	4.8	J	48	0.55	pg/g	10		1613B	Total/NA
2,3,4,6,7,8-HxCDF	4.0	J q	48	0.52	pg/g	10		1613B	Total/NA
Total HxCDF	140	q	48	0.55	pg/g	10		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	84	B	48	1.0	pg/g	10		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	4.6	J	48	1.3	pg/g	10		1613B	Total/NA
Total HpCDF	260	B	48	1.1	pg/g	10		1613B	Total/NA
OCDF	99	B	95	1.1	pg/g	10		1613B	Total/NA
2,3,7,8-TCDF - RA	2.4		0.95	0.24	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-SE-1.5-3

Lab Sample ID: 320-97305-12

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	88		0.98	0.39	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	3.7	J	4.9	0.76	pg/g	1		1613B	Total/NA
Total PeCDD	100		4.9	0.76	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	5.4		4.9	0.81	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	14		4.9	0.82	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	7.7		4.9	0.74	pg/g	1		1613B	Total/NA
Total HxCDD	290		4.9	0.79	pg/g	1		1613B	Total/NA
Total TCDF	35	q	0.98	0.23	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	3.6	J q	4.9	0.27	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	3.6	J	4.9	0.30	pg/g	1		1613B	Total/NA
Total PeCDF	24	q	4.9	0.28	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	4.9		4.9	0.54	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	3.0	J q	4.9	0.52	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	2.1	J q	4.9	0.43	pg/g	1		1613B	Total/NA
Total HxCDF	47	q	4.9	0.48	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD - DL	320	B	24	2.9	pg/g	5		1613B	Total/NA
Total HpCDD - DL	1600	B	24	2.9	pg/g	5		1613B	Total/NA
OCDD - DL	2500	B	49	2.9	pg/g	5		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF - DL	52	B	24	0.65	pg/g	5		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF - DL	3.7	J	24	0.60	pg/g	5		1613B	Total/NA
Total HpCDF - DL	210	B	24	0.62	pg/g	5		1613B	Total/NA
OCDF - DL	240	B	49	0.72	pg/g	5		1613B	Total/NA
2,3,7,8-TCDF - RA	5.5		0.98	0.15	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-SW-1.5-3

Lab Sample ID: 320-97305-23

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	14	q	0.97	0.11	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.74	J q	4.9	0.29	pg/g	1		1613B	Total/NA
Total PeCDD	16	q	4.9	0.29	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	1.3	J	4.9	0.21	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	5.9		4.9	0.20	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	3.1	J q	4.9	0.19	pg/g	1		1613B	Total/NA
Total HxCDD	88	q	4.9	0.20	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	170	B	4.9	1.2	pg/g	1		1613B	Total/NA
Total HpCDD	540	B	4.9	1.2	pg/g	1		1613B	Total/NA
Total TCDF	13		0.97	0.11	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	2.2	J	4.9	0.14	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.6	J	4.9	0.16	pg/g	1		1613B	Total/NA
Total PeCDF	8.8		4.9	0.15	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	4.2	J	4.9	0.21	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	3.6	J	4.9	0.19	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.89	J	4.9	0.16	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.39	J q	4.9	0.16	pg/g	1		1613B	Total/NA
Total HxCDF	35	q	4.9	0.18	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	30	B	4.9	0.42	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	3.8	J	4.9	0.41	pg/g	1		1613B	Total/NA
Total HpCDF	150	B	4.9	0.42	pg/g	1		1613B	Total/NA
OCDD - DL	3500	B	49	2.7	pg/g	5		1613B	Total/NA
OCDF - DL	180	B	49	0.30	pg/g	5		1613B	Total/NA
2,3,7,8-TCDF - RA	2.3		0.97	0.097	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-SW-0-1.5

Lab Sample ID: 320-97305-34

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,6,7,8-HxCDD	3.4	J	4.8	0.38	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	0.91	J	4.8	0.36	pg/g	1		1613B	Total/NA
Total HxCDD	18	q	4.8	0.39	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	50	B	4.8	0.60	pg/g	1		1613B	Total/NA
Total HpCDD	100	B	4.8	0.60	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF	0.40	J	0.96	0.11	pg/g	1		1613B	Total/NA
Total TCDF	0.40	J	0.96	0.11	pg/g	1		1613B	Total/NA
Total HxCDF	11	q	4.8	0.51	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	8.8	B	4.8	0.72	pg/g	1		1613B	Total/NA
Total HpCDF	26	B	4.8	0.65	pg/g	1		1613B	Total/NA
OCDD - DL	420	B	96	0.80	pg/g	10		1613B	Total/NA
OCDF - DL	15	J B	96	0.65	pg/g	10		1613B	Total/NA

Client Sample ID: DU-5-NE-1.5-3

Lab Sample ID: 320-97305-45

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	63		0.96	0.41	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	2.2	J	4.8	0.69	pg/g	1		1613B	Total/NA
Total PeCDD	64		4.8	0.69	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	5.5		4.8	0.73	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	18		4.8	0.75	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	8.2		4.8	0.68	pg/g	1		1613B	Total/NA
Total HxCDD	220	q	4.8	0.72	pg/g	1		1613B	Total/NA
Total TCDF	32	q	0.96	0.30	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-NE-1.5-3 (Continued)

Lab Sample ID: 320-97305-45

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDF	1.8	J	4.8	0.20	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.7	J	4.8	0.22	pg/g	1		1613B	Total/NA
Total PeCDF	16	q	4.8	0.21	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	3.8	J	4.8	0.56	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	2.1	J	4.8	0.55	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.6	J q	4.8	0.49	pg/g	1		1613B	Total/NA
Total HxCDF	46	q	4.8	0.52	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD - DL	430	B	24	4.3	pg/g	5		1613B	Total/NA
Total HpCDD - DL	1500	B	24	4.3	pg/g	5		1613B	Total/NA
OCDD - DL	3300	B	48	4.4	pg/g	5		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF - DL	51	B	24	0.65	pg/g	5		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF - DL	3.3	J	24	0.63	pg/g	5		1613B	Total/NA
Total HpCDF - DL	210	B	24	0.64	pg/g	5		1613B	Total/NA
OCDF - DL	230	B	48	0.53	pg/g	5		1613B	Total/NA
2,3,7,8-TCDF - RA	4.3		0.96	0.13	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-NE-0-1.5

Lab Sample ID: 320-97305-56

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	5.1	q	0.97	0.15	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	5.4		4.9	0.77	pg/g	1		1613B	Total/NA
Total PeCDD	13	q	4.9	0.77	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	6.7		4.9	0.39	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	76		4.9	0.30	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	22		4.9	0.31	pg/g	1		1613B	Total/NA
Total HxCDD	340		4.9	0.33	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	920	B	4.9	2.0	pg/g	1		1613B	Total/NA
Total HpCDD	1600	B	4.9	2.0	pg/g	1		1613B	Total/NA
Total TCDF	10		0.97	0.18	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	2.6	J	4.9	0.76	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	3.0	J	4.9	0.90	pg/g	1		1613B	Total/NA
Total PeCDF	36	q	4.9	0.83	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	8.9		4.9	1.3	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	8.8		4.9	1.1	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	9.3		4.9	1.2	pg/g	1		1613B	Total/NA
Total HxCDF	220		4.9	1.2	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	140	B	4.9	1.3	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	6.6		4.9	1.3	pg/g	1		1613B	Total/NA
Total HpCDF	390	B	4.9	1.3	pg/g	1		1613B	Total/NA
OCDD - DL	7100	B	49	5.5	pg/g	5		1613B	Total/NA
OCDF - DL	140	B	49	0.77	pg/g	5		1613B	Total/NA
2,3,7,8-TCDF - RA	3.4		0.97	0.30	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-NW-0-1.5

Lab Sample ID: 320-97305-67

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	12	q	0.95	0.12	pg/g	1		1613B	Total/NA
Total PeCDD	16		4.7	0.43	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	1.5	J q	4.7	0.19	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	10		4.7	0.19	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	4.2	J	4.7	0.17	pg/g	1		1613B	Total/NA
Total HxCDD	100	q	4.7	0.18	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-NW-0-1.5 (Continued)

Lab Sample ID: 320-97305-67

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	210	B	4.7	0.86	pg/g	1		1613B	Total/NA
Total HpCDD	760	B	4.7	0.86	pg/g	1		1613B	Total/NA
Total TCDF	10		0.95	0.14	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	1.9	J	4.7	0.29	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.4	J	4.7	0.34	pg/g	1		1613B	Total/NA
Total PeCDF	9.4	q	4.7	0.31	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	4.0	J	4.7	0.45	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	2.5	J	4.7	0.43	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.5	J	4.7	0.39	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.46	J q	4.7	0.42	pg/g	1		1613B	Total/NA
Total HxCDF	67	q	4.7	0.42	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	36	B	4.7	0.48	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	1.8	J	4.7	0.52	pg/g	1		1613B	Total/NA
Total HpCDF	130	B	4.7	0.50	pg/g	1		1613B	Total/NA
OCDD - DL	1700	B	95	3.0	pg/g	10		1613B	Total/NA
OCDF - DL	82	J B	95	0.78	pg/g	10		1613B	Total/NA
2,3,7,8-TCDF - RA	1.9		0.95	0.17	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-NW-1.5-3

Lab Sample ID: 320-97305-78

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	42		0.98	0.24	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	1.1	J q	4.9	0.53	pg/g	1		1613B	Total/NA
Total PeCDD	47	q	4.9	0.53	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	2.7	J q	4.9	1.0	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	14		4.9	1.0	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	4.8	J	4.9	0.95	pg/g	1		1613B	Total/NA
Total HxCDD	250	q	4.9	1.0	pg/g	1		1613B	Total/NA
Total TCDF	28	q	0.98	0.32	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	2.0	J q	4.9	0.21	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	2.2	J	4.9	0.23	pg/g	1		1613B	Total/NA
Total PeCDF	15	q	4.9	0.22	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	4.6	J	4.9	0.48	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	2.2	J	4.9	0.47	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.6	J	4.9	0.40	pg/g	1		1613B	Total/NA
Total HxCDF	59		4.9	0.44	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD - DL	520	B	49	6.3	pg/g	10		1613B	Total/NA
Total HpCDD - DL	2900	B	49	6.3	pg/g	10		1613B	Total/NA
OCDD - DL	5000	B	98	11	pg/g	10		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF - DL	80	B	49	1.1	pg/g	10		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF - DL	3.1	J q	49	1.0	pg/g	10		1613B	Total/NA
Total HpCDF - DL	360	B q	49	1.1	pg/g	10		1613B	Total/NA
OCDF - DL	440	B	98	2.0	pg/g	10		1613B	Total/NA
2,3,7,8-TCDF - RA	3.9		0.98	0.089	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-SE-1.5-3

Lab Sample ID: 320-97305-89

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	2.0		0.96	0.053	pg/g	1		1613B	Total/NA
Total PeCDD	3.5	J	4.8	0.12	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.60	J q	4.8	0.17	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	1.1	J q	4.8	0.18	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-SE-1.5-3 (Continued)

Lab Sample ID: 320-97305-89

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8,9-HxCDD	0.88	J q	4.8	0.16	pg/g	1		1613B	Total/NA
Total HxCDD	33	q	4.8	0.17	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	69	B	4.8	0.89	pg/g	1		1613B	Total/NA
Total HpCDD	410	B	4.8	0.89	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF	0.87	J	0.96	0.037	pg/g	1		1613B	Total/NA
Total TCDF	0.87	J	0.96	0.037	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	0.49	J	4.8	0.11	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.27	J	4.8	0.096	pg/g	1		1613B	Total/NA
Total HxCDF	3.8	J	4.8	0.094	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	5.6	B	4.8	0.24	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	0.46	J	4.8	0.24	pg/g	1		1613B	Total/NA
Total HpCDF	27	B	4.8	0.24	pg/g	1		1613B	Total/NA
OCDD - DL	460	B	96	4.5	pg/g	10		1613B	Total/NA
OCDF - DL	34	J B	96	2.5	pg/g	10		1613B	Total/NA

Client Sample ID: DU-6-SE-0-1.5

Lab Sample ID: 320-97305-100

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	7.6		0.97	0.060	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.49	J q	4.8	0.13	pg/g	1		1613B	Total/NA
Total PeCDD	8.8	q	4.8	0.13	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	1.1	J	4.8	0.28	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	5.2		4.8	0.29	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	2.6	J q	4.8	0.26	pg/g	1		1613B	Total/NA
Total HxCDD	75	q	4.8	0.28	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	190	B	4.8	1.1	pg/g	1		1613B	Total/NA
Total HpCDD	1100	B	4.8	1.1	pg/g	1		1613B	Total/NA
OCDD	1800	B	9.7	1.5	pg/g	1		1613B	Total/NA
Total TCDF	6.7	q	0.97	0.049	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.41	J	4.8	0.068	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.44	J	4.8	0.078	pg/g	1		1613B	Total/NA
Total PeCDF	4.1	J q	4.8	0.073	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.3	J	4.8	0.13	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.71	J q	4.8	0.13	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.29	J q	4.8	0.12	pg/g	1		1613B	Total/NA
Total HxCDF	22	q	4.8	0.13	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	29	B	4.8	0.29	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	2.5	J	4.8	0.40	pg/g	1		1613B	Total/NA
Total HpCDF	140	B	4.8	0.35	pg/g	1		1613B	Total/NA
OCDF	130	B	9.7	0.33	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	1.2		0.97	0.078	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-SW-1.5-3

Lab Sample ID: 320-97305-111

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	29	q	0.94	0.20	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	1.6	J	4.7	0.50	pg/g	1		1613B	Total/NA
Total PeCDD	37		4.7	0.50	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	3.2	J	4.7	0.27	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	9.8		4.7	0.27	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	3.7	J	4.7	0.24	pg/g	1		1613B	Total/NA
Total HxCDD	110		4.7	0.26	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-SW-1.5-3 (Continued)

Lab Sample ID: 320-97305-111

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	180	B	4.7	1.8	pg/g	1		1613B	Total/NA
Total HpCDD	670	B	4.7	1.8	pg/g	1		1613B	Total/NA
Total TCDF	13	q	0.94	0.094	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.88	J	4.7	0.13	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.90	J	4.7	0.14	pg/g	1		1613B	Total/NA
Total PeCDF	6.6	q	4.7	0.13	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	2.4	J	4.7	0.25	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.2	J q	4.7	0.24	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.0	J	4.7	0.21	pg/g	1		1613B	Total/NA
Total HxCDF	27	q	4.7	0.23	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	35	B	4.7	0.40	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	2.0	J	4.7	0.39	pg/g	1		1613B	Total/NA
Total HpCDF	110	B	4.7	0.40	pg/g	1		1613B	Total/NA
OCDD - DL	1700	B	47	2.6	pg/g	5		1613B	Total/NA
OCDF - DL	120	B	47	0.72	pg/g	5		1613B	Total/NA
2,3,7,8-TCDF - RA	2.0		0.94	0.067	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-SW-0-1.5

Lab Sample ID: 320-97305-122

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	7.4	q	0.98	0.14	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	3.7	J	4.9	0.60	pg/g	1		1613B	Total/NA
Total PeCDD	19	q	4.9	0.60	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	5.2		4.9	0.24	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	43		4.9	0.19	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	15		4.9	0.19	pg/g	1		1613B	Total/NA
Total HxCDD	240		4.9	0.21	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	520	B	4.9	1.5	pg/g	1		1613B	Total/NA
Total HpCDD	1300	B	4.9	1.5	pg/g	1		1613B	Total/NA
Total TCDF	8.6	q	0.98	0.16	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	1.5	J	4.9	0.57	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	2.1	J	4.9	0.63	pg/g	1		1613B	Total/NA
Total PeCDF	27	q	4.9	0.60	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	4.6	J q	4.9	0.98	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	4.4	J q	4.9	0.83	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	6.4		4.9	0.95	pg/g	1		1613B	Total/NA
Total HxCDF	150	q	4.9	0.94	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	120	B	4.9	1.2	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	5.9		4.9	1.0	pg/g	1		1613B	Total/NA
Total HpCDF	380	B	4.9	1.1	pg/g	1		1613B	Total/NA
OCDD - DL	3300	B	49	3.0	pg/g	5		1613B	Total/NA
OCDF - DL	230	B	49	0.77	pg/g	5		1613B	Total/NA
2,3,7,8-TCDF - RA	2.8		0.98	0.23	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-NE-0-1.5

Lab Sample ID: 320-97305-133

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	3.8	q	0.99	0.088	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.72	J	5.0	0.34	pg/g	1		1613B	Total/NA
Total PeCDD	4.8	J q	5.0	0.34	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	1.1	J	5.0	0.37	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	6.1		5.0	0.35	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Sacramento

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-NE-0-1.5 (Continued)

Lab Sample ID: 320-97305-133

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8,9-HxCDD	3.1	J	5.0	0.33	pg/g	1		1613B	Total/NA
Total HxCDD	52	q	5.0	0.35	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	110	B	5.0	0.86	pg/g	1		1613B	Total/NA
Total HpCDD	460	B	5.0	0.86	pg/g	1		1613B	Total/NA
Total TCDF	4.7	q	0.99	0.10	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.48	J	5.0	0.19	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.38	J q	5.0	0.20	pg/g	1		1613B	Total/NA
Total PeCDF	4.5	J q	5.0	0.20	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.6	J	5.0	0.43	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.8	J	5.0	0.38	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.91	J	5.0	0.39	pg/g	1		1613B	Total/NA
Total HxCDF	31		5.0	0.40	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	25	B	5.0	0.50	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	1.5	J q	5.0	0.66	pg/g	1		1613B	Total/NA
Total HpCDF	84	B q	5.0	0.58	pg/g	1		1613B	Total/NA
OCDD - DL	990	B	99	1.7	pg/g	10		1613B	Total/NA
OCDF - DL	68	J B	99	0.60	pg/g	10		1613B	Total/NA
2,3,7,8-TCDF - RA	1.0		0.99	0.14	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-NE-1.5-3

Lab Sample ID: 320-97305-144

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	6.7	q	0.99	0.086	pg/g	1		1613B	Total/NA
Total PeCDD	8.8	q	4.9	0.28	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	2.4	J	4.9	0.55	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	4.7	J	4.9	0.54	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	3.3	J	4.9	0.50	pg/g	1		1613B	Total/NA
Total HxCDD	130		4.9	0.53	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	310	B	4.9	2.5	pg/g	1		1613B	Total/NA
Total HpCDD	1900	B	4.9	2.5	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF	0.26	J	0.99	0.054	pg/g	1		1613B	Total/NA
Total TCDF	3.8		0.99	0.054	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.43	J q	4.9	0.093	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.36	J	4.9	0.099	pg/g	1		1613B	Total/NA
Total PeCDF	2.8	J q	4.9	0.096	pg/g	1		1613B	Total/NA
Total HxCDF	12	q	4.9	0.26	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	21	B	4.9	0.50	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	1.1	J	4.9	0.46	pg/g	1		1613B	Total/NA
Total HpCDF	110	B	4.9	0.48	pg/g	1		1613B	Total/NA
OCDD - DL	2100	B	99	6.4	pg/g	10		1613B	Total/NA
OCDF - DL	150	B	99	0.99	pg/g	10		1613B	Total/NA

Client Sample ID: DU-6-NW-1.5-3

Lab Sample ID: 320-97305-155

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	38	q	0.97	0.28	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	1.1	J q	4.8	0.56	pg/g	1		1613B	Total/NA
Total PeCDD	52	q	4.8	0.56	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	3.7	J	4.8	0.48	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	13		4.8	0.46	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	7.7		4.8	0.43	pg/g	1		1613B	Total/NA
Total HxCDD	190	q	4.8	0.46	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-NW-1.5-3 (Continued)

Lab Sample ID: 320-97305-155

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	230	B	4.8	2.1	pg/g	1		1613B	Total/NA
Total HpCDD	880	B	4.8	2.1	pg/g	1		1613B	Total/NA
Total TCDF	15		0.97	0.13	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.89	J	4.8	0.17	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.2	J	4.8	0.20	pg/g	1		1613B	Total/NA
Total PeCDF	8.5		4.8	0.19	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	2.6	J	4.8	0.20	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.4	J	4.8	0.20	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.3	J	4.8	0.17	pg/g	1		1613B	Total/NA
Total HxCDF	35	q	4.8	0.19	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	42	B	4.8	0.50	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	2.2	J	4.8	0.48	pg/g	1		1613B	Total/NA
Total HpCDF	150	B	4.8	0.49	pg/g	1		1613B	Total/NA
OCDD - DL	1900	B	97	4.3	pg/g	10		1613B	Total/NA
OCDF - DL	160	B	97	1.3	pg/g	10		1613B	Total/NA
2,3,7,8-TCDF - RA	2.1		0.97	0.082	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-NW-0-1.5

Lab Sample ID: 320-97305-166

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.90	J q	0.96	0.15	pg/g	1		1613B	Total/NA
Total TCDD	11	q	0.96	0.15	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	2.5	J q	4.8	0.80	pg/g	1		1613B	Total/NA
Total PeCDD	26	q	4.8	0.80	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	5.4		4.8	0.22	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	29		4.8	0.19	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	9.5		4.8	0.19	pg/g	1		1613B	Total/NA
Total HxCDD	200		4.8	0.20	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	420	B	4.8	1.6	pg/g	1		1613B	Total/NA
Total HpCDD	1200	B	4.8	1.6	pg/g	1		1613B	Total/NA
Total TCDF	9.1	q	0.96	0.15	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	1.0	J q	4.8	0.45	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.4	J	4.8	0.49	pg/g	1		1613B	Total/NA
Total PeCDF	18	q	4.8	0.47	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	4.2	J	4.8	0.92	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	4.6	J	4.8	0.76	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	4.2	J	4.8	0.88	pg/g	1		1613B	Total/NA
Total HxCDF	130		4.8	0.86	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	110	B	4.8	0.99	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	5.3		4.8	1.1	pg/g	1		1613B	Total/NA
Total HpCDF	400	B	4.8	1.1	pg/g	1		1613B	Total/NA
OCDD - DL	2800	B	48	2.5	pg/g	5		1613B	Total/NA
OCDF - DL	330	B	48	0.91	pg/g	5		1613B	Total/NA
2,3,7,8-TCDF - RA	2.0		0.96	0.38	pg/g	1		1613B	Total/NA

Client Sample ID: SB-08-N-0-1.5

Lab Sample ID: 320-97305-177

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF	0.078	J	0.98	0.0015	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.29	J	4.9	0.027	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	0.35	J q	4.9	0.027	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	0.28	J q	4.9	0.025	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-N-0-1.5 (Continued)

Lab Sample ID: 320-97305-177

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8,9-HxCDF	0.22	J B q	4.9	0.015	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	6.1	B	4.9	0.067	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	0.59	J B	4.9	0.019	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	0.25	J B	4.9	0.019	pg/g	1		1613B	Total/NA
OCDD	42	B	9.8	0.13	pg/g	1		1613B	Total/NA
OCDF	2.1	J B q	9.8	0.043	pg/g	1		1613B	Total/NA

Client Sample ID: SB-08-N-1.5-3

Lab Sample ID: 320-97305-178

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	0.16	J q	4.6	0.024	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	0.33	J q	4.6	0.022	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.062	J q B	4.6	0.012	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	9.8	B	4.6	0.085	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	0.54	J q B	4.6	0.023	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	0.068	J B	4.6	0.025	pg/g	1		1613B	Total/NA
OCDD	62	B	9.2	0.13	pg/g	1		1613B	Total/NA
OCDF	0.81	J q B	9.2	0.018	pg/g	1		1613B	Total/NA

Client Sample ID: SB-08-S-1-1.5

Lab Sample ID: 320-97305-179

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	2.3	J	4.8	0.48	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	1.5	J	4.8	0.20	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.5	J	4.8	0.24	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	5.4		4.8	0.39	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	17		4.8	0.37	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	7.2		4.8	0.34	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	3.5	J	4.8	0.26	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	2.4	J	4.8	0.26	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.27	J B	4.8	0.21	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	2.2	J	4.8	0.22	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	330	B	4.8	2.0	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	65	B	4.8	0.65	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	3.8	J B	4.8	0.55	pg/g	1		1613B	Total/NA
OCDD	2800	B	9.6	3.3	pg/g	1		1613B	Total/NA
OCDF	220	B	9.6	0.26	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	2.8		0.96	0.12	pg/g	1		1613B	Total/NA

Client Sample ID: SB-08-S-1.5-3

Lab Sample ID: 320-97305-180

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF	0.47	J	0.94	0.020	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.61	J	4.7	0.087	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.50	J	4.7	0.065	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.41	J	4.7	0.073	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.99	J q	4.7	0.095	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	11		4.7	0.096	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	2.4	J q	4.7	0.087	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.5	J	4.7	0.16	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.0	J	4.7	0.15	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.1	J	4.7	0.14	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-S-1.5-3 (Continued)

Lab Sample ID: 320-97305-180

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	150	B	4.7	0.32	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	34	B	4.7	0.23	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	1.4	J B	4.7	0.23	pg/g	1		1613B	Total/NA
OCDD	860	B	9.4	0.80	pg/g	1		1613B	Total/NA
OCDF	58	B	9.4	0.18	pg/g	1		1613B	Total/NA

Client Sample ID: SB-08-W-0-1.5

Lab Sample ID: 320-97305-181

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	4.9	B	4.8	0.21	pg/g	1		1613B	Total/NA
OCDD - DL	18	J B q	96	0.22	pg/g	10		1613B	Total/NA

Client Sample ID: SB-08-W-1.5-3

Lab Sample ID: 320-97305-182

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	1.1	J	4.8	0.21	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.83	J	4.8	0.17	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.82	J	4.8	0.19	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	2.5	J	4.8	0.27	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	13		4.8	0.27	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	5.3		4.8	0.24	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	2.4	J	4.8	0.30	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.6	J	4.8	0.28	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.4	J	4.8	0.26	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	300	B	4.8	0.76	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	79	B	4.8	0.52	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	3.3	J B	4.8	0.66	pg/g	1		1613B	Total/NA
OCDD	2000	B	9.6	1.8	pg/g	1		1613B	Total/NA
OCDF	300	B	9.6	0.46	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	0.79	J	0.96	0.11	pg/g	1		1613B	Total/NA

Client Sample ID: SB-08-E-0-1.5

Lab Sample ID: 320-97305-183

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.067	J q	0.94	0.028	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF	0.26	J	0.94	0.012	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.37	J	4.7	0.091	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	0.90	J q	4.7	0.087	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	0.47	J q	4.7	0.081	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	0.11	J q	4.7	0.090	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.22	J	4.7	0.086	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.12	J	4.7	0.068	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	12	B	4.7	0.17	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	3.3	J B	4.7	0.15	pg/g	1		1613B	Total/NA
OCDD - DL	84	B	47	0.56	pg/g	5		1613B	Total/NA
OCDF - DL	4.7	J B	47	0.42	pg/g	5		1613B	Total/NA

Client Sample ID: SB-08-E-1.5-3

Lab Sample ID: 320-97305-184

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD - DL	3.6	J B	24	0.24	pg/g	5		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF - DL	0.98	J B	24	0.19	pg/g	5		1613B	Total/NA
OCDD - DL	71	B	48	0.69	pg/g	5		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-E-1.5-3 (Continued)

Lab Sample ID: 320-97305-184

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
OCDF - DL	2.4	J B	48	0.32	pg/g	5		1613B	Total/NA

Client Sample ID: EB-20230223

Lab Sample ID: 320-97305-185

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	2.5	J B	59	0.39	pg/L	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	0.44	J B q	59	0.39	pg/L	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	6.6	J B	59	0.38	pg/L	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	2.9	J B q	59	0.44	pg/L	1		1613B	Total/NA
OCDD	50	J B	120	0.46	pg/L	1		1613B	Total/NA
OCDF	8.8	J B q	120	0.41	pg/L	1		1613B	Total/NA

Client Sample ID: SB-08-0-1.5

Lab Sample ID: 320-97305-186

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	1.7	J q	4.8	0.57	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	1.5	J	4.8	0.14	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.2	J	4.8	0.18	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	4.7	J	4.8	0.62	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	9.2		4.8	0.65	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	5.4	q	4.8	0.58	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	2.4	J	4.8	0.24	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.4	J	4.8	0.23	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.91	J q	4.8	0.19	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	190	B	4.8	1.7	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	28	B	4.8	0.56	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	1.6	J q B	4.8	0.55	pg/g	1		1613B	Total/NA
OCDD - DL	1300	B	48	2.1	pg/g	5		1613B	Total/NA
OCDF - DL	110	B	48	0.45	pg/g	5		1613B	Total/NA
2,3,7,8-TCDF - RA	2.9		0.97	0.15	pg/g	1		1613B	Total/NA

Client Sample ID: SB-08-1.5-3

Lab Sample ID: 320-97305-187

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.83	J q	0.99	0.075	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	2.6	J	4.9	0.31	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	2.4	J	4.9	0.36	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	6.1		4.9	0.53	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	44		4.9	0.51	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	15		4.9	0.47	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	6.4		4.9	0.55	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	5.2		4.9	0.53	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	4.3	J	4.9	0.46	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	660	B	4.9	1.7	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	95	B	4.9	0.77	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	4.6	J B	4.9	0.85	pg/g	1		1613B	Total/NA
OCDD	6300	E B	9.9	4.3	pg/g	1		1613B	Total/NA
OCDF	150	B	9.9	0.35	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	2.5		0.99	0.17	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corp.
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-X

Lab Sample ID: 320-97305-193

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.58	J	0.95	0.10	pg/g	1		1613B	Total/NA
Total TCDD	14		0.95	0.10	pg/g	1		1613B	Total/NA
Total PeCDD	17	q	4.8	0.50	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	1.2	J q	4.8	0.50	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	6.9		4.8	0.49	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	3.8	J	4.8	0.45	pg/g	1		1613B	Total/NA
Total HxCDD	92	q	4.8	0.48	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	180	B	4.8	1.6	pg/g	1		1613B	Total/NA
Total HpCDD	560	B	4.8	1.6	pg/g	1		1613B	Total/NA
Total TCDF	14	q	0.95	0.14	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	1.8	J	4.8	0.20	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.2	J	4.8	0.23	pg/g	1		1613B	Total/NA
Total PeCDF	8.8	q	4.8	0.21	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	4.0	J	4.8	0.42	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	3.5	J	4.8	0.39	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.0	J q	4.8	0.35	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.43	J q	4.8	0.34	pg/g	1		1613B	Total/NA
Total HxCDF	44	q	4.8	0.38	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	35	B	4.8	0.61	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	3.7	J	4.8	0.61	pg/g	1		1613B	Total/NA
Total HpCDF	150	B	4.8	0.61	pg/g	1		1613B	Total/NA
OCDD - DL	3000	B	95	3.2	pg/g	10		1613B	Total/NA
OCDF - DL	150	B	95	0.49	pg/g	10		1613B	Total/NA
2,3,7,8-TCDF - RA	2.4		0.95	0.090	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-SE-0-1.5

Lab Sample ID: 320-97305-1

Date Collected: 02/21/23 16:30

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.5	0.25	pg/g		03/21/23 14:51	04/03/23 22:03	10
Total TCDD	ND		9.5	2.4	pg/g		03/21/23 14:51	04/03/23 22:03	10
1,2,3,7,8-PeCDD	2.5	J q	48	0.16	pg/g		03/21/23 14:51	04/03/23 22:03	10
Total PeCDD	2.5	J q	48	0.16	pg/g		03/21/23 14:51	04/03/23 22:03	10
1,2,3,4,7,8-HxCDD	5.2	J	48	0.49	pg/g		03/21/23 14:51	04/03/23 22:03	10
1,2,3,6,7,8-HxCDD	63		48	0.47	pg/g		03/21/23 14:51	04/03/23 22:03	10
1,2,3,7,8,9-HxCDD	12	J	48	0.44	pg/g		03/21/23 14:51	04/03/23 22:03	10
Total HxCDD	290		48	0.46	pg/g		03/21/23 14:51	04/03/23 22:03	10
1,2,3,4,6,7,8-HpCDD	610	B	48	2.6	pg/g		03/21/23 14:51	04/03/23 22:03	10
Total HpCDD	1100	B	48	2.6	pg/g		03/21/23 14:51	04/03/23 22:03	10
OCDD	4500	B	95	4.5	pg/g		03/21/23 14:51	04/03/23 22:03	10
Total TCDF	8.5	J q	9.5	0.047	pg/g		03/21/23 14:51	04/03/23 22:03	10
1,2,3,7,8-PeCDF	1.7	J	48	0.26	pg/g		03/21/23 14:51	04/03/23 22:03	10
2,3,4,7,8-PeCDF	2.0	J q	48	0.28	pg/g		03/21/23 14:51	04/03/23 22:03	10
Total PeCDF	23	J q	48	0.27	pg/g		03/21/23 14:51	04/03/23 22:03	10
1,2,3,4,7,8-HxCDF	4.8	J	48	0.61	pg/g		03/21/23 14:51	04/03/23 22:03	10
1,2,3,6,7,8-HxCDF	4.8	J	48	0.55	pg/g		03/21/23 14:51	04/03/23 22:03	10
2,3,4,6,7,8-HxCDF	4.0	J q	48	0.52	pg/g		03/21/23 14:51	04/03/23 22:03	10
1,2,3,7,8,9-HxCDF	ND		48	0.51	pg/g		03/21/23 14:51	04/03/23 22:03	10
Total HxCDF	140	q	48	0.55	pg/g		03/21/23 14:51	04/03/23 22:03	10
1,2,3,4,6,7,8-HpCDF	84	B	48	1.0	pg/g		03/21/23 14:51	04/03/23 22:03	10
1,2,3,4,7,8,9-HpCDF	4.6	J	48	1.3	pg/g		03/21/23 14:51	04/03/23 22:03	10
Total HpCDF	260	B	48	1.1	pg/g		03/21/23 14:51	04/03/23 22:03	10
OCDF	99	B	95	1.1	pg/g		03/21/23 14:51	04/03/23 22:03	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	77		25 - 164	03/21/23 14:51	04/03/23 22:03	10
13C-1,2,3,7,8-PeCDD	86		25 - 181	03/21/23 14:51	04/03/23 22:03	10
13C-1,2,3,4,7,8-HxCDD	71		32 - 141	03/21/23 14:51	04/03/23 22:03	10
13C-1,2,3,6,7,8-HxCDD	67		28 - 130	03/21/23 14:51	04/03/23 22:03	10
13C-1,2,3,4,6,7,8-HpCDD	73		23 - 140	03/21/23 14:51	04/03/23 22:03	10
13C-OCDD	69		17 - 157	03/21/23 14:51	04/03/23 22:03	10
13C-2,3,7,8-TCDF	78		24 - 169	03/21/23 14:51	04/03/23 22:03	10
13C-1,2,3,7,8-PeCDF	81		24 - 185	03/21/23 14:51	04/03/23 22:03	10
13C-2,3,4,7,8-PeCDF	76		21 - 178	03/21/23 14:51	04/03/23 22:03	10
13C-1,2,3,4,7,8-HxCDF	65		26 - 152	03/21/23 14:51	04/03/23 22:03	10
13C-1,2,3,6,7,8-HxCDF	65		26 - 123	03/21/23 14:51	04/03/23 22:03	10
13C-2,3,4,6,7,8-HxCDF	73		28 - 136	03/21/23 14:51	04/03/23 22:03	10
13C-1,2,3,7,8,9-HxCDF	73		29 - 147	03/21/23 14:51	04/03/23 22:03	10
13C-1,2,3,4,6,7,8-HpCDF	57		28 - 143	03/21/23 14:51	04/03/23 22:03	10
13C-1,2,3,4,7,8,9-HpCDF	44		26 - 138	03/21/23 14:51	04/03/23 22:03	10
13C-OCDF	67		17 - 157	03/21/23 14:51	04/03/23 22:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	100		35 - 197	03/21/23 14:51	04/03/23 22:03	10

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.4		0.95	0.24	pg/g		03/21/23 14:51	04/03/23 18:03	1

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-SE-0-1.5

Lab Sample ID: 320-97305-1

Date Collected: 02/21/23 16:30

Matrix: Solid

Date Received: 03/02/23 09:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	74		24 - 169	03/21/23 14:51	04/03/23 18:03	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	87		35 - 197	03/21/23 14:51	04/03/23 18:03	1

Client Sample ID: DU-5-SE-1.5-3

Lab Sample ID: 320-97305-12

Date Collected: 02/21/23 16:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.98	0.39	pg/g		03/21/23 14:51	03/26/23 07:48	1
Total TCDD	88		0.98	0.39	pg/g		03/21/23 14:51	03/26/23 07:48	1
1,2,3,7,8-PeCDD	3.7	J	4.9	0.76	pg/g		03/21/23 14:51	03/26/23 07:48	1
Total PeCDD	100		4.9	0.76	pg/g		03/21/23 14:51	03/26/23 07:48	1
1,2,3,4,7,8-HxCDD	5.4		4.9	0.81	pg/g		03/21/23 14:51	03/26/23 07:48	1
1,2,3,6,7,8-HxCDD	14		4.9	0.82	pg/g		03/21/23 14:51	03/26/23 07:48	1
1,2,3,7,8,9-HxCDD	7.7		4.9	0.74	pg/g		03/21/23 14:51	03/26/23 07:48	1
Total HxCDD	290		4.9	0.79	pg/g		03/21/23 14:51	03/26/23 07:48	1
Total TCDF	35	q	0.98	0.23	pg/g		03/21/23 14:51	03/26/23 07:48	1
1,2,3,7,8-PeCDF	3.6	J q	4.9	0.27	pg/g		03/21/23 14:51	03/26/23 07:48	1
2,3,4,7,8-PeCDF	3.6	J	4.9	0.30	pg/g		03/21/23 14:51	03/26/23 07:48	1
Total PeCDF	24	q	4.9	0.28	pg/g		03/21/23 14:51	03/26/23 07:48	1
1,2,3,4,7,8-HxCDF	4.9		4.9	0.54	pg/g		03/21/23 14:51	03/26/23 07:48	1
1,2,3,6,7,8-HxCDF	3.0	J q	4.9	0.52	pg/g		03/21/23 14:51	03/26/23 07:48	1
2,3,4,6,7,8-HxCDF	2.1	J q	4.9	0.43	pg/g		03/21/23 14:51	03/26/23 07:48	1
1,2,3,7,8,9-HxCDF	ND		4.9	0.44	pg/g		03/21/23 14:51	03/26/23 07:48	1
Total HxCDF	47	q	4.9	0.48	pg/g		03/21/23 14:51	03/26/23 07:48	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDD	69		25 - 164	03/21/23 14:51	03/26/23 07:48	1			
13C-1,2,3,7,8-PeCDD	72		25 - 181	03/21/23 14:51	03/26/23 07:48	1			
13C-1,2,3,4,7,8-HxCDD	58		32 - 141	03/21/23 14:51	03/26/23 07:48	1			
13C-1,2,3,6,7,8-HxCDD	58		28 - 130	03/21/23 14:51	03/26/23 07:48	1			
13C-2,3,7,8-TCDF	59		24 - 169	03/21/23 14:51	03/26/23 07:48	1			
13C-1,2,3,7,8-PeCDF	60		24 - 185	03/21/23 14:51	03/26/23 07:48	1			
13C-2,3,4,7,8-PeCDF	60		21 - 178	03/21/23 14:51	03/26/23 07:48	1			
13C-1,2,3,4,7,8-HxCDF	50		26 - 152	03/21/23 14:51	03/26/23 07:48	1			
13C-1,2,3,6,7,8-HxCDF	54		26 - 123	03/21/23 14:51	03/26/23 07:48	1			
13C-2,3,4,6,7,8-HxCDF	58		28 - 136	03/21/23 14:51	03/26/23 07:48	1			
13C-1,2,3,7,8,9-HxCDF	59		29 - 147	03/21/23 14:51	03/26/23 07:48	1			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	96		35 - 197	03/21/23 14:51	03/26/23 07:48	1			

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	320	B	24	2.9	pg/g		03/21/23 14:51	03/30/23 01:06	5
Total HpCDD	1600	B	24	2.9	pg/g		03/21/23 14:51	03/30/23 01:06	5
OCDD	2500	B	49	2.9	pg/g		03/21/23 14:51	03/30/23 01:06	5
1,2,3,4,6,7,8-HpCDF	52	B	24	0.65	pg/g		03/21/23 14:51	03/30/23 01:06	5
1,2,3,4,7,8,9-HpCDF	3.7	J	24	0.60	pg/g		03/21/23 14:51	03/30/23 01:06	5

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-SE-1.5-3

Lab Sample ID: 320-97305-12

Date Collected: 02/21/23 16:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total HpCDF	210	B	24	0.62	pg/g		03/21/23 14:51	03/30/23 01:06	5
OCDF	240	B	49	0.72	pg/g		03/21/23 14:51	03/30/23 01:06	5
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C-1,2,3,4,6,7,8-HpCDD	74		23 - 140				03/21/23 14:51	03/30/23 01:06	5
13C-OCDD	68		17 - 157				03/21/23 14:51	03/30/23 01:06	5
13C-1,2,3,4,6,7,8-HpCDF	55		28 - 143				03/21/23 14:51	03/30/23 01:06	5
13C-1,2,3,4,7,8,9-HpCDF	70		26 - 138				03/21/23 14:51	03/30/23 01:06	5
13C-OCDF	67		17 - 157				03/21/23 14:51	03/30/23 01:06	5
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
37Cl4-2,3,7,8-TCDD	99		35 - 197				03/21/23 14:51	03/30/23 01:06	5

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	5.5		0.98	0.15	pg/g		03/21/23 14:51	03/31/23 21:16	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C-2,3,7,8-TCDF	65		24 - 169				03/21/23 14:51	03/31/23 21:16	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
37Cl4-2,3,7,8-TCDD	96		35 - 197				03/21/23 14:51	03/31/23 21:16	1

Client Sample ID: DU-5-SW-1.5-3

Lab Sample ID: 320-97305-23

Date Collected: 02/21/23 13:30

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.97	0.11	pg/g		03/21/23 14:51	03/26/23 08:36	1
Total TCDD	14	q	0.97	0.11	pg/g		03/21/23 14:51	03/26/23 08:36	1
1,2,3,7,8-PeCDD	0.74	J q	4.9	0.29	pg/g		03/21/23 14:51	03/26/23 08:36	1
Total PeCDD	16	q	4.9	0.29	pg/g		03/21/23 14:51	03/26/23 08:36	1
1,2,3,4,7,8-HxCDD	1.3	J	4.9	0.21	pg/g		03/21/23 14:51	03/26/23 08:36	1
1,2,3,6,7,8-HxCDD	5.9		4.9	0.20	pg/g		03/21/23 14:51	03/26/23 08:36	1
1,2,3,7,8,9-HxCDD	3.1	J q	4.9	0.19	pg/g		03/21/23 14:51	03/26/23 08:36	1
Total HxCDD	88	q	4.9	0.20	pg/g		03/21/23 14:51	03/26/23 08:36	1
1,2,3,4,6,7,8-HpCDD	170	B	4.9	1.2	pg/g		03/21/23 14:51	03/26/23 08:36	1
Total HpCDD	540	B	4.9	1.2	pg/g		03/21/23 14:51	03/26/23 08:36	1
Total TCDF	13		0.97	0.11	pg/g		03/21/23 14:51	03/26/23 08:36	1
1,2,3,7,8-PeCDF	2.2	J	4.9	0.14	pg/g		03/21/23 14:51	03/26/23 08:36	1
2,3,4,7,8-PeCDF	1.6	J	4.9	0.16	pg/g		03/21/23 14:51	03/26/23 08:36	1
Total PeCDF	8.8		4.9	0.15	pg/g		03/21/23 14:51	03/26/23 08:36	1
1,2,3,4,7,8-HxCDF	4.2	J	4.9	0.21	pg/g		03/21/23 14:51	03/26/23 08:36	1
1,2,3,6,7,8-HxCDF	3.6	J	4.9	0.19	pg/g		03/21/23 14:51	03/26/23 08:36	1
2,3,4,6,7,8-HxCDF	0.89	J	4.9	0.16	pg/g		03/21/23 14:51	03/26/23 08:36	1
1,2,3,7,8,9-HxCDF	0.39	J q	4.9	0.16	pg/g		03/21/23 14:51	03/26/23 08:36	1
Total HxCDF	35	q	4.9	0.18	pg/g		03/21/23 14:51	03/26/23 08:36	1
1,2,3,4,6,7,8-HpCDF	30	B	4.9	0.42	pg/g		03/21/23 14:51	03/26/23 08:36	1
1,2,3,4,7,8,9-HpCDF	3.8	J	4.9	0.41	pg/g		03/21/23 14:51	03/26/23 08:36	1
Total HpCDF	150	B	4.9	0.42	pg/g		03/21/23 14:51	03/26/23 08:36	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-SW-1.5-3

Lab Sample ID: 320-97305-23

Date Collected: 02/21/23 13:30

Matrix: Solid

Date Received: 03/02/23 09:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	74		25 - 164	03/21/23 14:51	03/26/23 08:36	1
13C-1,2,3,7,8-PeCDD	77		25 - 181	03/21/23 14:51	03/26/23 08:36	1
13C-1,2,3,4,7,8-HxCDD	62		32 - 141	03/21/23 14:51	03/26/23 08:36	1
13C-1,2,3,6,7,8-HxCDD	66		28 - 130	03/21/23 14:51	03/26/23 08:36	1
13C-1,2,3,4,6,7,8-HpCDD	61		23 - 140	03/21/23 14:51	03/26/23 08:36	1
13C-2,3,7,8-TCDF	61		24 - 169	03/21/23 14:51	03/26/23 08:36	1
13C-1,2,3,7,8-PeCDF	65		24 - 185	03/21/23 14:51	03/26/23 08:36	1
13C-2,3,4,7,8-PeCDF	62		21 - 178	03/21/23 14:51	03/26/23 08:36	1
13C-1,2,3,4,7,8-HxCDF	54		26 - 152	03/21/23 14:51	03/26/23 08:36	1
13C-1,2,3,6,7,8-HxCDF	58		26 - 123	03/21/23 14:51	03/26/23 08:36	1
13C-2,3,4,6,7,8-HxCDF	63		28 - 136	03/21/23 14:51	03/26/23 08:36	1
13C-1,2,3,7,8,9-HxCDF	64		29 - 147	03/21/23 14:51	03/26/23 08:36	1
13C-1,2,3,4,6,7,8-HpCDF	46		28 - 143	03/21/23 14:51	03/26/23 08:36	1
13C-1,2,3,4,7,8,9-HpCDF	53		26 - 138	03/21/23 14:51	03/26/23 08:36	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	94		35 - 197	03/21/23 14:51	03/26/23 08:36	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	3500	B	49	2.7	pg/g		03/21/23 14:51	03/30/23 01:54	5
OCDF	180	B	49	0.30	pg/g		03/21/23 14:51	03/30/23 01:54	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-OCDD	65		17 - 157	03/21/23 14:51	03/30/23 01:54	5			
13C-OCDF	61		17 - 157	03/21/23 14:51	03/30/23 01:54	5			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	101		35 - 197	03/21/23 14:51	03/30/23 01:54	5			

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.3		0.97	0.097	pg/g		03/21/23 14:51	03/31/23 21:59	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDF	73		24 - 169	03/21/23 14:51	03/31/23 21:59	1			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	94		35 - 197	03/21/23 14:51	03/31/23 21:59	1			

Client Sample ID: DU-5-SW-0-1.5

Lab Sample ID: 320-97305-34

Date Collected: 02/21/23 13:20

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.96	0.11	pg/g		03/21/23 14:51	03/26/23 09:25	1
Total TCDD	ND		0.96	0.27	pg/g		03/21/23 14:51	03/26/23 09:25	1
1,2,3,7,8-PeCDD	ND		4.8	0.32	pg/g		03/21/23 14:51	03/26/23 09:25	1
Total PeCDD	ND		4.8	0.32	pg/g		03/21/23 14:51	03/26/23 09:25	1
1,2,3,4,7,8-HxCDD	ND		4.8	0.42	pg/g		03/21/23 14:51	03/26/23 09:25	1
1,2,3,6,7,8-HxCDD	3.4	J	4.8	0.38	pg/g		03/21/23 14:51	03/26/23 09:25	1
1,2,3,7,8,9-HxCDD	0.91	J	4.8	0.36	pg/g		03/21/23 14:51	03/26/23 09:25	1
Total HxCDD	18	q	4.8	0.39	pg/g		03/21/23 14:51	03/26/23 09:25	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-SW-0-1.5

Lab Sample ID: 320-97305-34

Date Collected: 02/21/23 13:20

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	50	B	4.8	0.60	pg/g		03/21/23 14:51	03/26/23 09:25	1
Total HpCDD	100	B	4.8	0.60	pg/g		03/21/23 14:51	03/26/23 09:25	1
2,3,7,8-TCDF	0.40	J	0.96	0.11	pg/g		03/21/23 14:51	03/26/23 09:25	1
Total TCDF	0.40	J	0.96	0.11	pg/g		03/21/23 14:51	03/26/23 09:25	1
1,2,3,7,8-PeCDF	ND		4.8	0.27	pg/g		03/21/23 14:51	03/26/23 09:25	1
2,3,4,7,8-PeCDF	ND		4.8	0.30	pg/g		03/21/23 14:51	03/26/23 09:25	1
Total PeCDF	ND		4.8	0.44	pg/g		03/21/23 14:51	03/26/23 09:25	1
1,2,3,4,7,8-HxCDF	ND		4.8	0.54	pg/g		03/21/23 14:51	03/26/23 09:25	1
1,2,3,6,7,8-HxCDF	ND		4.8	0.46	pg/g		03/21/23 14:51	03/26/23 09:25	1
2,3,4,6,7,8-HxCDF	ND		4.8	0.48	pg/g		03/21/23 14:51	03/26/23 09:25	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.55	pg/g		03/21/23 14:51	03/26/23 09:25	1
Total HxCDF	11	q	4.8	0.51	pg/g		03/21/23 14:51	03/26/23 09:25	1
1,2,3,4,6,7,8-HpCDF	8.8	B	4.8	0.72	pg/g		03/21/23 14:51	03/26/23 09:25	1
1,2,3,4,7,8,9-HpCDF	ND		4.8	0.58	pg/g		03/21/23 14:51	03/26/23 09:25	1
Total HpCDF	26	B	4.8	0.65	pg/g		03/21/23 14:51	03/26/23 09:25	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	73		25 - 164				03/21/23 14:51	03/26/23 09:25	1
13C-1,2,3,7,8-PeCDD	68		25 - 181				03/21/23 14:51	03/26/23 09:25	1
13C-1,2,3,4,7,8-HxCDD	59		32 - 141				03/21/23 14:51	03/26/23 09:25	1
13C-1,2,3,6,7,8-HxCDD	77		28 - 130				03/21/23 14:51	03/26/23 09:25	1
13C-1,2,3,4,6,7,8-HpCDD	43		23 - 140				03/21/23 14:51	03/26/23 09:25	1
13C-2,3,7,8-TCDF	57		24 - 169				03/21/23 14:51	03/26/23 09:25	1
13C-1,2,3,7,8-PeCDF	61		24 - 185				03/21/23 14:51	03/26/23 09:25	1
13C-2,3,4,7,8-PeCDF	58		21 - 178				03/21/23 14:51	03/26/23 09:25	1
13C-1,2,3,4,7,8-HxCDF	58		26 - 152				03/21/23 14:51	03/26/23 09:25	1
13C-1,2,3,6,7,8-HxCDF	79		26 - 123				03/21/23 14:51	03/26/23 09:25	1
13C-2,3,4,6,7,8-HxCDF	72		28 - 136				03/21/23 14:51	03/26/23 09:25	1
13C-1,2,3,7,8,9-HxCDF	62		29 - 147				03/21/23 14:51	03/26/23 09:25	1
13C-1,2,3,4,6,7,8-HpCDF	32		28 - 143				03/21/23 14:51	03/26/23 09:25	1
13C-1,2,3,4,7,8,9-HpCDF	35		26 - 138				03/21/23 14:51	03/26/23 09:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	96		35 - 197				03/21/23 14:51	03/26/23 09:25	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	420	B	96	0.80	pg/g		03/21/23 14:51	04/03/23 15:38	10
OCDF	15	J B	96	0.65	pg/g		03/21/23 14:51	04/03/23 15:38	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-OCDD	58		17 - 157				03/21/23 14:51	04/03/23 15:38	10
13C-OCDF	58		17 - 157				03/21/23 14:51	04/03/23 15:38	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	94		35 - 197				03/21/23 14:51	04/03/23 15:38	10

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-NE-1.5-3

Lab Sample ID: 320-97305-45

Date Collected: 02/22/23 10:30

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.96	0.41	pg/g		03/21/23 14:51	03/26/23 10:13	1
Total TCDD	63		0.96	0.41	pg/g		03/21/23 14:51	03/26/23 10:13	1
1,2,3,7,8-PeCDD	2.2	J	4.8	0.69	pg/g		03/21/23 14:51	03/26/23 10:13	1
Total PeCDD	64		4.8	0.69	pg/g		03/21/23 14:51	03/26/23 10:13	1
1,2,3,4,7,8-HxCDD	5.5		4.8	0.73	pg/g		03/21/23 14:51	03/26/23 10:13	1
1,2,3,6,7,8-HxCDD	18		4.8	0.75	pg/g		03/21/23 14:51	03/26/23 10:13	1
1,2,3,7,8,9-HxCDD	8.2		4.8	0.68	pg/g		03/21/23 14:51	03/26/23 10:13	1
Total HxCDD	220	q	4.8	0.72	pg/g		03/21/23 14:51	03/26/23 10:13	1
Total TCDF	32	q	0.96	0.30	pg/g		03/21/23 14:51	03/26/23 10:13	1
1,2,3,7,8-PeCDF	1.8	J	4.8	0.20	pg/g		03/21/23 14:51	03/26/23 10:13	1
2,3,4,7,8-PeCDF	1.7	J	4.8	0.22	pg/g		03/21/23 14:51	03/26/23 10:13	1
Total PeCDF	16	q	4.8	0.21	pg/g		03/21/23 14:51	03/26/23 10:13	1
1,2,3,4,7,8-HxCDF	3.8	J	4.8	0.56	pg/g		03/21/23 14:51	03/26/23 10:13	1
1,2,3,6,7,8-HxCDF	2.1	J	4.8	0.55	pg/g		03/21/23 14:51	03/26/23 10:13	1
2,3,4,6,7,8-HxCDF	1.6	J q	4.8	0.49	pg/g		03/21/23 14:51	03/26/23 10:13	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.49	pg/g		03/21/23 14:51	03/26/23 10:13	1
Total HxCDF	46	q	4.8	0.52	pg/g		03/21/23 14:51	03/26/23 10:13	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	70		25 - 164				03/21/23 14:51	03/26/23 10:13	1
13C-1,2,3,7,8-PeCDD	74		25 - 181				03/21/23 14:51	03/26/23 10:13	1
13C-1,2,3,4,7,8-HxCDD	60		32 - 141				03/21/23 14:51	03/26/23 10:13	1
13C-1,2,3,6,7,8-HxCDD	65		28 - 130				03/21/23 14:51	03/26/23 10:13	1
13C-2,3,7,8-TCDF	56		24 - 169				03/21/23 14:51	03/26/23 10:13	1
13C-1,2,3,7,8-PeCDF	61		24 - 185				03/21/23 14:51	03/26/23 10:13	1
13C-2,3,4,7,8-PeCDF	61		21 - 178				03/21/23 14:51	03/26/23 10:13	1
13C-1,2,3,4,7,8-HxCDF	53		26 - 152				03/21/23 14:51	03/26/23 10:13	1
13C-1,2,3,6,7,8-HxCDF	57		26 - 123				03/21/23 14:51	03/26/23 10:13	1
13C-2,3,4,6,7,8-HxCDF	60		28 - 136				03/21/23 14:51	03/26/23 10:13	1
13C-1,2,3,7,8,9-HxCDF	59		29 - 147				03/21/23 14:51	03/26/23 10:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	94		35 - 197				03/21/23 14:51	03/26/23 10:13	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	430	B	24	4.3	pg/g		03/21/23 14:51	03/30/23 09:25	5
Total HpCDD	1500	B	24	4.3	pg/g		03/21/23 14:51	03/30/23 09:25	5
OCDD	3300	B	48	4.4	pg/g		03/21/23 14:51	03/30/23 09:25	5
1,2,3,4,6,7,8-HpCDF	51	B	24	0.65	pg/g		03/21/23 14:51	03/30/23 09:25	5
1,2,3,4,7,8,9-HpCDF	3.3	J	24	0.63	pg/g		03/21/23 14:51	03/30/23 09:25	5
Total HpCDF	210	B	24	0.64	pg/g		03/21/23 14:51	03/30/23 09:25	5
OCDF	230	B	48	0.53	pg/g		03/21/23 14:51	03/30/23 09:25	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDD	66		23 - 140				03/21/23 14:51	03/30/23 09:25	5
13C-OCDD	63		17 - 157				03/21/23 14:51	03/30/23 09:25	5
13C-1,2,3,4,6,7,8-HpCDF	54		28 - 143				03/21/23 14:51	03/30/23 09:25	5
13C-1,2,3,4,7,8,9-HpCDF	63		26 - 138				03/21/23 14:51	03/30/23 09:25	5
13C-OCDF	63		17 - 157				03/21/23 14:51	03/30/23 09:25	5

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-NE-1.5-3

Lab Sample ID: 320-97305-45

Date Collected: 02/22/23 10:30

Matrix: Solid

Date Received: 03/02/23 09:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	97		35 - 197	03/21/23 14:51	03/30/23 09:25	5			
Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA									
Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	4.3		0.96	0.13	pg/g		03/21/23 14:51	03/31/23 22:43	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDF	69		24 - 169	03/21/23 14:51	03/31/23 22:43	1			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	98		35 - 197	03/21/23 14:51	03/31/23 22:43	1			

Client Sample ID: DU-5-NE-0-1.5

Lab Sample ID: 320-97305-56

Date Collected: 02/22/23 10:20

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)									
Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.97	0.15	pg/g		03/21/23 14:51	03/26/23 11:01	1
Total TCDD	5.1	q	0.97	0.15	pg/g		03/21/23 14:51	03/26/23 11:01	1
1,2,3,7,8-PeCDD	5.4		4.9	0.77	pg/g		03/21/23 14:51	03/26/23 11:01	1
Total PeCDD	13	q	4.9	0.77	pg/g		03/21/23 14:51	03/26/23 11:01	1
1,2,3,4,7,8-HxCDD	6.7		4.9	0.39	pg/g		03/21/23 14:51	03/26/23 11:01	1
1,2,3,6,7,8-HxCDD	76		4.9	0.30	pg/g		03/21/23 14:51	03/26/23 11:01	1
1,2,3,7,8,9-HxCDD	22		4.9	0.31	pg/g		03/21/23 14:51	03/26/23 11:01	1
Total HxCDD	340		4.9	0.33	pg/g		03/21/23 14:51	03/26/23 11:01	1
1,2,3,4,6,7,8-HpCDD	920	B	4.9	2.0	pg/g		03/21/23 14:51	03/26/23 11:01	1
Total HpCDD	1600	B	4.9	2.0	pg/g		03/21/23 14:51	03/26/23 11:01	1
Total TCDF	10		0.97	0.18	pg/g		03/21/23 14:51	03/26/23 11:01	1
1,2,3,7,8-PeCDF	2.6	J	4.9	0.76	pg/g		03/21/23 14:51	03/26/23 11:01	1
2,3,4,7,8-PeCDF	3.0	J	4.9	0.90	pg/g		03/21/23 14:51	03/26/23 11:01	1
Total PeCDF	36	q	4.9	0.83	pg/g		03/21/23 14:51	03/26/23 11:01	1
1,2,3,4,7,8-HxCDF	8.9		4.9	1.3	pg/g		03/21/23 14:51	03/26/23 11:01	1
1,2,3,6,7,8-HxCDF	8.8		4.9	1.1	pg/g		03/21/23 14:51	03/26/23 11:01	1
2,3,4,6,7,8-HxCDF	9.3		4.9	1.2	pg/g		03/21/23 14:51	03/26/23 11:01	1
1,2,3,7,8,9-HxCDF	ND		4.9	1.2	pg/g		03/21/23 14:51	03/26/23 11:01	1
Total HxCDF	220		4.9	1.2	pg/g		03/21/23 14:51	03/26/23 11:01	1
1,2,3,4,6,7,8-HpCDF	140	B	4.9	1.3	pg/g		03/21/23 14:51	03/26/23 11:01	1
1,2,3,4,7,8,9-HpCDF	6.6		4.9	1.3	pg/g		03/21/23 14:51	03/26/23 11:01	1
Total HpCDF	390	B	4.9	1.3	pg/g		03/21/23 14:51	03/26/23 11:01	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDD	71		25 - 164	03/21/23 14:51	03/26/23 11:01	1			
13C-1,2,3,7,8-PeCDD	71		25 - 181	03/21/23 14:51	03/26/23 11:01	1			
13C-1,2,3,4,7,8-HxCDD	47		32 - 141	03/21/23 14:51	03/26/23 11:01	1			
13C-1,2,3,6,7,8-HxCDD	83		28 - 130	03/21/23 14:51	03/26/23 11:01	1			
13C-1,2,3,4,6,7,8-HpCDD	48		23 - 140	03/21/23 14:51	03/26/23 11:01	1			
13C-2,3,7,8-TCDF	57		24 - 169	03/21/23 14:51	03/26/23 11:01	1			
13C-1,2,3,7,8-PeCDF	61		24 - 185	03/21/23 14:51	03/26/23 11:01	1			
13C-2,3,4,7,8-PeCDF	58		21 - 178	03/21/23 14:51	03/26/23 11:01	1			
13C-1,2,3,4,7,8-HxCDF	46		26 - 152	03/21/23 14:51	03/26/23 11:01	1			
13C-1,2,3,6,7,8-HxCDF	75		26 - 123	03/21/23 14:51	03/26/23 11:01	1			

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-NE-0-1.5

Lab Sample ID: 320-97305-56

Date Collected: 02/22/23 10:20

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,4,6,7,8-HxCDF	67		28 - 136	03/21/23 14:51	03/26/23 11:01	1
13C-1,2,3,7,8,9-HxCDF	66		29 - 147	03/21/23 14:51	03/26/23 11:01	1
13C-1,2,3,4,6,7,8-HpCDF	37		28 - 143	03/21/23 14:51	03/26/23 11:01	1
13C-1,2,3,4,7,8,9-HpCDF	35		26 - 138	03/21/23 14:51	03/26/23 11:01	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	86		35 - 197	03/21/23 14:51	03/26/23 11:01	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	7100	B	49	5.5	pg/g		03/21/23 14:51	03/30/23 10:13	5
OCDF	140	B	49	0.77	pg/g		03/21/23 14:51	03/30/23 10:13	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-OCDD	58		17 - 157	03/21/23 14:51	03/30/23 10:13	5			
13C-OCDF	59		17 - 157	03/21/23 14:51	03/30/23 10:13	5			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	102		35 - 197	03/21/23 14:51	03/30/23 10:13	5			

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	3.4		0.97	0.30	pg/g		03/21/23 14:51	03/31/23 23:26	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDF	69		24 - 169	03/21/23 14:51	03/31/23 23:26	1			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	89		35 - 197	03/21/23 14:51	03/31/23 23:26	1			

Client Sample ID: DU-5-NW-0-1.5

Lab Sample ID: 320-97305-67

Date Collected: 02/21/23 10:50

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.95	0.12	pg/g		03/21/23 14:51	03/26/23 16:08	1
Total TCDD	12	q	0.95	0.12	pg/g		03/21/23 14:51	03/26/23 16:08	1
1,2,3,7,8-PeCDD	ND		4.7	0.43	pg/g		03/21/23 14:51	03/26/23 16:08	1
Total PeCDD	16		4.7	0.43	pg/g		03/21/23 14:51	03/26/23 16:08	1
1,2,3,4,7,8-HxCDD	1.5	J q	4.7	0.19	pg/g		03/21/23 14:51	03/26/23 16:08	1
1,2,3,6,7,8-HxCDD	10		4.7	0.19	pg/g		03/21/23 14:51	03/26/23 16:08	1
1,2,3,7,8,9-HxCDD	4.2	J	4.7	0.17	pg/g		03/21/23 14:51	03/26/23 16:08	1
Total HxCDD	100	q	4.7	0.18	pg/g		03/21/23 14:51	03/26/23 16:08	1
1,2,3,4,6,7,8-HpCDD	210	B	4.7	0.86	pg/g		03/21/23 14:51	03/26/23 16:08	1
Total HpCDD	760	B	4.7	0.86	pg/g		03/21/23 14:51	03/26/23 16:08	1
Total TCDF	10		0.95	0.14	pg/g		03/21/23 14:51	03/26/23 16:08	1
1,2,3,7,8-PeCDF	1.9	J	4.7	0.29	pg/g		03/21/23 14:51	03/26/23 16:08	1
2,3,4,7,8-PeCDF	1.4	J	4.7	0.34	pg/g		03/21/23 14:51	03/26/23 16:08	1
Total PeCDF	9.4	q	4.7	0.31	pg/g		03/21/23 14:51	03/26/23 16:08	1
1,2,3,4,7,8-HxCDF	4.0	J	4.7	0.45	pg/g		03/21/23 14:51	03/26/23 16:08	1
1,2,3,6,7,8-HxCDF	2.5	J	4.7	0.43	pg/g		03/21/23 14:51	03/26/23 16:08	1
2,3,4,6,7,8-HxCDF	1.5	J	4.7	0.39	pg/g		03/21/23 14:51	03/26/23 16:08	1

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-NW-0-1.5

Lab Sample ID: 320-97305-67

Date Collected: 02/21/23 10:50

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-HxCDF	0.46	J q	4.7	0.42	pg/g		03/21/23 14:51	03/26/23 16:08	1
Total HxCDF	67	q	4.7	0.42	pg/g		03/21/23 14:51	03/26/23 16:08	1
1,2,3,4,6,7,8-HpCDF	36	B	4.7	0.48	pg/g		03/21/23 14:51	03/26/23 16:08	1
1,2,3,4,7,8,9-HpCDF	1.8	J	4.7	0.52	pg/g		03/21/23 14:51	03/26/23 16:08	1
Total HpCDF	130	B	4.7	0.50	pg/g		03/21/23 14:51	03/26/23 16:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	73		25 - 164				03/21/23 14:51	03/26/23 16:08	1
13C-1,2,3,7,8-PeCDD	71		25 - 181				03/21/23 14:51	03/26/23 16:08	1
13C-1,2,3,4,7,8-HxCDD	66		32 - 141				03/21/23 14:51	03/26/23 16:08	1
13C-1,2,3,6,7,8-HxCDD	68		28 - 130				03/21/23 14:51	03/26/23 16:08	1
13C-1,2,3,4,6,7,8-HpCDD	50		23 - 140				03/21/23 14:51	03/26/23 16:08	1
13C-2,3,7,8-TCDF	62		24 - 169				03/21/23 14:51	03/26/23 16:08	1
13C-1,2,3,7,8-PeCDF	64		24 - 185				03/21/23 14:51	03/26/23 16:08	1
13C-2,3,4,7,8-PeCDF	62		21 - 178				03/21/23 14:51	03/26/23 16:08	1
13C-1,2,3,4,7,8-HxCDF	66		26 - 152				03/21/23 14:51	03/26/23 16:08	1
13C-1,2,3,6,7,8-HxCDF	68		26 - 123				03/21/23 14:51	03/26/23 16:08	1
13C-2,3,4,6,7,8-HxCDF	73		28 - 136				03/21/23 14:51	03/26/23 16:08	1
13C-1,2,3,7,8,9-HxCDF	66		29 - 147				03/21/23 14:51	03/26/23 16:08	1
13C-1,2,3,4,6,7,8-HpCDF	40		28 - 143				03/21/23 14:51	03/26/23 16:08	1
13C-1,2,3,4,7,8,9-HpCDF	43		26 - 138				03/21/23 14:51	03/26/23 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	90		35 - 197				03/21/23 14:51	03/26/23 16:08	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	1700	B	95	3.0	pg/g		03/21/23 14:51	04/04/23 16:17	10
OCDF	82	J B	95	0.78	pg/g		03/21/23 14:51	04/04/23 16:17	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-OCDD	68		17 - 157				03/21/23 14:51	04/04/23 16:17	10
13C-OCDF	64		17 - 157				03/21/23 14:51	04/04/23 16:17	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	95		35 - 197				03/21/23 14:51	04/04/23 16:17	10

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	1.9		0.95	0.17	pg/g		03/21/23 14:51	04/03/23 18:46	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	71		24 - 169				03/21/23 14:51	04/03/23 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	96		35 - 197				03/21/23 14:51	04/03/23 18:46	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-NW-1.5-3

Lab Sample ID: 320-97305-78

Date Collected: 02/21/23 11:00

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.98	0.24	pg/g		03/21/23 14:51	03/26/23 16:56	1
Total TCDD	42		0.98	0.24	pg/g		03/21/23 14:51	03/26/23 16:56	1
1,2,3,7,8-PeCDD	1.1	J q	4.9	0.53	pg/g		03/21/23 14:51	03/26/23 16:56	1
Total PeCDD	47	q	4.9	0.53	pg/g		03/21/23 14:51	03/26/23 16:56	1
1,2,3,4,7,8-HxCDD	2.7	J q	4.9	1.0	pg/g		03/21/23 14:51	03/26/23 16:56	1
1,2,3,6,7,8-HxCDD	14		4.9	1.0	pg/g		03/21/23 14:51	03/26/23 16:56	1
1,2,3,7,8,9-HxCDD	4.8	J	4.9	0.95	pg/g		03/21/23 14:51	03/26/23 16:56	1
Total HxCDD	250	q	4.9	1.0	pg/g		03/21/23 14:51	03/26/23 16:56	1
Total TCDF	28	q	0.98	0.32	pg/g		03/21/23 14:51	03/26/23 16:56	1
1,2,3,7,8-PeCDF	2.0	J q	4.9	0.21	pg/g		03/21/23 14:51	03/26/23 16:56	1
2,3,4,7,8-PeCDF	2.2	J	4.9	0.23	pg/g		03/21/23 14:51	03/26/23 16:56	1
Total PeCDF	15	q	4.9	0.22	pg/g		03/21/23 14:51	03/26/23 16:56	1
1,2,3,4,7,8-HxCDF	4.6	J	4.9	0.48	pg/g		03/21/23 14:51	03/26/23 16:56	1
1,2,3,6,7,8-HxCDF	2.2	J	4.9	0.47	pg/g		03/21/23 14:51	03/26/23 16:56	1
2,3,4,6,7,8-HxCDF	1.6	J	4.9	0.40	pg/g		03/21/23 14:51	03/26/23 16:56	1
1,2,3,7,8,9-HxCDF	ND		4.9	0.41	pg/g		03/21/23 14:51	03/26/23 16:56	1
Total HxCDF	59		4.9	0.44	pg/g		03/21/23 14:51	03/26/23 16:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	62		25 - 164	03/21/23 14:51	03/26/23 16:56	1
13C-1,2,3,7,8-PeCDD	65		25 - 181	03/21/23 14:51	03/26/23 16:56	1
13C-1,2,3,4,7,8-HxCDD	52		32 - 141	03/21/23 14:51	03/26/23 16:56	1
13C-1,2,3,6,7,8-HxCDD	55		28 - 130	03/21/23 14:51	03/26/23 16:56	1
13C-2,3,7,8-TCDF	54		24 - 169	03/21/23 14:51	03/26/23 16:56	1
13C-1,2,3,7,8-PeCDF	54		24 - 185	03/21/23 14:51	03/26/23 16:56	1
13C-2,3,4,7,8-PeCDF	53		21 - 178	03/21/23 14:51	03/26/23 16:56	1
13C-1,2,3,4,7,8-HxCDF	46		26 - 152	03/21/23 14:51	03/26/23 16:56	1
13C-1,2,3,6,7,8-HxCDF	48		26 - 123	03/21/23 14:51	03/26/23 16:56	1
13C-2,3,4,6,7,8-HxCDF	52		28 - 136	03/21/23 14:51	03/26/23 16:56	1
13C-1,2,3,7,8,9-HxCDF	53		29 - 147	03/21/23 14:51	03/26/23 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	94		35 - 197	03/21/23 14:51	03/26/23 16:56	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	520	B	49	6.3	pg/g		03/21/23 14:51	04/04/23 17:54	10
Total HpCDD	2900	B	49	6.3	pg/g		03/21/23 14:51	04/04/23 17:54	10
OCDD	5000	B	98	11	pg/g		03/21/23 14:51	04/04/23 17:54	10
1,2,3,4,6,7,8-HpCDF	80	B	49	1.1	pg/g		03/21/23 14:51	04/04/23 17:54	10
1,2,3,4,7,8,9-HpCDF	3.1	J q	49	1.0	pg/g		03/21/23 14:51	04/04/23 17:54	10
Total HpCDF	360	B q	49	1.1	pg/g		03/21/23 14:51	04/04/23 17:54	10
OCDF	440	B	98	2.0	pg/g		03/21/23 14:51	04/04/23 17:54	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDD	54		23 - 140	03/21/23 14:51	04/04/23 17:54	10
13C-OCDD	49		17 - 157	03/21/23 14:51	04/04/23 17:54	10
13C-1,2,3,4,6,7,8-HpCDF	41		28 - 143	03/21/23 14:51	04/04/23 17:54	10
13C-1,2,3,4,7,8,9-HpCDF	52		26 - 138	03/21/23 14:51	04/04/23 17:54	10
13C-OCDF	49		17 - 157	03/21/23 14:51	04/04/23 17:54	10

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-NW-1.5-3

Lab Sample ID: 320-97305-78

Date Collected: 02/21/23 11:00

Matrix: Solid

Date Received: 03/02/23 09:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	91		35 - 197	03/21/23 14:51	04/04/23 17:54	10			
Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA									
Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	3.9		0.98	0.089	pg/g		03/21/23 14:51	04/03/23 19:29	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDF	62		24 - 169	03/21/23 14:51	04/03/23 19:29	1			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	100		35 - 197	03/21/23 14:51	04/03/23 19:29	1			

Client Sample ID: DU-6-SE-1.5-3

Lab Sample ID: 320-97305-89

Date Collected: 02/23/23 10:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)									
Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.96	0.053	pg/g		03/21/23 14:51	03/26/23 17:44	1
Total TCDD	2.0		0.96	0.053	pg/g		03/21/23 14:51	03/26/23 17:44	1
1,2,3,7,8-PeCDD	ND		4.8	0.12	pg/g		03/21/23 14:51	03/26/23 17:44	1
Total PeCDD	3.5	J	4.8	0.12	pg/g		03/21/23 14:51	03/26/23 17:44	1
1,2,3,4,7,8-HxCDD	0.60	J q	4.8	0.17	pg/g		03/21/23 14:51	03/26/23 17:44	1
1,2,3,6,7,8-HxCDD	1.1	J q	4.8	0.18	pg/g		03/21/23 14:51	03/26/23 17:44	1
1,2,3,7,8,9-HxCDD	0.88	J q	4.8	0.16	pg/g		03/21/23 14:51	03/26/23 17:44	1
Total HxCDD	33	q	4.8	0.17	pg/g		03/21/23 14:51	03/26/23 17:44	1
1,2,3,4,6,7,8-HpCDD	69	B	4.8	0.89	pg/g		03/21/23 14:51	03/26/23 17:44	1
Total HpCDD	410	B	4.8	0.89	pg/g		03/21/23 14:51	03/26/23 17:44	1
2,3,7,8-TCDF	0.87	J	0.96	0.037	pg/g		03/21/23 14:51	03/26/23 17:44	1
Total TCDF	0.87	J	0.96	0.037	pg/g		03/21/23 14:51	03/26/23 17:44	1
1,2,3,7,8-PeCDF	ND		4.8	0.046	pg/g		03/21/23 14:51	03/26/23 17:44	1
2,3,4,7,8-PeCDF	ND		4.8	0.055	pg/g		03/21/23 14:51	03/26/23 17:44	1
Total PeCDF	ND		4.8	0.15	pg/g		03/21/23 14:51	03/26/23 17:44	1
1,2,3,4,7,8-HxCDF	0.49	J	4.8	0.11	pg/g		03/21/23 14:51	03/26/23 17:44	1
1,2,3,6,7,8-HxCDF	0.27	J	4.8	0.096	pg/g		03/21/23 14:51	03/26/23 17:44	1
2,3,4,6,7,8-HxCDF	ND		4.8	0.087	pg/g		03/21/23 14:51	03/26/23 17:44	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.089	pg/g		03/21/23 14:51	03/26/23 17:44	1
Total HxCDF	3.8	J	4.8	0.094	pg/g		03/21/23 14:51	03/26/23 17:44	1
1,2,3,4,6,7,8-HpCDF	5.6	B	4.8	0.24	pg/g		03/21/23 14:51	03/26/23 17:44	1
1,2,3,4,7,8,9-HpCDF	0.46	J	4.8	0.24	pg/g		03/21/23 14:51	03/26/23 17:44	1
Total HpCDF	27	B	4.8	0.24	pg/g		03/21/23 14:51	03/26/23 17:44	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDD	60		25 - 164	03/21/23 14:51	03/26/23 17:44	1			
13C-1,2,3,7,8-PeCDD	61		25 - 181	03/21/23 14:51	03/26/23 17:44	1			
13C-1,2,3,4,7,8-HxCDD	50		32 - 141	03/21/23 14:51	03/26/23 17:44	1			
13C-1,2,3,6,7,8-HxCDD	57		28 - 130	03/21/23 14:51	03/26/23 17:44	1			
13C-1,2,3,4,6,7,8-HpCDD	50		23 - 140	03/21/23 14:51	03/26/23 17:44	1			
13C-2,3,7,8-TCDF	51		24 - 169	03/21/23 14:51	03/26/23 17:44	1			
13C-1,2,3,7,8-PeCDF	53		24 - 185	03/21/23 14:51	03/26/23 17:44	1			
13C-2,3,4,7,8-PeCDF	51		21 - 178	03/21/23 14:51	03/26/23 17:44	1			
13C-1,2,3,4,7,8-HxCDF	45		26 - 152	03/21/23 14:51	03/26/23 17:44	1			

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-SE-1.5-3

Lab Sample ID: 320-97305-89

Date Collected: 02/23/23 10:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	49		26 - 123	03/21/23 14:51	03/26/23 17:44	1
13C-2,3,4,6,7,8-HxCDF	52		28 - 136	03/21/23 14:51	03/26/23 17:44	1
13C-1,2,3,7,8,9-HxCDF	52		29 - 147	03/21/23 14:51	03/26/23 17:44	1
13C-1,2,3,4,6,7,8-HpCDF	38		28 - 143	03/21/23 14:51	03/26/23 17:44	1
13C-1,2,3,4,7,8,9-HpCDF	46		26 - 138	03/21/23 14:51	03/26/23 17:44	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	85		35 - 197	03/21/23 14:51	03/26/23 17:44	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	460	B	96	4.5	pg/g		03/21/23 14:51	04/03/23 18:02	10
OCDF	34	J B	96	2.5	pg/g		03/21/23 14:51	04/03/23 18:02	10
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-OCDD	52		17 - 157	03/21/23 14:51	04/03/23 18:02	10			
13C-OCDF	52		17 - 157	03/21/23 14:51	04/03/23 18:02	10			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	89		35 - 197	03/21/23 14:51	04/03/23 18:02	10			

Client Sample ID: DU-6-SE-0-1.5

Lab Sample ID: 320-97305-100

Date Collected: 02/23/23 10:30

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.97	0.060	pg/g		03/21/23 14:51	03/26/23 18:32	1
Total TCDD	7.6		0.97	0.060	pg/g		03/21/23 14:51	03/26/23 18:32	1
1,2,3,7,8-PeCDD	0.49	J q	4.8	0.13	pg/g		03/21/23 14:51	03/26/23 18:32	1
Total PeCDD	8.8	q	4.8	0.13	pg/g		03/21/23 14:51	03/26/23 18:32	1
1,2,3,4,7,8-HxCDD	1.1	J	4.8	0.28	pg/g		03/21/23 14:51	03/26/23 18:32	1
1,2,3,6,7,8-HxCDD	5.2		4.8	0.29	pg/g		03/21/23 14:51	03/26/23 18:32	1
1,2,3,7,8,9-HxCDD	2.6	J q	4.8	0.26	pg/g		03/21/23 14:51	03/26/23 18:32	1
Total HxCDD	75	q	4.8	0.28	pg/g		03/21/23 14:51	03/26/23 18:32	1
1,2,3,4,6,7,8-HpCDD	190	B	4.8	1.1	pg/g		03/21/23 14:51	03/26/23 18:32	1
Total HpCDD	1100	B	4.8	1.1	pg/g		03/21/23 14:51	03/26/23 18:32	1
OCDD	1800	B	9.7	1.5	pg/g		03/21/23 14:51	03/26/23 18:32	1
Total TCDF	6.7	q	0.97	0.049	pg/g		03/21/23 14:51	03/26/23 18:32	1
1,2,3,7,8-PeCDF	0.41	J	4.8	0.068	pg/g		03/21/23 14:51	03/26/23 18:32	1
2,3,4,7,8-PeCDF	0.44	J	4.8	0.078	pg/g		03/21/23 14:51	03/26/23 18:32	1
Total PeCDF	4.1	J q	4.8	0.073	pg/g		03/21/23 14:51	03/26/23 18:32	1
1,2,3,4,7,8-HxCDF	1.3	J	4.8	0.13	pg/g		03/21/23 14:51	03/26/23 18:32	1
1,2,3,6,7,8-HxCDF	0.71	J q	4.8	0.13	pg/g		03/21/23 14:51	03/26/23 18:32	1
2,3,4,6,7,8-HxCDF	0.29	J q	4.8	0.12	pg/g		03/21/23 14:51	03/26/23 18:32	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.12	pg/g		03/21/23 14:51	03/26/23 18:32	1
Total HxCDF	22	q	4.8	0.13	pg/g		03/21/23 14:51	03/26/23 18:32	1
1,2,3,4,6,7,8-HpCDF	29	B	4.8	0.29	pg/g		03/21/23 14:51	03/26/23 18:32	1
1,2,3,4,7,8,9-HpCDF	2.5	J	4.8	0.40	pg/g		03/21/23 14:51	03/26/23 18:32	1
Total HpCDF	140	B	4.8	0.35	pg/g		03/21/23 14:51	03/26/23 18:32	1
OCDF	130	B	9.7	0.33	pg/g		03/21/23 14:51	03/26/23 18:32	1

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-SE-0-1.5

Lab Sample ID: 320-97305-100

Date Collected: 02/23/23 10:30

Matrix: Solid

Date Received: 03/02/23 09:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	66		25 - 164	03/21/23 14:51	03/26/23 18:32	1
13C-1,2,3,7,8-PeCDD	73		25 - 181	03/21/23 14:51	03/26/23 18:32	1
13C-1,2,3,4,7,8-HxCDD	62		32 - 141	03/21/23 14:51	03/26/23 18:32	1
13C-1,2,3,6,7,8-HxCDD	64		28 - 130	03/21/23 14:51	03/26/23 18:32	1
13C-1,2,3,4,6,7,8-HpCDD	58		23 - 140	03/21/23 14:51	03/26/23 18:32	1
13C-OCDD	53		17 - 157	03/21/23 14:51	03/26/23 18:32	1
13C-2,3,7,8-TCDF	59		24 - 169	03/21/23 14:51	03/26/23 18:32	1
13C-1,2,3,7,8-PeCDF	62		24 - 185	03/21/23 14:51	03/26/23 18:32	1
13C-2,3,4,7,8-PeCDF	62		21 - 178	03/21/23 14:51	03/26/23 18:32	1
13C-1,2,3,4,7,8-HxCDF	54		26 - 152	03/21/23 14:51	03/26/23 18:32	1
13C-1,2,3,6,7,8-HxCDF	57		26 - 123	03/21/23 14:51	03/26/23 18:32	1
13C-2,3,4,6,7,8-HxCDF	60		28 - 136	03/21/23 14:51	03/26/23 18:32	1
13C-1,2,3,7,8,9-HxCDF	63		29 - 147	03/21/23 14:51	03/26/23 18:32	1
13C-1,2,3,4,6,7,8-HpCDF	48		28 - 143	03/21/23 14:51	03/26/23 18:32	1
13C-1,2,3,4,7,8,9-HpCDF	36		26 - 138	03/21/23 14:51	03/26/23 18:32	1
13C-OCDF	53		17 - 157	03/21/23 14:51	03/26/23 18:32	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	96		35 - 197	03/21/23 14:51	03/26/23 18:32	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	1.2		0.97	0.078	pg/g		03/21/23 14:51	04/03/23 20:13	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDF	66		24 - 169	03/21/23 14:51	04/03/23 20:13	1			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	103		35 - 197	03/21/23 14:51	04/03/23 20:13	1			

Client Sample ID: DU-6-SW-1.5-3

Lab Sample ID: 320-97305-111

Date Collected: 02/22/23 15:30

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.94	0.20	pg/g		03/21/23 14:51	03/26/23 19:20	1
Total TCDD	29	q	0.94	0.20	pg/g		03/21/23 14:51	03/26/23 19:20	1
1,2,3,7,8-PeCDD	1.6	J	4.7	0.50	pg/g		03/21/23 14:51	03/26/23 19:20	1
Total PeCDD	37		4.7	0.50	pg/g		03/21/23 14:51	03/26/23 19:20	1
1,2,3,4,7,8-HxCDD	3.2	J	4.7	0.27	pg/g		03/21/23 14:51	03/26/23 19:20	1
1,2,3,6,7,8-HxCDD	9.8		4.7	0.27	pg/g		03/21/23 14:51	03/26/23 19:20	1
1,2,3,7,8,9-HxCDD	3.7	J	4.7	0.24	pg/g		03/21/23 14:51	03/26/23 19:20	1
Total HxCDD	110		4.7	0.26	pg/g		03/21/23 14:51	03/26/23 19:20	1
1,2,3,4,6,7,8-HpCDD	180	B	4.7	1.8	pg/g		03/21/23 14:51	03/26/23 19:20	1
Total HpCDD	670	B	4.7	1.8	pg/g		03/21/23 14:51	03/26/23 19:20	1
Total TCDF	13	q	0.94	0.094	pg/g		03/21/23 14:51	03/26/23 19:20	1
1,2,3,7,8-PeCDF	0.88	J	4.7	0.13	pg/g		03/21/23 14:51	03/26/23 19:20	1
2,3,4,7,8-PeCDF	0.90	J	4.7	0.14	pg/g		03/21/23 14:51	03/26/23 19:20	1
Total PeCDF	6.6	q	4.7	0.13	pg/g		03/21/23 14:51	03/26/23 19:20	1
1,2,3,4,7,8-HxCDF	2.4	J	4.7	0.25	pg/g		03/21/23 14:51	03/26/23 19:20	1
1,2,3,6,7,8-HxCDF	1.2	J q	4.7	0.24	pg/g		03/21/23 14:51	03/26/23 19:20	1

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-SW-1.5-3

Lab Sample ID: 320-97305-111

Date Collected: 02/22/23 15:30

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6,7,8-HxCDF	1.0	J	4.7	0.21	pg/g		03/21/23 14:51	03/26/23 19:20	1
1,2,3,7,8,9-HxCDF	ND		4.7	0.22	pg/g		03/21/23 14:51	03/26/23 19:20	1
Total HxCDF	27	q	4.7	0.23	pg/g		03/21/23 14:51	03/26/23 19:20	1
1,2,3,4,6,7,8-HpCDF	35	B	4.7	0.40	pg/g		03/21/23 14:51	03/26/23 19:20	1
1,2,3,4,7,8,9-HpCDF	2.0	J	4.7	0.39	pg/g		03/21/23 14:51	03/26/23 19:20	1
Total HpCDF	110	B	4.7	0.40	pg/g		03/21/23 14:51	03/26/23 19:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	69		25 - 164	03/21/23 14:51	03/26/23 19:20	1
13C-1,2,3,7,8-PeCDD	67		25 - 181	03/21/23 14:51	03/26/23 19:20	1
13C-1,2,3,4,7,8-HxCDD	60		32 - 141	03/21/23 14:51	03/26/23 19:20	1
13C-1,2,3,6,7,8-HxCDD	62		28 - 130	03/21/23 14:51	03/26/23 19:20	1
13C-1,2,3,4,6,7,8-HpCDD	61		23 - 140	03/21/23 14:51	03/26/23 19:20	1
13C-2,3,7,8-TCDF	56		24 - 169	03/21/23 14:51	03/26/23 19:20	1
13C-1,2,3,7,8-PeCDF	61		24 - 185	03/21/23 14:51	03/26/23 19:20	1
13C-2,3,4,7,8-PeCDF	59		21 - 178	03/21/23 14:51	03/26/23 19:20	1
13C-1,2,3,4,7,8-HxCDF	54		26 - 152	03/21/23 14:51	03/26/23 19:20	1
13C-1,2,3,6,7,8-HxCDF	57		26 - 123	03/21/23 14:51	03/26/23 19:20	1
13C-2,3,4,6,7,8-HxCDF	60		28 - 136	03/21/23 14:51	03/26/23 19:20	1
13C-1,2,3,7,8,9-HxCDF	60		29 - 147	03/21/23 14:51	03/26/23 19:20	1
13C-1,2,3,4,6,7,8-HpCDF	47		28 - 143	03/21/23 14:51	03/26/23 19:20	1
13C-1,2,3,4,7,8,9-HpCDF	55		26 - 138	03/21/23 14:51	03/26/23 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	92		35 - 197	03/21/23 14:51	03/26/23 19:20	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	1700	B	47	2.6	pg/g		03/21/23 14:51	03/30/23 13:26	5
OCDF	120	B	47	0.72	pg/g		03/21/23 14:51	03/30/23 13:26	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-OCDD	64		17 - 157	03/21/23 14:51	03/30/23 13:26	5
13C-OCDF	64		17 - 157	03/21/23 14:51	03/30/23 13:26	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	99		35 - 197	03/21/23 14:51	03/30/23 13:26	5

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.0		0.94	0.067	pg/g		03/21/23 14:51	04/03/23 20:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	65		24 - 169	03/21/23 14:51	04/03/23 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	102		35 - 197	03/21/23 14:51	04/03/23 20:56	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-SW-0-1.5

Lab Sample ID: 320-97305-122

Date Collected: 02/22/23 15:20

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.98	0.14	pg/g		03/21/23 14:51	03/26/23 20:08	1
Total TCDD	7.4	q	0.98	0.14	pg/g		03/21/23 14:51	03/26/23 20:08	1
1,2,3,7,8-PeCDD	3.7	J	4.9	0.60	pg/g		03/21/23 14:51	03/26/23 20:08	1
Total PeCDD	19	q	4.9	0.60	pg/g		03/21/23 14:51	03/26/23 20:08	1
1,2,3,4,7,8-HxCDD	5.2		4.9	0.24	pg/g		03/21/23 14:51	03/26/23 20:08	1
1,2,3,6,7,8-HxCDD	43		4.9	0.19	pg/g		03/21/23 14:51	03/26/23 20:08	1
1,2,3,7,8,9-HxCDD	15		4.9	0.19	pg/g		03/21/23 14:51	03/26/23 20:08	1
Total HxCDD	240		4.9	0.21	pg/g		03/21/23 14:51	03/26/23 20:08	1
1,2,3,4,6,7,8-HpCDD	520	B	4.9	1.5	pg/g		03/21/23 14:51	03/26/23 20:08	1
Total HpCDD	1300	B	4.9	1.5	pg/g		03/21/23 14:51	03/26/23 20:08	1
Total TCDF	8.6	q	0.98	0.16	pg/g		03/21/23 14:51	03/26/23 20:08	1
1,2,3,7,8-PeCDF	1.5	J	4.9	0.57	pg/g		03/21/23 14:51	03/26/23 20:08	1
2,3,4,7,8-PeCDF	2.1	J	4.9	0.63	pg/g		03/21/23 14:51	03/26/23 20:08	1
Total PeCDF	27	q	4.9	0.60	pg/g		03/21/23 14:51	03/26/23 20:08	1
1,2,3,4,7,8-HxCDF	4.6	J q	4.9	0.98	pg/g		03/21/23 14:51	03/26/23 20:08	1
1,2,3,6,7,8-HxCDF	4.4	J q	4.9	0.83	pg/g		03/21/23 14:51	03/26/23 20:08	1
2,3,4,6,7,8-HxCDF	6.4		4.9	0.95	pg/g		03/21/23 14:51	03/26/23 20:08	1
1,2,3,7,8,9-HxCDF	ND		4.9	0.99	pg/g		03/21/23 14:51	03/26/23 20:08	1
Total HxCDF	150	q	4.9	0.94	pg/g		03/21/23 14:51	03/26/23 20:08	1
1,2,3,4,6,7,8-HpCDF	120	B	4.9	1.2	pg/g		03/21/23 14:51	03/26/23 20:08	1
1,2,3,4,7,8,9-HpCDF	5.9		4.9	1.0	pg/g		03/21/23 14:51	03/26/23 20:08	1
Total HpCDF	380	B	4.9	1.1	pg/g		03/21/23 14:51	03/26/23 20:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	84		25 - 164	03/21/23 14:51	03/26/23 20:08	1
13C-1,2,3,7,8-PeCDD	81		25 - 181	03/21/23 14:51	03/26/23 20:08	1
13C-1,2,3,4,7,8-HxCDD	59		32 - 141	03/21/23 14:51	03/26/23 20:08	1
13C-1,2,3,6,7,8-HxCDD	93		28 - 130	03/21/23 14:51	03/26/23 20:08	1
13C-1,2,3,4,6,7,8-HpCDD	60		23 - 140	03/21/23 14:51	03/26/23 20:08	1
13C-2,3,7,8-TCDF	68		24 - 169	03/21/23 14:51	03/26/23 20:08	1
13C-1,2,3,7,8-PeCDF	72		24 - 185	03/21/23 14:51	03/26/23 20:08	1
13C-2,3,4,7,8-PeCDF	69		21 - 178	03/21/23 14:51	03/26/23 20:08	1
13C-1,2,3,4,7,8-HxCDF	58		26 - 152	03/21/23 14:51	03/26/23 20:08	1
13C-1,2,3,6,7,8-HxCDF	93		26 - 123	03/21/23 14:51	03/26/23 20:08	1
13C-2,3,4,6,7,8-HxCDF	80		28 - 136	03/21/23 14:51	03/26/23 20:08	1
13C-1,2,3,7,8,9-HxCDF	78		29 - 147	03/21/23 14:51	03/26/23 20:08	1
13C-1,2,3,4,6,7,8-HpCDF	42		28 - 143	03/21/23 14:51	03/26/23 20:08	1
13C-1,2,3,4,7,8,9-HpCDF	45		26 - 138	03/21/23 14:51	03/26/23 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	92		35 - 197	03/21/23 14:51	03/26/23 20:08	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	3300	B	49	3.0	pg/g		03/21/23 14:51	03/30/23 14:14	5
OCDF	230	B	49	0.77	pg/g		03/21/23 14:51	03/30/23 14:14	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-OCDD	71		17 - 157	03/21/23 14:51	03/30/23 14:14	5
13C-OCDF	72		17 - 157	03/21/23 14:51	03/30/23 14:14	5

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-SW-0-1.5

Lab Sample ID: 320-97305-122

Date Collected: 02/22/23 15:20

Matrix: Solid

Date Received: 03/02/23 09:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	91		35 - 197	03/21/23 14:51	03/30/23 14:14	5			
Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA									
Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.8		0.98	0.23	pg/g		03/21/23 14:51	04/03/23 21:39	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDF	73		24 - 169	03/21/23 14:51	04/03/23 21:39	1			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	95		35 - 197	03/21/23 14:51	04/03/23 21:39	1			

Client Sample ID: DU-6-NE-0-1.5

Lab Sample ID: 320-97305-133

Date Collected: 02/23/23 12:30

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)									
Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.99	0.088	pg/g		03/21/23 14:51	03/26/23 20:57	1
Total TCDD	3.8	q	0.99	0.088	pg/g		03/21/23 14:51	03/26/23 20:57	1
1,2,3,7,8-PeCDD	0.72	J	5.0	0.34	pg/g		03/21/23 14:51	03/26/23 20:57	1
Total PeCDD	4.8	J q	5.0	0.34	pg/g		03/21/23 14:51	03/26/23 20:57	1
1,2,3,4,7,8-HxCDD	1.1	J	5.0	0.37	pg/g		03/21/23 14:51	03/26/23 20:57	1
1,2,3,6,7,8-HxCDD	6.1		5.0	0.35	pg/g		03/21/23 14:51	03/26/23 20:57	1
1,2,3,7,8,9-HxCDD	3.1	J	5.0	0.33	pg/g		03/21/23 14:51	03/26/23 20:57	1
Total HxCDD	52	q	5.0	0.35	pg/g		03/21/23 14:51	03/26/23 20:57	1
1,2,3,4,6,7,8-HpCDD	110	B	5.0	0.86	pg/g		03/21/23 14:51	03/26/23 20:57	1
Total HpCDD	460	B	5.0	0.86	pg/g		03/21/23 14:51	03/26/23 20:57	1
Total TCDF	4.7	q	0.99	0.10	pg/g		03/21/23 14:51	03/26/23 20:57	1
1,2,3,7,8-PeCDF	0.48	J	5.0	0.19	pg/g		03/21/23 14:51	03/26/23 20:57	1
2,3,4,7,8-PeCDF	0.38	J q	5.0	0.20	pg/g		03/21/23 14:51	03/26/23 20:57	1
Total PeCDF	4.5	J q	5.0	0.20	pg/g		03/21/23 14:51	03/26/23 20:57	1
1,2,3,4,7,8-HxCDF	1.6	J	5.0	0.43	pg/g		03/21/23 14:51	03/26/23 20:57	1
1,2,3,6,7,8-HxCDF	1.8	J	5.0	0.38	pg/g		03/21/23 14:51	03/26/23 20:57	1
2,3,4,6,7,8-HxCDF	0.91	J	5.0	0.39	pg/g		03/21/23 14:51	03/26/23 20:57	1
1,2,3,7,8,9-HxCDF	ND		5.0	0.39	pg/g		03/21/23 14:51	03/26/23 20:57	1
Total HxCDF	31		5.0	0.40	pg/g		03/21/23 14:51	03/26/23 20:57	1
1,2,3,4,6,7,8-HpCDF	25	B	5.0	0.50	pg/g		03/21/23 14:51	03/26/23 20:57	1
1,2,3,4,7,8,9-HpCDF	1.5	J q	5.0	0.66	pg/g		03/21/23 14:51	03/26/23 20:57	1
Total HpCDF	84	B q	5.0	0.58	pg/g		03/21/23 14:51	03/26/23 20:57	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDD	85		25 - 164	03/21/23 14:51	03/26/23 20:57	1			
13C-1,2,3,7,8-PeCDD	93		25 - 181	03/21/23 14:51	03/26/23 20:57	1			
13C-1,2,3,4,7,8-HxCDD	67		32 - 141	03/21/23 14:51	03/26/23 20:57	1			
13C-1,2,3,6,7,8-HxCDD	91		28 - 130	03/21/23 14:51	03/26/23 20:57	1			
13C-1,2,3,4,6,7,8-HpCDD	62		23 - 140	03/21/23 14:51	03/26/23 20:57	1			
13C-2,3,7,8-TCDF	71		24 - 169	03/21/23 14:51	03/26/23 20:57	1			
13C-1,2,3,7,8-PeCDF	79		24 - 185	03/21/23 14:51	03/26/23 20:57	1			
13C-2,3,4,7,8-PeCDF	77		21 - 178	03/21/23 14:51	03/26/23 20:57	1			
13C-1,2,3,4,7,8-HxCDF	65		26 - 152	03/21/23 14:51	03/26/23 20:57	1			
13C-1,2,3,6,7,8-HxCDF	85		26 - 123	03/21/23 14:51	03/26/23 20:57	1			

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-NE-0-1.5

Lab Sample ID: 320-97305-133

Date Collected: 02/23/23 12:30

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,4,6,7,8-HxCDF	80		28 - 136	03/21/23 14:51	03/26/23 20:57	1
13C-1,2,3,7,8,9-HxCDF	81		29 - 147	03/21/23 14:51	03/26/23 20:57	1
13C-1,2,3,4,6,7,8-HpCDF	53		28 - 143	03/21/23 14:51	03/26/23 20:57	1
13C-1,2,3,4,7,8,9-HpCDF	46		26 - 138	03/21/23 14:51	03/26/23 20:57	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	94		35 - 197	03/21/23 14:51	03/26/23 20:57	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	990	B	99	1.7	pg/g		03/21/23 14:51	04/03/23 18:50	10
OCDF	68	J B	99	0.60	pg/g		03/21/23 14:51	04/03/23 18:50	10
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-OCDD	80		17 - 157	03/21/23 14:51	04/03/23 18:50	10			
13C-OCDF	80		17 - 157	03/21/23 14:51	04/03/23 18:50	10			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	95		35 - 197	03/21/23 14:51	04/03/23 18:50	10			

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	1.0		0.99	0.14	pg/g		03/21/23 14:51	04/03/23 22:22	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDF	78		24 - 169	03/21/23 14:51	04/03/23 22:22	1			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	95		35 - 197	03/21/23 14:51	04/03/23 22:22	1			

Client Sample ID: DU-6-NE-1.5-3

Lab Sample ID: 320-97305-144

Date Collected: 02/23/23 12:35

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.99	0.086	pg/g		03/21/23 14:51	03/26/23 21:45	1
Total TCDD	6.7	q	0.99	0.086	pg/g		03/21/23 14:51	03/26/23 21:45	1
1,2,3,7,8-PeCDD	ND		4.9	0.28	pg/g		03/21/23 14:51	03/26/23 21:45	1
Total PeCDD	8.8	q	4.9	0.28	pg/g		03/21/23 14:51	03/26/23 21:45	1
1,2,3,4,7,8-HxCDD	2.4	J	4.9	0.55	pg/g		03/21/23 14:51	03/26/23 21:45	1
1,2,3,6,7,8-HxCDD	4.7	J	4.9	0.54	pg/g		03/21/23 14:51	03/26/23 21:45	1
1,2,3,7,8,9-HxCDD	3.3	J	4.9	0.50	pg/g		03/21/23 14:51	03/26/23 21:45	1
Total HxCDD	130		4.9	0.53	pg/g		03/21/23 14:51	03/26/23 21:45	1
1,2,3,4,6,7,8-HpCDD	310	B	4.9	2.5	pg/g		03/21/23 14:51	03/26/23 21:45	1
Total HpCDD	1900	B	4.9	2.5	pg/g		03/21/23 14:51	03/26/23 21:45	1
2,3,7,8-TCDF	0.26	J	0.99	0.054	pg/g		03/21/23 14:51	03/26/23 21:45	1
Total TCDF	3.8		0.99	0.054	pg/g		03/21/23 14:51	03/26/23 21:45	1
1,2,3,7,8-PeCDF	0.43	J q	4.9	0.093	pg/g		03/21/23 14:51	03/26/23 21:45	1
2,3,4,7,8-PeCDF	0.36	J	4.9	0.099	pg/g		03/21/23 14:51	03/26/23 21:45	1
Total PeCDF	2.8	J q	4.9	0.096	pg/g		03/21/23 14:51	03/26/23 21:45	1
1,2,3,4,7,8-HxCDF	ND		4.9	0.28	pg/g		03/21/23 14:51	03/26/23 21:45	1
1,2,3,6,7,8-HxCDF	ND		4.9	0.28	pg/g		03/21/23 14:51	03/26/23 21:45	1

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-NE-1.5-3

Lab Sample ID: 320-97305-144

Date Collected: 02/23/23 12:35

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6,7,8-HxCDF	ND		4.9	0.25	pg/g		03/21/23 14:51	03/26/23 21:45	1
1,2,3,7,8,9-HxCDF	ND		4.9	0.25	pg/g		03/21/23 14:51	03/26/23 21:45	1
Total HxCDF	12	q	4.9	0.26	pg/g		03/21/23 14:51	03/26/23 21:45	1
1,2,3,4,6,7,8-HpCDF	21	B	4.9	0.50	pg/g		03/21/23 14:51	03/26/23 21:45	1
1,2,3,4,7,8,9-HpCDF	1.1	J	4.9	0.46	pg/g		03/21/23 14:51	03/26/23 21:45	1
Total HpCDF	110	B	4.9	0.48	pg/g		03/21/23 14:51	03/26/23 21:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	59		25 - 164	03/21/23 14:51	03/26/23 21:45	1
13C-1,2,3,7,8-PeCDD	58		25 - 181	03/21/23 14:51	03/26/23 21:45	1
13C-1,2,3,4,7,8-HxCDD	50		32 - 141	03/21/23 14:51	03/26/23 21:45	1
13C-1,2,3,6,7,8-HxCDD	52		28 - 130	03/21/23 14:51	03/26/23 21:45	1
13C-1,2,3,4,6,7,8-HpCDD	48		23 - 140	03/21/23 14:51	03/26/23 21:45	1
13C-2,3,7,8-TCDF	50		24 - 169	03/21/23 14:51	03/26/23 21:45	1
13C-1,2,3,7,8-PeCDF	50		24 - 185	03/21/23 14:51	03/26/23 21:45	1
13C-2,3,4,7,8-PeCDF	51		21 - 178	03/21/23 14:51	03/26/23 21:45	1
13C-1,2,3,4,7,8-HxCDF	44		26 - 152	03/21/23 14:51	03/26/23 21:45	1
13C-1,2,3,6,7,8-HxCDF	47		26 - 123	03/21/23 14:51	03/26/23 21:45	1
13C-2,3,4,6,7,8-HxCDF	49		28 - 136	03/21/23 14:51	03/26/23 21:45	1
13C-1,2,3,7,8,9-HxCDF	51		29 - 147	03/21/23 14:51	03/26/23 21:45	1
13C-1,2,3,4,6,7,8-HpCDF	35		28 - 143	03/21/23 14:51	03/26/23 21:45	1
13C-1,2,3,4,7,8,9-HpCDF	43		26 - 138	03/21/23 14:51	03/26/23 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	93		35 - 197	03/21/23 14:51	03/26/23 21:45	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	2100	B	99	6.4	pg/g		03/21/23 14:51	04/04/23 19:30	10
OCDF	150	B	99	0.99	pg/g		03/21/23 14:51	04/04/23 19:30	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-OCDD	43		17 - 157	03/21/23 14:51	04/04/23 19:30	10
13C-OCDF	47		17 - 157	03/21/23 14:51	04/04/23 19:30	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	92		35 - 197	03/21/23 14:51	04/04/23 19:30	10

Client Sample ID: DU-6-NW-1.5-3

Lab Sample ID: 320-97305-155

Date Collected: 02/22/23 12:50

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.97	0.28	pg/g		03/21/23 14:51	03/26/23 22:33	1
Total TCDD	38	q	0.97	0.28	pg/g		03/21/23 14:51	03/26/23 22:33	1
1,2,3,7,8-PeCDD	1.1	J q	4.8	0.56	pg/g		03/21/23 14:51	03/26/23 22:33	1
Total PeCDD	52	q	4.8	0.56	pg/g		03/21/23 14:51	03/26/23 22:33	1
1,2,3,4,7,8-HxCDD	3.7	J	4.8	0.48	pg/g		03/21/23 14:51	03/26/23 22:33	1
1,2,3,6,7,8-HxCDD	13		4.8	0.46	pg/g		03/21/23 14:51	03/26/23 22:33	1
1,2,3,7,8,9-HxCDD	7.7		4.8	0.43	pg/g		03/21/23 14:51	03/26/23 22:33	1
Total HxCDD	190	q	4.8	0.46	pg/g		03/21/23 14:51	03/26/23 22:33	1

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-NW-1.5-3

Lab Sample ID: 320-97305-155

Date Collected: 02/22/23 12:50

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	230	B	4.8	2.1	pg/g		03/21/23 14:51	03/26/23 22:33	1
Total HpCDD	880	B	4.8	2.1	pg/g		03/21/23 14:51	03/26/23 22:33	1
Total TCDF	15		0.97	0.13	pg/g		03/21/23 14:51	03/26/23 22:33	1
1,2,3,7,8-PeCDF	0.89	J	4.8	0.17	pg/g		03/21/23 14:51	03/26/23 22:33	1
2,3,4,7,8-PeCDF	1.2	J	4.8	0.20	pg/g		03/21/23 14:51	03/26/23 22:33	1
Total PeCDF	8.5		4.8	0.19	pg/g		03/21/23 14:51	03/26/23 22:33	1
1,2,3,4,7,8-HxCDF	2.6	J	4.8	0.20	pg/g		03/21/23 14:51	03/26/23 22:33	1
1,2,3,6,7,8-HxCDF	1.4	J	4.8	0.20	pg/g		03/21/23 14:51	03/26/23 22:33	1
2,3,4,6,7,8-HxCDF	1.3	J	4.8	0.17	pg/g		03/21/23 14:51	03/26/23 22:33	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.18	pg/g		03/21/23 14:51	03/26/23 22:33	1
Total HxCDF	35	q	4.8	0.19	pg/g		03/21/23 14:51	03/26/23 22:33	1
1,2,3,4,6,7,8-HpCDF	42	B	4.8	0.50	pg/g		03/21/23 14:51	03/26/23 22:33	1
1,2,3,4,7,8,9-HpCDF	2.2	J	4.8	0.48	pg/g		03/21/23 14:51	03/26/23 22:33	1
Total HpCDF	150	B	4.8	0.49	pg/g		03/21/23 14:51	03/26/23 22:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	73		25 - 164	03/21/23 14:51	03/26/23 22:33	1
13C-1,2,3,7,8-PeCDD	73		25 - 181	03/21/23 14:51	03/26/23 22:33	1
13C-1,2,3,4,7,8-HxCDD	61		32 - 141	03/21/23 14:51	03/26/23 22:33	1
13C-1,2,3,6,7,8-HxCDD	65		28 - 130	03/21/23 14:51	03/26/23 22:33	1
13C-1,2,3,4,6,7,8-HpCDD	62		23 - 140	03/21/23 14:51	03/26/23 22:33	1
13C-2,3,7,8-TCDF	61		24 - 169	03/21/23 14:51	03/26/23 22:33	1
13C-1,2,3,7,8-PeCDF	65		24 - 185	03/21/23 14:51	03/26/23 22:33	1
13C-2,3,4,7,8-PeCDF	61		21 - 178	03/21/23 14:51	03/26/23 22:33	1
13C-1,2,3,4,7,8-HxCDF	55		26 - 152	03/21/23 14:51	03/26/23 22:33	1
13C-1,2,3,6,7,8-HxCDF	61		26 - 123	03/21/23 14:51	03/26/23 22:33	1
13C-2,3,4,6,7,8-HxCDF	62		28 - 136	03/21/23 14:51	03/26/23 22:33	1
13C-1,2,3,7,8,9-HxCDF	62		29 - 147	03/21/23 14:51	03/26/23 22:33	1
13C-1,2,3,4,6,7,8-HpCDF	46		28 - 143	03/21/23 14:51	03/26/23 22:33	1
13C-1,2,3,4,7,8,9-HpCDF	55		26 - 138	03/21/23 14:51	03/26/23 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	93		35 - 197	03/21/23 14:51	03/26/23 22:33	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	1900	B	97	4.3	pg/g		03/21/23 14:51	04/03/23 20:26	10
OCDF	160	B	97	1.3	pg/g		03/21/23 14:51	04/03/23 20:26	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-OCDD	64		17 - 157	03/21/23 14:51	04/03/23 20:26	10
13C-OCDF	63		17 - 157	03/21/23 14:51	04/03/23 20:26	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	92		35 - 197	03/21/23 14:51	04/03/23 20:26	10

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.1		0.97	0.082	pg/g		03/21/23 14:51	04/03/23 23:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	67		24 - 169	03/21/23 14:51	04/03/23 23:05	1

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-NW-1.5-3

Lab Sample ID: 320-97305-155

Date Collected: 02/22/23 12:50

Matrix: Solid

Date Received: 03/02/23 09:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	103		35 - 197	03/21/23 14:51	04/03/23 23:05	1

Client Sample ID: DU-6-NW-0-1.5

Lab Sample ID: 320-97305-166

Date Collected: 02/22/23 12:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.90	J q	0.96	0.15	pg/g		03/21/23 14:51	03/26/23 23:21	1
Total TCDD	11	q	0.96	0.15	pg/g		03/21/23 14:51	03/26/23 23:21	1
1,2,3,7,8-PeCDD	2.5	J q	4.8	0.80	pg/g		03/21/23 14:51	03/26/23 23:21	1
Total PeCDD	26	q	4.8	0.80	pg/g		03/21/23 14:51	03/26/23 23:21	1
1,2,3,4,7,8-HxCDD	5.4		4.8	0.22	pg/g		03/21/23 14:51	03/26/23 23:21	1
1,2,3,6,7,8-HxCDD	29		4.8	0.19	pg/g		03/21/23 14:51	03/26/23 23:21	1
1,2,3,7,8,9-HxCDD	9.5		4.8	0.19	pg/g		03/21/23 14:51	03/26/23 23:21	1
Total HxCDD	200		4.8	0.20	pg/g		03/21/23 14:51	03/26/23 23:21	1
1,2,3,4,6,7,8-HpCDD	420	B	4.8	1.6	pg/g		03/21/23 14:51	03/26/23 23:21	1
Total HpCDD	1200	B	4.8	1.6	pg/g		03/21/23 14:51	03/26/23 23:21	1
Total TCDF	9.1	q	0.96	0.15	pg/g		03/21/23 14:51	03/26/23 23:21	1
1,2,3,7,8-PeCDF	1.0	J q	4.8	0.45	pg/g		03/21/23 14:51	03/26/23 23:21	1
2,3,4,7,8-PeCDF	1.4	J	4.8	0.49	pg/g		03/21/23 14:51	03/26/23 23:21	1
Total PeCDF	18	q	4.8	0.47	pg/g		03/21/23 14:51	03/26/23 23:21	1
1,2,3,4,7,8-HxCDF	4.2	J	4.8	0.92	pg/g		03/21/23 14:51	03/26/23 23:21	1
1,2,3,6,7,8-HxCDF	4.6	J	4.8	0.76	pg/g		03/21/23 14:51	03/26/23 23:21	1
2,3,4,6,7,8-HxCDF	4.2	J	4.8	0.88	pg/g		03/21/23 14:51	03/26/23 23:21	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.88	pg/g		03/21/23 14:51	03/26/23 23:21	1
Total HxCDF	130		4.8	0.86	pg/g		03/21/23 14:51	03/26/23 23:21	1
1,2,3,4,6,7,8-HpCDF	110	B	4.8	0.99	pg/g		03/21/23 14:51	03/26/23 23:21	1
1,2,3,4,7,8,9-HpCDF	5.3		4.8	1.1	pg/g		03/21/23 14:51	03/26/23 23:21	1
Total HpCDF	400	B	4.8	1.1	pg/g		03/21/23 14:51	03/26/23 23:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	80		25 - 164	03/21/23 14:51	03/26/23 23:21	1
13C-1,2,3,7,8-PeCDD	72		25 - 181	03/21/23 14:51	03/26/23 23:21	1
13C-1,2,3,4,7,8-HxCDD	58		32 - 141	03/21/23 14:51	03/26/23 23:21	1
13C-1,2,3,6,7,8-HxCDD	87		28 - 130	03/21/23 14:51	03/26/23 23:21	1
13C-1,2,3,4,6,7,8-HpCDD	53		23 - 140	03/21/23 14:51	03/26/23 23:21	1
13C-2,3,7,8-TCDF	63		24 - 169	03/21/23 14:51	03/26/23 23:21	1
13C-1,2,3,7,8-PeCDF	70		24 - 185	03/21/23 14:51	03/26/23 23:21	1
13C-2,3,4,7,8-PeCDF	67		21 - 178	03/21/23 14:51	03/26/23 23:21	1
13C-1,2,3,4,7,8-HxCDF	62		26 - 152	03/21/23 14:51	03/26/23 23:21	1
13C-1,2,3,6,7,8-HxCDF	82		26 - 123	03/21/23 14:51	03/26/23 23:21	1
13C-2,3,4,6,7,8-HxCDF	74		28 - 136	03/21/23 14:51	03/26/23 23:21	1
13C-1,2,3,7,8,9-HxCDF	72		29 - 147	03/21/23 14:51	03/26/23 23:21	1
13C-1,2,3,4,6,7,8-HpCDF	42		28 - 143	03/21/23 14:51	03/26/23 23:21	1
13C-1,2,3,4,7,8,9-HpCDF	40		26 - 138	03/21/23 14:51	03/26/23 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	95		35 - 197	03/21/23 14:51	03/26/23 23:21	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-NW-0-1.5

Lab Sample ID: 320-97305-166

Date Collected: 02/22/23 12:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	2800	B	48	2.5	pg/g		03/21/23 14:51	03/30/23 17:27	5
OCDF	330	B	48	0.91	pg/g		03/21/23 14:51	03/30/23 17:27	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-OCDD	69		17 - 157				03/21/23 14:51	03/30/23 17:27	5
13C-OCDF	70		17 - 157				03/21/23 14:51	03/30/23 17:27	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	93		35 - 197				03/21/23 14:51	03/30/23 17:27	5

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.0		0.96	0.38	pg/g		03/21/23 14:51	04/03/23 23:48	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	70		24 - 169				03/21/23 14:51	04/03/23 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	101		35 - 197				03/21/23 14:51	04/03/23 23:48	1

Client Sample ID: SB-08-N-0-1.5

Lab Sample ID: 320-97305-177

Date Collected: 02/23/23 13:05

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.98	0.021	pg/g		03/20/23 08:59	03/25/23 17:04	1
2,3,7,8-TCDF	0.078	J	0.98	0.0015	pg/g		03/20/23 08:59	03/25/23 17:04	1
1,2,3,7,8-PeCDD	ND		4.9	0.0095	pg/g		03/20/23 08:59	03/25/23 17:04	1
1,2,3,7,8-PeCDF	ND		4.9	0.0092	pg/g		03/20/23 08:59	03/25/23 17:04	1
2,3,4,7,8-PeCDF	ND		4.9	0.011	pg/g		03/20/23 08:59	03/25/23 17:04	1
1,2,3,4,7,8-HxCDD	0.29	J	4.9	0.027	pg/g		03/20/23 08:59	03/25/23 17:04	1
1,2,3,6,7,8-HxCDD	0.35	J q	4.9	0.027	pg/g		03/20/23 08:59	03/25/23 17:04	1
1,2,3,7,8,9-HxCDD	0.28	J q	4.9	0.025	pg/g		03/20/23 08:59	03/25/23 17:04	1
1,2,3,4,7,8-HxCDF	ND		4.9	0.014	pg/g		03/20/23 08:59	03/25/23 17:04	1
1,2,3,6,7,8-HxCDF	ND		4.9	0.014	pg/g		03/20/23 08:59	03/25/23 17:04	1
1,2,3,7,8,9-HxCDF	0.22	J B q	4.9	0.015	pg/g		03/20/23 08:59	03/25/23 17:04	1
2,3,4,6,7,8-HxCDF	ND		4.9	0.014	pg/g		03/20/23 08:59	03/25/23 17:04	1
1,2,3,4,6,7,8-HpCDD	6.1	B	4.9	0.067	pg/g		03/20/23 08:59	03/25/23 17:04	1
1,2,3,4,6,7,8-HpCDF	0.59	J B	4.9	0.019	pg/g		03/20/23 08:59	03/25/23 17:04	1
1,2,3,4,7,8,9-HpCDF	0.25	J B	4.9	0.019	pg/g		03/20/23 08:59	03/25/23 17:04	1
OCDD	42	B	9.8	0.13	pg/g		03/20/23 08:59	03/25/23 17:04	1
OCDF	2.1	J B q	9.8	0.043	pg/g		03/20/23 08:59	03/25/23 17:04	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	53		25 - 164				03/20/23 08:59	03/25/23 17:04	1
13C-2,3,7,8-TCDF	47		24 - 169				03/20/23 08:59	03/25/23 17:04	1
13C-1,2,3,7,8-PeCDD	57		25 - 181				03/20/23 08:59	03/25/23 17:04	1
13C-1,2,3,7,8-PeCDF	50		24 - 185				03/20/23 08:59	03/25/23 17:04	1
13C-2,3,4,7,8-PeCDF	46		21 - 178				03/20/23 08:59	03/25/23 17:04	1
13C-1,2,3,4,7,8-HxCDD	49		32 - 141				03/20/23 08:59	03/25/23 17:04	1
13C-1,2,3,6,7,8-HxCDD	51		28 - 130				03/20/23 08:59	03/25/23 17:04	1
13C-1,2,3,4,7,8-HxCDF	46		26 - 152				03/20/23 08:59	03/25/23 17:04	1

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-N-0-1.5

Lab Sample ID: 320-97305-177

Date Collected: 02/23/23 13:05

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	46		26 - 123	03/20/23 08:59	03/25/23 17:04	1
13C-2,3,4,6,7,8-HxCDF	46		28 - 136	03/20/23 08:59	03/25/23 17:04	1
13C-1,2,3,7,8,9-HxCDF	46		29 - 147	03/20/23 08:59	03/25/23 17:04	1
13C-1,2,3,4,6,7,8-HpCDD	51		23 - 140	03/20/23 08:59	03/25/23 17:04	1
13C-1,2,3,4,6,7,8-HpCDF	39		28 - 143	03/20/23 08:59	03/25/23 17:04	1
13C-1,2,3,4,7,8,9-HpCDF	47		26 - 138	03/20/23 08:59	03/25/23 17:04	1
13C-OCDD	38		17 - 157	03/20/23 08:59	03/25/23 17:04	1
13C-OCDF	37		17 - 157	03/20/23 08:59	03/25/23 17:04	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	76		35 - 197	03/20/23 08:59	03/25/23 17:04	1

General Chemistry

Analyte	Result	Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	12.0		0.1	0.1 %			03/03/23 10:11	1

Client Sample ID: SB-08-N-1.5-3

Lab Sample ID: 320-97305-178

Date Collected: 02/23/23 13:10

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.92	0.012	pg/g		03/20/23 08:59	03/25/23 17:52	1
2,3,7,8-TCDF	ND		0.92	0.0012	pg/g		03/20/23 08:59	03/25/23 17:52	1
1,2,3,7,8-PeCDD	ND		4.6	0.014	pg/g		03/20/23 08:59	03/25/23 17:52	1
1,2,3,7,8-PeCDF	ND		4.6	0.0049	pg/g		03/20/23 08:59	03/25/23 17:52	1
2,3,4,7,8-PeCDF	ND		4.6	0.0056	pg/g		03/20/23 08:59	03/25/23 17:52	1
1,2,3,4,7,8-HxCDD	0.16	J q	4.6	0.024	pg/g		03/20/23 08:59	03/25/23 17:52	1
1,2,3,6,7,8-HxCDD	0.33	J q	4.6	0.022	pg/g		03/20/23 08:59	03/25/23 17:52	1
1,2,3,7,8,9-HxCDD	ND		4.6	0.021	pg/g		03/20/23 08:59	03/25/23 17:52	1
1,2,3,4,7,8-HxCDF	ND		4.6	0.011	pg/g		03/20/23 08:59	03/25/23 17:52	1
1,2,3,6,7,8-HxCDF	ND		4.6	0.011	pg/g		03/20/23 08:59	03/25/23 17:52	1
1,2,3,7,8,9-HxCDF	0.062	J q B	4.6	0.012	pg/g		03/20/23 08:59	03/25/23 17:52	1
2,3,4,6,7,8-HxCDF	ND		4.6	0.010	pg/g		03/20/23 08:59	03/25/23 17:52	1
1,2,3,4,6,7,8-HpCDD	9.8	B	4.6	0.085	pg/g		03/20/23 08:59	03/25/23 17:52	1
1,2,3,4,6,7,8-HpCDF	0.54	J q B	4.6	0.023	pg/g		03/20/23 08:59	03/25/23 17:52	1
1,2,3,4,7,8,9-HpCDF	0.068	J B	4.6	0.025	pg/g		03/20/23 08:59	03/25/23 17:52	1
OCDD	62	B	9.2	0.13	pg/g		03/20/23 08:59	03/25/23 17:52	1
OCDF	0.81	J q B	9.2	0.018	pg/g		03/20/23 08:59	03/25/23 17:52	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDD	60		25 - 164	03/20/23 08:59	03/25/23 17:52	1			
13C-2,3,7,8-TCDF	50		24 - 169	03/20/23 08:59	03/25/23 17:52	1			
13C-1,2,3,7,8-PeCDD	62		25 - 181	03/20/23 08:59	03/25/23 17:52	1			
13C-1,2,3,7,8-PeCDF	55		24 - 185	03/20/23 08:59	03/25/23 17:52	1			
13C-2,3,4,7,8-PeCDF	53		21 - 178	03/20/23 08:59	03/25/23 17:52	1			
13C-1,2,3,4,7,8-HxCDD	60		32 - 141	03/20/23 08:59	03/25/23 17:52	1			
13C-1,2,3,6,7,8-HxCDD	64		28 - 130	03/20/23 08:59	03/25/23 17:52	1			
13C-1,2,3,4,7,8-HxCDF	56		26 - 152	03/20/23 08:59	03/25/23 17:52	1			
13C-1,2,3,6,7,8-HxCDF	58		26 - 123	03/20/23 08:59	03/25/23 17:52	1			
13C-2,3,4,6,7,8-HxCDF	57		28 - 136	03/20/23 08:59	03/25/23 17:52	1			

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-N-1.5-3

Lab Sample ID: 320-97305-178

Date Collected: 02/23/23 13:10

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,7,8,9-HxCDF	54		29 - 147	03/20/23 08:59	03/25/23 17:52	1
13C-1,2,3,4,6,7,8-HpCDD	59		23 - 140	03/20/23 08:59	03/25/23 17:52	1
13C-1,2,3,4,6,7,8-HpCDF	48		28 - 143	03/20/23 08:59	03/25/23 17:52	1
13C-1,2,3,4,7,8,9-HpCDF	55		26 - 138	03/20/23 08:59	03/25/23 17:52	1
13C-OCDD	43		17 - 157	03/20/23 08:59	03/25/23 17:52	1
13C-OCDF	41		17 - 157	03/20/23 08:59	03/25/23 17:52	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	81		35 - 197	03/20/23 08:59	03/25/23 17:52	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	10.9		0.1	0.1	%			03/03/23 10:11	1

Client Sample ID: SB-08-S-1-1.5

Lab Sample ID: 320-97305-179

Date Collected: 02/23/23 13:20

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.96	0.14	pg/g		03/20/23 08:59	03/25/23 18:40	1
1,2,3,7,8-PeCDD	2.3	J	4.8	0.48	pg/g		03/20/23 08:59	03/25/23 18:40	1
1,2,3,7,8-PeCDF	1.5	J	4.8	0.20	pg/g		03/20/23 08:59	03/25/23 18:40	1
2,3,4,7,8-PeCDF	1.5	J	4.8	0.24	pg/g		03/20/23 08:59	03/25/23 18:40	1
1,2,3,4,7,8-HxCDD	5.4		4.8	0.39	pg/g		03/20/23 08:59	03/25/23 18:40	1
1,2,3,6,7,8-HxCDD	17		4.8	0.37	pg/g		03/20/23 08:59	03/25/23 18:40	1
1,2,3,7,8,9-HxCDD	7.2		4.8	0.34	pg/g		03/20/23 08:59	03/25/23 18:40	1
1,2,3,4,7,8-HxCDF	3.5	J	4.8	0.26	pg/g		03/20/23 08:59	03/25/23 18:40	1
1,2,3,6,7,8-HxCDF	2.4	J	4.8	0.26	pg/g		03/20/23 08:59	03/25/23 18:40	1
1,2,3,7,8,9-HxCDF	0.27	J B	4.8	0.21	pg/g		03/20/23 08:59	03/25/23 18:40	1
2,3,4,6,7,8-HxCDF	2.2	J	4.8	0.22	pg/g		03/20/23 08:59	03/25/23 18:40	1
1,2,3,4,6,7,8-HpCDD	330	B	4.8	2.0	pg/g		03/20/23 08:59	03/25/23 18:40	1
1,2,3,4,6,7,8-HpCDF	65	B	4.8	0.65	pg/g		03/20/23 08:59	03/25/23 18:40	1
1,2,3,4,7,8,9-HpCDF	3.8	J B	4.8	0.55	pg/g		03/20/23 08:59	03/25/23 18:40	1
OCDD	2800	B	9.6	3.3	pg/g		03/20/23 08:59	03/25/23 18:40	1
OCDF	220	B	9.6	0.26	pg/g		03/20/23 08:59	03/25/23 18:40	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDD	68		25 - 164	03/20/23 08:59	03/25/23 18:40	1			
13C-2,3,7,8-TCDF	57		24 - 169	03/20/23 08:59	03/25/23 18:40	1			
13C-1,2,3,7,8-PeCDD	67		25 - 181	03/20/23 08:59	03/25/23 18:40	1			
13C-1,2,3,7,8-PeCDF	59		24 - 185	03/20/23 08:59	03/25/23 18:40	1			
13C-2,3,4,7,8-PeCDF	53		21 - 178	03/20/23 08:59	03/25/23 18:40	1			
13C-1,2,3,4,7,8-HxCDD	54		32 - 141	03/20/23 08:59	03/25/23 18:40	1			
13C-1,2,3,6,7,8-HxCDD	59		28 - 130	03/20/23 08:59	03/25/23 18:40	1			
13C-1,2,3,4,7,8-HxCDF	50		26 - 152	03/20/23 08:59	03/25/23 18:40	1			
13C-1,2,3,6,7,8-HxCDF	52		26 - 123	03/20/23 08:59	03/25/23 18:40	1			
13C-2,3,4,6,7,8-HxCDF	58		28 - 136	03/20/23 08:59	03/25/23 18:40	1			
13C-1,2,3,7,8,9-HxCDF	60		29 - 147	03/20/23 08:59	03/25/23 18:40	1			
13C-1,2,3,4,6,7,8-HpCDD	63		23 - 140	03/20/23 08:59	03/25/23 18:40	1			
13C-1,2,3,4,6,7,8-HpCDF	45		28 - 143	03/20/23 08:59	03/25/23 18:40	1			

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-S-1-1.5

Lab Sample ID: 320-97305-179

Date Collected: 02/23/23 13:20

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8,9-HpCDF	60		26 - 138	03/20/23 08:59	03/25/23 18:40	1
13C-OCDD	56		17 - 157	03/20/23 08:59	03/25/23 18:40	1
13C-OCDF	51		17 - 157	03/20/23 08:59	03/25/23 18:40	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	82		35 - 197	03/20/23 08:59	03/25/23 18:40	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.8		0.96	0.12	pg/g		03/20/23 08:59	03/31/23 14:51	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDF	66		24 - 169	03/20/23 08:59	03/31/23 14:51	1			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	92		35 - 197	03/20/23 08:59	03/31/23 14:51	1			

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	12.2		0.1	0.1	%			03/03/23 10:11	1

Client Sample ID: SB-08-S-1.5-3

Lab Sample ID: 320-97305-180

Date Collected: 02/23/23 13:25

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.94	0.026	pg/g		03/20/23 08:59	03/25/23 19:29	1
2,3,7,8-TCDF	0.47	J	0.94	0.020	pg/g		03/20/23 08:59	03/25/23 19:29	1
1,2,3,7,8-PeCDD	0.61	J	4.7	0.087	pg/g		03/20/23 08:59	03/25/23 19:29	1
1,2,3,7,8-PeCDF	0.50	J	4.7	0.065	pg/g		03/20/23 08:59	03/25/23 19:29	1
2,3,4,7,8-PeCDF	0.41	J	4.7	0.073	pg/g		03/20/23 08:59	03/25/23 19:29	1
1,2,3,4,7,8-HxCDD	0.99	J q	4.7	0.095	pg/g		03/20/23 08:59	03/25/23 19:29	1
1,2,3,6,7,8-HxCDD	11		4.7	0.096	pg/g		03/20/23 08:59	03/25/23 19:29	1
1,2,3,7,8,9-HxCDD	2.4	J q	4.7	0.087	pg/g		03/20/23 08:59	03/25/23 19:29	1
1,2,3,4,7,8-HxCDF	1.5	J	4.7	0.16	pg/g		03/20/23 08:59	03/25/23 19:29	1
1,2,3,6,7,8-HxCDF	1.0	J	4.7	0.15	pg/g		03/20/23 08:59	03/25/23 19:29	1
1,2,3,7,8,9-HxCDF	ND		4.7	0.13	pg/g		03/20/23 08:59	03/25/23 19:29	1
2,3,4,6,7,8-HxCDF	1.1	J	4.7	0.14	pg/g		03/20/23 08:59	03/25/23 19:29	1
1,2,3,4,6,7,8-HpCDD	150	B	4.7	0.32	pg/g		03/20/23 08:59	03/25/23 19:29	1
1,2,3,4,6,7,8-HpCDF	34	B	4.7	0.23	pg/g		03/20/23 08:59	03/25/23 19:29	1
1,2,3,4,7,8,9-HpCDF	1.4	J B	4.7	0.23	pg/g		03/20/23 08:59	03/25/23 19:29	1
OCDD	860	B	9.4	0.80	pg/g		03/20/23 08:59	03/25/23 19:29	1
OCDF	58	B	9.4	0.18	pg/g		03/20/23 08:59	03/25/23 19:29	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDD	60		25 - 164	03/20/23 08:59	03/25/23 19:29	1			
13C-2,3,7,8-TCDF	52		24 - 169	03/20/23 08:59	03/25/23 19:29	1			
13C-1,2,3,7,8-PeCDD	66		25 - 181	03/20/23 08:59	03/25/23 19:29	1			
13C-1,2,3,7,8-PeCDF	56		24 - 185	03/20/23 08:59	03/25/23 19:29	1			
13C-2,3,4,7,8-PeCDF	54		21 - 178	03/20/23 08:59	03/25/23 19:29	1			
13C-1,2,3,4,7,8-HxCDD	52		32 - 141	03/20/23 08:59	03/25/23 19:29	1			

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-S-1.5-3

Lab Sample ID: 320-97305-180

Date Collected: 02/23/23 13:25

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDD	58		28 - 130	03/20/23 08:59	03/25/23 19:29	1
13C-1,2,3,4,7,8-HxCDF	50		26 - 152	03/20/23 08:59	03/25/23 19:29	1
13C-1,2,3,6,7,8-HxCDF	54		26 - 123	03/20/23 08:59	03/25/23 19:29	1
13C-2,3,4,6,7,8-HxCDF	57		28 - 136	03/20/23 08:59	03/25/23 19:29	1
13C-1,2,3,7,8,9-HxCDF	56		29 - 147	03/20/23 08:59	03/25/23 19:29	1
13C-1,2,3,4,6,7,8-HpCDD	54		23 - 140	03/20/23 08:59	03/25/23 19:29	1
13C-1,2,3,4,6,7,8-HpCDF	43		28 - 143	03/20/23 08:59	03/25/23 19:29	1
13C-1,2,3,4,7,8,9-HpCDF	48		26 - 138	03/20/23 08:59	03/25/23 19:29	1
13C-OCDD	46		17 - 157	03/20/23 08:59	03/25/23 19:29	1
13C-OCDF	45		17 - 157	03/20/23 08:59	03/25/23 19:29	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	76		35 - 197	03/20/23 08:59	03/25/23 19:29	1

General Chemistry

Analyte	Result	Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	8.4		0.1	0.1 %			03/03/23 10:11	1

Client Sample ID: SB-08-W-0-1.5

Lab Sample ID: 320-97305-181

Date Collected: 02/23/23 13:25

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.96	0.062	pg/g		03/20/23 08:59	03/25/23 20:17	1
2,3,7,8-TCDF	ND		0.96	0.035	pg/g		03/20/23 08:59	03/25/23 20:17	1
1,2,3,7,8-PeCDD	ND		4.8	0.077	pg/g		03/20/23 08:59	03/25/23 20:17	1
1,2,3,7,8-PeCDF	ND		4.8	0.049	pg/g		03/20/23 08:59	03/25/23 20:17	1
2,3,4,7,8-PeCDF	ND		4.8	0.054	pg/g		03/20/23 08:59	03/25/23 20:17	1
1,2,3,4,7,8-HxCDD	ND		4.8	0.099	pg/g		03/20/23 08:59	03/25/23 20:17	1
1,2,3,6,7,8-HxCDD	ND		4.8	0.096	pg/g		03/20/23 08:59	03/25/23 20:17	1
1,2,3,7,8,9-HxCDD	ND		4.8	0.089	pg/g		03/20/23 08:59	03/25/23 20:17	1
1,2,3,4,7,8-HxCDF	ND		4.8	0.12	pg/g		03/20/23 08:59	03/25/23 20:17	1
1,2,3,6,7,8-HxCDF	ND		4.8	0.11	pg/g		03/20/23 08:59	03/25/23 20:17	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.10	pg/g		03/20/23 08:59	03/25/23 20:17	1
2,3,4,6,7,8-HxCDF	ND		4.8	0.10	pg/g		03/20/23 08:59	03/25/23 20:17	1
1,2,3,4,6,7,8-HpCDD	4.9	B	4.8	0.21	pg/g		03/20/23 08:59	03/25/23 20:17	1
1,2,3,4,6,7,8-HpCDF	ND		4.8	0.15	pg/g		03/20/23 08:59	03/25/23 20:17	1
1,2,3,4,7,8,9-HpCDF	ND		4.8	0.15	pg/g		03/20/23 08:59	03/25/23 20:17	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDD	60		25 - 164	03/20/23 08:59	03/25/23 20:17	1			
13C-2,3,7,8-TCDF	58		24 - 169	03/20/23 08:59	03/25/23 20:17	1			
13C-1,2,3,7,8-PeCDD	68		25 - 181	03/20/23 08:59	03/25/23 20:17	1			
13C-1,2,3,7,8-PeCDF	59		24 - 185	03/20/23 08:59	03/25/23 20:17	1			
13C-2,3,4,7,8-PeCDF	59		21 - 178	03/20/23 08:59	03/25/23 20:17	1			
13C-1,2,3,4,7,8-HxCDD	54		32 - 141	03/20/23 08:59	03/25/23 20:17	1			
13C-1,2,3,6,7,8-HxCDD	56		28 - 130	03/20/23 08:59	03/25/23 20:17	1			
13C-1,2,3,4,7,8-HxCDF	48		26 - 152	03/20/23 08:59	03/25/23 20:17	1			
13C-1,2,3,6,7,8-HxCDF	49		26 - 123	03/20/23 08:59	03/25/23 20:17	1			
13C-2,3,4,6,7,8-HxCDF	52		28 - 136	03/20/23 08:59	03/25/23 20:17	1			

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-W-0-1.5

Lab Sample ID: 320-97305-181

Date Collected: 02/23/23 13:25

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,7,8,9-HxCDF	55		29 - 147	03/20/23 08:59	03/25/23 20:17	1
13C-1,2,3,4,6,7,8-HpCDD	53		23 - 140	03/20/23 08:59	03/25/23 20:17	1
13C-1,2,3,4,6,7,8-HpCDF	41		28 - 143	03/20/23 08:59	03/25/23 20:17	1
13C-1,2,3,4,7,8,9-HpCDF	49		26 - 138	03/20/23 08:59	03/25/23 20:17	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	79		35 - 197	03/20/23 08:59	03/25/23 20:17	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	18	J B q	96	0.22	pg/g		03/20/23 08:59	04/03/23 14:49	10
OCDF	ND		96	0.30	pg/g		03/20/23 08:59	04/03/23 14:49	10
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-OCDD	43		17 - 157	03/20/23 08:59	04/03/23 14:49	10			
13C-OCDF	47		17 - 157	03/20/23 08:59	04/03/23 14:49	10			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	79		35 - 197	03/20/23 08:59	04/03/23 14:49	10			

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	12.7		0.1	0.1	%			03/03/23 10:11	1

Client Sample ID: SB-08-W-1.5-3

Lab Sample ID: 320-97305-182

Date Collected: 02/23/23 13:30

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.96	0.054	pg/g		03/20/23 08:59	03/25/23 21:05	1
1,2,3,7,8-PeCDD	1.1	J	4.8	0.21	pg/g		03/20/23 08:59	03/25/23 21:05	1
1,2,3,7,8-PeCDF	0.83	J	4.8	0.17	pg/g		03/20/23 08:59	03/25/23 21:05	1
2,3,4,7,8-PeCDF	0.82	J	4.8	0.19	pg/g		03/20/23 08:59	03/25/23 21:05	1
1,2,3,4,7,8-HxCDD	2.5	J	4.8	0.27	pg/g		03/20/23 08:59	03/25/23 21:05	1
1,2,3,6,7,8-HxCDD	13		4.8	0.27	pg/g		03/20/23 08:59	03/25/23 21:05	1
1,2,3,7,8,9-HxCDD	5.3		4.8	0.24	pg/g		03/20/23 08:59	03/25/23 21:05	1
1,2,3,4,7,8-HxCDF	2.4	J	4.8	0.30	pg/g		03/20/23 08:59	03/25/23 21:05	1
1,2,3,6,7,8-HxCDF	1.6	J	4.8	0.28	pg/g		03/20/23 08:59	03/25/23 21:05	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.26	pg/g		03/20/23 08:59	03/25/23 21:05	1
2,3,4,6,7,8-HxCDF	1.4	J	4.8	0.26	pg/g		03/20/23 08:59	03/25/23 21:05	1
1,2,3,4,6,7,8-HpCDD	300	B	4.8	0.76	pg/g		03/20/23 08:59	03/25/23 21:05	1
1,2,3,4,6,7,8-HpCDF	79	B	4.8	0.52	pg/g		03/20/23 08:59	03/25/23 21:05	1
1,2,3,4,7,8,9-HpCDF	3.3	J B	4.8	0.66	pg/g		03/20/23 08:59	03/25/23 21:05	1
OCDD	2000	B	9.6	1.8	pg/g		03/20/23 08:59	03/25/23 21:05	1
OCDF	300	B	9.6	0.46	pg/g		03/20/23 08:59	03/25/23 21:05	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDD	72		25 - 164	03/20/23 08:59	03/25/23 21:05	1			
13C-2,3,7,8-TCDF	63		24 - 169	03/20/23 08:59	03/25/23 21:05	1			
13C-1,2,3,7,8-PeCDD	76		25 - 181	03/20/23 08:59	03/25/23 21:05	1			
13C-1,2,3,7,8-PeCDF	66		24 - 185	03/20/23 08:59	03/25/23 21:05	1			

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-W-1.5-3

Lab Sample ID: 320-97305-182

Date Collected: 02/23/23 13:30

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,4,7,8-PeCDF	64		21 - 178	03/20/23 08:59	03/25/23 21:05	1
13C-1,2,3,4,7,8-HxCDD	66		32 - 141	03/20/23 08:59	03/25/23 21:05	1
13C-1,2,3,6,7,8-HxCDD	70		28 - 130	03/20/23 08:59	03/25/23 21:05	1
13C-1,2,3,4,7,8-HxCDF	60		26 - 152	03/20/23 08:59	03/25/23 21:05	1
13C-1,2,3,6,7,8-HxCDF	65		26 - 123	03/20/23 08:59	03/25/23 21:05	1
13C-2,3,4,6,7,8-HxCDF	65		28 - 136	03/20/23 08:59	03/25/23 21:05	1
13C-1,2,3,7,8,9-HxCDF	64		29 - 147	03/20/23 08:59	03/25/23 21:05	1
13C-1,2,3,4,6,7,8-HpCDD	69		23 - 140	03/20/23 08:59	03/25/23 21:05	1
13C-1,2,3,4,6,7,8-HpCDF	54		28 - 143	03/20/23 08:59	03/25/23 21:05	1
13C-1,2,3,4,7,8,9-HpCDF	51		26 - 138	03/20/23 08:59	03/25/23 21:05	1
13C-OCDD	59		17 - 157	03/20/23 08:59	03/25/23 21:05	1
13C-OCDF	56		17 - 157	03/20/23 08:59	03/25/23 21:05	1
Surrogate						
37Cl4-2,3,7,8-TCDD	88		35 - 197	03/20/23 08:59	03/25/23 21:05	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.79	J	0.96	0.11	pg/g		03/20/23 08:59	03/31/23 15:31	1
Isotope Dilution									
13C-2,3,7,8-TCDF	68		24 - 169				03/20/23 08:59	03/31/23 15:31	1
Surrogate									
37Cl4-2,3,7,8-TCDD	88		35 - 197				03/20/23 08:59	03/31/23 15:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	9.8		0.1	0.1	%			03/03/23 10:11	1

Client Sample ID: SB-08-E-0-1.5

Lab Sample ID: 320-97305-183

Date Collected: 02/23/23 13:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.067	J q	0.94	0.028	pg/g		03/20/23 08:59	03/25/23 21:53	1
2,3,7,8-TCDF	0.26	J	0.94	0.012	pg/g		03/20/23 08:59	03/25/23 21:53	1
1,2,3,7,8-PeCDD	ND		4.7	0.051	pg/g		03/20/23 08:59	03/25/23 21:53	1
1,2,3,7,8-PeCDF	ND		4.7	0.045	pg/g		03/20/23 08:59	03/25/23 21:53	1
2,3,4,7,8-PeCDF	ND		4.7	0.057	pg/g		03/20/23 08:59	03/25/23 21:53	1
1,2,3,4,7,8-HxCDD	0.37	J	4.7	0.091	pg/g		03/20/23 08:59	03/25/23 21:53	1
1,2,3,6,7,8-HxCDD	0.90	J q	4.7	0.087	pg/g		03/20/23 08:59	03/25/23 21:53	1
1,2,3,7,8,9-HxCDD	0.47	J q	4.7	0.081	pg/g		03/20/23 08:59	03/25/23 21:53	1
1,2,3,4,7,8-HxCDF	0.11	J q	4.7	0.090	pg/g		03/20/23 08:59	03/25/23 21:53	1
1,2,3,6,7,8-HxCDF	0.22	J	4.7	0.086	pg/g		03/20/23 08:59	03/25/23 21:53	1
1,2,3,7,8,9-HxCDF	ND		4.7	0.071	pg/g		03/20/23 08:59	03/25/23 21:53	1
2,3,4,6,7,8-HxCDF	0.12	J	4.7	0.068	pg/g		03/20/23 08:59	03/25/23 21:53	1
1,2,3,4,6,7,8-HpCDD	12	B	4.7	0.17	pg/g		03/20/23 08:59	03/25/23 21:53	1
1,2,3,4,6,7,8-HpCDF	3.3	J B	4.7	0.15	pg/g		03/20/23 08:59	03/25/23 21:53	1
1,2,3,4,7,8,9-HpCDF	ND		4.7	0.13	pg/g		03/20/23 08:59	03/25/23 21:53	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-E-0-1.5

Lab Sample ID: 320-97305-183

Date Collected: 02/23/23 13:40

Matrix: Solid

Date Received: 03/02/23 09:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	70		25 - 164	03/20/23 08:59	03/25/23 21:53	1
13C-2,3,7,8-TCDF	59		24 - 169	03/20/23 08:59	03/25/23 21:53	1
13C-1,2,3,7,8-PeCDD	75		25 - 181	03/20/23 08:59	03/25/23 21:53	1
13C-1,2,3,7,8-PeCDF	68		24 - 185	03/20/23 08:59	03/25/23 21:53	1
13C-2,3,4,7,8-PeCDF	60		21 - 178	03/20/23 08:59	03/25/23 21:53	1
13C-1,2,3,4,7,8-HxCDD	57		32 - 141	03/20/23 08:59	03/25/23 21:53	1
13C-1,2,3,6,7,8-HxCDD	61		28 - 130	03/20/23 08:59	03/25/23 21:53	1
13C-1,2,3,4,7,8-HxCDF	53		26 - 152	03/20/23 08:59	03/25/23 21:53	1
13C-1,2,3,6,7,8-HxCDF	54		26 - 123	03/20/23 08:59	03/25/23 21:53	1
13C-2,3,4,6,7,8-HxCDF	62		28 - 136	03/20/23 08:59	03/25/23 21:53	1
13C-1,2,3,7,8,9-HxCDF	64		29 - 147	03/20/23 08:59	03/25/23 21:53	1
13C-1,2,3,4,6,7,8-HpCDD	67		23 - 140	03/20/23 08:59	03/25/23 21:53	1
13C-1,2,3,4,6,7,8-HpCDF	48		28 - 143	03/20/23 08:59	03/25/23 21:53	1
13C-1,2,3,4,7,8,9-HpCDF	60		26 - 138	03/20/23 08:59	03/25/23 21:53	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	85		35 - 197	03/20/23 08:59	03/25/23 21:53	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	84	B	47	0.56	pg/g		03/20/23 08:59	03/29/23 22:41	5
OCDF	4.7	J B	47	0.42	pg/g		03/20/23 08:59	03/29/23 22:41	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-OCDD	65		17 - 157	03/20/23 08:59	03/29/23 22:41	5			
13C-OCDF	58		17 - 157	03/20/23 08:59	03/29/23 22:41	5			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	92		35 - 197	03/20/23 08:59	03/29/23 22:41	5			

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	19.2		0.1	0.1	%			03/03/23 10:11	1

Client Sample ID: SB-08-E-1.5-3

Lab Sample ID: 320-97305-184

Date Collected: 02/23/23 13:45

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.96	0.045	pg/g		03/20/23 08:59	03/26/23 11:49	1
2,3,7,8-TCDF	ND		0.96	0.024	pg/g		03/20/23 08:59	03/26/23 11:49	1
1,2,3,7,8-PeCDD	ND		4.8	0.23	pg/g		03/20/23 08:59	03/26/23 11:49	1
1,2,3,7,8-PeCDF	ND		4.8	0.062	pg/g		03/20/23 08:59	03/26/23 11:49	1
2,3,4,7,8-PeCDF	ND		4.8	0.076	pg/g		03/20/23 08:59	03/26/23 11:49	1
1,2,3,4,7,8-HxCDD	ND		4.8	0.33	pg/g		03/20/23 08:59	03/26/23 11:49	1
1,2,3,6,7,8-HxCDD	ND		4.8	0.32	pg/g		03/20/23 08:59	03/26/23 11:49	1
1,2,3,7,8,9-HxCDD	ND		4.8	0.30	pg/g		03/20/23 08:59	03/26/23 11:49	1
1,2,3,4,7,8-HxCDF	ND		4.8	0.28	pg/g		03/20/23 08:59	03/26/23 11:49	1
1,2,3,6,7,8-HxCDF	ND		4.8	0.26	pg/g		03/20/23 08:59	03/26/23 11:49	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.23	pg/g		03/20/23 08:59	03/26/23 11:49	1
2,3,4,6,7,8-HxCDF	ND		4.8	0.22	pg/g		03/20/23 08:59	03/26/23 11:49	1

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-E-1.5-3

Lab Sample ID: 320-97305-184

Date Collected: 02/23/23 13:45

Matrix: Solid

Date Received: 03/02/23 09:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	65		25 - 164	03/20/23 08:59	03/26/23 11:49	1
13C-2,3,7,8-TCDF	54		24 - 169	03/20/23 08:59	03/26/23 11:49	1
13C-1,2,3,7,8-PeCDD	69		25 - 181	03/20/23 08:59	03/26/23 11:49	1
13C-1,2,3,7,8-PeCDF	58		24 - 185	03/20/23 08:59	03/26/23 11:49	1
13C-2,3,4,7,8-PeCDF	52		21 - 178	03/20/23 08:59	03/26/23 11:49	1
13C-1,2,3,4,7,8-HxCDD	50		32 - 141	03/20/23 08:59	03/26/23 11:49	1
13C-1,2,3,6,7,8-HxCDD	62		28 - 130	03/20/23 08:59	03/26/23 11:49	1
13C-1,2,3,4,7,8-HxCDF	46		26 - 152	03/20/23 08:59	03/26/23 11:49	1
13C-1,2,3,6,7,8-HxCDF	54		26 - 123	03/20/23 08:59	03/26/23 11:49	1
13C-2,3,4,6,7,8-HxCDF	58		28 - 136	03/20/23 08:59	03/26/23 11:49	1
13C-1,2,3,7,8,9-HxCDF	57		29 - 147	03/20/23 08:59	03/26/23 11:49	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	76		35 - 197	03/20/23 08:59	03/26/23 11:49	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	3.6	J B	24	0.24	pg/g		03/20/23 08:59	03/29/23 23:29	5
1,2,3,4,6,7,8-HpCDF	0.98	J B	24	0.19	pg/g		03/20/23 08:59	03/29/23 23:29	5
1,2,3,4,7,8,9-HpCDF	ND		24	0.19	pg/g		03/20/23 08:59	03/29/23 23:29	5
OCDD	71	B	48	0.69	pg/g		03/20/23 08:59	03/29/23 23:29	5
OCDF	2.4	J B	48	0.32	pg/g		03/20/23 08:59	03/29/23 23:29	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-1,2,3,4,6,7,8-HpCDD	70		23 - 140	03/20/23 08:59	03/29/23 23:29	5			
13C-1,2,3,4,6,7,8-HpCDF	54		28 - 143	03/20/23 08:59	03/29/23 23:29	5			
13C-1,2,3,4,7,8,9-HpCDF	65		26 - 138	03/20/23 08:59	03/29/23 23:29	5			
13C-OCDD	69		17 - 157	03/20/23 08:59	03/29/23 23:29	5			
13C-OCDF	64		17 - 157	03/20/23 08:59	03/29/23 23:29	5			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	77		35 - 197	03/20/23 08:59	03/29/23 23:29	5			

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	7.8		0.1	0.1	%			03/03/23 10:11	1

Client Sample ID: EB-20230223

Lab Sample ID: 320-97305-185

Date Collected: 02/23/23 14:00

Matrix: Water

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		12	0.78	pg/L		03/16/23 07:03	03/23/23 05:07	1
2,3,7,8-TCDF	ND		12	0.34	pg/L		03/16/23 07:03	03/23/23 05:07	1
1,2,3,7,8-PeCDD	ND		59	0.42	pg/L		03/16/23 07:03	03/23/23 05:07	1
1,2,3,7,8-PeCDF	ND		59	0.29	pg/L		03/16/23 07:03	03/23/23 05:07	1
2,3,4,7,8-PeCDF	ND		59	0.35	pg/L		03/16/23 07:03	03/23/23 05:07	1
1,2,3,4,7,8-HxCDD	2.5	J B	59	0.39	pg/L		03/16/23 07:03	03/23/23 05:07	1
1,2,3,6,7,8-HxCDD	0.44	J B q	59	0.39	pg/L		03/16/23 07:03	03/23/23 05:07	1
1,2,3,7,8,9-HxCDD	ND		59	0.34	pg/L		03/16/23 07:03	03/23/23 05:07	1
1,2,3,4,7,8-HxCDF	ND		59	0.34	pg/L		03/16/23 07:03	03/23/23 05:07	1
1,2,3,6,7,8-HxCDF	ND		59	0.31	pg/L		03/16/23 07:03	03/23/23 05:07	1

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: EB-20230223

Lab Sample ID: 320-97305-185

Date Collected: 02/23/23 14:00

Matrix: Water

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-HxCDF	ND		59	0.29	pg/L		03/16/23 07:03	03/23/23 05:07	1
2,3,4,6,7,8-HxCDF	ND		59	0.28	pg/L		03/16/23 07:03	03/23/23 05:07	1
1,2,3,4,6,7,8-HpCDD	6.6	J B	59	0.38	pg/L		03/16/23 07:03	03/23/23 05:07	1
1,2,3,4,6,7,8-HpCDF	2.9	J B q	59	0.44	pg/L		03/16/23 07:03	03/23/23 05:07	1
1,2,3,4,7,8,9-HpCDF	ND		59	0.43	pg/L		03/16/23 07:03	03/23/23 05:07	1
OCDD	50	J B	120	0.46	pg/L		03/16/23 07:03	03/23/23 05:07	1
OCDF	8.8	J B q	120	0.41	pg/L		03/16/23 07:03	03/23/23 05:07	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	71		25 - 164				03/16/23 07:03	03/23/23 05:07	1
13C-2,3,7,8-TCDF	75		24 - 169				03/16/23 07:03	03/23/23 05:07	1
13C-1,2,3,7,8-PeCDD	72		25 - 181				03/16/23 07:03	03/23/23 05:07	1
13C-1,2,3,7,8-PeCDF	78		24 - 185				03/16/23 07:03	03/23/23 05:07	1
13C-2,3,4,7,8-PeCDF	74		21 - 178				03/16/23 07:03	03/23/23 05:07	1
13C-1,2,3,4,7,8-HxCDD	62		32 - 141				03/16/23 07:03	03/23/23 05:07	1
13C-1,2,3,6,7,8-HxCDD	70		28 - 130				03/16/23 07:03	03/23/23 05:07	1
13C-1,2,3,4,7,8-HxCDF	62		26 - 152				03/16/23 07:03	03/23/23 05:07	1
13C-1,2,3,6,7,8-HxCDF	72		26 - 123				03/16/23 07:03	03/23/23 05:07	1
13C-2,3,4,6,7,8-HxCDF	80		28 - 136				03/16/23 07:03	03/23/23 05:07	1
13C-1,2,3,7,8,9-HxCDF	83		29 - 147				03/16/23 07:03	03/23/23 05:07	1
13C-1,2,3,4,6,7,8-HpCDD	74		23 - 140				03/16/23 07:03	03/23/23 05:07	1
13C-1,2,3,4,6,7,8-HpCDF	65		28 - 143				03/16/23 07:03	03/23/23 05:07	1
13C-1,2,3,4,7,8,9-HpCDF	79		26 - 138				03/16/23 07:03	03/23/23 05:07	1
13C-OCDD	86		17 - 157				03/16/23 07:03	03/23/23 05:07	1
13C-OCDF	90		17 - 157				03/16/23 07:03	03/23/23 05:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	78		35 - 197				03/16/23 07:03	03/23/23 05:07	1

Client Sample ID: SB-08-0-1.5

Lab Sample ID: 320-97305-186

Date Collected: 02/23/23 12:50

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.97	0.23	pg/g		03/20/23 08:59	03/26/23 12:37	1
1,2,3,7,8-PeCDD	1.7	J q	4.8	0.57	pg/g		03/20/23 08:59	03/26/23 12:37	1
1,2,3,7,8-PeCDF	1.5	J	4.8	0.14	pg/g		03/20/23 08:59	03/26/23 12:37	1
2,3,4,7,8-PeCDF	1.2	J	4.8	0.18	pg/g		03/20/23 08:59	03/26/23 12:37	1
1,2,3,4,7,8-HxCDD	4.7	J	4.8	0.62	pg/g		03/20/23 08:59	03/26/23 12:37	1
1,2,3,6,7,8-HxCDD	9.2		4.8	0.65	pg/g		03/20/23 08:59	03/26/23 12:37	1
1,2,3,7,8,9-HxCDD	5.4	q	4.8	0.58	pg/g		03/20/23 08:59	03/26/23 12:37	1
1,2,3,4,7,8-HxCDF	2.4	J	4.8	0.24	pg/g		03/20/23 08:59	03/26/23 12:37	1
1,2,3,6,7,8-HxCDF	1.4	J	4.8	0.23	pg/g		03/20/23 08:59	03/26/23 12:37	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.19	pg/g		03/20/23 08:59	03/26/23 12:37	1
2,3,4,6,7,8-HxCDF	0.91	J q	4.8	0.19	pg/g		03/20/23 08:59	03/26/23 12:37	1
1,2,3,4,6,7,8-HpCDD	190	B	4.8	1.7	pg/g		03/20/23 08:59	03/26/23 12:37	1
1,2,3,4,6,7,8-HpCDF	28	B	4.8	0.56	pg/g		03/20/23 08:59	03/26/23 12:37	1
1,2,3,4,7,8,9-HpCDF	1.6	J q B	4.8	0.55	pg/g		03/20/23 08:59	03/26/23 12:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	42		25 - 164				03/20/23 08:59	03/26/23 12:37	1

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-0-1.5

Lab Sample ID: 320-97305-186

Date Collected: 02/23/23 12:50

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	33		24 - 169	03/20/23 08:59	03/26/23 12:37	1
13C-1,2,3,7,8-PeCDD	40		25 - 181	03/20/23 08:59	03/26/23 12:37	1
13C-1,2,3,7,8-PeCDF	35		24 - 185	03/20/23 08:59	03/26/23 12:37	1
13C-2,3,4,7,8-PeCDF	32		21 - 178	03/20/23 08:59	03/26/23 12:37	1
13C-1,2,3,4,7,8-HxCDD	33		32 - 141	03/20/23 08:59	03/26/23 12:37	1
13C-1,2,3,6,7,8-HxCDD	35		28 - 130	03/20/23 08:59	03/26/23 12:37	1
13C-1,2,3,4,7,8-HxCDF	28		26 - 152	03/20/23 08:59	03/26/23 12:37	1
13C-1,2,3,6,7,8-HxCDF	31		26 - 123	03/20/23 08:59	03/26/23 12:37	1
13C-2,3,4,6,7,8-HxCDF	35		28 - 136	03/20/23 08:59	03/26/23 12:37	1
13C-1,2,3,7,8,9-HxCDF	35		29 - 147	03/20/23 08:59	03/26/23 12:37	1
13C-1,2,3,4,6,7,8-HpCDD	35		23 - 140	03/20/23 08:59	03/26/23 12:37	1
13C-1,2,3,4,6,7,8-HpCDF	25	*5-	28 - 143	03/20/23 08:59	03/26/23 12:37	1
13C-1,2,3,4,7,8,9-HpCDF	31		26 - 138	03/20/23 08:59	03/26/23 12:37	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	47		35 - 197	03/20/23 08:59	03/26/23 12:37	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	1300	B	48	2.1	pg/g		03/20/23 08:59	03/30/23 00:18	5
OCDF	110	B	48	0.45	pg/g		03/20/23 08:59	03/30/23 00:18	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-OCDD	41		17 - 157	03/20/23 08:59	03/30/23 00:18	5			
13C-OCDF	37		17 - 157	03/20/23 08:59	03/30/23 00:18	5			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	49		35 - 197	03/20/23 08:59	03/30/23 00:18	5			

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.9		0.97	0.15	pg/g		03/20/23 08:59	03/31/23 16:17	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C-2,3,7,8-TCDF	36		24 - 169	03/20/23 08:59	03/31/23 16:17	1			
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
37Cl4-2,3,7,8-TCDD	48		35 - 197	03/20/23 08:59	03/31/23 16:17	1			

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	16.3		0.1	0.1	%			03/03/23 10:11	1

Client Sample ID: SB-08-1.5-3

Lab Sample ID: 320-97305-187

Date Collected: 02/23/23 12:55

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.83	J q	0.99	0.075	pg/g		03/20/23 08:59	03/25/23 22:41	1
1,2,3,7,8-PeCDD	ND		4.9	0.29	pg/g		03/20/23 08:59	03/25/23 22:41	1
1,2,3,7,8-PeCDF	2.6	J	4.9	0.31	pg/g		03/20/23 08:59	03/25/23 22:41	1
2,3,4,7,8-PeCDF	2.4	J	4.9	0.36	pg/g		03/20/23 08:59	03/25/23 22:41	1

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Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-1.5-3

Lab Sample ID: 320-97305-187

Date Collected: 02/23/23 12:55

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDD	6.1		4.9	0.53	pg/g		03/20/23 08:59	03/25/23 22:41	1
1,2,3,6,7,8-HxCDD	44		4.9	0.51	pg/g		03/20/23 08:59	03/25/23 22:41	1
1,2,3,7,8,9-HxCDD	15		4.9	0.47	pg/g		03/20/23 08:59	03/25/23 22:41	1
1,2,3,4,7,8-HxCDF	6.4		4.9	0.55	pg/g		03/20/23 08:59	03/25/23 22:41	1
1,2,3,6,7,8-HxCDF	5.2		4.9	0.53	pg/g		03/20/23 08:59	03/25/23 22:41	1
1,2,3,7,8,9-HxCDF	ND		4.9	0.46	pg/g		03/20/23 08:59	03/25/23 22:41	1
2,3,4,6,7,8-HxCDF	4.3	J	4.9	0.46	pg/g		03/20/23 08:59	03/25/23 22:41	1
1,2,3,4,6,7,8-HpCDD	660	B	4.9	1.7	pg/g		03/20/23 08:59	03/25/23 22:41	1
1,2,3,4,6,7,8-HpCDF	95	B	4.9	0.77	pg/g		03/20/23 08:59	03/25/23 22:41	1
1,2,3,4,7,8,9-HpCDF	4.6	J B	4.9	0.85	pg/g		03/20/23 08:59	03/25/23 22:41	1
OCDD	6300	E B	9.9	4.3	pg/g		03/20/23 08:59	03/25/23 22:41	1
OCDF	150	B	9.9	0.35	pg/g		03/20/23 08:59	03/25/23 22:41	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	70		25 - 164				03/20/23 08:59	03/25/23 22:41	1
13C-2,3,7,8-TCDF	61		24 - 169				03/20/23 08:59	03/25/23 22:41	1
13C-1,2,3,7,8-PeCDD	74		25 - 181				03/20/23 08:59	03/25/23 22:41	1
13C-1,2,3,7,8-PeCDF	65		24 - 185				03/20/23 08:59	03/25/23 22:41	1
13C-2,3,4,7,8-PeCDF	62		21 - 178				03/20/23 08:59	03/25/23 22:41	1
13C-1,2,3,4,7,8-HxCDD	60		32 - 141				03/20/23 08:59	03/25/23 22:41	1
13C-1,2,3,6,7,8-HxCDD	65		28 - 130				03/20/23 08:59	03/25/23 22:41	1
13C-1,2,3,4,7,8-HxCDF	56		26 - 152				03/20/23 08:59	03/25/23 22:41	1
13C-1,2,3,6,7,8-HxCDF	58		26 - 123				03/20/23 08:59	03/25/23 22:41	1
13C-2,3,4,6,7,8-HxCDF	62		28 - 136				03/20/23 08:59	03/25/23 22:41	1
13C-1,2,3,7,8,9-HxCDF	64		29 - 147				03/20/23 08:59	03/25/23 22:41	1
13C-1,2,3,4,6,7,8-HpCDD	67		23 - 140				03/20/23 08:59	03/25/23 22:41	1
13C-1,2,3,4,6,7,8-HpCDF	51		28 - 143				03/20/23 08:59	03/25/23 22:41	1
13C-1,2,3,4,7,8,9-HpCDF	52		26 - 138				03/20/23 08:59	03/25/23 22:41	1
13C-OCDD	61		17 - 157				03/20/23 08:59	03/25/23 22:41	1
13C-OCDF	57		17 - 157				03/20/23 08:59	03/25/23 22:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	84		35 - 197				03/20/23 08:59	03/25/23 22:41	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.5		0.99	0.17	pg/g		03/20/23 08:59	03/31/23 16:57	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	63		24 - 169				03/20/23 08:59	03/31/23 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	87		35 - 197				03/20/23 08:59	03/31/23 16:57	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	10.8		0.1	0.1	%			03/03/23 10:11	1

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-X

Lab Sample ID: 320-97305-193

Date Collected: 02/21/23 13:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.58	J	0.95	0.10	pg/g		03/21/23 14:51	03/27/23 00:09	1
Total TCDD	14		0.95	0.10	pg/g		03/21/23 14:51	03/27/23 00:09	1
1,2,3,7,8-PeCDD	ND		4.8	0.50	pg/g		03/21/23 14:51	03/27/23 00:09	1
Total PeCDD	17	q	4.8	0.50	pg/g		03/21/23 14:51	03/27/23 00:09	1
1,2,3,4,7,8-HxCDD	1.2	J q	4.8	0.50	pg/g		03/21/23 14:51	03/27/23 00:09	1
1,2,3,6,7,8-HxCDD	6.9		4.8	0.49	pg/g		03/21/23 14:51	03/27/23 00:09	1
1,2,3,7,8,9-HxCDD	3.8	J	4.8	0.45	pg/g		03/21/23 14:51	03/27/23 00:09	1
Total HxCDD	92	q	4.8	0.48	pg/g		03/21/23 14:51	03/27/23 00:09	1
1,2,3,4,6,7,8-HpCDD	180	B	4.8	1.6	pg/g		03/21/23 14:51	03/27/23 00:09	1
Total HpCDD	560	B	4.8	1.6	pg/g		03/21/23 14:51	03/27/23 00:09	1
Total TCDF	14	q	0.95	0.14	pg/g		03/21/23 14:51	03/27/23 00:09	1
1,2,3,7,8-PeCDF	1.8	J	4.8	0.20	pg/g		03/21/23 14:51	03/27/23 00:09	1
2,3,4,7,8-PeCDF	1.2	J	4.8	0.23	pg/g		03/21/23 14:51	03/27/23 00:09	1
Total PeCDF	8.8	q	4.8	0.21	pg/g		03/21/23 14:51	03/27/23 00:09	1
1,2,3,4,7,8-HxCDF	4.0	J	4.8	0.42	pg/g		03/21/23 14:51	03/27/23 00:09	1
1,2,3,6,7,8-HxCDF	3.5	J	4.8	0.39	pg/g		03/21/23 14:51	03/27/23 00:09	1
2,3,4,6,7,8-HxCDF	1.0	J q	4.8	0.35	pg/g		03/21/23 14:51	03/27/23 00:09	1
1,2,3,7,8,9-HxCDF	0.43	J q	4.8	0.34	pg/g		03/21/23 14:51	03/27/23 00:09	1
Total HxCDF	44	q	4.8	0.38	pg/g		03/21/23 14:51	03/27/23 00:09	1
1,2,3,4,6,7,8-HpCDF	35	B	4.8	0.61	pg/g		03/21/23 14:51	03/27/23 00:09	1
1,2,3,4,7,8,9-HpCDF	3.7	J	4.8	0.61	pg/g		03/21/23 14:51	03/27/23 00:09	1
Total HpCDF	150	B	4.8	0.61	pg/g		03/21/23 14:51	03/27/23 00:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	78		25 - 164	03/21/23 14:51	03/27/23 00:09	1
13C-1,2,3,7,8-PeCDD	76		25 - 181	03/21/23 14:51	03/27/23 00:09	1
13C-1,2,3,4,7,8-HxCDD	65		32 - 141	03/21/23 14:51	03/27/23 00:09	1
13C-1,2,3,6,7,8-HxCDD	71		28 - 130	03/21/23 14:51	03/27/23 00:09	1
13C-1,2,3,4,6,7,8-HpCDD	57		23 - 140	03/21/23 14:51	03/27/23 00:09	1
13C-2,3,7,8-TCDF	65		24 - 169	03/21/23 14:51	03/27/23 00:09	1
13C-1,2,3,7,8-PeCDF	67		24 - 185	03/21/23 14:51	03/27/23 00:09	1
13C-2,3,4,7,8-PeCDF	67		21 - 178	03/21/23 14:51	03/27/23 00:09	1
13C-1,2,3,4,7,8-HxCDF	58		26 - 152	03/21/23 14:51	03/27/23 00:09	1
13C-1,2,3,6,7,8-HxCDF	66		26 - 123	03/21/23 14:51	03/27/23 00:09	1
13C-2,3,4,6,7,8-HxCDF	67		28 - 136	03/21/23 14:51	03/27/23 00:09	1
13C-1,2,3,7,8,9-HxCDF	69		29 - 147	03/21/23 14:51	03/27/23 00:09	1
13C-1,2,3,4,6,7,8-HpCDF	47		28 - 143	03/21/23 14:51	03/27/23 00:09	1
13C-1,2,3,4,7,8,9-HpCDF	52		26 - 138	03/21/23 14:51	03/27/23 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	95		35 - 197	03/21/23 14:51	03/27/23 00:09	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	3000	B	95	3.2	pg/g		03/21/23 14:51	04/03/23 21:14	10
OCDF	150	B	95	0.49	pg/g		03/21/23 14:51	04/03/23 21:14	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-OCDD	78		17 - 157	03/21/23 14:51	04/03/23 21:14	10
13C-OCDF	74		17 - 157	03/21/23 14:51	04/03/23 21:14	10

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Client Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-X
Date Collected: 02/21/23 13:40
Date Received: 03/02/23 09:20

Lab Sample ID: 320-97305-193
Matrix: Solid

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
37Cl4-2,3,7,8-TCDD	96		35 - 197				03/21/23 14:51	04/03/23 21:14	10
Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA									
<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>EDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,3,7,8-TCDF	2.4		0.95	0.090	pg/g		03/21/23 14:51	04/04/23 00:32	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C-2,3,7,8-TCDF	71		24 - 169				03/21/23 14:51	04/04/23 00:32	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
37Cl4-2,3,7,8-TCDD	99		35 - 197				03/21/23 14:51	04/04/23 00:32	1

Surrogate Summary

Client: Stantec Consulting Corp.
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	37TCDD (35-197)	Percent Surrogate Recovery (Acceptance Limits)			
320-97305-1	DU-5-SE-0-1.5	100				
320-97305-1 - RA	DU-5-SE-0-1.5	87				
320-97305-1 MS	DU-5-SE-0-1.5	94				
320-97305-1 MS	DU-5-SE-0-1.5	97				
320-97305-1 MSD	DU-5-SE-0-1.5	100				
320-97305-1 MSD	DU-5-SE-0-1.5	103				
320-97305-12	DU-5-SE-1.5-3	96				
320-97305-12 - DL	DU-5-SE-1.5-3	99				
320-97305-12 - RA	DU-5-SE-1.5-3	96				
320-97305-23	DU-5-SW-1.5-3	94				
320-97305-23 - DL	DU-5-SW-1.5-3	101				
320-97305-23 - RA	DU-5-SW-1.5-3	94				
320-97305-34	DU-5-SW-0-1.5	96				
320-97305-34 - DL	DU-5-SW-0-1.5	94				
320-97305-45	DU-5-NE-1.5-3	94				
320-97305-45 - DL	DU-5-NE-1.5-3	97				
320-97305-45 - RA	DU-5-NE-1.5-3	98				
320-97305-56	DU-5-NE-0-1.5	86				
320-97305-56 - DL	DU-5-NE-0-1.5	102				
320-97305-56 - RA	DU-5-NE-0-1.5	89				
320-97305-67	DU-5-NW-0-1.5	90				
320-97305-67 - RA	DU-5-NW-0-1.5	96				
320-97305-67 - DL	DU-5-NW-0-1.5	95				
320-97305-78	DU-5-NW-1.5-3	94				
320-97305-78 - RA	DU-5-NW-1.5-3	100				
320-97305-78 - DL	DU-5-NW-1.5-3	91				
320-97305-89	DU-6-SE-1.5-3	85				
320-97305-89 - DL	DU-6-SE-1.5-3	89				
320-97305-100	DU-6-SE-0-1.5	96				
320-97305-100 - RA	DU-6-SE-0-1.5	103				
320-97305-111	DU-6-SW-1.5-3	92				
320-97305-111 - DL	DU-6-SW-1.5-3	99				
320-97305-111 - RA	DU-6-SW-1.5-3	102				
320-97305-122	DU-6-SW-0-1.5	92				
320-97305-122 - DL	DU-6-SW-0-1.5	91				
320-97305-122 - RA	DU-6-SW-0-1.5	95				
320-97305-133	DU-6-NE-0-1.5	94				
320-97305-133 - DL	DU-6-NE-0-1.5	95				
320-97305-133 - RA	DU-6-NE-0-1.5	95				
320-97305-144	DU-6-NE-1.5-3	93				
320-97305-144 - DL	DU-6-NE-1.5-3	92				
320-97305-155	DU-6-NW-1.5-3	93				
320-97305-155 - DL	DU-6-NW-1.5-3	92				
320-97305-155 - RA	DU-6-NW-1.5-3	103				
320-97305-166	DU-6-NW-0-1.5	95				
320-97305-166 - DL	DU-6-NW-0-1.5	93				
320-97305-166 - RA	DU-6-NW-0-1.5	101				
320-97305-177	SB-08-N-0-1.5	76				
320-97305-178	SB-08-N-1.5-3	81				

Surrogate Summary

Client: Stantec Consulting Corp.
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	37TCDD (35-197)
320-97305-179	SB-08-S-1-1.5	82
320-97305-179 - RA	SB-08-S-1-1.5	92
320-97305-180	SB-08-S-1.5-3	76
320-97305-181	SB-08-W-0-1.5	79
320-97305-181 - DL	SB-08-W-0-1.5	79
320-97305-182	SB-08-W-1.5-3	88
320-97305-182 - RA	SB-08-W-1.5-3	88
320-97305-183	SB-08-E-0-1.5	85
320-97305-183 - DL	SB-08-E-0-1.5	92
320-97305-184	SB-08-E-1.5-3	76
320-97305-184 - DL	SB-08-E-1.5-3	77
320-97305-186	SB-08-0-1.5	47
320-97305-186 - DL	SB-08-0-1.5	49
320-97305-186 - RA	SB-08-0-1.5	48
320-97305-187	SB-08-1.5-3	84
320-97305-187 - RA	SB-08-1.5-3	87
320-97305-187 MS	SB-08-1.5-3	77
320-97305-187 MS - RA	SB-08-1.5-3	80
320-97305-187 MSD	SB-08-1.5-3	95
320-97305-187 MSD - RA	SB-08-1.5-3	87
320-97305-193	DU-5-X	95
320-97305-193 - DL	DU-5-X	96
320-97305-193 - RA	DU-5-X	99
MB 320-661996/1-A	Method Blank	85
MB 320-662426/1-A	Method Blank	92

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	37TCDD (31-191)
LCS 320-661996/2-A	Lab Control Sample	74
LCS 320-662426/2-A	Lab Control Sample	91

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	37TCDD (35-197)
320-97305-185	EB-20230223	78
MB 320-661244/1-A	Method Blank	85

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

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Surrogate Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	37TCDD (31-191)
LCS 320-661244/2-A	Lab Control Sample	87
LCSD 320-661244/3-A	Lab Control Sample Dup	82

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Isotope Dilution Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		TCDD (25-164)	PeCDD (25-181)	HxCDD (32-141)	HxDD (28-130)	HpCDD (23-140)	OCDD (17-157)	TCDF (24-169)	PeCDF (24-185)
320-97305-1	DU-5-SE-0-1.5	77	86	71	67	73	69	78	81
320-97305-1 - RA	DU-5-SE-0-1.5							74	
320-97305-1 MS	DU-5-SE-0-1.5							66	
320-97305-1 MS	DU-5-SE-0-1.5	64	79	65	73	77	77	70	73
320-97305-1 MSD	DU-5-SE-0-1.5							69	
320-97305-1 MSD	DU-5-SE-0-1.5	73	83	63	64	72	65	80	76
320-97305-12	DU-5-SE-1.5-3	69	72	58	58			59	60
320-97305-12 - DL	DU-5-SE-1.5-3					74	68		
320-97305-12 - RA	DU-5-SE-1.5-3							65	
320-97305-23	DU-5-SW-1.5-3	74	77	62	66	61		61	65
320-97305-23 - DL	DU-5-SW-1.5-3						65		
320-97305-23 - RA	DU-5-SW-1.5-3							73	
320-97305-34	DU-5-SW-0-1.5	73	68	59	77	43		57	61
320-97305-34 - DL	DU-5-SW-0-1.5						58		
320-97305-45	DU-5-NE-1.5-3	70	74	60	65			56	61
320-97305-45 - DL	DU-5-NE-1.5-3					66	63		
320-97305-45 - RA	DU-5-NE-1.5-3							69	
320-97305-56	DU-5-NE-0-1.5	71	71	47	83	48		57	61
320-97305-56 - DL	DU-5-NE-0-1.5						58		
320-97305-56 - RA	DU-5-NE-0-1.5							69	
320-97305-67	DU-5-NW-0-1.5	73	71	66	68	50		62	64
320-97305-67 - RA	DU-5-NW-0-1.5							71	
320-97305-67 - DL	DU-5-NW-0-1.5						68		
320-97305-78	DU-5-NW-1.5-3	62	65	52	55			54	54
320-97305-78 - RA	DU-5-NW-1.5-3							62	
320-97305-78 - DL	DU-5-NW-1.5-3					54	49		
320-97305-89	DU-6-SE-1.5-3	60	61	50	57	50		51	53
320-97305-89 - DL	DU-6-SE-1.5-3						52		
320-97305-100	DU-6-SE-0-1.5	66	73	62	64	58	53	59	62
320-97305-100 - RA	DU-6-SE-0-1.5							66	
320-97305-111	DU-6-SW-1.5-3	69	67	60	62	61		56	61
320-97305-111 - DL	DU-6-SW-1.5-3						64		
320-97305-111 - RA	DU-6-SW-1.5-3							65	
320-97305-122	DU-6-SW-0-1.5	84	81	59	93	60		68	72
320-97305-122 - DL	DU-6-SW-0-1.5						71		
320-97305-122 - RA	DU-6-SW-0-1.5							73	
320-97305-133	DU-6-NE-0-1.5	85	93	67	91	62		71	79
320-97305-133 - DL	DU-6-NE-0-1.5						80		
320-97305-133 - RA	DU-6-NE-0-1.5							78	
320-97305-144	DU-6-NE-1.5-3	59	58	50	52	48		50	50
320-97305-144 - DL	DU-6-NE-1.5-3						43		
320-97305-155	DU-6-NW-1.5-3	73	73	61	65	62		61	65
320-97305-155 - DL	DU-6-NW-1.5-3						64		
320-97305-155 - RA	DU-6-NW-1.5-3							67	
320-97305-166	DU-6-NW-0-1.5	80	72	58	87	53		63	70
320-97305-166 - DL	DU-6-NW-0-1.5						69		
320-97305-166 - RA	DU-6-NW-0-1.5							70	
320-97305-177	SB-08-N-0-1.5	53	57	49	51	51	38	47	50
320-97305-178	SB-08-N-1.5-3	60	62	60	64	59	43	50	55

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Isotope Dilution Summary

Client: Stantec Consulting Corp.
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		TCDD (25-164)	PeCDD (25-181)	HxCDD (32-141)	HxDD (28-130)	HpCDD (23-140)	OCDD (17-157)	TCDF (24-169)	PeCDF (24-185)
320-97305-179	SB-08-S-1-1.5	68	67	54	59	63	56	57	59
320-97305-179 - RA	SB-08-S-1-1.5							66	
320-97305-180	SB-08-S-1.5-3	60	66	52	58	54	46	52	56
320-97305-181	SB-08-W-0-1.5	60	68	54	56	53		58	59
320-97305-181 - DL	SB-08-W-0-1.5						43		
320-97305-182	SB-08-W-1.5-3	72	76	66	70	69	59	63	66
320-97305-182 - RA	SB-08-W-1.5-3							68	
320-97305-183	SB-08-E-0-1.5	70	75	57	61	67		59	68
320-97305-183 - DL	SB-08-E-0-1.5						65		
320-97305-184	SB-08-E-1.5-3	65	69	50	62			54	58
320-97305-184 - DL	SB-08-E-1.5-3					70	69		
320-97305-186	SB-08-0-1.5	42	40	33	35	35		33	35
320-97305-186 - DL	SB-08-0-1.5						41		
320-97305-186 - RA	SB-08-0-1.5							36	
320-97305-187	SB-08-1.5-3	70	74	60	65	67	61	61	65
320-97305-187 - RA	SB-08-1.5-3							63	
320-97305-187 MS	SB-08-1.5-3	61	63	53	57	56	49	52	56
320-97305-187 MS - RA	SB-08-1.5-3							57	
320-97305-187 MSD	SB-08-1.5-3	80	85	71	70	73	72	75	74
320-97305-187 MSD - RA	SB-08-1.5-3							72	
320-97305-193	DU-5-X	78	76	65	71	57		65	67
320-97305-193 - DL	DU-5-X						78		
320-97305-193 - RA	DU-5-X							71	
MB 320-661996/1-A	Method Blank	71	74	65	68	68	56	58	65
MB 320-662426/1-A	Method Blank	69	71	63	70	69	57	61	63

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PeCF (21-178)	HxCDF (26-152)	HxDF (26-123)	13CHxCF (28-136)	HxCF (29-147)	HpCDF (28-143)	HpCDF2 (26-138)	OCDF (17-157)
320-97305-1	DU-5-SE-0-1.5	76	65	65	73	73	57	44	67
320-97305-1 - RA	DU-5-SE-0-1.5								
320-97305-1 MS	DU-5-SE-0-1.5								
320-97305-1 MS	DU-5-SE-0-1.5	64	60	68	66	79	60	52 q	74
320-97305-1 MSD	DU-5-SE-0-1.5								
320-97305-1 MSD	DU-5-SE-0-1.5	74	61	62	67	74	56	44	64
320-97305-12	DU-5-SE-1.5-3	60	50	54	58	59			
320-97305-12 - DL	DU-5-SE-1.5-3						55	70	67
320-97305-12 - RA	DU-5-SE-1.5-3								
320-97305-23	DU-5-SW-1.5-3	62	54	58	63	64	46	53	
320-97305-23 - DL	DU-5-SW-1.5-3								61
320-97305-23 - RA	DU-5-SW-1.5-3								
320-97305-34	DU-5-SW-0-1.5	58	58	79	72	62	32	35	
320-97305-34 - DL	DU-5-SW-0-1.5								58
320-97305-45	DU-5-NE-1.5-3	61	53	57	60	59			
320-97305-45 - DL	DU-5-NE-1.5-3						54	63	63
320-97305-45 - RA	DU-5-NE-1.5-3								
320-97305-56	DU-5-NE-0-1.5	58	46	75	67	66	37	35	
320-97305-56 - DL	DU-5-NE-0-1.5								59
320-97305-56 - RA	DU-5-NE-0-1.5								
320-97305-67	DU-5-NW-0-1.5	62	66	68	73	66	40	43	
320-97305-67 - RA	DU-5-NW-0-1.5								

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Isotope Dilution Summary

Client: Stantec Consulting Corp.
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							OCDF (17-157)
		PeCF (21-178)	HxCDF (26-152)	HxDF (26-123)	¹³ CHxCF (28-136)	HxCF (29-147)	HpCDF (28-143)	HpCDF2 (26-138)	
320-97305-67 - DL	DU-5-NW-0-1.5								64
320-97305-78	DU-5-NW-1.5-3	53	46	48	52	53			
320-97305-78 - RA	DU-5-NW-1.5-3								
320-97305-78 - DL	DU-5-NW-1.5-3						41	52	49
320-97305-89	DU-6-SE-1.5-3	51	45	49	52	52	38	46	
320-97305-89 - DL	DU-6-SE-1.5-3								52
320-97305-100	DU-6-SE-0-1.5	62	54	57	60	63	48	36	53
320-97305-100 - RA	DU-6-SE-0-1.5								
320-97305-111	DU-6-SW-1.5-3	59	54	57	60	60	47	55	
320-97305-111 - DL	DU-6-SW-1.5-3								64
320-97305-111 - RA	DU-6-SW-1.5-3								
320-97305-122	DU-6-SW-0-1.5	69	58	93	80	78	42	45	
320-97305-122 - DL	DU-6-SW-0-1.5								72
320-97305-122 - RA	DU-6-SW-0-1.5								
320-97305-133	DU-6-NE-0-1.5	77	65	85	80	81	53	46	
320-97305-133 - DL	DU-6-NE-0-1.5								80
320-97305-133 - RA	DU-6-NE-0-1.5								
320-97305-144	DU-6-NE-1.5-3	51	44	47	49	51	35	43	
320-97305-144 - DL	DU-6-NE-1.5-3								47
320-97305-155	DU-6-NW-1.5-3	61	55	61	62	62	46	55	
320-97305-155 - DL	DU-6-NW-1.5-3								63
320-97305-155 - RA	DU-6-NW-1.5-3								
320-97305-166	DU-6-NW-0-1.5	67	62	82	74	72	42	40	
320-97305-166 - DL	DU-6-NW-0-1.5								70
320-97305-166 - RA	DU-6-NW-0-1.5								
320-97305-177	SB-08-N-0-1.5	46	46	46	46	46	39	47	37
320-97305-178	SB-08-N-1.5-3	53	56	58	57	54	48	55	41
320-97305-179	SB-08-S-1-1.5	53	50	52	58	60	45	60	51
320-97305-179 - RA	SB-08-S-1-1.5								
320-97305-180	SB-08-S-1.5-3	54	50	54	57	56	43	48	45
320-97305-181	SB-08-W-0-1.5	59	48	49	52	55	41	49	
320-97305-181 - DL	SB-08-W-0-1.5								47
320-97305-182	SB-08-W-1.5-3	64	60	65	65	64	54	51	56
320-97305-182 - RA	SB-08-W-1.5-3								
320-97305-183	SB-08-E-0-1.5	60	53	54	62	64	48	60	
320-97305-183 - DL	SB-08-E-0-1.5								58
320-97305-184	SB-08-E-1.5-3	52	46	54	58	57			
320-97305-184 - DL	SB-08-E-1.5-3						54	65	64
320-97305-186	SB-08-0-1.5	32	28	31	35	35	25 *5-	31	
320-97305-186 - DL	SB-08-0-1.5								37
320-97305-186 - RA	SB-08-0-1.5								
320-97305-187	SB-08-1.5-3	62	56	58	62	64	51	52	57
320-97305-187 - RA	SB-08-1.5-3								
320-97305-187 MS	SB-08-1.5-3	51	51	53	56	55	44	44	48
320-97305-187 MS - RA	SB-08-1.5-3								
320-97305-187 MSD	SB-08-1.5-3	74	66	68	73	74	50	56	69
320-97305-187 MSD - RA	SB-08-1.5-3								
320-97305-193	DU-5-X	67	58	66	67	69	47	52	
320-97305-193 - DL	DU-5-X								74
320-97305-193 - RA	DU-5-X								

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Isotope Dilution Summary

Client: Stantec Consulting Corp.
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PeCF (21-178)	HxCDF (26-152)	HxDF (26-123)	13CHxCF (28-136)	HxCF (29-147)	HpCDF (28-143)	HpCDF2 (26-138)	OCDF (17-157)
MB 320-661996/1-A	Method Blank	61	63	61	62	61	56	61	52
MB 320-662426/1-A	Method Blank	60	61	64	65	64	54	59	54

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
 PeCDD = 13C-1,2,3,7,8-PeCDD
 HxCDD = 13C-1,2,3,4,7,8-HxCDD
 HxDD = 13C-1,2,3,6,7,8-HxCDD
 HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
 OCDD = 13C-OCDD
 TCDF = 13C-2,3,7,8-TCDF
 PeCDF = 13C-1,2,3,7,8-PeCDF
 PeCF = 13C-2,3,4,7,8-PeCDF
 HxCDF = 13C-1,2,3,4,7,8-HxCDF
 HxDF = 13C-1,2,3,6,7,8-HxCDF
 13CHxCF = 13C-2,3,4,6,7,8-HxCDF
 HxCF = 13C-1,2,3,7,8,9-HxCDF
 HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
 HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
 OCDF = 13C-OCDF

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCDD (20-175)	PeCDD (21-227)	HxCDD (21-193)	HxDD (25-163)	HpCDD (26-166)	TCDF (22-152)	OCDD (13-199)	PeCDF (21-192)
LCS 320-661996/2-A	Lab Control Sample	58	59	58	61	57	47	47	53
LCS 320-662426/2-A	Lab Control Sample	70	76	69	70	72	65	63	67

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PeCF (13-328)	HxCDF (19-202)	HxDF (21-159)	13CHxCF (22-176)	HxCF (17-205)	HpCDF (21-158)	HpCDF2 (20-186)	OCDF (13-199)
LCS 320-661996/2-A	Lab Control Sample	51	55	56	54	51	48	51	44
LCS 320-662426/2-A	Lab Control Sample	64	61	63	66	67	59	63	60

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
 PeCDD = 13C-1,2,3,7,8-PeCDD
 HxCDD = 13C-1,2,3,4,7,8-HxCDD
 HxDD = 13C-1,2,3,6,7,8-HxCDD
 HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
 TCDF = 13C-2,3,7,8-TCDF
 OCDD = 13C-OCDD
 PeCDF = 13C-1,2,3,7,8-PeCDF
 PeCF = 13C-2,3,4,7,8-PeCDF
 HxCDF = 13C-1,2,3,4,7,8-HxCDF
 HxDF = 13C-1,2,3,6,7,8-HxCDF
 13CHxCF = 13C-2,3,4,6,7,8-HxCDF
 HxCF = 13C-1,2,3,7,8,9-HxCDF
 HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
 HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF

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Isotope Dilution Summary

Client: Stantec Consulting Corp.
 Project/Site: Ko'Kwel Wharf Property
 OCDF = 13C-OCDF

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCDD (25-164)	TCDF (24-169)	PeCDD (25-181)	PeCDF (24-185)	PeCF (21-178)	HxCDD (32-141)	HxDD (28-130)	HxCDF (26-152)
320-97305-185	EB-20230223	71	75	72	78	74	62	70	62
MB 320-661244/1-A	Method Blank	70	73	72	76	73	66	69	61

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HxDF (26-123)	13CHxCF (28-136)	HxCF (29-147)	HpCDD (23-140)	HpCDF (28-143)	HpCDF2 (26-138)	OCDD (17-157)	OCDF (17-157)
320-97305-185	EB-20230223	72	80	83	74	65	79	86	90
MB 320-661244/1-A	Method Blank	73	81	83	67	62	72	82	85

Surrogate Legend

- TCDD = 13C-2,3,7,8-TCDD
- TCDF = 13C-2,3,7,8-TCDF
- PeCDD = 13C-1,2,3,7,8-PeCDD
- PeCDF = 13C-1,2,3,7,8-PeCDF
- PeCF = 13C-2,3,4,7,8-PeCDF
- HxCDD = 13C-1,2,3,4,7,8-HxCDD
- HxDD = 13C-1,2,3,6,7,8-HxCDD
- HxCDF = 13C-1,2,3,4,7,8-HxCDF
- HxDF = 13C-1,2,3,6,7,8-HxCDF
- 13CHxCF = 13C-2,3,4,6,7,8-HxCDF
- HxCF = 13C-1,2,3,7,8,9-HxCDF
- HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
- HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
- HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
- OCDD = 13C-OCDD
- OCDF = 13C-OCDF

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCDD (20-175)	PeCDD (21-227)	HxCDD (21-193)	HxDD (25-163)	HpCDD (26-166)	TCDF (22-152)	OCDD (13-199)	PeCDF (21-192)
LCS 320-661244/2-A	Lab Control Sample	71	68	65	69	69	72	82	73
LCSD 320-661244/3-A	Lab Control Sample Dup	70	71	61	69	71	73	85	75

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PeCF (13-328)	HxCDF (19-202)	HxDF (21-159)	13CHxCF (22-176)	HxCF (17-205)	HpCDF (21-158)	HpCDF2 (20-186)	OCDF (13-199)
LCS 320-661244/2-A	Lab Control Sample	70	65	72	78	83	63	75	84
LCSD 320-661244/3-A	Lab Control Sample Dup	71	60	70	79	81	62	76	88

Surrogate Legend

- TCDD = 13C-2,3,7,8-TCDD
- PeCDD = 13C-1,2,3,7,8-PeCDD
- HxCDD = 13C-1,2,3,4,7,8-HxCDD
- HxDD = 13C-1,2,3,6,7,8-HxCDD
- HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
- TCDF = 13C-2,3,7,8-TCDF
- OCDD = 13C-OCDD
- PeCDF = 13C-1,2,3,7,8-PeCDF

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Isotope Dilution Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

PeCF = 13C-2,3,4,7,8-PeCDF
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDF = 13C-OCDF

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-661244/1-A
Matrix: Water
Analysis Batch: 662732

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661244

Analyte	MB	MB	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	ND		10	0.96	pg/L		03/16/23 07:03	03/22/23 23:34	1
1,2,3,7,8-PeCDD	ND		50	0.49	pg/L		03/16/23 07:03	03/22/23 23:34	1
1,2,3,4,7,8-HxCDD	2.52	J	50	0.51	pg/L		03/16/23 07:03	03/22/23 23:34	1
1,2,3,6,7,8-HxCDD	0.678	J q	50	0.50	pg/L		03/16/23 07:03	03/22/23 23:34	1
1,2,3,7,8,9-HxCDD	0.887	J	50	0.45	pg/L		03/16/23 07:03	03/22/23 23:34	1
2,3,7,8-TCDF	ND		10	0.41	pg/L		03/16/23 07:03	03/22/23 23:34	1
1,2,3,4,6,7,8-HpCDD	9.70	J	50	0.55	pg/L		03/16/23 07:03	03/22/23 23:34	1
1,2,3,7,8-PeCDF	ND		50	0.39	pg/L		03/16/23 07:03	03/22/23 23:34	1
2,3,4,7,8-PeCDF	ND		50	0.44	pg/L		03/16/23 07:03	03/22/23 23:34	1
OCDD	55.1	J	100	0.52	pg/L		03/16/23 07:03	03/22/23 23:34	1
1,2,3,4,7,8-HxCDF	ND		50	0.55	pg/L		03/16/23 07:03	03/22/23 23:34	1
1,2,3,6,7,8-HxCDF	ND		50	0.49	pg/L		03/16/23 07:03	03/22/23 23:34	1
2,3,4,6,7,8-HxCDF	ND		50	0.42	pg/L		03/16/23 07:03	03/22/23 23:34	1
1,2,3,7,8,9-HxCDF	0.802	J q	50	0.48	pg/L		03/16/23 07:03	03/22/23 23:34	1
1,2,3,4,6,7,8-HpCDF	6.57	J q	50	0.80	pg/L		03/16/23 07:03	03/22/23 23:34	1
1,2,3,4,7,8,9-HpCDF	ND		50	0.80	pg/L		03/16/23 07:03	03/22/23 23:34	1
OCDF	17.1	J	100	0.53	pg/L		03/16/23 07:03	03/22/23 23:34	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C-2,3,7,8-TCDD	70		25 - 164	03/16/23 07:03	03/22/23 23:34	1
13C-1,2,3,7,8-PeCDD	72		25 - 181	03/16/23 07:03	03/22/23 23:34	1
13C-1,2,3,4,7,8-HxCDD	66		32 - 141	03/16/23 07:03	03/22/23 23:34	1
13C-1,2,3,6,7,8-HxCDD	69		28 - 130	03/16/23 07:03	03/22/23 23:34	1
13C-1,2,3,4,6,7,8-HpCDD	67		23 - 140	03/16/23 07:03	03/22/23 23:34	1
13C-2,3,7,8-TCDF	73		24 - 169	03/16/23 07:03	03/22/23 23:34	1
13C-1,2,3,7,8-PeCDF	76		24 - 185	03/16/23 07:03	03/22/23 23:34	1
13C-OCDD	82		17 - 157	03/16/23 07:03	03/22/23 23:34	1
13C-2,3,4,7,8-PeCDF	73		21 - 178	03/16/23 07:03	03/22/23 23:34	1
13C-1,2,3,4,7,8-HxCDF	61		26 - 152	03/16/23 07:03	03/22/23 23:34	1
13C-1,2,3,6,7,8-HxCDF	73		26 - 123	03/16/23 07:03	03/22/23 23:34	1
13C-2,3,4,6,7,8-HxCDF	81		28 - 136	03/16/23 07:03	03/22/23 23:34	1
13C-1,2,3,7,8,9-HxCDF	83		29 - 147	03/16/23 07:03	03/22/23 23:34	1
13C-1,2,3,4,6,7,8-HpCDF	62		28 - 143	03/16/23 07:03	03/22/23 23:34	1
13C-1,2,3,4,7,8,9-HpCDF	72		26 - 138	03/16/23 07:03	03/22/23 23:34	1
13C-OCDF	85		17 - 157	03/16/23 07:03	03/22/23 23:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
37Cl4-2,3,7,8-TCDD	85		35 - 197	03/16/23 07:03	03/22/23 23:34	1

Lab Sample ID: LCS 320-661244/2-A
Matrix: Water
Analysis Batch: 662732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3,7,8-PeCDD	1000	953		pg/L		95	70 - 142
1,2,3,4,7,8-HxCDD	1000	918		pg/L		92	70 - 164
1,2,3,6,7,8-HxCDD	1000	980		pg/L		98	76 - 134

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QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-661244/2-A
Matrix: Water
Analysis Batch: 662732

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3,7,8,9-HxCDD	1000	1010		pg/L		101	64 - 162
2,3,7,8-TCDF	200	214		pg/L		107	75 - 158
1,2,3,4,6,7,8-HpCDD	1000	963		pg/L		96	70 - 140
1,2,3,7,8-PeCDF	1000	964		pg/L		96	80 - 134
2,3,4,7,8-PeCDF	1000	969		pg/L		97	68 - 160
OCDD	2000	1990		pg/L		99	78 - 144
1,2,3,4,7,8-HxCDF	1000	941		pg/L		94	72 - 134
1,2,3,6,7,8-HxCDF	1000	963		pg/L		96	84 - 130
2,3,4,6,7,8-HxCDF	1000	945		pg/L		95	70 - 156
1,2,3,7,8,9-HxCDF	1000	940		pg/L		94	78 - 130
1,2,3,4,6,7,8-HpCDF	1000	1000		pg/L		100	82 - 122
1,2,3,4,7,8,9-HpCDF	1000	960		pg/L		96	78 - 138
OCDF	2000	2000		pg/L		100	63 - 170

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-2,3,7,8-TCDD	71		20 - 175
13C-1,2,3,7,8-PeCDD	68		21 - 227
13C-1,2,3,4,7,8-HxCDD	65		21 - 193
13C-1,2,3,6,7,8-HxCDD	69		25 - 163
13C-1,2,3,4,6,7,8-HpCDD	69		26 - 166
13C-2,3,7,8-TCDF	72		22 - 152
13C-1,2,3,7,8-PeCDF	73		21 - 192
13C-OCDD	82		13 - 199
13C-2,3,4,7,8-PeCDF	70		13 - 328
13C-1,2,3,4,7,8-HxCDF	65		19 - 202
13C-1,2,3,6,7,8-HxCDF	72		21 - 159
13C-2,3,4,6,7,8-HxCDF	78		22 - 176
13C-1,2,3,7,8,9-HxCDF	83		17 - 205
13C-1,2,3,4,6,7,8-HpCDF	63		21 - 158
13C-1,2,3,4,7,8,9-HpCDF	75		20 - 186
13C-OCDF	84		13 - 199

Surrogate	LCS %Recovery	LCS Qualifier	Limits
37Cl4-2,3,7,8-TCDD	87		31 - 191

Lab Sample ID: LCSD 320-661244/3-A
Matrix: Water
Analysis Batch: 662732

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661244

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDD	200	196		pg/L		98	67 - 158	2	50
1,2,3,7,8-PeCDD	1000	938		pg/L		94	70 - 142	2	50
1,2,3,4,7,8-HxCDD	1000	929		pg/L		93	70 - 164	1	50
1,2,3,6,7,8-HxCDD	1000	948		pg/L		95	76 - 134	3	50
1,2,3,7,8,9-HxCDD	1000	1050		pg/L		105	64 - 162	3	50
2,3,7,8-TCDF	200	212		pg/L		106	75 - 158	1	50
1,2,3,4,6,7,8-HpCDD	1000	939		pg/L		94	70 - 140	3	50
1,2,3,7,8-PeCDF	1000	953		pg/L		95	80 - 134	1	50

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QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-661244/3-A
Matrix: Water
Analysis Batch: 662732

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 661244

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,4,7,8-PeCDF	1000	974		pg/L		97	68 - 160	0	50
OCDD	2000	1910		pg/L		95	78 - 144	4	50
1,2,3,4,7,8-HxCDF	1000	939		pg/L		94	72 - 134	0	50
1,2,3,6,7,8-HxCDF	1000	954		pg/L		95	84 - 130	1	50
2,3,4,6,7,8-HxCDF	1000	947		pg/L		95	70 - 156	0	50
1,2,3,7,8,9-HxCDF	1000	936		pg/L		94	78 - 130	0	50
1,2,3,4,6,7,8-HpCDF	1000	996		pg/L		100	82 - 122	1	50
1,2,3,4,7,8,9-HpCDF	1000	940		pg/L		94	78 - 138	2	50
OCDF	2000	1930		pg/L		96	63 - 170	4	50

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C-2,3,7,8-TCDD	70		20 - 175
13C-1,2,3,7,8-PeCDD	71		21 - 227
13C-1,2,3,4,7,8-HxCDD	61		21 - 193
13C-1,2,3,6,7,8-HxCDD	69		25 - 163
13C-1,2,3,4,6,7,8-HpCDD	71		26 - 166
13C-2,3,7,8-TCDF	73		22 - 152
13C-1,2,3,7,8-PeCDF	75		21 - 192
13C-OCDD	85		13 - 199
13C-2,3,4,7,8-PeCDF	71		13 - 328
13C-1,2,3,4,7,8-HxCDF	60		19 - 202
13C-1,2,3,6,7,8-HxCDF	70		21 - 159
13C-2,3,4,6,7,8-HxCDF	79		22 - 176
13C-1,2,3,7,8,9-HxCDF	81		17 - 205
13C-1,2,3,4,6,7,8-HpCDF	62		21 - 158
13C-1,2,3,4,7,8,9-HpCDF	76		20 - 186
13C-OCDF	88		13 - 199

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
37Cl4-2,3,7,8-TCDD	82		31 - 191

Lab Sample ID: MB 320-661996/1-A
Matrix: Solid
Analysis Batch: 663407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661996

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.0	0.015	pg/g		03/20/23 08:59	03/25/23 15:28	1
1,2,3,7,8-PeCDD	ND		5.0	0.0085	pg/g		03/20/23 08:59	03/25/23 15:28	1
1,2,3,4,7,8-HxCDD	ND		5.0	0.0048	pg/g		03/20/23 08:59	03/25/23 15:28	1
1,2,3,6,7,8-HxCDD	ND		5.0	0.0046	pg/g		03/20/23 08:59	03/25/23 15:28	1
1,2,3,7,8,9-HxCDD	ND		5.0	0.0043	pg/g		03/20/23 08:59	03/25/23 15:28	1
2,3,7,8-TCDF	ND		1.0	0.0013	pg/g		03/20/23 08:59	03/25/23 15:28	1
1,2,3,4,6,7,8-HpCDD	0.269	J	5.0	0.0049	pg/g		03/20/23 08:59	03/25/23 15:28	1
1,2,3,7,8-PeCDF	ND		5.0	0.0058	pg/g		03/20/23 08:59	03/25/23 15:28	1
2,3,4,7,8-PeCDF	ND		5.0	0.0068	pg/g		03/20/23 08:59	03/25/23 15:28	1
OCDD	1.44	J	10	0.0096	pg/g		03/20/23 08:59	03/25/23 15:28	1
1,2,3,4,7,8-HxCDF	ND		5.0	0.0055	pg/g		03/20/23 08:59	03/25/23 15:28	1
1,2,3,6,7,8-HxCDF	ND		5.0	0.0057	pg/g		03/20/23 08:59	03/25/23 15:28	1

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QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-661996/1-A
Matrix: Solid
Analysis Batch: 663407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661996

Analyte	MB	MB	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,4,6,7,8-HxCDF	ND		5.0	0.0054	pg/g		03/20/23 08:59	03/25/23 15:28	1
1,2,3,7,8,9-HxCDF	0.139	J q	5.0	0.0058	pg/g		03/20/23 08:59	03/25/23 15:28	1
1,2,3,4,6,7,8-HpCDF	0.232	J q	5.0	0.011	pg/g		03/20/23 08:59	03/25/23 15:28	1
1,2,3,4,7,8,9-HpCDF	0.163	J q	5.0	0.013	pg/g		03/20/23 08:59	03/25/23 15:28	1
OCDF	0.625	J	10	0.015	pg/g		03/20/23 08:59	03/25/23 15:28	1
MB MB									
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
13C-2,3,7,8-TCDD	71		25 - 164			03/20/23 08:59	03/25/23 15:28	1	
13C-1,2,3,7,8-PeCDD	74		25 - 181			03/20/23 08:59	03/25/23 15:28	1	
13C-1,2,3,4,7,8-HxCDD	65		32 - 141			03/20/23 08:59	03/25/23 15:28	1	
13C-1,2,3,6,7,8-HxCDD	68		28 - 130			03/20/23 08:59	03/25/23 15:28	1	
13C-1,2,3,4,6,7,8-HpCDD	68		23 - 140			03/20/23 08:59	03/25/23 15:28	1	
13C-2,3,7,8-TCDF	58		24 - 169			03/20/23 08:59	03/25/23 15:28	1	
13C-1,2,3,7,8-PeCDF	65		24 - 185			03/20/23 08:59	03/25/23 15:28	1	
13C-OCDD	56		17 - 157			03/20/23 08:59	03/25/23 15:28	1	
13C-2,3,4,7,8-PeCDF	61		21 - 178			03/20/23 08:59	03/25/23 15:28	1	
13C-1,2,3,4,7,8-HxCDF	63		26 - 152			03/20/23 08:59	03/25/23 15:28	1	
13C-1,2,3,6,7,8-HxCDF	61		26 - 123			03/20/23 08:59	03/25/23 15:28	1	
13C-2,3,4,6,7,8-HxCDF	62		28 - 136			03/20/23 08:59	03/25/23 15:28	1	
13C-1,2,3,7,8,9-HxCDF	61		29 - 147			03/20/23 08:59	03/25/23 15:28	1	
13C-1,2,3,4,6,7,8-HpCDF	56		28 - 143			03/20/23 08:59	03/25/23 15:28	1	
13C-1,2,3,4,7,8,9-HpCDF	61		26 - 138			03/20/23 08:59	03/25/23 15:28	1	
13C-OCDF	52		17 - 157			03/20/23 08:59	03/25/23 15:28	1	
MB MB									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
37Cl4-2,3,7,8-TCDD	85		35 - 197			03/20/23 08:59	03/25/23 15:28	1	

Lab Sample ID: LCS 320-661996/2-A
Matrix: Solid
Analysis Batch: 663407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661996

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,3,7,8-TCDD	20.0	16.2		pg/g		81	67 - 158		
1,2,3,7,8-PeCDD	100	84.9		pg/g		85	70 - 142		
1,2,3,4,7,8-HxCDD	100	80.0		pg/g		80	70 - 164		
1,2,3,6,7,8-HxCDD	100	86.3		pg/g		86	76 - 134		
1,2,3,7,8,9-HxCDD	100	81.4		pg/g		81	64 - 162		
2,3,7,8-TCDF	20.0	17.8		pg/g		89	75 - 158		
1,2,3,4,6,7,8-HpCDD	100	82.4		pg/g		82	70 - 140		
1,2,3,7,8-PeCDF	100	80.8		pg/g		81	80 - 134		
2,3,4,7,8-PeCDF	100	81.8		pg/g		82	68 - 160		
OCDD	200	171		pg/g		86	78 - 144		
1,2,3,4,7,8-HxCDF	100	85.2		pg/g		85	72 - 134		
1,2,3,6,7,8-HxCDF	100	86.0		pg/g		86	84 - 130		
2,3,4,6,7,8-HxCDF	100	85.5		pg/g		85	70 - 156		
1,2,3,7,8,9-HxCDF	100	87.1		pg/g		87	78 - 130		
1,2,3,4,6,7,8-HpCDF	100	87.0		pg/g		87	82 - 122		
1,2,3,4,7,8,9-HpCDF	100	85.8		pg/g		86	78 - 138		

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QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-661996/2-A
Matrix: Solid
Analysis Batch: 663407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661996

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
OCDF	200	174		pg/g		87	63 - 170
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
13C-2,3,7,8-TCDD	58		20 - 175				
13C-1,2,3,7,8-PeCDD	59		21 - 227				
13C-1,2,3,4,7,8-HxCDD	58		21 - 193				
13C-1,2,3,6,7,8-HxCDD	61		25 - 163				
13C-1,2,3,4,6,7,8-HpCDD	57		26 - 166				
13C-2,3,7,8-TCDF	47		22 - 152				
13C-1,2,3,7,8-PeCDF	53		21 - 192				
13C-OCDD	47		13 - 199				
13C-2,3,4,7,8-PeCDF	51		13 - 328				
13C-1,2,3,4,7,8-HxCDF	55		19 - 202				
13C-1,2,3,6,7,8-HxCDF	56		21 - 159				
13C-2,3,4,6,7,8-HxCDF	54		22 - 176				
13C-1,2,3,7,8,9-HxCDF	51		17 - 205				
13C-1,2,3,4,6,7,8-HpCDF	48		21 - 158				
13C-1,2,3,4,7,8,9-HpCDF	51		20 - 186				
13C-OCDF	44		13 - 199				
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
37Cl4-2,3,7,8-TCDD	74		31 - 191				

Lab Sample ID: 320-97305-187 MS
Matrix: Solid
Analysis Batch: 663407

Client Sample ID: SB-08-1.5-3
Prep Type: Total/NA
Prep Batch: 661996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDD	0.83	J q	19.4	16.9		pg/g		83	67 - 158
1,2,3,7,8-PeCDD	ND		97.0	88.1		pg/g		91	70 - 142
1,2,3,7,8-PeCDF	2.6	J	97.0	83.5		pg/g		83	80 - 134
2,3,4,7,8-PeCDF	2.4	J	97.0	86.0		pg/g		86	68 - 160
1,2,3,4,7,8-HxCDD	6.1		97.0	86.2		pg/g		83	70 - 164
1,2,3,6,7,8-HxCDD	44		97.0	124		pg/g		82	76 - 134
1,2,3,7,8,9-HxCDD	15		97.0	102		pg/g		90	64 - 162
1,2,3,4,7,8-HxCDF	6.4		97.0	91.1		pg/g		87	72 - 134
1,2,3,6,7,8-HxCDF	5.2		97.0	92.6		pg/g		90	84 - 130
1,2,3,7,8,9-HxCDF	ND		97.0	91.2		pg/g		94	78 - 130
2,3,4,6,7,8-HxCDF	4.3	J	97.0	90.6		pg/g		89	70 - 156
1,2,3,4,6,7,8-HpCDD	660	B	97.0	610	4	pg/g		-53	70 - 140
1,2,3,4,6,7,8-HpCDF	95	B	97.0	174		pg/g		82	82 - 122
1,2,3,4,7,8,9-HpCDF	4.6	J B	97.0	95.8		pg/g		94	78 - 138
OCDD	6300	E B	194	5100	E 4	pg/g		-627	78 - 144
OCDF	150	B	194	357		pg/g		105	63 - 170
MS MS									
Isotope Dilution	%Recovery	Qualifier	Limits						
13C-2,3,7,8-TCDD	61		25 - 164						
13C-2,3,7,8-TCDF	52		24 - 169						

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: 320-97305-187 MS
Matrix: Solid
Analysis Batch: 663407

Client Sample ID: SB-08-1.5-3
Prep Type: Total/NA
Prep Batch: 661996

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
13C-1,2,3,7,8-PeCDD	63		25 - 181
13C-1,2,3,7,8-PeCDF	56		24 - 185
13C-2,3,4,7,8-PeCDF	51		21 - 178
13C-1,2,3,4,7,8-HxCDD	53		32 - 141
13C-1,2,3,6,7,8-HxCDD	57		28 - 130
13C-1,2,3,4,7,8-HxCDF	51		26 - 152
13C-1,2,3,6,7,8-HxCDF	53		26 - 123
13C-2,3,4,6,7,8-HxCDF	56		28 - 136
13C-1,2,3,7,8,9-HxCDF	55		29 - 147
13C-1,2,3,4,6,7,8-HpCDD	56		23 - 140
13C-1,2,3,4,6,7,8-HpCDF	44		28 - 143
13C-1,2,3,4,7,8,9-HpCDF	44		26 - 138
13C-OCDD	49		17 - 157
13C-OCDF	48		17 - 157

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
37Cl4-2,3,7,8-TCDD	77		35 - 197

Lab Sample ID: 320-97305-187 MSD
Matrix: Solid
Analysis Batch: 664305

Client Sample ID: SB-08-1.5-3
Prep Type: Total/NA
Prep Batch: 661996

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
2,3,7,8-TCDD	0.83	J q	19.6	18.4		pg/g		90	67 - 158	8	50
1,2,3,7,8-PeCDD	ND		97.8	93.2		pg/g		95	70 - 142	6	50
1,2,3,7,8-PeCDF	2.6	J	97.8	91.3		pg/g		91	80 - 134	9	50
2,3,4,7,8-PeCDF	2.4	J	97.8	89.7		pg/g		89	68 - 160	4	50
1,2,3,4,7,8-HxCDD	6.1		97.8	93.5		pg/g		89	70 - 164	8	50
1,2,3,6,7,8-HxCDD	44		97.8	136		pg/g		94	76 - 134	10	50
1,2,3,7,8,9-HxCDD	15		97.8	112		pg/g		99	64 - 162	9	50
1,2,3,4,7,8-HxCDF	6.4		97.8	95.6		pg/g		91	72 - 134	5	50
1,2,3,6,7,8-HxCDF	5.2		97.8	93.6		pg/g		90	84 - 130	1	50
1,2,3,7,8,9-HxCDF	ND		97.8	91.8		pg/g		94	78 - 130	1	50
2,3,4,6,7,8-HxCDF	4.3	J	97.8	92.8		pg/g		90	70 - 156	2	50
1,2,3,4,6,7,8-HpCDD	660	B	97.8	693	4	pg/g		32	70 - 140	13	50
1,2,3,4,6,7,8-HpCDF	95	B	97.8	197		pg/g		105	82 - 122	12	50
1,2,3,4,7,8,9-HpCDF	4.6	J B	97.8	100		pg/g		98	78 - 138	4	50
OCDD	6300	E B	196	5610	E 4	pg/g		-359	78 - 144	10	50
OCDF	150	B	196	363		pg/g		108	63 - 170	2	50

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
13C-2,3,7,8-TCDD	80		25 - 164
13C-2,3,7,8-TCDF	75		24 - 169
13C-1,2,3,7,8-PeCDD	85		25 - 181
13C-1,2,3,7,8-PeCDF	74		24 - 185
13C-2,3,4,7,8-PeCDF	74		21 - 178
13C-1,2,3,4,7,8-HxCDD	71		32 - 141
13C-1,2,3,6,7,8-HxCDD	70		28 - 130

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: 320-97305-187 MSD
Matrix: Solid
Analysis Batch: 664305

Client Sample ID: SB-08-1.5-3
Prep Type: Total/NA
Prep Batch: 661996

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
13C-1,2,3,4,7,8-HxCDF	66		26 - 152
13C-1,2,3,6,7,8-HxCDF	68		26 - 123
13C-2,3,4,6,7,8-HxCDF	73		28 - 136
13C-1,2,3,7,8,9-HxCDF	74		29 - 147
13C-1,2,3,4,6,7,8-HpCDD	73		23 - 140
13C-1,2,3,4,6,7,8-HpCDF	50		28 - 143
13C-1,2,3,4,7,8,9-HpCDF	56		26 - 138
13C-OCDD	72		17 - 157
13C-OCDF	69		17 - 157
Surrogate	MSD MSD		Limits
37Cl4-2,3,7,8-TCDD	95		35 - 197

Lab Sample ID: MB 320-662426/1-A
Matrix: Solid
Analysis Batch: 663408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 662426

Analyte	MB MB		RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	ND		1.0	0.022	pg/g		03/21/23 14:51	03/26/23 03:48	1
Total TCDD	ND		1.0	0.041	pg/g		03/21/23 14:51	03/26/23 03:48	1
1,2,3,7,8-PeCDD	ND		5.0	0.024	pg/g		03/21/23 14:51	03/26/23 03:48	1
Total PeCDD	ND		5.0	0.024	pg/g		03/21/23 14:51	03/26/23 03:48	1
1,2,3,4,7,8-HxCDD	ND		5.0	0.022	pg/g		03/21/23 14:51	03/26/23 03:48	1
1,2,3,6,7,8-HxCDD	ND		5.0	0.022	pg/g		03/21/23 14:51	03/26/23 03:48	1
1,2,3,7,8,9-HxCDD	ND		5.0	0.020	pg/g		03/21/23 14:51	03/26/23 03:48	1
Total HxCDD	ND		5.0	0.052	pg/g		03/21/23 14:51	03/26/23 03:48	1
Total HpCDD	0.525	J q	5.0	0.036	pg/g		03/21/23 14:51	03/26/23 03:48	1
2,3,7,8-TCDF	ND		1.0	0.0024	pg/g		03/21/23 14:51	03/26/23 03:48	1
1,2,3,4,6,7,8-HpCDD	0.222	J q	5.0	0.036	pg/g		03/21/23 14:51	03/26/23 03:48	1
Total TCDF	ND		1.0	0.016	pg/g		03/21/23 14:51	03/26/23 03:48	1
1,2,3,7,8-PeCDF	ND		5.0	0.012	pg/g		03/21/23 14:51	03/26/23 03:48	1
2,3,4,7,8-PeCDF	ND		5.0	0.014	pg/g		03/21/23 14:51	03/26/23 03:48	1
OCDD	3.69	J	10	0.13	pg/g		03/21/23 14:51	03/26/23 03:48	1
Total PeCDF	ND		5.0	0.016	pg/g		03/21/23 14:51	03/26/23 03:48	1
1,2,3,4,7,8-HxCDF	ND		5.0	0.025	pg/g		03/21/23 14:51	03/26/23 03:48	1
1,2,3,6,7,8-HxCDF	ND		5.0	0.025	pg/g		03/21/23 14:51	03/26/23 03:48	1
2,3,4,6,7,8-HxCDF	ND		5.0	0.023	pg/g		03/21/23 14:51	03/26/23 03:48	1
1,2,3,7,8,9-HxCDF	ND		5.0	0.025	pg/g		03/21/23 14:51	03/26/23 03:48	1
Total HxCDF	ND		5.0	0.079	pg/g		03/21/23 14:51	03/26/23 03:48	1
1,2,3,4,6,7,8-HpCDF	0.209	J q	5.0	0.054	pg/g		03/21/23 14:51	03/26/23 03:48	1
1,2,3,4,7,8,9-HpCDF	ND		5.0	0.058	pg/g		03/21/23 14:51	03/26/23 03:48	1
Total HpCDF	0.209	J q	5.0	0.056	pg/g		03/21/23 14:51	03/26/23 03:48	1
OCDF	0.586	J	10	0.12	pg/g		03/21/23 14:51	03/26/23 03:48	1
Isotope Dilution	MB MB		Limits			Prepared	Analyzed	Dil Fac	
13C-2,3,7,8-TCDD	69		25 - 164			03/21/23 14:51	03/26/23 03:48	1	
13C-1,2,3,7,8-PeCDD	71		25 - 181			03/21/23 14:51	03/26/23 03:48	1	
13C-1,2,3,4,7,8-HxCDD	63		32 - 141			03/21/23 14:51	03/26/23 03:48	1	

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QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-662426/1-A
Matrix: Solid
Analysis Batch: 663408

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 662426

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C-1,2,3,6,7,8-HxCDD	70		28 - 130	03/21/23 14:51	03/26/23 03:48	1
13C-1,2,3,4,6,7,8-HpCDD	69		23 - 140	03/21/23 14:51	03/26/23 03:48	1
13C-2,3,7,8-TCDF	61		24 - 169	03/21/23 14:51	03/26/23 03:48	1
13C-1,2,3,7,8-PeCDF	63		24 - 185	03/21/23 14:51	03/26/23 03:48	1
13C-OCDD	57		17 - 157	03/21/23 14:51	03/26/23 03:48	1
13C-2,3,4,7,8-PeCDF	60		21 - 178	03/21/23 14:51	03/26/23 03:48	1
13C-1,2,3,4,7,8-HxCDF	61		26 - 152	03/21/23 14:51	03/26/23 03:48	1
13C-1,2,3,6,7,8-HxCDF	64		26 - 123	03/21/23 14:51	03/26/23 03:48	1
13C-2,3,4,6,7,8-HxCDF	65		28 - 136	03/21/23 14:51	03/26/23 03:48	1
13C-1,2,3,7,8,9-HxCDF	64		29 - 147	03/21/23 14:51	03/26/23 03:48	1
13C-1,2,3,4,6,7,8-HpCDF	54		28 - 143	03/21/23 14:51	03/26/23 03:48	1
13C-1,2,3,4,7,8,9-HpCDF	59		26 - 138	03/21/23 14:51	03/26/23 03:48	1
13C-OCDF	54		17 - 157	03/21/23 14:51	03/26/23 03:48	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
37Cl4-2,3,7,8-TCDD	92		35 - 197	03/21/23 14:51	03/26/23 03:48	1

Lab Sample ID: LCS 320-662426/2-A
Matrix: Solid
Analysis Batch: 663408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 662426

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3,7,8-PeCDD	100	86.4		pg/g		86	70 - 142
1,2,3,4,7,8-HxCDD	100	82.1		pg/g		82	70 - 164
1,2,3,6,7,8-HxCDD	100	89.8		pg/g		90	76 - 134
1,2,3,7,8,9-HxCDD	100	88.7		pg/g		89	64 - 162
2,3,7,8-TCDF	20.0	18.6		pg/g		93	75 - 158
1,2,3,4,6,7,8-HpCDD	100	82.4		pg/g		82	70 - 140
1,2,3,7,8-PeCDF	100	85.6		pg/g		86	80 - 134
2,3,4,7,8-PeCDF	100	87.7		pg/g		88	68 - 160
OCDD	200	176		pg/g		88	78 - 144
1,2,3,4,7,8-HxCDF	100	92.0		pg/g		92	72 - 134
1,2,3,6,7,8-HxCDF	100	90.9		pg/g		91	84 - 130
2,3,4,6,7,8-HxCDF	100	89.8		pg/g		90	70 - 156
1,2,3,7,8,9-HxCDF	100	90.4		pg/g		90	78 - 130
1,2,3,4,6,7,8-HpCDF	100	88.4		pg/g		88	82 - 122
1,2,3,4,7,8,9-HpCDF	100	90.1		pg/g		90	78 - 138
OCDF	200	186		pg/g		93	63 - 170

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C-2,3,7,8-TCDD	70		20 - 175
13C-1,2,3,7,8-PeCDD	76		21 - 227
13C-1,2,3,4,7,8-HxCDD	69		21 - 193
13C-1,2,3,6,7,8-HxCDD	70		25 - 163
13C-1,2,3,4,6,7,8-HpCDD	72		26 - 166
13C-2,3,7,8-TCDF	65		22 - 152
13C-1,2,3,7,8-PeCDF	67		21 - 192

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-662426/2-A
Matrix: Solid
Analysis Batch: 663408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 662426

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C-OCDD	63		13 - 199
13C-2,3,4,7,8-PeCDF	64		13 - 328
13C-1,2,3,4,7,8-HxCDF	61		19 - 202
13C-1,2,3,6,7,8-HxCDF	63		21 - 159
13C-2,3,4,6,7,8-HxCDF	66		22 - 176
13C-1,2,3,7,8,9-HxCDF	67		17 - 205
13C-1,2,3,4,6,7,8-HpCDF	59		21 - 158
13C-1,2,3,4,7,8,9-HpCDF	63		20 - 186
13C-OCDF	60		13 - 199

Surrogate	LCS		Limits
	%Recovery	Qualifier	
37Cl4-2,3,7,8-TCDD	91		31 - 191

Lab Sample ID: 320-97305-1 MS
Matrix: Solid
Analysis Batch: 664898

Client Sample ID: DU-5-SE-0-1.5
Prep Type: Total/NA
Prep Batch: 662426

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
2,3,7,8-TCDF	2.4		19.5	24.7		pg/g		114	75 - 158

Isotope Dilution	MS		Limits
	%Recovery	Qualifier	
13C-2,3,7,8-TCDF	66		24 - 169

Surrogate	MS		Limits
	%Recovery	Qualifier	
37Cl4-2,3,7,8-TCDD	94		35 - 197

Lab Sample ID: 320-97305-1 MS
Matrix: Solid
Analysis Batch: 665539

Client Sample ID: DU-5-SE-0-1.5
Prep Type: Total/NA
Prep Batch: 662426

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
2,3,7,8-TCDD	ND		19.5	21.2		pg/g		109	67 - 158
1,2,3,7,8-PeCDD	2.5	J q	97.5	87.6		pg/g		87	70 - 142
1,2,3,4,7,8-HxCDD	5.2	J	97.5	96.1		pg/g		93	70 - 164
1,2,3,6,7,8-HxCDD	63		97.5	137		pg/g		76	76 - 134
1,2,3,7,8,9-HxCDD	12	J	97.5	102		pg/g		92	64 - 162
1,2,3,4,6,7,8-HpCDD	610	B	97.5	793	4	pg/g		184	70 - 140
1,2,3,7,8-PeCDF	1.7	J	97.5	84.9		pg/g		84	80 - 134
2,3,4,7,8-PeCDF	2.0	J q	97.5	93.4		pg/g		94	68 - 160
OCDD	4500	B	195	5200	4	pg/g		334	78 - 144
1,2,3,4,7,8-HxCDF	4.8	J	97.5	102		pg/g		100	72 - 134
1,2,3,6,7,8-HxCDF	4.8	J	97.5	93.6		pg/g		91	84 - 130
2,3,4,6,7,8-HxCDF	4.0	J q	97.5	103		pg/g		101	70 - 156
1,2,3,7,8,9-HxCDF	ND		97.5	85.0		pg/g		87	78 - 130
1,2,3,4,6,7,8-HpCDF	84	B	97.5	187		pg/g		106	82 - 122
1,2,3,4,7,8,9-HpCDF	4.6	J	97.5	97.8		pg/g		96	78 - 138
OCDF	99	B	195	298		pg/g		102	63 - 170

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

<u>Isotope Dilution</u>	<u>MS MS</u> <u>%Recovery</u>	<u>MS MS</u> <u>Qualifier</u>	<u>Limits</u>
13C-2,3,7,8-TCDD	64		25 - 164
13C-1,2,3,7,8-PeCDD	79		25 - 181
13C-1,2,3,4,7,8-HxCDD	65		32 - 141
13C-1,2,3,6,7,8-HxCDD	73		28 - 130
13C-1,2,3,4,6,7,8-HpCDD	77		23 - 140
13C-2,3,7,8-TCDF	70		24 - 169
13C-1,2,3,7,8-PeCDF	73		24 - 185
13C-OCDD	77		17 - 157
13C-2,3,4,7,8-PeCDF	64		21 - 178
13C-1,2,3,4,7,8-HxCDF	60		26 - 152
13C-1,2,3,6,7,8-HxCDF	68		26 - 123
13C-2,3,4,6,7,8-HxCDF	66		28 - 136
13C-1,2,3,7,8,9-HxCDF	79		29 - 147
13C-1,2,3,4,6,7,8-HpCDF	60		28 - 143
13C-1,2,3,4,7,8,9-HpCDF	52	q	26 - 138
13C-OCDF	74		17 - 157

<u>Surrogate</u>	<u>MS MS</u> <u>%Recovery</u>	<u>MS MS</u> <u>Qualifier</u>	<u>Limits</u>
37Cl4-2,3,7,8-TCDD	97		35 - 197

Lab Sample ID: 320-97305-1 MSD
Matrix: Solid
Analysis Batch: 664898

Client Sample ID: DU-5-SE-0-1.5
Prep Type: Total/NA
Prep Batch: 662426

<u>Analyte</u>	<u>Sample Result</u>	<u>Sample Qualifier</u>	<u>Spike Added</u>	<u>MSD Result</u>	<u>MSD Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec Limits</u>	<u>RPD</u>	<u>RPD Limit</u>
2,3,7,8-TCDF	2.4		19.1	23.7		pg/g		112	75 - 158	4	50

<u>Isotope Dilution</u>	<u>MSD MSD</u> <u>%Recovery</u>	<u>MSD MSD</u> <u>Qualifier</u>	<u>Limits</u>
13C-2,3,7,8-TCDF	69		24 - 169

<u>Surrogate</u>	<u>MSD MSD</u> <u>%Recovery</u>	<u>MSD MSD</u> <u>Qualifier</u>	<u>Limits</u>
37Cl4-2,3,7,8-TCDD	100		35 - 197

Lab Sample ID: 320-97305-1 MSD
Matrix: Solid
Analysis Batch: 665539

Client Sample ID: DU-5-SE-0-1.5
Prep Type: Total/NA
Prep Batch: 662426

<u>Analyte</u>	<u>Sample Result</u>	<u>Sample Qualifier</u>	<u>Spike Added</u>	<u>MSD Result</u>	<u>MSD Qualifier</u>	<u>Unit</u>	<u>D</u>	<u>%Rec</u>	<u>%Rec Limits</u>	<u>RPD</u>	<u>RPD Limit</u>
2,3,7,8-TCDD	ND		19.1	18.6	q	pg/g		97	67 - 158	13	50
1,2,3,7,8-PeCDD	2.5	J q	95.7	86.9		pg/g		88	70 - 142	1	50
1,2,3,4,7,8-HxCDD	5.2	J	95.7	94.1		pg/g		93	70 - 164	2	50
1,2,3,6,7,8-HxCDD	63		95.7	151		pg/g		92	76 - 134	10	50
1,2,3,7,8,9-HxCDD	12	J	95.7	105		pg/g		97	64 - 162	4	50
1,2,3,4,6,7,8-HpCDD	610	B	95.7	679	4	pg/g		68	70 - 140	16	50
1,2,3,7,8-PeCDF	1.7	J	95.7	86.5		pg/g		87	80 - 134	2	50
2,3,4,7,8-PeCDF	2.0	J q	95.7	89.8		pg/g		92	68 - 160	4	50
OCDD	4500	B	191	4950	4	pg/g		212	78 - 144	5	50
1,2,3,4,7,8-HxCDF	4.8	J	95.7	96.9		pg/g		96	72 - 134	5	50
1,2,3,6,7,8-HxCDF	4.8	J	95.7	96.0		pg/g		95	84 - 130	2	50
2,3,4,6,7,8-HxCDF	4.0	J q	95.7	99.0		pg/g		99	70 - 156	4	50
1,2,3,7,8,9-HxCDF	ND		95.7	90.6		pg/g		95	78 - 130	6	50

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QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: 320-97305-1 MSD
Matrix: Solid
Analysis Batch: 665539

Client Sample ID: DU-5-SE-0-1.5
Prep Type: Total/NA
Prep Batch: 662426

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDF	84	B	95.7	171		pg/g		91	82 - 122	9	50
1,2,3,4,7,8,9-HpCDF	4.6	J	95.7	102		pg/g		102	78 - 138	5	50
OCDF	99	B	191	300		pg/g		105	63 - 170	1	50
MSD MSD											
Isotope Dilution	%Recovery	Qualifier	Limits								
13C-2,3,7,8-TCDD	73		25 - 164								
13C-1,2,3,7,8-PeCDD	83		25 - 181								
13C-1,2,3,4,7,8-HxCDD	63		32 - 141								
13C-1,2,3,6,7,8-HxCDD	64		28 - 130								
13C-1,2,3,4,6,7,8-HpCDD	72		23 - 140								
13C-2,3,7,8-TCDF	80		24 - 169								
13C-1,2,3,7,8-PeCDF	76		24 - 185								
13C-OCDD	65		17 - 157								
13C-2,3,4,7,8-PeCDF	74		21 - 178								
13C-1,2,3,4,7,8-HxCDF	61		26 - 152								
13C-1,2,3,6,7,8-HxCDF	62		26 - 123								
13C-2,3,4,6,7,8-HxCDF	67		28 - 136								
13C-1,2,3,7,8,9-HxCDF	74		29 - 147								
13C-1,2,3,4,6,7,8-HpCDF	56		28 - 143								
13C-1,2,3,4,7,8,9-HpCDF	44		26 - 138								
13C-OCDF	64		17 - 157								
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
37Cl4-2,3,7,8-TCDD	103		35 - 197								

Method: 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Lab Sample ID: 320-97305-187 MS
Matrix: Solid
Analysis Batch: 664898

Client Sample ID: SB-08-1.5-3
Prep Type: Total/NA
Prep Batch: 661996

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDF - RA	2.5		19.4	23.2		pg/g		107	75 - 158
MS MS									
Isotope Dilution	%Recovery	Qualifier	Limits						
13C-2,3,7,8-TCDF - RA	57		24 - 169						
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
37Cl4-2,3,7,8-TCDD - RA	80		35 - 197						

Lab Sample ID: 320-97305-187 MSD
Matrix: Solid
Analysis Batch: 664898

Client Sample ID: SB-08-1.5-3
Prep Type: Total/NA
Prep Batch: 661996

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDF - RA	2.5		19.6	25.6		pg/g		118	75 - 158	10	50

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QC Sample Results

Client: Stantec Consulting Corp.
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method: 1613B - Dioxins and Furans (HRGC/HRMS) - RA (Continued)

<i>Isotope Dilution</i>	<i>MSD MSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C-2,3,7,8-TCDF - RA	72		24 - 169

<i>Surrogate</i>	<i>MSD MSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
37Cl4-2,3,7,8-TCDD - RA	87		35 - 197

Method: D 2216 - Percent Moisture

Lab Sample ID: 320-97305-187 DU
 Matrix: Solid
 Analysis Batch: 657938

Client Sample ID: SB-08-1.5-3
 Prep Type: Total/NA

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>DU DU</i>		<i>Unit</i>	<i>D</i>	<i>RPD</i>	<i>RPD Limit</i>
			<i>Result</i>	<i>Qualifier</i>				
Percent Moisture	10.8		12.1		%		11	20

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QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Specialty Organics

ISM Prep Batch: 661112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-1 - RA	DU-5-SE-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-1	DU-5-SE-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-12 - RA	DU-5-SE-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-12	DU-5-SE-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-12 - DL	DU-5-SE-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-23 - RA	DU-5-SW-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-23 - DL	DU-5-SW-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-23	DU-5-SW-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-34	DU-5-SW-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-34 - DL	DU-5-SW-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-45 - RA	DU-5-NE-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-45 - DL	DU-5-NE-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-45	DU-5-NE-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-56 - RA	DU-5-NE-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-56	DU-5-NE-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-56 - DL	DU-5-NE-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-67 - RA	DU-5-NW-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-67	DU-5-NW-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-67 - DL	DU-5-NW-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-78 - RA	DU-5-NW-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-78 - DL	DU-5-NW-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-78	DU-5-NW-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-89	DU-6-SE-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-89 - DL	DU-6-SE-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-100 - RA	DU-6-SE-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-100	DU-6-SE-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-111 - RA	DU-6-SW-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-111 - DL	DU-6-SW-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-111	DU-6-SW-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-122 - RA	DU-6-SW-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-122 - DL	DU-6-SW-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-122	DU-6-SW-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-133 - RA	DU-6-NE-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-133	DU-6-NE-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-133 - DL	DU-6-NE-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-144	DU-6-NE-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-144 - DL	DU-6-NE-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-155 - RA	DU-6-NW-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-155 - DL	DU-6-NW-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-155	DU-6-NW-1.5-3	Total/NA	Solid	Increment, prep	
320-97305-166 - RA	DU-6-NW-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-166 - DL	DU-6-NW-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-166	DU-6-NW-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-193 - RA	DU-5-X	Total/NA	Solid	Increment, prep	
320-97305-193 - DL	DU-5-X	Total/NA	Solid	Increment, prep	
320-97305-193	DU-5-X	Total/NA	Solid	Increment, prep	
320-97305-1 MS	DU-5-SE-0-1.5	Total/NA	Solid	Increment, prep	
320-97305-1 MSD	DU-5-SE-0-1.5	Total/NA	Solid	Increment, prep	

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Specialty Organics

Prep Batch: 661244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-185	EB-20230223	Total/NA	Water	1613B	
MB 320-661244/1-A	Method Blank	Total/NA	Water	1613B	
LCS 320-661244/2-A	Lab Control Sample	Total/NA	Water	1613B	
LCSD 320-661244/3-A	Lab Control Sample Dup	Total/NA	Water	1613B	

Prep Batch: 661996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-177	SB-08-N-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-178	SB-08-N-1.5-3	Total/NA	Solid	HRMS-Sox	
320-97305-179 - RA	SB-08-S-1-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-179	SB-08-S-1-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-180	SB-08-S-1.5-3	Total/NA	Solid	HRMS-Sox	
320-97305-181	SB-08-W-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-181 - DL	SB-08-W-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-182 - RA	SB-08-W-1.5-3	Total/NA	Solid	HRMS-Sox	
320-97305-182	SB-08-W-1.5-3	Total/NA	Solid	HRMS-Sox	
320-97305-183	SB-08-E-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-183 - DL	SB-08-E-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-184	SB-08-E-1.5-3	Total/NA	Solid	HRMS-Sox	
320-97305-184 - DL	SB-08-E-1.5-3	Total/NA	Solid	HRMS-Sox	
320-97305-186 - RA	SB-08-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-186	SB-08-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-186 - DL	SB-08-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-187 - RA	SB-08-1.5-3	Total/NA	Solid	HRMS-Sox	
320-97305-187	SB-08-1.5-3	Total/NA	Solid	HRMS-Sox	
MB 320-661996/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	
LCS 320-661996/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
320-97305-187 MS - RA	SB-08-1.5-3	Total/NA	Solid	HRMS-Sox	
320-97305-187 MS	SB-08-1.5-3	Total/NA	Solid	HRMS-Sox	
320-97305-187 MSD - RA	SB-08-1.5-3	Total/NA	Solid	HRMS-Sox	
320-97305-187 MSD	SB-08-1.5-3	Total/NA	Solid	HRMS-Sox	

Prep Batch: 662426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-1 - RA	DU-5-SE-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-1	DU-5-SE-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-12 - RA	DU-5-SE-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-12 - DL	DU-5-SE-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-12	DU-5-SE-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-23 - RA	DU-5-SW-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-23	DU-5-SW-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-23 - DL	DU-5-SW-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-34	DU-5-SW-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-34 - DL	DU-5-SW-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-45 - RA	DU-5-NE-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-45 - DL	DU-5-NE-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-45	DU-5-NE-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-56 - RA	DU-5-NE-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-56	DU-5-NE-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-56 - DL	DU-5-NE-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-67 - RA	DU-5-NW-0-1.5	Total/NA	Solid	HRMS-Sox	661112

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QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Specialty Organics (Continued)

Prep Batch: 662426 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-67	DU-5-NW-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-67 - DL	DU-5-NW-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-78 - RA	DU-5-NW-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-78 - DL	DU-5-NW-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-78	DU-5-NW-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-89 - DL	DU-6-SE-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-89	DU-6-SE-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-100 - RA	DU-6-SE-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-100	DU-6-SE-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-111 - RA	DU-6-SW-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-111 - DL	DU-6-SW-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-111	DU-6-SW-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-122 - RA	DU-6-SW-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-122 - DL	DU-6-SW-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-122	DU-6-SW-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-133 - RA	DU-6-NE-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-133 - DL	DU-6-NE-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-133	DU-6-NE-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-144 - DL	DU-6-NE-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-144	DU-6-NE-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-155 - RA	DU-6-NW-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-155 - DL	DU-6-NW-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-155	DU-6-NW-1.5-3	Total/NA	Solid	HRMS-Sox	661112
320-97305-166 - RA	DU-6-NW-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-166 - DL	DU-6-NW-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-166	DU-6-NW-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-193 - RA	DU-5-X	Total/NA	Solid	HRMS-Sox	661112
320-97305-193 - DL	DU-5-X	Total/NA	Solid	HRMS-Sox	661112
320-97305-193	DU-5-X	Total/NA	Solid	HRMS-Sox	661112
MB 320-662426/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	
LCS 320-662426/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
320-97305-1 MS	DU-5-SE-0-1.5	Total/NA	Solid	HRMS-Sox	661112
320-97305-1 MSD	DU-5-SE-0-1.5	Total/NA	Solid	HRMS-Sox	661112

Analysis Batch: 662732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-185	EB-20230223	Total/NA	Water	1613B	661244
MB 320-661244/1-A	Method Blank	Total/NA	Water	1613B	661244
LCS 320-661244/2-A	Lab Control Sample	Total/NA	Water	1613B	661244
LCSD 320-661244/3-A	Lab Control Sample Dup	Total/NA	Water	1613B	661244

Analysis Batch: 663407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-177	SB-08-N-0-1.5	Total/NA	Solid	1613B	661996
320-97305-178	SB-08-N-1.5-3	Total/NA	Solid	1613B	661996
320-97305-179	SB-08-S-1-1.5	Total/NA	Solid	1613B	661996
320-97305-180	SB-08-S-1.5-3	Total/NA	Solid	1613B	661996
320-97305-181	SB-08-W-0-1.5	Total/NA	Solid	1613B	661996
320-97305-182	SB-08-W-1.5-3	Total/NA	Solid	1613B	661996
320-97305-183	SB-08-E-0-1.5	Total/NA	Solid	1613B	661996
320-97305-187	SB-08-1.5-3	Total/NA	Solid	1613B	661996

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QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Specialty Organics (Continued)

Analysis Batch: 663407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-661996/1-A	Method Blank	Total/NA	Solid	1613B	661996
LCS 320-661996/2-A	Lab Control Sample	Total/NA	Solid	1613B	661996
320-97305-187 MS	SB-08-1.5-3	Total/NA	Solid	1613B	661996

Analysis Batch: 663408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-12	DU-5-SE-1.5-3	Total/NA	Solid	1613B	662426
320-97305-23	DU-5-SW-1.5-3	Total/NA	Solid	1613B	662426
320-97305-34	DU-5-SW-0-1.5	Total/NA	Solid	1613B	662426
320-97305-45	DU-5-NE-1.5-3	Total/NA	Solid	1613B	662426
320-97305-56	DU-5-NE-0-1.5	Total/NA	Solid	1613B	662426
320-97305-184	SB-08-E-1.5-3	Total/NA	Solid	1613B	661996
320-97305-186	SB-08-0-1.5	Total/NA	Solid	1613B	661996
MB 320-662426/1-A	Method Blank	Total/NA	Solid	1613B	662426
LCS 320-662426/2-A	Lab Control Sample	Total/NA	Solid	1613B	662426

Analysis Batch: 663409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-67	DU-5-NW-0-1.5	Total/NA	Solid	1613B	662426
320-97305-78	DU-5-NW-1.5-3	Total/NA	Solid	1613B	662426
320-97305-89	DU-6-SE-1.5-3	Total/NA	Solid	1613B	662426
320-97305-100	DU-6-SE-0-1.5	Total/NA	Solid	1613B	662426
320-97305-111	DU-6-SW-1.5-3	Total/NA	Solid	1613B	662426
320-97305-122	DU-6-SW-0-1.5	Total/NA	Solid	1613B	662426
320-97305-133	DU-6-NE-0-1.5	Total/NA	Solid	1613B	662426
320-97305-144	DU-6-NE-1.5-3	Total/NA	Solid	1613B	662426
320-97305-155	DU-6-NW-1.5-3	Total/NA	Solid	1613B	662426
320-97305-166	DU-6-NW-0-1.5	Total/NA	Solid	1613B	662426
320-97305-193	DU-5-X	Total/NA	Solid	1613B	662426

Analysis Batch: 664305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-12 - DL	DU-5-SE-1.5-3	Total/NA	Solid	1613B	662426
320-97305-23 - DL	DU-5-SW-1.5-3	Total/NA	Solid	1613B	662426
320-97305-183 - DL	SB-08-E-0-1.5	Total/NA	Solid	1613B	661996
320-97305-184 - DL	SB-08-E-1.5-3	Total/NA	Solid	1613B	661996
320-97305-186 - DL	SB-08-0-1.5	Total/NA	Solid	1613B	661996
320-97305-187 MSD	SB-08-1.5-3	Total/NA	Solid	1613B	661996

Analysis Batch: 664306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-45 - DL	DU-5-NE-1.5-3	Total/NA	Solid	1613B	662426
320-97305-56 - DL	DU-5-NE-0-1.5	Total/NA	Solid	1613B	662426
320-97305-111 - DL	DU-6-SW-1.5-3	Total/NA	Solid	1613B	662426
320-97305-122 - DL	DU-6-SW-0-1.5	Total/NA	Solid	1613B	662426
320-97305-166 - DL	DU-6-NW-0-1.5	Total/NA	Solid	1613B	662426

Analysis Batch: 664898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-12 - RA	DU-5-SE-1.5-3	Total/NA	Solid	1613B	662426
320-97305-23 - RA	DU-5-SW-1.5-3	Total/NA	Solid	1613B	662426

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QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Specialty Organics (Continued)

Analysis Batch: 664898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-45 - RA	DU-5-NE-1.5-3	Total/NA	Solid	1613B	662426
320-97305-56 - RA	DU-5-NE-0-1.5	Total/NA	Solid	1613B	662426
320-97305-179 - RA	SB-08-S-1-1.5	Total/NA	Solid	1613B	661996
320-97305-182 - RA	SB-08-W-1.5-3	Total/NA	Solid	1613B	661996
320-97305-186 - RA	SB-08-0-1.5	Total/NA	Solid	1613B	661996
320-97305-187 - RA	SB-08-1.5-3	Total/NA	Solid	1613B	661996
320-97305-1 MS	DU-5-SE-0-1.5	Total/NA	Solid	1613B	662426
320-97305-1 MSD	DU-5-SE-0-1.5	Total/NA	Solid	1613B	662426
320-97305-187 MS - RA	SB-08-1.5-3	Total/NA	Solid	1613B	661996
320-97305-187 MSD - RA	SB-08-1.5-3	Total/NA	Solid	1613B	661996

Analysis Batch: 665217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-1	DU-5-SE-0-1.5	Total/NA	Solid	1613B	662426
320-97305-34 - DL	DU-5-SW-0-1.5	Total/NA	Solid	1613B	662426
320-97305-89 - DL	DU-6-SE-1.5-3	Total/NA	Solid	1613B	662426
320-97305-133 - DL	DU-6-NE-0-1.5	Total/NA	Solid	1613B	662426
320-97305-155 - DL	DU-6-NW-1.5-3	Total/NA	Solid	1613B	662426
320-97305-181 - DL	SB-08-W-0-1.5	Total/NA	Solid	1613B	661996
320-97305-193 - DL	DU-5-X	Total/NA	Solid	1613B	662426

Analysis Batch: 665271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-1 - RA	DU-5-SE-0-1.5	Total/NA	Solid	1613B	662426
320-97305-67 - RA	DU-5-NW-0-1.5	Total/NA	Solid	1613B	662426
320-97305-78 - RA	DU-5-NW-1.5-3	Total/NA	Solid	1613B	662426
320-97305-100 - RA	DU-6-SE-0-1.5	Total/NA	Solid	1613B	662426
320-97305-111 - RA	DU-6-SW-1.5-3	Total/NA	Solid	1613B	662426
320-97305-122 - RA	DU-6-SW-0-1.5	Total/NA	Solid	1613B	662426
320-97305-133 - RA	DU-6-NE-0-1.5	Total/NA	Solid	1613B	662426
320-97305-155 - RA	DU-6-NW-1.5-3	Total/NA	Solid	1613B	662426
320-97305-166 - RA	DU-6-NW-0-1.5	Total/NA	Solid	1613B	662426
320-97305-193 - RA	DU-5-X	Total/NA	Solid	1613B	662426

Analysis Batch: 665539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-67 - DL	DU-5-NW-0-1.5	Total/NA	Solid	1613B	662426
320-97305-78 - DL	DU-5-NW-1.5-3	Total/NA	Solid	1613B	662426
320-97305-144 - DL	DU-6-NE-1.5-3	Total/NA	Solid	1613B	662426
320-97305-1 MS	DU-5-SE-0-1.5	Total/NA	Solid	1613B	662426
320-97305-1 MSD	DU-5-SE-0-1.5	Total/NA	Solid	1613B	662426

General Chemistry

Analysis Batch: 657938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-177	SB-08-N-0-1.5	Total/NA	Solid	D 2216	
320-97305-178	SB-08-N-1.5-3	Total/NA	Solid	D 2216	
320-97305-179	SB-08-S-1-1.5	Total/NA	Solid	D 2216	
320-97305-180	SB-08-S-1.5-3	Total/NA	Solid	D 2216	
320-97305-181	SB-08-W-0-1.5	Total/NA	Solid	D 2216	

Eurofins Sacramento

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

General Chemistry (Continued)

Analysis Batch: 657938 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-182	SB-08-W-1.5-3	Total/NA	Solid	D 2216	
320-97305-183	SB-08-E-0-1.5	Total/NA	Solid	D 2216	
320-97305-184	SB-08-E-1.5-3	Total/NA	Solid	D 2216	
320-97305-186	SB-08-0-1.5	Total/NA	Solid	D 2216	
320-97305-187	SB-08-1.5-3	Total/NA	Solid	D 2216	
320-97305-187 DU	SB-08-1.5-3	Total/NA	Solid	D 2216	

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Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-SE-0-1.5

Lab Sample ID: 320-97305-1

Date Collected: 02/21/23 16:30

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.52 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	665271	04/03/23 18:03	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.52 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		10	1 Sample	1 Sample	665217	04/03/23 22:03	GRB	EET SAC

Client Sample ID: DU-5-SE-1.5-3

Lab Sample ID: 320-97305-12

Date Collected: 02/21/23 16:40

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.21 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	664898	03/31/23 21:16	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.21 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663408	03/26/23 07:48	GRB	EET SAC
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.21 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	5	1 Sample	1 Sample	664305	03/30/23 01:06	GRB	EET SAC

Client Sample ID: DU-5-SW-1.5-3

Lab Sample ID: 320-97305-23

Date Collected: 02/21/23 13:30

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.29 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	664898	03/31/23 21:59	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.29 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663408	03/26/23 08:36	GRB	EET SAC
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.29 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	5	1 Sample	1 Sample	664305	03/30/23 01:54	GRB	EET SAC

Client Sample ID: DU-5-SW-0-1.5

Lab Sample ID: 320-97305-34

Date Collected: 02/21/23 13:20

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.37 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663408	03/26/23 09:25	GRB	EET SAC

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-SW-0-1.5

Lab Sample ID: 320-97305-34

Date Collected: 02/21/23 13:20

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.37 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	10	1 Sample	1 Sample	665217	04/03/23 15:38	GRB	EET SAC

Client Sample ID: DU-5-NE-1.5-3

Lab Sample ID: 320-97305-45

Date Collected: 02/22/23 10:30

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.41 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	664898	03/31/23 22:43	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.41 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663408	03/26/23 10:13	GRB	EET SAC
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.41 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	5	1 Sample	1 Sample	664306	03/30/23 09:25	GRB	EET SAC

Client Sample ID: DU-5-NE-0-1.5

Lab Sample ID: 320-97305-56

Date Collected: 02/22/23 10:20

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.30 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	664898	03/31/23 23:26	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.30 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663408	03/26/23 11:01	GRB	EET SAC
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.30 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	5	1 Sample	1 Sample	664306	03/30/23 10:13	GRB	EET SAC

Client Sample ID: DU-5-NW-0-1.5

Lab Sample ID: 320-97305-67

Date Collected: 02/21/23 10:50

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.55 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	665271	04/03/23 18:46	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.55 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663409	03/26/23 16:08	GRB	EET SAC

Lab Chronicle

Client: Stantec Consulting Corp.
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-5-NW-0-1.5

Lab Sample ID: 320-97305-67

Date Collected: 02/21/23 10:50

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.55 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	10	1 Sample	1 Sample	665539	04/04/23 16:17	GRB	EET SAC

Client Sample ID: DU-5-NW-1.5-3

Lab Sample ID: 320-97305-78

Date Collected: 02/21/23 11:00

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.24 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	665271	04/03/23 19:29	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.24 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663409	03/26/23 16:56	GRB	EET SAC
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.24 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	10	1 Sample	1 Sample	665539	04/04/23 17:54	GRB	EET SAC

Client Sample ID: DU-6-SE-1.5-3

Lab Sample ID: 320-97305-89

Date Collected: 02/23/23 10:40

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.42 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663409	03/26/23 17:44	GRB	EET SAC
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.42 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	10	1 Sample	1 Sample	665217	04/03/23 18:02	GRB	EET SAC

Client Sample ID: DU-6-SE-0-1.5

Lab Sample ID: 320-97305-100

Date Collected: 02/23/23 10:30

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.34 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	665271	04/03/23 20:13	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.34 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663409	03/26/23 18:32	GRB	EET SAC

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-SW-1.5-3

Lab Sample ID: 320-97305-111

Date Collected: 02/22/23 15:30

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.61 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	665271	04/03/23 20:56	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.61 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663409	03/26/23 19:20	GRB	EET SAC
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.61 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	5	1 Sample	1 Sample	664306	03/30/23 13:26	GRB	EET SAC

Client Sample ID: DU-6-SW-0-1.5

Lab Sample ID: 320-97305-122

Date Collected: 02/22/23 15:20

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.19 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	665271	04/03/23 21:39	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.19 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663409	03/26/23 20:08	GRB	EET SAC
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.19 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	5	1 Sample	1 Sample	664306	03/30/23 14:14	GRB	EET SAC

Client Sample ID: DU-6-NE-0-1.5

Lab Sample ID: 320-97305-133

Date Collected: 02/23/23 12:30

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.08 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	665271	04/03/23 22:22	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.08 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663409	03/26/23 20:57	GRB	EET SAC
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.08 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	10	1 Sample	1 Sample	665217	04/03/23 18:50	GRB	EET SAC

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: DU-6-NE-1.5-3

Lab Sample ID: 320-97305-144

Date Collected: 02/23/23 12:35

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.11 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663409	03/26/23 21:45	GRB	EET SAC
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.11 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	10	1 Sample	1 Sample	665539	04/04/23 19:30	GRB	EET SAC

Client Sample ID: DU-6-NW-1.5-3

Lab Sample ID: 320-97305-155

Date Collected: 02/22/23 12:50

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.31 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	665271	04/03/23 23:05	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.31 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663409	03/26/23 22:33	GRB	EET SAC
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.31 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	10	1 Sample	1 Sample	665217	04/03/23 20:26	GRB	EET SAC

Client Sample ID: DU-6-NW-0-1.5

Lab Sample ID: 320-97305-166

Date Collected: 02/22/23 12:40

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.47 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	665271	04/03/23 23:48	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.47 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663409	03/26/23 23:21	GRB	EET SAC
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.47 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	5	1 Sample	1 Sample	664306	03/30/23 17:27	GRB	EET SAC

Client Sample ID: SB-08-N-0-1.5

Lab Sample ID: 320-97305-177

Date Collected: 02/23/23 13:05

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.22 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663407	03/25/23 17:04	GRB	EET SAC
Total/NA	Analysis	D 2216		1			657938	03/03/23 10:11	TCS	EET SAC

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-N-1.5-3

Lab Sample ID: 320-97305-178

Date Collected: 02/23/23 13:10

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.84 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663407	03/25/23 17:52	GRB	EET SAC
Total/NA	Analysis	D 2216		1			657938	03/03/23 10:11	TCS	EET SAC

Client Sample ID: SB-08-S-1-1.5

Lab Sample ID: 320-97305-179

Date Collected: 02/23/23 13:20

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.37 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	664898	03/31/23 14:51	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.37 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663407	03/25/23 18:40	GRB	EET SAC
Total/NA	Analysis	D 2216		1			657938	03/03/23 10:11	TCS	EET SAC

Client Sample ID: SB-08-S-1.5-3

Lab Sample ID: 320-97305-180

Date Collected: 02/23/23 13:25

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.68 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663407	03/25/23 19:29	GRB	EET SAC
Total/NA	Analysis	D 2216		1			657938	03/03/23 10:11	TCS	EET SAC

Client Sample ID: SB-08-W-0-1.5

Lab Sample ID: 320-97305-181

Date Collected: 02/23/23 13:25

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.46 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663407	03/25/23 20:17	GRB	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.46 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B	DL	10	1 Sample	1 Sample	665217	04/03/23 14:49	GRB	EET SAC
Total/NA	Analysis	D 2216		1			657938	03/03/23 10:11	TCS	EET SAC

Client Sample ID: SB-08-W-1.5-3

Lab Sample ID: 320-97305-182

Date Collected: 02/23/23 13:30

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.40 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	664898	03/31/23 15:31	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.40 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663407	03/25/23 21:05	GRB	EET SAC
Total/NA	Analysis	D 2216		1			657938	03/03/23 10:11	TCS	EET SAC

Eurofins Sacramento

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-E-0-1.5

Lab Sample ID: 320-97305-183

Date Collected: 02/23/23 13:40

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.61 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663407	03/25/23 21:53	GRB	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.61 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B	DL	5	1 Sample	1 Sample	664305	03/29/23 22:41	GRB	EET SAC
Total/NA	Analysis	D 2216		1			657938	03/03/23 10:11	TCS	EET SAC

Client Sample ID: SB-08-E-1.5-3

Lab Sample ID: 320-97305-184

Date Collected: 02/23/23 13:45

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.39 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663408	03/26/23 11:49	GRB	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.39 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B	DL	5	1 Sample	1 Sample	664305	03/29/23 23:29	GRB	EET SAC
Total/NA	Analysis	D 2216		1			657938	03/03/23 10:11	TCS	EET SAC

Client Sample ID: EB-20230223

Lab Sample ID: 320-97305-185

Date Collected: 02/23/23 14:00

Matrix: Water

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1613B			850.4 mL	20.0 uL	661244	03/16/23 07:03	FC	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	662732	03/23/23 05:07	DB	EET SAC

Client Sample ID: SB-08-0-1.5

Lab Sample ID: 320-97305-186

Date Collected: 02/23/23 12:50

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.31 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	664898	03/31/23 16:17	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.31 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663408	03/26/23 12:37	GRB	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.31 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B	DL	5	1 Sample	1 Sample	664305	03/30/23 00:18	GRB	EET SAC
Total/NA	Analysis	D 2216		1			657938	03/03/23 10:11	TCS	EET SAC

Client Sample ID: SB-08-1.5-3

Lab Sample ID: 320-97305-187

Date Collected: 02/23/23 12:55

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.14 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	664898	03/31/23 16:57	DB	EET SAC

Lab Chronicle

Client: Stantec Consulting Corp.
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Client Sample ID: SB-08-1.5-3

Lab Sample ID: 320-97305-187

Date Collected: 02/23/23 12:55

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.14 g	20.0 uL	661996	03/20/23 08:59	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663407	03/25/23 22:41	GRB	EET SAC
Total/NA	Analysis	D 2216		1			657938	03/03/23 10:11	TCS	EET SAC

Client Sample ID: DU-5-X

Lab Sample ID: 320-97305-193

Date Collected: 02/21/23 13:40

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	ISM Prep	Increment, prep	RA				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	RA		10.48 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	665271	04/04/23 00:32	DB	EET SAC
Total/NA	ISM Prep	Increment, prep					661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox			10.48 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	663409	03/27/23 00:09	GRB	EET SAC
Total/NA	ISM Prep	Increment, prep	DL				661112	03/16/23 15:12	VMN	EET SAC
Total/NA	Prep	HRMS-Sox	DL		10.48 g	20.0 uL	662426	03/21/23 14:51	CB	EET SAC
Total/NA	Analysis	1613B	DL	10	1 Sample	1 Sample	665217	04/03/23 21:14	GRB	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Laboratory: Eurofins Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4040	01-29-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
D 2216		Solid	Percent Moisture

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Method Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Method	Method Description	Protocol	Laboratory
1613B	Dioxins and Furans (HRGC/HRMS)	EPA	EET SAC
D 2216	Percent Moisture	ASTM	EET SAC
1613B	Separatory Funnel (L/L) Extraction with Soxhlet Extraction of Dioxin and Furans	EPA	EET SAC
HRMS-Sox	Soxhlet Extraction	EPA	EET SAC
Increment, prep	ISM - Dry, Disaggregate, Sieve, 2 D Slabcake Subsample	EPA	EET SAC

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: Stantec Consulting Corp.
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-97305-1	DU-5-SE-0-1.5	Solid	02/21/23 16:30	03/02/23 09:20
320-97305-12	DU-5-SE-1.5-3	Solid	02/21/23 16:40	03/02/23 09:20
320-97305-23	DU-5-SW-1.5-3	Solid	02/21/23 13:30	03/02/23 09:20
320-97305-34	DU-5-SW-0-1.5	Solid	02/21/23 13:20	03/02/23 09:20
320-97305-45	DU-5-NE-1.5-3	Solid	02/22/23 10:30	03/02/23 09:20
320-97305-56	DU-5-NE-0-1.5	Solid	02/22/23 10:20	03/02/23 09:20
320-97305-67	DU-5-NW-0-1.5	Solid	02/21/23 10:50	03/02/23 09:20
320-97305-78	DU-5-NW-1.5-3	Solid	02/21/23 11:00	03/02/23 09:20
320-97305-89	DU-6-SE-1.5-3	Solid	02/23/23 10:40	03/02/23 09:20
320-97305-100	DU-6-SE-0-1.5	Solid	02/23/23 10:30	03/02/23 09:20
320-97305-111	DU-6-SW-1.5-3	Solid	02/22/23 15:30	03/02/23 09:20
320-97305-122	DU-6-SW-0-1.5	Solid	02/22/23 15:20	03/02/23 09:20
320-97305-133	DU-6-NE-0-1.5	Solid	02/23/23 12:30	03/02/23 09:20
320-97305-144	DU-6-NE-1.5-3	Solid	02/23/23 12:35	03/02/23 09:20
320-97305-155	DU-6-NW-1.5-3	Solid	02/22/23 12:50	03/02/23 09:20
320-97305-166	DU-6-NW-0-1.5	Solid	02/22/23 12:40	03/02/23 09:20
320-97305-177	SB-08-N-0-1.5	Solid	02/23/23 13:05	03/02/23 09:20
320-97305-178	SB-08-N-1.5-3	Solid	02/23/23 13:10	03/02/23 09:20
320-97305-179	SB-08-S-1-1.5	Solid	02/23/23 13:20	03/02/23 09:20
320-97305-180	SB-08-S-1.5-3	Solid	02/23/23 13:25	03/02/23 09:20
320-97305-181	SB-08-W-0-1.5	Solid	02/23/23 13:25	03/02/23 09:20
320-97305-182	SB-08-W-1.5-3	Solid	02/23/23 13:30	03/02/23 09:20
320-97305-183	SB-08-E-0-1.5	Solid	02/23/23 13:40	03/02/23 09:20
320-97305-184	SB-08-E-1.5-3	Solid	02/23/23 13:45	03/02/23 09:20
320-97305-185	EB-20230223	Water	02/23/23 14:00	03/02/23 09:20
320-97305-186	SB-08-0-1.5	Solid	02/23/23 12:50	03/02/23 09:20
320-97305-187	SB-08-1.5-3	Solid	02/23/23 12:55	03/02/23 09:20
320-97305-193	DU-5-X	Solid	02/21/23 13:40	03/02/23 09:20



Avada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Eurofins Environment Testing America
COC No: 2 of 14 COCs

Regulatory Program: DW NPDES RCRA Other:
Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com

Client Contact
Stantec Consulting
1340 Treat Blvd, Suite 300
Walnut Creek, CA 94597
Phone Tel: (925) 941-1400
FAX
Project Name: Ko'kwei Wharf Property
Site:
P O # 185751418

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Analysis Turnaround Time		Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	ISM Sample Processing	Dioxins by EPA Method 1613B	Date:	Carrier: FedEx
						CALENDAR DAYS	WORKING DAYS						
DU-5-SE-1.5-3	02/21/2023	1640	C	S	1			N	N	X	X		
DU-5-SE-A-1.5-3	02/21/2023	1440	G	S	1			N	N	H	H		
DU-5-SE-B-1.5-3	02/21/2023	1455	G	S	1			N	N	H	H		
DU-5-SE-C-1.5-3	02/21/2023	1505	G	S	1			N	N	H	H		
DU-5-SE-D-1.5-3	02/21/2023	1515	G	S	1			N	N	H	H		
DU-5-SE-E-1.5-3	02/21/2023	1530	G	S	1			N	N	H	H		
DU-5-SE-F-1.5-3	02/21/2023	1545	G	S	1			N	N	H	H		
DU-5-SE-G-1.5-3	02/21/2023	1555	G	S	1			N	N	H	H		
DU-5-SE-H-1.5-3	02/21/2023	1605	G	S	1			N	N	H	H		
DU-5-SE-I-1.5-3	02/21/2023	1615	G	S	1			N	N	H	H		
DU-5-SE-J-1.5-3	02/21/2023	1625	G	S	1			N	N	H	H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazardous Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
Report data to the MDU/EDL
Email Level II PDF and EQUIS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Custody Seals Intact: Yes No
Relinquished by: *Paul M. Jensen* Company: Stantec
Relinquished by: _____ Company: _____
Relinquished by: _____ Company: _____

Therm ID No.: 602
Date/Time: 3/6/23 9:20
Date/Time: _____
Date/Time: _____



Arvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Regulatory Program: DW NPDES RCRA Other:

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com

Client Contact
Stantec Consulting
1340 Treat Blvd, Suite 300
Walnut Creek, CA 94597
Phone Tel: (925) 941-1400
FAX

Site: CALENDAR DAYS WORKING DAYS
TAT if different from Below: Standard
2 weeks
1 week
2 days
1 day

Project Name: Ko'Kwel Wharf Property
P O # 185751418

Site Contact: Paul Janney
Lab Contact: Shelby Turner

Date:
Carrier: FedEx

COC No: 4 of 14 COCs

TALS Project #:
Sampler: Paul Janney
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	# of Matrix Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	ISM Sample Processing	Dioxins by EPA Method 1613B	Sample Specific Notes:	
DU-5-SW-0-1.5	02/21/2023	1300	C	S	N	X		X		HOLD SAMPLE
DU-5-SW-A-0-1.5	02/21/2023	1025	G	S				H		HOLD SAMPLE
DU-5-SW-B-0-1.5	02/21/2023	1035	G	S				H		HOLD SAMPLE
DU-5-SW-C-0-1.5	02/21/2023	1150	G	S				H		HOLD SAMPLE
DU-5-SW-D-0-1.5	02/21/2023	1200	G	S				H		HOLD SAMPLE
DU-5-SW-E-0-1.5	02/21/2023	1210	G	S				H		HOLD SAMPLE
DU-5-SW-F-0-1.5	02/21/2023	1220	G	S				H		HOLD SAMPLE
DU-5-SW-G-0-1.5	02/21/2023	1230	G	S				H		HOLD SAMPLE
DU-5-SW-H-0-1.5	02/21/2023	1245	G	S				H		HOLD SAMPLE
DU-5-SW-I-0-1.5	02/21/2023	1300	G	S				H		HOLD SAMPLE
DU-5-SW-J-0-1.5	02/21/2023	1310	G	S				H		HOLD SAMPLE

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: Report data to the MDL/EDL. Email Level II PDF and EQUIS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for Months

Do not dispose of samples without prior authorization from Sarah Von Raesfeld.

Custody Seal Impact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Therm ID No.:
Relinquished by: <i>Sarah Von Raesfeld</i>	Company: Stantec	Date/Time: 3/2/23 9:00
Relinquished by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:



Arvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Eurofins Environment Testing America

COC No. 5 of 4 COCs

Project Manager: Sarah Von Raesfeld

Regulatory Program: DW NPDES RCRA Other:

Site Contact: Paul Janney

Lab Contact: Shelby Turner

Date: Carrier: FedEx

TALS Project #:

Sampler: Paul Janney

For Lab Use Only:

Walk-in Client:

Lab Sampling:

Job / SDG No.:

Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		ISM Sample Processing		Dioxins by EPA Method 1631B	
						Y	N	Y	N	Y	N	Y	N
DU-5-NE-1.5-3	02/22/2023	1030	C	S	1	N		N		X		X	
DU-5-NE-A-1.5-3	02/27/2023	0845	G	S	1							H	HOLD SAMPLE
DU-5-NE-B-1.5-3	02/22/2023	0855	G	S	1							H	HOLD SAMPLE
DU-5-NE-C-1.5-3	02/22/2023	0905	G	S	1							H	HOLD SAMPLE
DU-5-NE-D-1.5-3	02/22/2023	0915	G	S	1							H	HOLD SAMPLE
DU-5-NE-E-1.5-3	02/22/2023	0925	G	S	1							H	HOLD SAMPLE
DU-5-NE-F-1.5-3	02/22/2023	0935	G	S	1							H	HOLD SAMPLE
DU-5-NE-G-1.5-3	02/22/2023	0945	G	S	1							H	HOLD SAMPLE
DU-5-NE-H-1.5-3	02/22/2023	0955	G	S	1							H	HOLD SAMPLE
DU-5-NE-I-1.5-3	02/22/2023	1005	G	S	1							H	HOLD SAMPLE
DU-5-NE-J-1.5-3	02/22/2023	1015	G	S	1							H	HOLD SAMPLE

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:

Report data to the MDL/EDL.
Email Level II PDF and EQuIS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Custody Seal Infract: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C):	Obs'd: 4.4	Corr'd: 4.4	Therm ID No.:
Relinquished by: <i>Paul Janney</i>	Company: Stantec	Date/Time: 2/22/2023 10:00	Received by: <i>Shelby Turner</i>	Company: <i>ECI Inc</i>	Date/Time: 2/22/2023 9:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:



Anvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Regulatory Program: DW NPDES RCRA Other:

Eurofins Environment Testing America
COC No. 6 of 10 COCs

Client Contact
Stantec Consulting
1340 Treat Blvd. Suite 300
Walnut Creek, CA 94597
Phone Tel: (925) 941-1400
FAX
Project Name: Ko'Kwel Wharf Property
Site:
P O # 185751418

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com
Tel/Fax:
Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below: Standard
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Paul Janney
Lab Contact: Shelby Turner
Carrier: FedEx
Dioxins by EPA Method 16318
ISM Sample Processing
Perform MS / MSD (Y / N)
Filtered Sample (Y / N)

Sampler: Paul Janney
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification

Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:
02/22/2023	1020	C	S	1	
02/22/2023	0940	G	S	1	HOLD SAMPLE
02/22/2023	0930	G	S	1	HOLD SAMPLE
02/22/2023	0900	G	S	1	HOLD SAMPLE
02/22/2023	0910	G	S	1	HOLD SAMPLE
02/22/2023	0910	G	S	1	HOLD SAMPLE
02/22/2023	0930	G	S	1	HOLD SAMPLE
02/22/2023	0940	G	S	1	HOLD SAMPLE
02/22/2023	0950	G	S	1	HOLD SAMPLE
02/22/2023	1000	G	S	1	HOLD SAMPLE
02/22/2023	1010	G	S	1	HOLD SAMPLE

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:
Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for Months

Custody Seal Intact: Yes No

Relinquished by: Paul M. Janney
Relinquished by: [Signature]
Relinquished by:

Company: Stantec
Company:
Company:

Date/Time: 2/24/23 10:00
Date/Time: 2/23/23 9:00
Date/Time:

Received by: [Signature]
Received by:
Received in Laboratory by:

Company: Stantec
Company:
Company:

Therm ID No.: 669
Therm ID No.:
Therm ID No.:

Do not dispose of samples without prior authorization from Sarah Von Raesfeld.
Email Level II PDF and EQuIS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.



Arvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Eurofins Environment Testing America
COC No: 7 of 16 COCs

Regulatory Program: DW NPDES RCRA Other:

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com

Client Contact
Stantec Consulting
1340 Treat Blvd, Suite 300
Walnut Creek, CA 94597
Phone Tel: (925) 941-1400
FAX

Site:
P O # 185751418

Project Name: Ko'kwei Wharf Property

Analysis Turnaround Time
CALENDAR DAYS WORKING DAYS

TAT if different from Below: Standard
2 weeks
1 week
2 days
1 day

Site Contact: Paul Janney
Lab Contact: Shelby Turner
Carrier: FedEx

Sampler: Paul Janney
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification

Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	ISM Sample Processing	Dioxins by EPA Method 1631B	Sample Specific Notes:
02/21/2023	1050	C	S	1	N	X	X	X	HOLD SAMPLE
02/21/2023	0855	G	S	1	N	X	X	H	HOLD SAMPLE
02/21/2023	0905	G	S	1	N	X	X	H	HOLD SAMPLE
02/21/2023	0915	G	S	1	N	X	X	H	HOLD SAMPLE
02/21/2023	0935	G	S	1	N	X	X	H	HOLD SAMPLE
02/21/2023	0945	G	S	1	N	X	X	H	HOLD SAMPLE
02/21/2023	1000	G	S	1	N	X	X	H	HOLD SAMPLE
02/21/2023	1010	G	S	1	N	X	X	H	HOLD SAMPLE
02/21/2023	1020	G	S	1	N	X	X	H	HOLD SAMPLE
02/21/2023	1030	G	S	1	N	X	X	H	HOLD SAMPLE
02/21/2023	1040	G	S	1	N	X	X	H	HOLD SAMPLE

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/OC Requirements & Comments: Report data to the MDU/EDL. Email Level II PDF and EQUIS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.

Custody Seals Intact: Yes No

Relinquished by: Paul W. Jensen

Relinquished by: Company: Stantec

Relinquished by: Company: Stantec

Relinquished by: Company: Stantec

Relinquished by: Company: Stantec

Relinquished by: Company: Stantec

Relinquished by: Company: Stantec

Relinquished by: Company: Stantec

Relinquished by: Company: Stantec

Relinquished by: Company: Stantec

Relinquished by: Company: Stantec

Relinquished by: Company: Stantec



Arvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Regulatory Program: DW NPDES RCRA Other:

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com

Eurofins Environment Testing America
COC No: 14 of 14 COCs

Client Contact
Stantec Consulting
1340 Treat Blvd, Suite 300
Walnut Creek, CA 94597
Phone Tel: (925) 941-1400
FAX
Project Name: Ko'Kwe'l Wharf Property
Site:
P O # 185751418

Site Contact: Paul Janney
Date:
Carrier: FedEx

Lab Contact: Shelby Turner
Dioxins by EPA Method 1631B
ISM Sample Processing
Perform MS / MSD (Y / N)
Filtered Sample (Y / N)

Analyses Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below: Standard
2 weeks
1 week
2 days
1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:
DU-5-NW-1.5-3	02/21/2023	1100	C	S	1	
DU-5-NW-A-1.5-3	02/21/2023	0900	G	S	1	HOLD SAMPLE
DU-5-NW-B-1.5-3	02/21/2023	0905	G	S	1	HOLD SAMPLE
DU-5-NW-C-1.5-3	02/21/2023	0915	G	S	1	HOLD SAMPLE
DU-5-NW-D-1.5-3	02/21/2023	0940	G	S	1	HOLD SAMPLE
DU-5-NW-E-1.5-3	02/21/2023	0950	G	S	1	HOLD SAMPLE
DU-5-NW-F-1.5-3	02/21/2023	1005	G	S	1	HOLD SAMPLE
DU-5-NW-G-1.5-3	02/21/2023	1015	G	S	1	HOLD SAMPLE
DU-5-NW-H-1.5-3	02/21/2023	1025	G	S	1	HOLD SAMPLE
DU-5-NW-I-1.5-3	02/21/2023	1035	G	S	1	HOLD SAMPLE
DU-5-NW-J-1.5-3	02/21/2023	1045	G	S	1	HOLD SAMPLE

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
Report data to the MDL/EDL.
Email Level II PDF and EQUIS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.

Custody Seals Intact: Yes No

Relinquished by: *Paul M. Janney* Company: Stantec
Date/Time: 2/23/23 9:00
Therm ID No: 606

Relinquished by: *Shelby Turner* Company: Eurofins
Date/Time: 2/23/23 9:00

Relinquished by: _____ Company: _____
Date/Time: _____

Do not dispose of samples without prior authorization from Sarah Von Raesfeld.

Arvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Regulatory Program: DW NPDES RCRA Other:

Eurofins Environment Testing America
COC No: 2 of 14 COCs

Client Contact
Stantec Consulting
1340 Treat Blvd. Suite 300
Walnut Creek, CA 94597
Phone Tel: (925) 941-1400
FAX
Project Name: Ko'Kwel Wharf Property
Site:
P O # 185751418

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com
Tel/Fax:
 CALENDAR DAYS WORKING DAYS
Analysis Turnaround Time
TAT, if different from Below: Standard
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Paul Janney
Lab Contact: Shelby Turner
Carrier: FedEx

Site: RCRA Other:
Site Contact: Paul Janney
Lab Contact: Shelby Turner
Carrier: FedEx

For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Sample Specific Notes:				
						Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	ISM Sample Processing	Dioxins by EPA Method 1631B	
DU-6-SE-1.5-3	02/23/2023	1040	C	S	1	N	N	X	X	HOLD SAMPLE
DU-6-SE-A-1.5-3	02/23/2023	0950	G	S	1	N	N	H	H	HOLD SAMPLE
DU-6-SE-B-1.5-3	02/23/2023	0900	G	S	1	N	N	H	H	HOLD SAMPLE
DU-6-SE-C-1.5-3	02/23/2023	0910	G	S	1	N	N	H	H	HOLD SAMPLE
DU-6-SE-D-1.5-3	02/23/2023	0920	G	S	1	N	N	H	H	HOLD SAMPLE
DU-6-SE-E-1.5-3	02/23/2023	0930	G	S	1	N	N	H	H	HOLD SAMPLE
DU-6-SE-F-1.5-3	02/23/2023	0940	G	S	1	N	N	H	H	HOLD SAMPLE
DU-6-SE-G-1.5-3	02/23/2023	0950	G	S	1	N	N	H	H	HOLD SAMPLE
DU-6-SE-H-1.5-3	02/23/2023	1000	G	S	1	N	N	H	H	HOLD SAMPLE
DU-6-SE-I-1.5-3	02/23/2023	1010	G	S	1	N	N	H	H	HOLD SAMPLE
DU-6-SE-J-1.5-3	02/23/2023	1020	G	S	1	N	N	H	H	HOLD SAMPLE

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazardous Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
Report data to the MDL/EDL.
Email Level II PDF and EQuIS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.

Return to Client Dispose by Lab Archive for Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Custody Seals Intact: Yes No

Relinquished by: Sarah Von Raesfeld
Company: Stantec
Date/Time: 2/23/2023 10:00

Relinquished by: [Signature]
Company: [Signature]
Date/Time: 2/23/2023 10:00

Relinquished by: [Signature]
Company: [Signature]
Date/Time: 2/23/2023 10:00

Custody Seal No.: 602

Therm ID No.: 602

Receiver by: [Signature]
Company: [Signature]
Date/Time: 2/23/2023 10:00

Received by: [Signature]
Company: [Signature]
Date/Time: 2/23/2023 10:00

Received in Laboratory by: [Signature]
Company: [Signature]
Date/Time: 2/23/2023 10:00



Avada CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Eurofins Environment Testing America

Regulatory Program: DW NPDES RCRA Other:

Client Contact
Stantec Consulting
1340 Treat Blvd, Suite 300
Walnut Creek, CA 94597
Phone Tel: (925) 941-1400
FAX
Project Name: Ko'Kwei Wharf Property
Site:
P O # 185751418

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com
Tel/Fax:
Analysis Turnaround Time
CALENDAR DAYS WORKING DAYS
TAT if different from Below: Standard
2 weeks
1 week
2 days
1 day

Site Contact: Paul Janney Date: _____
Lab Contact: Shelby Turner Carrier: FedEx

COC No: _____ of _____ COCs

TALS Project #:
Sampler: Paul Janney
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job /SDG No.:

Sample Specific Notes:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	ISM Sample Processing	Dioxins by EPA Method 1613B	Perform MS /MSD (Y/N)	Return to Client	Disposal by Lab	Archive for	Months
DU-6-SE-0-1.5	02/23/2023	030	C	S	1	N	X	X	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DU-6-SE-A-0-1.5	02/23/2023	0445	G	S	1			H					
DU-6-SE-B-0-1.5	02/23/2023	0555	G	S	1			H					
DU-6-SE-C-0-1.5	02/23/2023	0905	G	S	1			H					
DU-6-SE-D-0-1.5	02/23/2023	0915	G	S	1			H					
DU-6-SE-E-0-1.5	02/23/2023	0925	G	S	1			H					
DU-6-SE-F-0-1.5	02/23/2023	0935	G	S	1			H					
DU-6-SE-G-0-1.5	02/23/2023	0945	G	S	1			H					
DU-6-SE-H-0-1.5	02/23/2023	0955	G	S	1			H					
DU-6-SE-I-0-1.5	02/23/2023	1005	G	S	1			H					
DU-6-SE-J-0-1.5	02/23/2023	1015	G	S	1			H					

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:

Report data to the MDL/EDL.
Email Level II PDF and EquiS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.

Do not dispose of samples without prior authorization from Sarah Von Raesfeld.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Custody Seals Intact: Yes No

Relinquished by: *Paul M. Janney* Company: Stantec

Relinquished by: _____ Company: _____

Relinquished by: _____ Company: _____

Date/Time: 2/23/2023 8:40:13 AM

Date/Time: 2/23/2023 1:00

Date/Time: _____

Date/Time: _____

Coolant Temp. (°C): Obs'd: 4.4

Received by: *See*

Received by: _____

Received in Laboratory by: _____

Therm ID No.: _____

Date/Time: 2/23/2023 9:00

Date/Time: _____

Date/Time: _____



Anvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Regulatory Program: DW NPDES RCRA Other:

Eurofins Environment Testing America

COC No. 11 of 10 COCs

Client Contact
Stantec Consulting
1340 Treat Blvd., Suite 300
Walnut Creek, CA 94597
Phone Tel: (925) 941-1400
FAX
Project Name: Ko'Kwei Wharf Property
Site:
P O # 185751418

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com
Tel/Fax:

Site Contact: Paul Janney
Lab Contact: Shelby Turner
Date:
Carrier: FedEx

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below: Standard
 2 weeks
 1 week
 2 days
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:	
						Filtered Sample (Y/N)	ISM Sample Processing
DU-6-SW-1.5-3	02/22/2023	1530	C	S	1	N	X
DU-6-SW-A-1.5-3	02/22/2023	1345	G	S	1	H	
DU-6-SW-B-1.5-3	02/22/2023	1355	G	S	1	H	
DU-6-SW-C-1.5-3	02/22/2023	1405	G	S	1	H	
DU-6-SW-D-1.5-3	02/22/2023	1415	G	S	1	H	
DU-6-SW-E-1.5-3	02/22/2023	1425	G	S	1	H	
DU-6-SW-F-1.5-3	02/22/2023	1435	G	S	1	H	
DU-6-SW-G-1.5-3	02/22/2023	1445	G	S	1	H	
DU-6-SW-H-1.5-3	02/22/2023	1455	G	S	1	H	
DU-6-SW-I-1.5-3	02/22/2023	1505	G	S	1	H	
DU-6-SW-J-1.5-3	02/22/2023	1515	G	S	1	H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
Report data to the MDL/EDL.
Email Level II PDF and EQuIS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Custody Seal No.: Yes No

Relinquished by: *Sarah Von Raesfeld* Company: Stantec
Relinquished by: _____ Company: _____
Relinquished by: _____ Company: _____

Received by: _____ Date/Time: 2/22/23 1530
Received by: _____ Date/Time: 2/22/23 1530

Received by: _____ Date/Time: 2/22/23 1530
Received by: _____ Date/Time: 2/22/23 1530

Received in Laboratory by: _____ Date/Time: _____

Therm ID No.: _____ Cooler Temp. (°C): Obs'd: 4.4 Corr'd: 4.4
Date/Time: 2/22/23 920



Arvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Regulatory Program: DW NPDES RCRA Other:

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com

Client Contact
Siantec Consulting
1340 Treat Blvd, Suite 300
Walnut Creek, CA 94597
Phone Tel: (925) 941-1400
FAX
Project Name: Ko'Kwei Wharf Property
Site:
P O # 185751418

Site Contact: Paul Janney Date: 12 of 14 COCs
Lab Contact: Shelby Turner Carrier: FedEx
ISM Sample Processing
Dioxins by EPA Method 16318
Perform MS/MSD (Y/N)
Filtered Sample (Y/N)

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Analysis Turnaround Time		Sample Specific Notes:
						CALENDAR DAYS	WORKING DAYS	
DU-6-SW-0-1.5	02/22/2023	1520	C	S	1			
DU-6-SW-A-0-1.5	02/22/2023	1340	G	S	1			HOLD SAMPLE
DU-6-SW-B-0-1.5	02/22/2023	1350	G	S	1			HOLD SAMPLE
DU-6-SW-C-0-1.5	02/22/2023	1400	G	S	1			HOLD SAMPLE
DU-6-SW-D-0-1.5	02/22/2023	1410	G	S	1			HOLD SAMPLE
DU-6-SW-E-0-1.5	02/22/2023	1420	G	S	1			HOLD SAMPLE
DU-6-SW-F-0-1.5	02/22/2023	1430	G	S	1			HOLD SAMPLE
DU-6-SW-G-0-1.5	02/22/2023	1440	G	S	1			HOLD SAMPLE
DU-6-SW-H-0-1.5	02/22/2023	1450	G	S	1			HOLD SAMPLE
DU-6-SW-I-0-1.5	02/22/2023	1500	G	S	1			HOLD SAMPLE
DU-6-SW-J-0-1.5	02/22/2023	1510	G	S	1			HOLD SAMPLE

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments: Report data to the MDL/EDL. Email Level II PDF and EQuIS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com
Tel/Fax:
Analysis Turnaround Time
TAT if different from Below: Standard
2 weeks
1 week
2 days
1 day

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return to Client Disposal by Lab Archive for _____ Months

Custody Seal No.: _____
Relinquished by: [Signature] Yes No
Relinquished by: _____
Relinquished by: _____

Company: Stantec
Company: _____
Company: _____

Received by: [Signature]
Received by: _____
Received in Laboratory by: _____

Date/Time: 3/1/23
Date/Time: 3/1/23
Date/Time: 9:00

Therm ID No.: 9-4
Corr'd: 9-4



Arvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Regulatory Program: DW NPDES RCRA Other:

Euofins Environment Testing America
COC No. 13 of 10 COCs

Client Contact
Stantec Consulting
1340 Treat Blvd. Suite 300
Walnut Creek, CA 94597
Phone Tel: (925) 941-1400
FAX
Project Name: Ko Kweil Wharf Property
Site:
P O # 185751418

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com
Tel/Fax:

Site Contact: Paul Janney
Lab Contact: Shelby Turner

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below: Standard
 2 weeks
 1 week
 2 days
 1 day

Date: _____
Carrier: FedEx

Sampler: Paul Janney

For Lab Use Only:
Walk-in Client: _____
Lab Sampling: _____
Job / SDG No.: _____

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)			ISM Sample Processing			Sample Specific Notes:
						Performs MS/MSD (Y/N)	Performs MS/MSD (Y/N)	Performs MS/MSD (Y/N)	Dioxins by EPA Method 1631B	Dioxins by EPA Method 1631B	Dioxins by EPA Method 1631B	
DU-6-NE-0-1.5	02/23/2023	1230	C	S	1	N	N	X	X	X		HOLD SAMPLE
DU-6-NE-A-0-1.5	02/23/2023	1030	G	S	1							HOLD SAMPLE
DU-6-NE-B-0-1.5	02/23/2023	1100	G	S	1							HOLD SAMPLE
DU-6-NE-C-0-1.5	02/23/2023	1110	G	S	1							HOLD SAMPLE
DU-6-NE-D-0-1.5	02/23/2023	1120	G	S	1							HOLD SAMPLE
DU-6-NE-E-0-1.5	02/23/2023	1130	G	S	1							HOLD SAMPLE
DU-6-NE-F-0-1.5	02/23/2023	1140	G	S	1							HOLD SAMPLE
DU-6-NE-G-0-1.5	02/23/2023	1150	G	S	1							HOLD SAMPLE
DU-6-NE-H-0-1.5	02/23/2023	1200	G	S	1							HOLD SAMPLE
DU-6-NE-I-0-1.5	02/23/2023	1210	G	S	1							HOLD SAMPLE
DU-6-NE-J-0-1.5	02/23/2023	1220	G	S	1							HOLD SAMPLE

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
Report data to the MDL/EDL.
Email Level II PDF and EQUIS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Custody Seal No.: _____
Relinquished by: *Paul Janney* Yes No
Relinquished by: _____
Relinquished by: _____

Company: Stantec
Company: Stantec
Company: _____

Received by: _____
Received by: _____
Received in Laboratory by: _____

Date/Time: 2/23/2023 12:30
Date/Time: 2/23/2023 12:30
Date/Time: _____

Cooler Temp. (°C): Obs'd: 44 Corr'd: 44 Therm ID No.: 602



Anvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Regulatory Program: DW NPDES RCRA Other:
Eurofins Environment Testing America

Client Contact
Stantec Consulting
1340 Treat Blvd, Suite 300
Walnut Creek, CA 94597
Phone Tel: (925) 941-1400
FAX
Project Name: Ko'Kwei Wharf Property
Site:
P O # 185751418

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com
Tel/Fax:
Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below: Standard
2 weeks
1 week
2 days
1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	# of Matrix Cont.	Filtered Sample (Y/N)	ISM Sample Processing	Dioxins by EPA Method 1613B	Perform MS / MSD (Y/N)	Date	Carrier: FedEx	COC No: 14 of 10 COCs	Sample Specific Notes:
DU-6-NE-1.5-3	02/23/2023	1235	C	S	1	N	X	N				
DU-6-NE-A-1.5-3	02/23/2023	1055	G	S	1		H					HOLD SAMPLE
DU-6-NE-B-1.5-3	02/23/2023	1105	G	S	1		H					HOLD SAMPLE
DU-6-NE-C-1.5-3	02/23/2023	1115	G	S	1		H					HOLD SAMPLE
DU-6-NE-D-1.5-3	02/23/2023	1125	G	S	1		H					HOLD SAMPLE
DU-6-NE-E-1.5-3	02/23/2023	1135	G	S	1		H					HOLD SAMPLE
DU-6-NE-F-1.5-3	02/23/2023	1145	G	S	1		H					HOLD SAMPLE
DU-6-NE-G-1.5-3	02/23/2023	1155	G	S	1		H					HOLD SAMPLE
DU-6-NE-H-1.5-3	02/23/2023	1205	G	S	1		H					HOLD SAMPLE
DU-6-NE-I-1.5-3	02/23/2023	1215	G	S	1		H					HOLD SAMPLE
DU-6-NE-J-1.5-3	02/23/2023	1225	G	S	1		H					HOLD SAMPLE

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
Report data to the MDL/EDL.
Email Level II PDF and EQUIS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.

Custody Seals Intact: Yes No
Relinquished by: *Sarah Von Raesfeld*
Relinquished by: *Paul Janney*
Relinquished by:

Company: Stantec
Company: Stantec
Company: Company

Date/Time: 2/23/23 11:53
Date/Time: 2/23/23 10:55
Date/Time: 2/23/23 11:05
Date/Time: 2/23/23 11:15
Date/Time: 2/23/23 11:25
Date/Time: 2/23/23 11:35
Date/Time: 2/23/23 11:45
Date/Time: 2/23/23 11:55
Date/Time: 2/23/23 12:05
Date/Time: 2/23/23 12:15
Date/Time: 2/23/23 12:25

Therm ID No: 102
Date/Time: 2/23/23 9:00
Date/Time: 2/23/23 9:00

Received by: *Paul Janney*
Received by: *Paul Janney*
Received in Laboratory by: Company



Arvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Regulatory Program: DW NPDES RCRA Other:

Eurofins Environment Testing America
COC No: 15 of 17 COCs

Client Contact
Stantec Consulting
1340 Treat Blvd. Suite 300
Walnut Creek, CA 94597
Phone Tel: (925) 941-1400
FAX

Project Name: Ko'Kwel Wharf Property
Site:
P O # 185751418

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com
Tel/Fax:

Site Contact: Paul Janney
Lab Contact: Shelby Turner
Date:
Carrier: FedEx

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below: Standard
 2 weeks
 1 week
 2 days
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	ISM Sample Processing	Dioxins by EPA Method 1631B	Lab Contact: Shelby Turner	Date:	Carrier: FedEx
DU-6-NW-1.5-3	02/22/2023	1250	C	S	1	N	N	X	X			
DU-6-NW-A-1.5-3	02/22/2023	1100	G	S	1			H				HOLD SAMPLE
DU-6-NW-B-1.5-3	02/22/2023	1110	G	S	1			H				HOLD SAMPLE
DU-6-NW-C-1.5-3	02/22/2023	1120	G	S	1			H				HOLD SAMPLE
DU-6-NW-D-1.5-3	02/22/2023	1130	G	S	1			H				HOLD SAMPLE
DU-6-NW-E-1.5-3	02/22/2023	1140	G	S	1			H				HOLD SAMPLE
DU-6-NW-F-1.5-3	02/22/2023	1150	G	S	1			H				HOLD SAMPLE
DU-6-NW-G-1.5-3	02/22/2023	1200	G	S	1			H				HOLD SAMPLE
DU-6-NW-H-1.5-3	02/22/2023	1210	G	S	1			H				HOLD SAMPLE
DU-6-NW-I-1.5-3	02/22/2023	1220	G	S	1			H				HOLD SAMPLE
DU-6-NW-J-1.5-3	02/22/2023	1230	G	S	1			H				HOLD SAMPLE

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazardous Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:

Return to Client Disposal by Lab Archive for _____ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Do not dispose of samples without prior authorization from Sarah Von Raesfeld.

Custody Seal No.: _____
Relinquished by: *Paul Janney* Yes No
Relinquished by: _____
Relinquished by: _____

Company: Stantec
Company: _____
Company: _____

Date/Time: 2/22/2023 1600
Date/Time: _____
Date/Time: _____

Received by: _____
Received by: _____
Received in Laboratory by: _____

Cooler Temp. (°C): Obs'd: 4.4
Therm ID No.: 914
Cor'd: 914



Arvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Eurofins Environment Testing America

Regulatory Program: DW NPDES RCRA Other:

COC No: 16 of 17 COCs

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com

Site Contact: Paul Janney
Lab Contact: Shelby Turner

Date: Carrier: FedEx

Client Contact
Stantec Consulting
1340 Treat Blvd, Suite 300
Wainut Creek, CA 94597
Phone Tel: (925) 941-1400
FAX
Project Name: KoKwei Wharf Property
Site:
P O # 185751418

Regulatory Program: DW NPDES RCRA Other:

Project Manager: Sarah Von Raesfeld
Email: sarah.vonraesfeld@stantec.com

Tel/Fax:

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
TAT if different from Below: Standard
2 weeks
1 week
2 days
1 day

Site Contact: Paul Janney
Lab Contact: Shelby Turner

Date: **Carrier:** FedEx

COC No: 16 of 17 **COCs**

SAMPLER: Paul Janney
For Lab Use Only:
Walk-in Client:
Lab Sampling:
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	ISM Sample Processing	Dioxins by EPA Method 1631B	Sample Specific Notes:	
										HOLD SAMPLE	HOLD SAMPLE
DU-6-NW-0-1.5	02/22/2023	1240	C	S	1	N	N	X	X		
DU-6-NW-A-0-1.5	02/22/2023	1055	G	S	1			H			HOLD SAMPLE
DU-6-NW-B-0-1.5	02/22/2023	1105	G	S	1			H			HOLD SAMPLE
DU-6-NW-C-0-1.5	02/22/2023	1115	G	S	1			H			HOLD SAMPLE
DU-6-NW-D-0-1.5	02/22/2023	1125	G	S	1			H			HOLD SAMPLE
DU-6-NW-E-0-1.5	02/22/2023	1135	G	S	1			H			HOLD SAMPLE
DU-6-NW-F-0-1.5	02/22/2023	1145	G	S	1			H			HOLD SAMPLE
DU-6-NW-G-0-1.5	02/22/2023	1155	G	S	1			H			HOLD SAMPLE
DU-6-NW-H-0-1.5	02/22/2023	1205	G	S	1			H			HOLD SAMPLE
DU-6-NW-I-0-1.5	02/22/2023	1215	G	S	1			H			HOLD SAMPLE
DU-6-NW-J-0-1.5	02/22/2023	1225	G	S	1			H			HOLD SAMPLE

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
Report data to the MDL/EDL.
Email Level II PDF and EQUIS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Custody Seal No.: _____
Relinquished by: *Sarah Von Raesfeld*
Relinquished by: _____
Relinquished by: _____

Company: Stantec
Company: _____
Company: _____

Date/Time: 2/22/23 16:00
Date/Time: _____
Date/Time: _____

Resealed by: _____
Received by: _____
Received in Laboratory by: _____

Cooler Temp. (°C): Obs'd: 4.4 Corr'd: 4.4
Therm ID No.: 602

Company: *PEI SAC*
Company: _____
Company: _____

Date/Time: 3/2/23 9:00
Date/Time: _____
Date/Time: _____



Arvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Regulatory Program: DW NPDES RCRA Other:

Eurofins Environment Testing America

Client Contact Stantec Consulting 1340 Treat Blvd Suite 300 Walnut Creek, CA 94597 Phone Tel: (925) 941-1400 FAX Project Name: Ko'Kwel Wharf Property Site P O # 185751418		Project Manager: Sarah Von Raesfeld Email: sarah.vonraesfeld@stantec.com Tel/Fax:		Site Contact: Paul Janney Lab Contact: Shelby Turner		Date: _____ Carrier: FedEx		COC No. 17 of 15 COCs TALS Project # Sampler: Paul Janney For Lab Use Only: Walk-in Client Lab Sampling Job / SDG No.							
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sample Date 02/23/2023 02/23/2023 02/23/2023 02/23/2023 02/23/2023 02/23/2023 02/23/2023 02/23/2023 02/23/2023 02/23/2023 2/23/23 2/23/23 2/23/23		Sample Time 1305 1310 1310 1325 1325 1330 1340 1345 1400 1250 1255 1300		Sample Type (C=Comp, G=Grab) C G G G G G G G G G G G G G G		Matrix S S S S S S S S W S S S S		# of Cont. 1 1 1 1 1 1 1 1 1 2 1 1 1		Filtered Sample (Y/N) Perform MS/MSD (Y/N) ISM Sample Processing Dioxins by EPA Method 1631B		Sample Specific Notes: Held Sample	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other															
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.															
Special Instructions/QC Requirements & Comments: <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown															
Report data to the MDL/EDL Email Level II PDF and EQUIS EDD to sarah.vonraesfeld@stantec.com and graeme.taylor@stantec.com.															
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: Company: Stantec Company: Stantec Company:		Relinquished by: Relinquished by: Paul M. Janney Relinquished by:		Relinquished by: Relinquished in Laboratory by:		Cooler Temp. (°C): Obs'd 4.4 Cor'd 4.4 Therm ID No. 102 Date/Time: 2/23/23 15:00 Date/Time: 2/23/23 9:00 Company: Stantec Company: Company:							



Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 320-97305-1

Login Number: 97305

List Source: Eurofins Sacramento

List Number: 1

Creator: Oropeza, Salvador

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	





ANALYTICAL REPORT

PREPARED FOR

Attn: Paul Janney
Stantec Consulting Corporation
601 SW 2nd Ave.
Suite 1400
Portland, Oregon 97204

Generated 5/30/2023 10:16:01 AM

JOB DESCRIPTION

Ko'Kwel Wharf Property

JOB NUMBER

320-97305-2

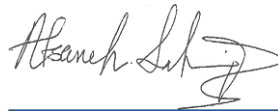
Job Notes

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender and destroy this report immediately. This report shall not be reproduced except in full, without prior express written approval by the laboratory.

The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northern California, LLC Project Manager.

Authorization



Generated
5/30/2023 10:16:01 AM

Authorized for release by
Afsaneh Salimpour, Senior Project Manager
Afsaneh.Salimpour@et.eurofinsus.com
(925)484-1919



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Client Sample Results	23
Surrogate Summary	64
Isotope Dilution Summary	66
QC Sample Results	71
QC Association Summary	80
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Certification Summary	96
Method Summary	97
Sample Summary	98
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Definitions/Glossary

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Qualifiers

Dioxin

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Job ID: 320-97305-2

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-97305-2

Comments

No additional comments.

Receipt

The samples were received on 3/2/2023 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 3.7° C, 3.9° C, 4.4° C and 4.8° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SB-08-S-1-1.5 (320-97305-179). Sample 179, Container ID has SB-08-S-0-1.5 COC lists ID as SB-08-S-1-1.5. Sample logged in and labeled according to COC.

Dioxin

Method 1613B: The concentration of OCDD associated with the following samples exceeded the instrument calibration range: DU-6-NW-H-0-1.5 (320-97305-174) and DU-6-NW-I-0-1.5 (320-97305-175). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Method 1613B: The Isotope Dilution Analyte (IDA) recovery associated with the following samples are below the method recommended limit: DU-6-NW-F-0-1.5 (320-97305-172) and DU-6-NW-H-0-1.5 (320-97305-174). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 1613B: The following samples exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): DU-6-SW-B-0-1.5 (320-97305-124) and DU-6-SW-F-0-1.5 (320-97305-128). The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

Method 1613B: The following samples exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): DU-6-NW-F-0-1.5 (320-97305-172) and DU-6-NW-H-0-1.5 (320-97305-174). The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

Method 1613B: The concentration of OCDD associated with the following sample exceeded the instrument calibration range: DU-6-SW-F-0-1.5 (320-97305-128). This analyte has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Method 1613B: The following samples exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): DU-6-NW-D-0-1.5 (320-97305-170). The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

Method 1613B: The concentration of OCDD associated with the following sample exceeded the instrument calibration range: DU-6-NW-D-0-1.5 (320-97305-170). This analyte has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD associated with the following samples run on instrument 11D2 exceeded this criteria: DU-6-SW-A-0-1.5 (320-97305-123), DU-6-SW-B-0-1.5 (320-97305-124), DU-6-SW-C-0-1.5 (320-97305-125), DU-6-SW-D-0-1.5 (320-97305-126), DU-6-SW-E-0-1.5 (320-97305-127), DU-6-SW-F-0-1.5 (320-97305-128), DU-6-SW-G-0-1.5 (320-97305-129), DU-6-SW-H-0-1.5 (320-97305-130), DU-6-SW-J-0-1.5 (320-97305-132), DU-6-NW-A-0-1.5 (320-97305-167) and (CCV 320-676782/2). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated

Case Narrative

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Job ID: 320-97305-2 (Continued)

Laboratory: Eurofins Sacramento (Continued)

for proper analyte identification.

Method 1613B: The following samples exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): DU-5-SE-B-0-1.5 (320-97305-3). The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

Method 1613B: The concentration OCDD associated with the following sample exceeded the instrument calibration range: DU-5-SE-I-0-1.5 (320-97305-10). This analyte has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Method 1613B: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: DU-5-SE-G-0-1.5 (320-97305-8). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 1613B: The Isotope Dilution Analyte (IDA) recovery associated with the following samples is below the method recommended limit: DU-5-SE-B-0-1.5 (320-97305-3), DU-5-SE-C-0-1.5 (320-97305-4), DU-5-SE-D-0-1.5 (320-97305-5), DU-5-SE-F-0-1.5 (320-97305-7) and DU-5-SE-H-0-1.5 (320-97305-9). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the samples.

Method 1613B: The following samples exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): DU-5-SE-J-0-1.5 (320-97305-11), DU-5-NE-B-0-1.5 (320-97305-58), DU-5-NE-C-0-1.5 (320-97305-59), DU-5-NE-F-0-1.5 (320-97305-62), DU-5-NE-H-0-1.5 (320-97305-64) and DU-5-NE-I-0-1.5 (320-97305-65). The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

Method 1613B: The concentration of one or more analytes associated with the following samples exceeded the instrument calibration range: DU-5-NE-B-0-1.5 (320-97305-58), DU-5-NE-C-0-1.5 (320-97305-59) and DU-5-NE-H-0-1.5 (320-97305-64). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Method 1613B: The Isotope Dilution Analyte (IDA) recovery associated with the following samples is below the method recommended limit: DU-5-SE-J-0-1.5 (320-97305-11), DU-5-NE-C-0-1.5 (320-97305-59), DU-5-NE-F-0-1.5 (320-97305-62), DU-5-NE-G-0-1.5 (320-97305-63), DU-5-NE-H-0-1.5 (320-97305-64) and DU-5-NE-I-0-1.5 (320-97305-65). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the samples.

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD associated with the following samples run on instrument 11D2 exceeded this criteria: DU-6-SW-I-0-1.5 (320-97305-131), DU-6-NW-B-0-1.5 (320-97305-168), DU-6-NW-C-0-1.5 (320-97305-169), DU-6-NW-D-0-1.5 (320-97305-170), DU-6-NW-E-0-1.5 (320-97305-171) and (CCV 320-677005/2). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

Method 1613B: The Isotope Dilution Analytes (IDAs 13C-OCDD and/or 13C-1,2,3,4,7,8,9-HpCDF) recovery associated with the following samples is below the method recommended limit: DU-5-NE-A-0-1.5 (320-97305-57) and DU-5-NE-J-0-1.5 (320-97305-66). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the samples. The low recovery is most likely due to matrix interference which is easily seen in the chromatograms and lockmass traces.

Method 1613B: The concentration of OCDD and 1,2,3,4,6,7,8-HpCDD associated with the following sample exceeded the instrument calibration range: DU-5-NE-A-0-1.5 (320-97305-57). These analytes have been qualified; however, the peaks did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

Method 1613B: The following sample exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): DU-5-NE-A-0-1.5 (320-97305-57). The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

Case Narrative

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Job ID: 320-97305-2 (Continued)

Laboratory: Eurofins Sacramento (Continued)

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD associated with the following samples run on instrument 11D2 exceeded this criteria: DU-5-SE--A-0-1.5 (320-97305-2), DU-5-SE-B-0-1.5 (320-97305-3), DU-5-SE-C-0-1.5 (320-97305-4), DU-5-SE-D-0-1.5 (320-97305-5), DU-5-SE-I-0-1.5 (320-97305-10) and (CCV 320-677287/2). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD associated with the following samples run on instrument 11D2 exceeded this criteria: DU-5-SE-J-0-1.5 (320-97305-11), DU-5-NE-A-0-1.5 (320-97305-57), DU-5-NE-B-0-1.5 (320-97305-58), DU-5-NE-C-0-1.5 (320-97305-59), DU-5-NE-D-0-1.5 (320-97305-60), DU-5-NE-E-0-1.5 (320-97305-61), DU-5-NE-F-0-1.5 (320-97305-62), DU-5-NE-G-0-1.5 (320-97305-63), DU-5-NE-H-0-1.5 (320-97305-64) and (CCV 320-677449/2). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

Method 1613B: The ending resolution check indicated that the instrument was slightly less than 10,000 resolution. The samples were evaluated for high mass fragmentation breakthrough and none was found. There is no adverse impact on the data. The following samples are impacted.

DU-5-SE-J-0-1.5 (320-97305-11), DU-5-NE-A-0-1.5 (320-97305-57), DU-5-NE-B-0-1.5 (320-97305-58), DU-5-NE-C-0-1.5 (320-97305-59), DU-5-NE-D-0-1.5 (320-97305-60), DU-5-NE-E-0-1.5 (320-97305-61), DU-5-NE-F-0-1.5 (320-97305-62), DU-5-NE-G-0-1.5 (320-97305-63), DU-5-NE-H-0-1.5 (320-97305-64), (CCV 320-677449/2) and (WDM 320-677449/1)

Method 1613B: EPA Method 1613B specifies a +/- 15 second retention time difference between the recovery standard in the initial calibration (ICAL) and the continuing calibration verification (CCV). The 13C-1,2,3,4-TCDD associated with the following samples run on instrument 11D2 exceeded this criteria: DU-5-NE-I-0-1.5 (320-97305-65) and (CCV 320-678178/2). This retention time shift is due to normal and reasonable column maintenance and does not affect the instrument chromatography resolution, sensitivity, or identification of target analytes. System retention times have been updated for proper analyte identification.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method Moisture: The reference method does not list a specific holding time for this procedure; therefore, the laboratory defaults to an in-house holding time of 14 days. The following samples in analytical batch 320-669753 were prepared and/or analyzed outside this time period: DU-5-SE--A-0-1.5 (320-97305-2), DU-5-SE-B-0-1.5 (320-97305-3), DU-5-SE-C-0-1.5 (320-97305-4), DU-5-SE-D-0-1.5 (320-97305-5), DU-5-SE-E-0-1.5 (320-97305-6), DU-5-SE-F-0-1.5 (320-97305-7), DU-5-SE-G-0-1.5 (320-97305-8), DU-5-SE-H-0-1.5 (320-97305-9), DU-5-SE-I-0-1.5 (320-97305-10), DU-5-SE-J-0-1.5 (320-97305-11), DU-5-NE-A-0-1.5 (320-97305-57), DU-5-NE-B-0-1.5 (320-97305-58), DU-5-NE-C-0-1.5 (320-97305-59), DU-5-NE-D-0-1.5 (320-97305-60), DU-5-NE-E-0-1.5 (320-97305-61), DU-5-NE-F-0-1.5 (320-97305-62), DU-5-NE-G-0-1.5 (320-97305-63), DU-5-NE-H-0-1.5 (320-97305-64) and SB-08-3-6 (320-97305-188).

Method Moisture: The reference method does not list a specific holding time for this procedure; therefore, the laboratory defaults to an in-house holding time of 14 days. The following samples in analytical batch 320-669804 were prepared and/or analyzed outside this time period: DU-5-NE-I-0-1.5 (320-97305-65), DU-5-NE-J-0-1.5 (320-97305-66), DU-6-SW-A-0-1.5 (320-97305-123), DU-6-SW-B-0-1.5 (320-97305-124), DU-6-SW-C-0-1.5 (320-97305-125), DU-6-SW-D-0-1.5 (320-97305-126), DU-6-SW-E-0-1.5 (320-97305-127), DU-6-SW-F-0-1.5 (320-97305-128), DU-6-SW-G-0-1.5 (320-97305-129), DU-6-SW-H-0-1.5 (320-97305-130), DU-6-SW-I-0-1.5 (320-97305-131), DU-6-SW-J-0-1.5 (320-97305-132), DU-6-NW-A-0-1.5 (320-97305-167), DU-6-NW-B-0-1.5 (320-97305-168), DU-6-NW-C-0-1.5 (320-97305-169), DU-6-NW-D-0-1.5 (320-97305-170), DU-6-NW-E-0-1.5 (320-97305-171), DU-6-NW-F-0-1.5 (320-97305-172) and DU-6-NW-G-0-1.5 (320-97305-173).

Method Moisture: The reference method does not list a specific holding time for this procedure; therefore, the laboratory defaults to an in-house holding time of 14 days. The following samples in analytical batch 320-669812 were prepared and/or analyzed outside this time period: DU-6-NW-H-0-1.5 (320-97305-174), DU-6-NW-I-0-1.5 (320-97305-175) and DU-6-NW-J-0-1.5 (320-97305-176).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE--A-0-1.5

Lab Sample ID: 320-97305-2

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	1.3		0.96	0.22	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	1.6	J B q	4.8	0.17	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	1.3	J B	4.8	0.16	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	2.0	J B	4.8	0.23	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	2.5	J B q	4.8	1.4	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	60	B	4.8	1.4	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	10	B	4.8	1.3	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	3.7	J B	4.8	0.58	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	3.0	J B	4.8	0.44	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	2.9	J B	4.8	0.38	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	410	B	4.8	3.8	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	60	B	4.8	0.45	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	1.8	J B	4.8	0.68	pg/g	1		1613B	Total/NA
OCDD	2200	B	9.6	1.5	pg/g	1		1613B	Total/NA
OCDF	42	B	9.6	0.20	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-SE-B-0-1.5

Lab Sample ID: 320-97305-3

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.55	J q	0.96	0.12	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	2.8	J B q	4.8	0.22	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	1.5	J B q	4.8	0.17	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	2.1	J B	4.8	0.24	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	10	B	4.8	0.35	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	45	B	4.8	0.37	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	10	B	4.8	0.35	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	3.8	J B	4.8	0.90	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	4.1	J B	4.8	0.67	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	2.7	J B	4.8	0.65	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	350	B G	8.4	8.4	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	62	B	4.8	0.86	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	2.1	J B	4.8	2.0	pg/g	1		1613B	Total/NA
OCDD	3100	B	9.6	1.8	pg/g	1		1613B	Total/NA
OCDF	91	B	9.6	0.32	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	1.9		0.96	0.24	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-SE-C-0-1.5

Lab Sample ID: 320-97305-4

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	0.86	J B	4.8	0.21	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.50	J B	4.8	0.14	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.47	J B q	4.8	0.21	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	3.0	J B	4.8	0.35	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	13	B	4.8	0.36	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	3.7	J B	4.8	0.35	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	0.87	J B	4.8	0.45	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.94	J B	4.8	0.33	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.54	J B q	4.8	0.31	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	100	B	4.8	0.82	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	14	B	4.8	0.42	pg/g	1		1613B	Total/NA
OCDD	740	B	9.6	1.1	pg/g	1		1613B	Total/NA
OCDF	23	B	9.6	1.1	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-D-0-1.5

Lab Sample ID: 320-97305-5

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.47	J q	0.96	0.095	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	2.3	J B	4.8	0.18	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	1.6	J B	4.8	0.17	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	2.5	J B	4.8	0.24	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	3.9	J B	4.8	0.38	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	55	B	4.8	0.41	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	8.2	B	4.8	0.38	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	4.6	J B	4.8	0.72	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	3.6	J B	4.8	0.54	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	4.2	J B	4.8	0.51	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	360	B	4.8	1.9	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	67	B	4.8	0.46	pg/g	1		1613B	Total/NA
OCDD	2600	B	9.6	1.3	pg/g	1		1613B	Total/NA
OCDF	41	B	9.6	0.33	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-SE-E-0-1.5

Lab Sample ID: 320-97305-6

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF	0.59	J	0.97	0.41	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	1.6	J B	4.9	1.2	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	11	B	4.9	1.2	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	4.8	J B	4.9	1.1	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	84	B	4.9	1.1	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	13	B	4.9	0.75	pg/g	1		1613B	Total/NA
OCDD	540	B	9.7	1.1	pg/g	1		1613B	Total/NA
OCDF	27	B	9.7	0.74	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-SE-F-0-1.5

Lab Sample ID: 320-97305-7

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.21	J q	0.98	0.095	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF	0.96	J	0.98	0.078	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.75	J B	4.9	0.12	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.51	J B	4.9	0.092	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.49	J B	4.9	0.13	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	2.9	J B	4.9	0.19	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	10	B	4.9	0.21	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	3.1	J B	4.9	0.19	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.1	J B	4.9	0.31	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.2	J B	4.9	0.23	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.57	J B	4.9	0.24	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	100	B	4.9	2.8	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	21	B	4.9	0.48	pg/g	1		1613B	Total/NA
OCDD	1000	B	9.8	1.4	pg/g	1		1613B	Total/NA
OCDF	50	B	9.8	0.45	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-SE-G-0-1.5

Lab Sample ID: 320-97305-8

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.17	J q	0.99	0.075	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF	0.72	J q	0.99	0.059	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.42	J B	5.0	0.14	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-G-0-1.5 (Continued)

Lab Sample ID: 320-97305-8

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDF	0.28	J B	5.0	0.085	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.33	J B q	5.0	0.13	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.92	J B q	5.0	0.77	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	8.8	B	5.0	0.70	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	2.2	J B q	5.0	0.72	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	55	B	5.0	1.4	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	5.8	B	5.0	0.41	pg/g	1		1613B	Total/NA
OCDD	270	B	9.9	0.86	pg/g	1		1613B	Total/NA
OCDF	6.6	J B	9.9	0.64	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-SE-H-0-1.5

Lab Sample ID: 320-97305-9

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF	0.36	J q	0.96	0.084	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.45	J B q	4.8	0.19	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.27	J B q	4.8	0.096	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.28	J B q	4.8	0.14	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.79	J B	4.8	0.45	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	5.4	B	4.8	0.48	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	1.9	J B	4.8	0.45	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.38	J B	4.8	0.32	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	39	B	4.8	1.2	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	6.1	B	4.8	0.50	pg/g	1		1613B	Total/NA
OCDD	370	B	9.6	0.82	pg/g	1		1613B	Total/NA
OCDF	12	B	9.6	0.90	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-SE-I-0-1.5

Lab Sample ID: 320-97305-10

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	1.2	q	0.97	0.23	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	3.9	J B	4.9	0.36	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	2.7	J B	4.9	0.20	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	2.7	J B	4.9	0.28	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	14	B	4.9	0.70	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	37	B	4.9	0.77	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	9.0	B	4.9	0.72	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	6.6	B	4.9	0.68	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	4.3	J B	4.9	0.53	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.73	J B	4.9	0.52	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	2.7	J B	4.9	0.50	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	590	B	4.9	4.5	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	130	B	4.9	1.1	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	6.3	B	4.9	1.7	pg/g	1		1613B	Total/NA
OCDD	9600	E B	9.7	3.7	pg/g	1		1613B	Total/NA
OCDF	380	B	9.7	0.66	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	2.5		0.97	0.19	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-SE-J-0-1.5

Lab Sample ID: 320-97305-11

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.17	J q	0.99	0.075	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	1.4	J B	5.0	0.13	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-J-0-1.5 (Continued)

Lab Sample ID: 320-97305-11

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDF	1.4	J B	5.0	0.12	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.8	J B	5.0	0.18	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	3.6	J B q	5.0	0.47	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	46	B	5.0	0.51	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	6.6	B	5.0	0.48	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	3.2	J B q	5.0	0.58	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	2.4	J B	5.0	0.45	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	3.1	J B	5.0	0.48	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	390	B G	10	10	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	54	B	5.0	0.83	pg/g	1		1613B	Total/NA
OCDD	3500	B	9.9	3.5	pg/g	1		1613B	Total/NA
OCDF	37	B	9.9	0.18	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-NE-A-0-1.5

Lab Sample ID: 320-97305-57

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	1.5		0.94	0.16	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	11	q B	4.7	0.56	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	7.0	B	4.7	0.63	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	10	B	4.7	0.96	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	20	B	4.7	0.89	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	230	B	4.7	0.90	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	51	B	4.7	0.87	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	15	q B	4.7	3.2	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	12	q B	4.7	2.4	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	14	q B	4.7	2.5	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	2100	G E B	35	35	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	250	B	4.7	2.6	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	9.5	G B	6.6	6.6	pg/g	1		1613B	Total/NA
OCDD	16000	G E B	9.8	9.8	pg/g	1		1613B	Total/NA
OCDF	150	B	9.4	0.38	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	6.1		0.94	0.47	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-NE-B-0-1.5

Lab Sample ID: 320-97305-58

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	1.4		0.94	0.40	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	10	q B	4.7	0.72	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	5.7	B	4.7	1.0	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	7.9	B	4.7	1.4	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	20	B	4.7	2.0	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	260	B	4.7	2.0	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	52	B	4.7	2.0	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	21	B	4.7	1.9	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	17	B	4.7	1.5	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	16	B	4.7	1.3	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	2000	G E B	12	12	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	270	B	4.7	2.5	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	9.1	B	4.7	3.5	pg/g	1		1613B	Total/NA
OCDD	18000	E B	9.4	8.6	pg/g	1		1613B	Total/NA
OCDF	190	B	9.4	0.96	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	5.8		0.94	0.63	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-C-0-1.5

Lab Sample ID: 320-97305-59

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.69	J q	0.95	0.14	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	5.5	B	4.8	0.35	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	3.5	J B	4.8	0.50	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	4.8	B	4.8	0.73	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	6.1	B	4.8	0.66	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	100	B	4.8	0.72	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	22	B	4.8	0.67	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	7.2	B	4.8	1.7	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	7.5	B	4.8	1.3	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	5.6	B q	4.8	1.4	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	640	B G	18	18	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	80	B	4.8	1.1	pg/g	1		1613B	Total/NA
OCDD	5900	E B	9.5	6.0	pg/g	1		1613B	Total/NA
OCDF	47	B	9.5	0.71	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	4.2		0.95	0.78	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-NE-D-0-1.5

Lab Sample ID: 320-97305-60

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.42	J q	1.0	0.085	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.95	J B q	5.0	0.14	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.67	J B	5.0	0.17	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.1	J B	5.0	0.24	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	1.5	J B q	5.0	0.61	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	24	B	5.0	0.66	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	5.5	B	5.0	0.61	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.4	J B	5.0	0.47	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.5	J B	5.0	0.35	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.2	J B	5.0	0.35	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	170	B	5.0	1.2	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	19	B	5.0	0.34	pg/g	1		1613B	Total/NA
OCDD	1200	B	10	1.1	pg/g	1		1613B	Total/NA
OCDF	19	B	10	0.58	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-NE-E-0-1.5

Lab Sample ID: 320-97305-61

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	4.0	J B	4.8	0.73	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	1.8	J B	4.8	0.41	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	2.4	J B	4.8	0.62	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	4.4	J B q	4.8	1.1	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	51	B	4.8	1.2	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	12	B	4.8	1.2	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	3.4	J B	4.8	1.4	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	3.9	J B	4.8	1.1	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	3.5	J B	4.8	0.90	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	310	B	4.8	2.7	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	53	B	4.8	1.0	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	1.5	J B q	4.8	1.3	pg/g	1		1613B	Total/NA
OCDD	2200	B	9.5	5.2	pg/g	1		1613B	Total/NA
OCDF	43	B	9.5	2.9	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-F-0-1.5

Lab Sample ID: 320-97305-62

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.30	J q	0.94	0.066	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	1.7	J B q	4.7	0.12	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.96	J B	4.7	0.13	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.5	J B	4.7	0.19	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	2.4	J B	4.7	0.37	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	36	B	4.7	0.40	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	8.1	B	4.7	0.37	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	2.3	J B	4.7	0.49	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.9	J B q	4.7	0.37	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.9	J B	4.7	0.37	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	260	B G	6.7	6.7	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	30	B	4.7	0.37	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	1.3	J B	4.7	0.78	pg/g	1		1613B	Total/NA
OCDD	2100	B	9.4	1.2	pg/g	1		1613B	Total/NA
OCDF	27	B	9.4	0.31	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-NE-G-0-1.5

Lab Sample ID: 320-97305-63

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.34	J q	0.93	0.15	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	1.6	J B	4.7	0.20	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.85	J B	4.7	0.11	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.2	J B	4.7	0.16	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	7.9	B	4.7	0.34	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	23	B	4.7	0.39	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	5.3	B	4.7	0.35	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	2.6	J B	4.7	0.42	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	2.1	J B	4.7	0.32	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.38	J B	4.7	0.34	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.8	J B	4.7	0.32	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	230	B	4.7	1.4	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	49	B	4.7	0.61	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	2.0	J B	4.7	1.2	pg/g	1		1613B	Total/NA
OCDD	1800	B	9.3	1.2	pg/g	1		1613B	Total/NA
OCDF	87	B	9.3	0.51	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-NE-H-0-1.5

Lab Sample ID: 320-97305-64

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	1.1		0.95	0.10	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	5.4	B	4.8	0.17	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	3.3	J B	4.8	0.24	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	4.4	J B	4.8	0.33	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	6.9	B	4.8	0.34	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	110	B	4.8	0.37	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	19	B	4.8	0.35	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	7.3	B	4.8	1.8	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	7.4	B	4.8	1.5	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	5.1	B q	4.8	1.6	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	610	B G	17	17	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	130	B	4.8	2.1	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	5.2	B	4.8	4.4	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-H-0-1.5 (Continued)

Lab Sample ID: 320-97305-64

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
OCDD	5400	E B	9.5	6.0	pg/g	1		1613B	Total/NA
OCDF	150	B	9.5	0.69	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	2.8		0.95	0.52	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-NE-I-0-1.5

Lab Sample ID: 320-97305-65

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.43	J q	0.92	0.076	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	1.8	J B	4.6	0.16	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	1.1	J B	4.6	0.12	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.5	J B	4.6	0.18	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	1.8	J B	4.6	0.51	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	36	B	4.6	0.52	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	8.0	B	4.6	0.50	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	2.1	J B	4.6	0.36	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	2.3	J B	4.6	0.27	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	2.1	J B	4.6	0.29	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	290	B G	4.9	4.9	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	31	B	4.6	0.56	pg/g	1		1613B	Total/NA
OCDD	2500	B	9.2	1.6	pg/g	1		1613B	Total/NA
OCDF	30	B	9.2	0.80	pg/g	1		1613B	Total/NA

Client Sample ID: DU-5-NE-J-0-1.5

Lab Sample ID: 320-97305-66

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.19	J q	0.93	0.11	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF	0.53	J q	0.93	0.10	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.59	J q B	4.7	0.33	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	2.3	J B	4.7	0.76	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	5.5	B	4.7	0.67	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	2.7	J B	4.7	0.70	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	100	B	4.7	2.4	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	32	B	4.7	0.96	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	1.9	J B	4.7	0.76	pg/g	1		1613B	Total/NA
OCDD	840	B	9.3	3.4	pg/g	1		1613B	Total/NA
OCDF	66	B	9.3	2.5	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-SW-A-0-1.5

Lab Sample ID: 320-97305-123

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	1.5	J	4.8	0.48	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.51	J	4.8	0.26	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.85	J	4.8	0.38	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	3.1	J q B	4.8	0.51	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	14	B	4.8	0.46	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	6.6	B	4.8	0.47	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.5	J q B	4.8	0.66	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.6	J B	4.8	0.52	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.3	J	4.8	0.39	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	140	B	4.8	1.6	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	26	B	4.8	0.60	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	2.4	J B	4.8	0.72	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-A-0-1.5 (Continued)

Lab Sample ID: 320-97305-123

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
OCDD	940	B	9.6	3.8	pg/g	1		1613B	Total/NA
OCDF	57	B	9.6	0.45	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-SW-B-0-1.5

Lab Sample ID: 320-97305-124

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.22	J q	0.93	0.074	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.45	J	4.6	0.16	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.41	J	4.6	0.051	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.48	J	4.6	0.073	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	1.9	J B	4.6	1.5	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	10	B	4.6	1.7	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	3.3	J B	4.6	1.5	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.2	J B	4.6	0.30	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.52	J B	4.6	0.24	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	400	G B	19	19	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	43	B	4.6	1.3	pg/g	1		1613B	Total/NA
OCDD	2800	B	9.3	0.99	pg/g	1		1613B	Total/NA
OCDF	330	B	9.3	0.25	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-SW-C-0-1.5

Lab Sample ID: 320-97305-125

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.18	J q	0.95	0.071	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.34	J q	4.7	0.11	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.32	J	4.7	0.032	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.39	J	4.7	0.046	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.86	J q B	4.7	0.38	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	3.3	J B	4.7	0.38	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	1.5	J B	4.7	0.37	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	0.60	J q B	4.7	0.14	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.35	J q B	4.7	0.10	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.20	J q	4.7	0.092	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	94	B	4.7	2.0	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	15	B	4.7	0.20	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	0.77	J B	4.7	0.25	pg/g	1		1613B	Total/NA
OCDD	890	B	9.5	0.59	pg/g	1		1613B	Total/NA
OCDF	86	B	9.5	0.30	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	0.49	J q	0.95	0.20	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-SW-D-0-1.5

Lab Sample ID: 320-97305-126

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.26	J q	0.92	0.078	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.33	J	4.6	0.11	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.30	J	4.6	0.076	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.35	J	4.6	0.11	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.74	J B	4.6	0.31	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	3.1	J B	4.6	0.33	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	0.95	J B	4.6	0.32	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	0.52	J q B	4.6	0.25	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.49	J B	4.6	0.19	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-D-0-1.5 (Continued)

Lab Sample ID: 320-97305-126

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,4,6,7,8-HxCDF	0.31	J	4.6	0.20	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	59	B	4.6	2.1	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	12	B	4.6	0.30	pg/g	1		1613B	Total/NA
OCDD	1200	B	9.2	0.87	pg/g	1		1613B	Total/NA
OCDF	35	B	9.2	0.34	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	0.37	J	0.92	0.14	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-SW-E-0-1.5

Lab Sample ID: 320-97305-127

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.22	J q	0.98	0.069	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	1.3	J	4.9	0.11	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.88	J	4.9	0.095	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.1	J	4.9	0.13	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	2.1	J B	4.9	0.21	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	20	B	4.9	0.21	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	5.4	B	4.9	0.20	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	2.5	J q B	4.9	0.44	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	2.8	J B	4.9	0.34	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.8	J	4.9	0.37	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	170	B	4.9	4.4	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	59	B	4.9	0.80	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	3.1	J B	4.9	1.7	pg/g	1		1613B	Total/NA
OCDD	960	B	9.8	0.55	pg/g	1		1613B	Total/NA
OCDF	81	B	9.8	0.28	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	0.87	J	0.98	0.15	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-SW-F-0-1.5

Lab Sample ID: 320-97305-128

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	3.3		1.5	0.12	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	21	q	7.7	0.62	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	7.1	J	7.7	0.49	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	13		7.7	0.69	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	51	B	7.7	2.1	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	280	B	7.7	2.3	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	68	B	7.7	2.1	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	22	B	7.7	2.9	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	23	B	7.7	2.2	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	22		7.7	1.9	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	1800	G B	9.4	9.4	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	530	B	7.7	3.1	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	22	B	7.7	4.0	pg/g	1		1613B	Total/NA
OCDD	14000	E B	15	6.0	pg/g	1		1613B	Total/NA
OCDF	910	B	15	0.85	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	7.7		1.5	0.23	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-SW-G-0-1.5

Lab Sample ID: 320-97305-129

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.24	J q	0.92	0.083	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.60	J q	4.6	0.14	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-G-0-1.5 (Continued)

Lab Sample ID: 320-97305-129

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDF	0.54	J	4.6	0.076	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.67	J	4.6	0.11	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.94	J B	4.6	0.31	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	9.4	B	4.6	0.33	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	3.0	J B	4.6	0.31	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	0.73	J B	4.6	0.19	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.68	J q B	4.6	0.15	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.39	J q	4.6	0.15	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	69	B	4.6	1.8	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	12	B	4.6	0.24	pg/g	1		1613B	Total/NA
OCDD	450	B	9.2	0.54	pg/g	1		1613B	Total/NA
OCDF	29	B	9.2	0.43	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	0.99		0.92	0.13	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-SW-H-0-1.5

Lab Sample ID: 320-97305-130

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.31	J q	0.98	0.081	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.48	J q	4.9	0.15	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.35	J	4.9	0.091	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.40	J	4.9	0.13	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.99	J q B	4.9	0.39	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	3.4	J B	4.9	0.39	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	1.5	J B	4.9	0.38	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	0.66	J q B	4.9	0.35	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.87	J B	4.9	0.28	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.37	J q	4.9	0.29	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	32	B	4.9	1.8	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	9.1	B	4.9	0.33	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	0.65	J B	4.9	0.41	pg/g	1		1613B	Total/NA
OCDD	290	B	9.8	0.45	pg/g	1		1613B	Total/NA
OCDF	16	B	9.8	0.49	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	0.58	J	0.98	0.17	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-SW-I-0-1.5

Lab Sample ID: 320-97305-131

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.26	J q	0.98	0.087	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	1.1	J	4.9	0.14	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.59	J	4.9	0.093	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.73	J	4.9	0.13	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	1.3	J q B	4.9	0.92	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	16	B	4.9	1.0	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	5.5	B	4.9	0.95	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.1	J B	4.9	0.26	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.2	J B	4.9	0.20	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.72	J	4.9	0.19	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	150	B	4.9	3.5	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	21	B	4.9	0.30	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	0.92	J B	4.9	0.63	pg/g	1		1613B	Total/NA
OCDD	990	B	9.8	0.77	pg/g	1		1613B	Total/NA
OCDF	69	B	9.8	0.39	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-I-0-1.5 (Continued)

Lab Sample ID: 320-97305-131

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF - RA	0.96	J	0.98	0.20	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-SW-J-0-1.5

Lab Sample ID: 320-97305-132

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.44	J q	0.99	0.081	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	1.5	J q	4.9	0.20	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.59	J	4.9	0.12	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.89	J	4.9	0.17	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	4.5	J q B	4.9	0.95	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	19	B	4.9	0.87	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	6.3	B	4.9	0.89	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	2.0	J B	4.9	0.75	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	2.0	J B	4.9	0.58	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.7	J	4.9	0.73	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	150	B	4.9	3.5	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	44	B	4.9	0.88	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	1.9	J B	4.9	0.66	pg/g	1		1613B	Total/NA
OCDD	890	B	9.9	1.3	pg/g	1		1613B	Total/NA
OCDF	79	B	9.9	0.63	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	0.58	J	0.99	0.19	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-NW-A-0-1.5

Lab Sample ID: 320-97305-167

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.45	J q	0.97	0.24	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	1.5	J	4.8	0.56	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	1.4	J	4.8	0.11	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	1.9	J	4.8	0.16	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	5.1	B	4.8	0.60	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	21	B	4.8	0.60	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	8.3	B	4.8	0.59	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	2.7	J B	4.8	0.52	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.8	J B	4.8	0.40	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	1.7	J	4.8	0.33	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	290	B	4.8	4.3	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	78	B	4.8	0.74	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	3.2	J B	4.8	0.91	pg/g	1		1613B	Total/NA
OCDD	2400	B	9.7	1.6	pg/g	1		1613B	Total/NA
OCDF	330	B	9.7	0.64	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	2.0		0.97	0.17	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-NW-B-0-1.5

Lab Sample ID: 320-97305-168

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.17	J q	0.95	0.060	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF	0.88	J	0.95	0.043	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.26	J	4.8	0.077	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.25	J	4.8	0.042	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.25	J	4.8	0.060	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.48	J B	4.8	0.086	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	0.88	J B	4.8	0.089	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-B-0-1.5 (Continued)

Lab Sample ID: 320-97305-168

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8,9-HxCDD	0.79	J B	4.8	0.085	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	0.25	J q B	4.8	0.11	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.18	J B	4.8	0.082	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.080	J q B	4.8	0.067	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.082	J q	4.8	0.069	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	14	B	4.8	0.34	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	2.5	J B	4.8	0.099	pg/g	1		1613B	Total/NA
OCDD	110	B	9.5	0.23	pg/g	1		1613B	Total/NA
OCDF	11	B	9.5	0.23	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-NW-C-0-1.5

Lab Sample ID: 320-97305-169

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.14	J q	0.98	0.083	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.50	J	4.9	0.14	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.46	J	4.9	0.049	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.40	J	4.9	0.071	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.79	J B	4.9	0.19	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	2.3	J B	4.9	0.20	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	1.8	J B	4.9	0.19	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.2	J B	4.9	0.16	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.47	J B	4.9	0.12	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.21	J q	4.9	0.10	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	22	B	4.9	0.83	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	5.1	B	4.9	0.15	pg/g	1		1613B	Total/NA
OCDD	160	B	9.8	0.27	pg/g	1		1613B	Total/NA
OCDF	15	B	9.8	0.17	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-NW-D-0-1.5

Lab Sample ID: 320-97305-170

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	6.1		1.6	0.20	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	18	q	8.2	0.41	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	5.0	J	8.2	0.56	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	9.6		8.2	0.78	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	42	B	8.2	1.5	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	190	B	8.2	1.6	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	57	B	8.2	1.5	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	19	B	8.2	2.4	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	20	B	8.2	1.8	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	18		8.2	1.6	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	1500	G B	8.5	8.5	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	520	B	8.2	3.3	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	21	B	8.2	5.2	pg/g	1		1613B	Total/NA
OCDD	10000	E B	16	4.5	pg/g	1		1613B	Total/NA
OCDF	1200	B	16	0.90	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	5.1		1.6	1.0	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-NW-E-0-1.5

Lab Sample ID: 320-97305-171

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.18	J q	0.98	0.078	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-E-0-1.5 (Continued)

Lab Sample ID: 320-97305-171

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	0.28	J q	4.9	0.097	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.52	J	4.9	0.054	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.55	J	4.9	0.077	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.79	J B	4.9	0.12	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	1.9	J B	4.9	0.13	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	1.0	J B	4.9	0.12	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.2	J B	4.9	0.11	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.40	J q B	4.9	0.078	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.23	J	4.9	0.070	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	47	B	4.9	1.1	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	8.0	B	4.9	0.14	pg/g	1		1613B	Total/NA
OCDD	470	B	9.8	0.40	pg/g	1		1613B	Total/NA
OCDF	38	B	9.8	0.20	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-NW-F-0-1.5

Lab Sample ID: 320-97305-172

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	1.1	q	0.99	0.072	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	8.4		5.0	0.29	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	3.2	J	5.0	0.29	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	5.5		5.0	0.44	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	20		5.0	0.50	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	110		5.0	0.51	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	33		5.0	0.49	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	13		5.0	1.6	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	11		5.0	1.2	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	11		5.0	1.1	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	760	G B	6.0	6.0	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	340	G B	5.1	5.1	pg/g	1		1613B	Total/NA
OCDD	4300	E B	9.9	5.2	pg/g	1		1613B	Total/NA
OCDF	690	B	9.9	0.91	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	2.6		0.99	0.23	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-NW-G-0-1.5

Lab Sample ID: 320-97305-173

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.39	J q	0.95	0.10	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.35	J q	4.8	0.26	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.59	J	4.8	0.11	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.60	J	4.8	0.19	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	1.1	J	4.8	0.78	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	3.6	J	4.8	0.73	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	1.9	J	4.8	0.74	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.2	J	4.8	0.51	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	130	B	4.8	3.5	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	26	B	4.8	0.68	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	1.5	J B	4.8	0.50	pg/g	1		1613B	Total/NA
OCDD	1500	B	9.5	1.9	pg/g	1		1613B	Total/NA
OCDF	160	B	9.5	1.0	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	1.3		0.95	0.21	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-H-0-1.5

Lab Sample ID: 320-97305-174

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.37	J q	0.93	0.13	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	1.2	J	4.6	0.30	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.54	J q	4.6	0.13	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.73	J	4.6	0.19	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	2.6	J	4.6	1.1	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	16		4.6	1.1	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	6.1		4.6	1.0	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.7	J	4.6	0.68	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	1.3	J	4.6	0.52	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.70	J	4.6	0.53	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	440	B G	11	11	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	59	B	4.6	1.5	pg/g	1		1613B	Total/NA
OCDD	3700	E B	9.3	4.1	pg/g	1		1613B	Total/NA
OCDF	370	B	9.3	1.2	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	0.77	J	0.93	0.16	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-NW-I-0-1.5

Lab Sample ID: 320-97305-175

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	1.0		0.95	0.24	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	3.0	J	4.7	0.32	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	1.5	J q	4.7	0.23	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	2.2	J	4.7	0.33	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	7.2		4.7	0.64	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	59		4.7	0.64	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	16		4.7	0.62	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	5.2		4.7	0.67	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	5.1		4.7	0.52	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	3.6	J	4.7	0.46	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	510	B	4.7	3.1	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	98	B	4.7	1.3	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	5.4	B	4.7	1.7	pg/g	1		1613B	Total/NA
OCDD	4600	E B	9.5	3.3	pg/g	1		1613B	Total/NA
OCDF	220	B	9.5	1.3	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF - RA	2.1		0.95	0.73	pg/g	1		1613B	Total/NA

Client Sample ID: DU-6-NW-J-0-1.5

Lab Sample ID: 320-97305-176

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDD	0.20	J q	0.98	0.051	pg/g	1		1613B	Total/NA
2,3,7,8-TCDF	0.54	J	0.98	0.039	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDD	0.68	J	4.9	0.056	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.46	J	4.9	0.046	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.44	J	4.9	0.067	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	1.3	J	4.9	0.12	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	8.1		4.9	0.12	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	2.4	J	4.9	0.12	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	1.2	J	4.9	0.15	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.90	J	4.9	0.11	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.12	J B q	4.9	0.096	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.48	J	4.9	0.095	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	61	B	4.9	0.32	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-J-0-1.5 (Continued)

Lab Sample ID: 320-97305-176

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDF	12	B	4.9	0.16	pg/g	1		1613B	Total/NA
1,2,3,4,7,8,9-HpCDF	0.71	J B	4.9	0.19	pg/g	1		1613B	Total/NA
OCDD	430	B	9.8	0.45	pg/g	1		1613B	Total/NA
OCDF	18	B	9.8	0.31	pg/g	1		1613B	Total/NA

Client Sample ID: SB-08-3-6

Lab Sample ID: 320-97305-188

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF	0.13	J	0.93	0.024	pg/g	1		1613B	Total/NA
1,2,3,7,8-PeCDF	0.11	J q	4.7	0.024	pg/g	1		1613B	Total/NA
2,3,4,7,8-PeCDF	0.075	J	4.7	0.036	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDD	0.27	J	4.7	0.054	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDD	0.43	J q	4.7	0.052	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDD	0.17	J	4.7	0.052	pg/g	1		1613B	Total/NA
1,2,3,4,7,8-HxCDF	0.17	J q	4.7	0.070	pg/g	1		1613B	Total/NA
1,2,3,6,7,8-HxCDF	0.11	J q	4.7	0.049	pg/g	1		1613B	Total/NA
1,2,3,7,8,9-HxCDF	0.11	J B	4.7	0.042	pg/g	1		1613B	Total/NA
2,3,4,6,7,8-HxCDF	0.058	J	4.7	0.041	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDD	8.4	B	4.7	0.15	pg/g	1		1613B	Total/NA
1,2,3,4,6,7,8-HpCDF	1.5	J B	4.7	0.073	pg/g	1		1613B	Total/NA
OCDD	98	B	9.3	0.20	pg/g	1		1613B	Total/NA
OCDF	2.6	J B	9.3	0.11	pg/g	1		1613B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE--A-0-1.5

Lab Sample ID: 320-97305-2

Date Collected: 02/21/23 14:35

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.3		0.96	0.22	pg/g		04/25/23 10:56	05/20/23 06:14	1
1,2,3,7,8-PeCDD	1.6	J B q	4.8	0.17	pg/g		04/25/23 10:56	05/20/23 06:14	1
1,2,3,7,8-PeCDF	1.3	J B	4.8	0.16	pg/g		04/25/23 10:56	05/20/23 06:14	1
2,3,4,7,8-PeCDF	2.0	J B	4.8	0.23	pg/g		04/25/23 10:56	05/20/23 06:14	1
1,2,3,4,7,8-HxCDD	2.5	J B q	4.8	1.4	pg/g		04/25/23 10:56	05/20/23 06:14	1
1,2,3,6,7,8-HxCDD	60	B	4.8	1.4	pg/g		04/25/23 10:56	05/20/23 06:14	1
1,2,3,7,8,9-HxCDD	10	B	4.8	1.3	pg/g		04/25/23 10:56	05/20/23 06:14	1
1,2,3,4,7,8-HxCDF	3.7	J B	4.8	0.58	pg/g		04/25/23 10:56	05/20/23 06:14	1
1,2,3,6,7,8-HxCDF	3.0	J B	4.8	0.44	pg/g		04/25/23 10:56	05/20/23 06:14	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.37	pg/g		04/25/23 10:56	05/20/23 06:14	1
2,3,4,6,7,8-HxCDF	2.9	J B	4.8	0.38	pg/g		04/25/23 10:56	05/20/23 06:14	1
1,2,3,4,6,7,8-HpCDD	410	B	4.8	3.8	pg/g		04/25/23 10:56	05/20/23 06:14	1
1,2,3,4,6,7,8-HpCDF	60	B	4.8	0.45	pg/g		04/25/23 10:56	05/20/23 06:14	1
1,2,3,4,7,8,9-HpCDF	1.8	J B	4.8	0.68	pg/g		04/25/23 10:56	05/20/23 06:14	1
OCDD	2200	B	9.6	1.5	pg/g		04/25/23 10:56	05/20/23 06:14	1
OCDF	42	B	9.6	0.20	pg/g		04/25/23 10:56	05/20/23 06:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	48		25 - 164	04/25/23 10:56	05/20/23 06:14	1
13C-2,3,7,8-TCDF	52		24 - 169	04/25/23 10:56	05/20/23 06:14	1
13C-1,2,3,7,8-PeCDD	61		25 - 181	04/25/23 10:56	05/20/23 06:14	1
13C-1,2,3,7,8-PeCDF	67		24 - 185	04/25/23 10:56	05/20/23 06:14	1
13C-2,3,4,7,8-PeCDF	53		21 - 178	04/25/23 10:56	05/20/23 06:14	1
13C-1,2,3,4,7,8-HxCDD	48		32 - 141	04/25/23 10:56	05/20/23 06:14	1
13C-1,2,3,6,7,8-HxCDD	45		28 - 130	04/25/23 10:56	05/20/23 06:14	1
13C-1,2,3,4,7,8-HxCDF	50		26 - 152	04/25/23 10:56	05/20/23 06:14	1
13C-1,2,3,6,7,8-HxCDF	58		26 - 123	04/25/23 10:56	05/20/23 06:14	1
13C-2,3,4,6,7,8-HxCDF	63		28 - 136	04/25/23 10:56	05/20/23 06:14	1
13C-1,2,3,7,8,9-HxCDF	64		29 - 147	04/25/23 10:56	05/20/23 06:14	1
13C-1,2,3,4,6,7,8-HpCDD	53		23 - 140	04/25/23 10:56	05/20/23 06:14	1
13C-1,2,3,4,6,7,8-HpCDF	48		28 - 143	04/25/23 10:56	05/20/23 06:14	1
13C-1,2,3,4,7,8,9-HpCDF	37		26 - 138	04/25/23 10:56	05/20/23 06:14	1
13C-OCDD	44		17 - 157	04/25/23 10:56	05/20/23 06:14	1
13C-OCDF	48		17 - 157	04/25/23 10:56	05/20/23 06:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	86		35 - 197	04/25/23 10:56	05/20/23 06:14	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	ND		0.96	0.35	pg/g		04/25/23 10:56	05/24/23 11:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	46		24 - 169	04/25/23 10:56	05/24/23 11:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	79		35 - 197	04/25/23 10:56	05/24/23 11:18	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	9.6	H	0.1	0.1	%			04/24/23 13:53	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-B-0-1.5

Lab Sample ID: 320-97305-3

Date Collected: 02/21/23 14:50

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.55	J q	0.96	0.12	pg/g		04/25/23 10:56	05/20/23 07:02	1
1,2,3,7,8-PeCDD	2.8	J B q	4.8	0.22	pg/g		04/25/23 10:56	05/20/23 07:02	1
1,2,3,7,8-PeCDF	1.5	J B q	4.8	0.17	pg/g		04/25/23 10:56	05/20/23 07:02	1
2,3,4,7,8-PeCDF	2.1	J B	4.8	0.24	pg/g		04/25/23 10:56	05/20/23 07:02	1
1,2,3,4,7,8-HxCDD	10	B	4.8	0.35	pg/g		04/25/23 10:56	05/20/23 07:02	1
1,2,3,6,7,8-HxCDD	45	B	4.8	0.37	pg/g		04/25/23 10:56	05/20/23 07:02	1
1,2,3,7,8,9-HxCDD	10	B	4.8	0.35	pg/g		04/25/23 10:56	05/20/23 07:02	1
1,2,3,4,7,8-HxCDF	3.8	J B	4.8	0.90	pg/g		04/25/23 10:56	05/20/23 07:02	1
1,2,3,6,7,8-HxCDF	4.1	J B	4.8	0.67	pg/g		04/25/23 10:56	05/20/23 07:02	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.62	pg/g		04/25/23 10:56	05/20/23 07:02	1
2,3,4,6,7,8-HxCDF	2.7	J B	4.8	0.65	pg/g		04/25/23 10:56	05/20/23 07:02	1
1,2,3,4,6,7,8-HpCDD	350	B G	8.4	8.4	pg/g		04/25/23 10:56	05/20/23 07:02	1
1,2,3,4,6,7,8-HpCDF	62	B	4.8	0.86	pg/g		04/25/23 10:56	05/20/23 07:02	1
1,2,3,4,7,8,9-HpCDF	2.1	J B	4.8	2.0	pg/g		04/25/23 10:56	05/20/23 07:02	1
OCDD	3100	B	9.6	1.8	pg/g		04/25/23 10:56	05/20/23 07:02	1
OCDF	91	B	9.6	0.32	pg/g		04/25/23 10:56	05/20/23 07:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	55		25 - 164	04/25/23 10:56	05/20/23 07:02	1
13C-2,3,7,8-TCDF	67		24 - 169	04/25/23 10:56	05/20/23 07:02	1
13C-1,2,3,7,8-PeCDD	64		25 - 181	04/25/23 10:56	05/20/23 07:02	1
13C-1,2,3,7,8-PeCDF	79		24 - 185	04/25/23 10:56	05/20/23 07:02	1
13C-2,3,4,7,8-PeCDF	62		21 - 178	04/25/23 10:56	05/20/23 07:02	1
13C-1,2,3,4,7,8-HxCDD	60		32 - 141	04/25/23 10:56	05/20/23 07:02	1
13C-1,2,3,6,7,8-HxCDD	53		28 - 130	04/25/23 10:56	05/20/23 07:02	1
13C-1,2,3,4,7,8-HxCDF	75		26 - 152	04/25/23 10:56	05/20/23 07:02	1
13C-1,2,3,6,7,8-HxCDF	93		26 - 123	04/25/23 10:56	05/20/23 07:02	1
13C-2,3,4,6,7,8-HxCDF	90		28 - 136	04/25/23 10:56	05/20/23 07:02	1
13C-1,2,3,7,8,9-HxCDF	85		29 - 147	04/25/23 10:56	05/20/23 07:02	1
13C-1,2,3,4,6,7,8-HpCDD	47		23 - 140	04/25/23 10:56	05/20/23 07:02	1
13C-1,2,3,4,6,7,8-HpCDF	41		28 - 143	04/25/23 10:56	05/20/23 07:02	1
13C-1,2,3,4,7,8,9-HpCDF	20	*5-	26 - 138	04/25/23 10:56	05/20/23 07:02	1
13C-OCDD	33		17 - 157	04/25/23 10:56	05/20/23 07:02	1
13C-OCDF	35		17 - 157	04/25/23 10:56	05/20/23 07:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	89		35 - 197	04/25/23 10:56	05/20/23 07:02	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	1.9		0.96	0.24	pg/g		04/25/23 10:56	05/24/23 12:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	56		24 - 169	04/25/23 10:56	05/24/23 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	73		35 - 197	04/25/23 10:56	05/24/23 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	8.9	H	0.1	0.1	%			04/24/23 13:53	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-C-0-1.5

Lab Sample ID: 320-97305-4

Date Collected: 02/21/23 15:20

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.96	0.19	pg/g		04/25/23 10:56	05/20/23 07:49	1
1,2,3,7,8-PeCDD	0.86	J B	4.8	0.21	pg/g		04/25/23 10:56	05/20/23 07:49	1
1,2,3,7,8-PeCDF	0.50	J B	4.8	0.14	pg/g		04/25/23 10:56	05/20/23 07:49	1
2,3,4,7,8-PeCDF	0.47	J B q	4.8	0.21	pg/g		04/25/23 10:56	05/20/23 07:49	1
1,2,3,4,7,8-HxCDD	3.0	J B	4.8	0.35	pg/g		04/25/23 10:56	05/20/23 07:49	1
1,2,3,6,7,8-HxCDD	13	B	4.8	0.36	pg/g		04/25/23 10:56	05/20/23 07:49	1
1,2,3,7,8,9-HxCDD	3.7	J B	4.8	0.35	pg/g		04/25/23 10:56	05/20/23 07:49	1
1,2,3,4,7,8-HxCDF	0.87	J B	4.8	0.45	pg/g		04/25/23 10:56	05/20/23 07:49	1
1,2,3,6,7,8-HxCDF	0.94	J B	4.8	0.33	pg/g		04/25/23 10:56	05/20/23 07:49	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.33	pg/g		04/25/23 10:56	05/20/23 07:49	1
2,3,4,6,7,8-HxCDF	0.54	J B q	4.8	0.31	pg/g		04/25/23 10:56	05/20/23 07:49	1
1,2,3,4,6,7,8-HpCDD	100	B	4.8	0.82	pg/g		04/25/23 10:56	05/20/23 07:49	1
1,2,3,4,6,7,8-HpCDF	14	B	4.8	0.42	pg/g		04/25/23 10:56	05/20/23 07:49	1
1,2,3,4,7,8,9-HpCDF	ND		4.8	0.91	pg/g		04/25/23 10:56	05/20/23 07:49	1
OCDD	740	B	9.6	1.1	pg/g		04/25/23 10:56	05/20/23 07:49	1
OCDF	23	B	9.6	1.1	pg/g		04/25/23 10:56	05/20/23 07:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	56		25 - 164	04/25/23 10:56	05/20/23 07:49	1
13C-2,3,7,8-TCDF	65		24 - 169	04/25/23 10:56	05/20/23 07:49	1
13C-1,2,3,7,8-PeCDD	67		25 - 181	04/25/23 10:56	05/20/23 07:49	1
13C-1,2,3,7,8-PeCDF	81		24 - 185	04/25/23 10:56	05/20/23 07:49	1
13C-2,3,4,7,8-PeCDF	63		21 - 178	04/25/23 10:56	05/20/23 07:49	1
13C-1,2,3,4,7,8-HxCDD	57		32 - 141	04/25/23 10:56	05/20/23 07:49	1
13C-1,2,3,6,7,8-HxCDD	52		28 - 130	04/25/23 10:56	05/20/23 07:49	1
13C-1,2,3,4,7,8-HxCDF	72		26 - 152	04/25/23 10:56	05/20/23 07:49	1
13C-1,2,3,6,7,8-HxCDF	86		26 - 123	04/25/23 10:56	05/20/23 07:49	1
13C-2,3,4,6,7,8-HxCDF	86		28 - 136	04/25/23 10:56	05/20/23 07:49	1
13C-1,2,3,7,8,9-HxCDF	79		29 - 147	04/25/23 10:56	05/20/23 07:49	1
13C-1,2,3,4,6,7,8-HpCDD	46		23 - 140	04/25/23 10:56	05/20/23 07:49	1
13C-1,2,3,4,6,7,8-HpCDF	41		28 - 143	04/25/23 10:56	05/20/23 07:49	1
13C-1,2,3,4,7,8,9-HpCDF	22	*5-	26 - 138	04/25/23 10:56	05/20/23 07:49	1
13C-OCDD	34		17 - 157	04/25/23 10:56	05/20/23 07:49	1
13C-OCDF	34		17 - 157	04/25/23 10:56	05/20/23 07:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	85		35 - 197	04/25/23 10:56	05/20/23 07:49	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	ND		0.96	0.27	pg/g		04/25/23 10:56	05/24/23 12:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	56		24 - 169	04/25/23 10:56	05/24/23 12:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	76		35 - 197	04/25/23 10:56	05/24/23 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	7.9	H	0.1	0.1	%			04/24/23 13:53	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-D-0-1.5

Lab Sample ID: 320-97305-5

Date Collected: 02/21/23 15:10

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.47	J q	0.96	0.095	pg/g		04/25/23 10:56	05/20/23 08:37	1
1,2,3,7,8-PeCDD	2.3	J B	4.8	0.18	pg/g		04/25/23 10:56	05/20/23 08:37	1
1,2,3,7,8-PeCDF	1.6	J B	4.8	0.17	pg/g		04/25/23 10:56	05/20/23 08:37	1
2,3,4,7,8-PeCDF	2.5	J B	4.8	0.24	pg/g		04/25/23 10:56	05/20/23 08:37	1
1,2,3,4,7,8-HxCDD	3.9	J B	4.8	0.38	pg/g		04/25/23 10:56	05/20/23 08:37	1
1,2,3,6,7,8-HxCDD	55	B	4.8	0.41	pg/g		04/25/23 10:56	05/20/23 08:37	1
1,2,3,7,8,9-HxCDD	8.2	B	4.8	0.38	pg/g		04/25/23 10:56	05/20/23 08:37	1
1,2,3,4,7,8-HxCDF	4.6	J B	4.8	0.72	pg/g		04/25/23 10:56	05/20/23 08:37	1
1,2,3,6,7,8-HxCDF	3.6	J B	4.8	0.54	pg/g		04/25/23 10:56	05/20/23 08:37	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.50	pg/g		04/25/23 10:56	05/20/23 08:37	1
2,3,4,6,7,8-HxCDF	4.2	J B	4.8	0.51	pg/g		04/25/23 10:56	05/20/23 08:37	1
1,2,3,4,6,7,8-HpCDD	360	B	4.8	1.9	pg/g		04/25/23 10:56	05/20/23 08:37	1
1,2,3,4,6,7,8-HpCDF	67	B	4.8	0.46	pg/g		04/25/23 10:56	05/20/23 08:37	1
1,2,3,4,7,8,9-HpCDF	ND		4.8	0.87	pg/g		04/25/23 10:56	05/20/23 08:37	1
OCDD	2600	B	9.6	1.3	pg/g		04/25/23 10:56	05/20/23 08:37	1
OCDF	41	B	9.6	0.33	pg/g		04/25/23 10:56	05/20/23 08:37	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	57		25 - 164	04/25/23 10:56	05/20/23 08:37	1
13C-2,3,7,8-TCDF	65		24 - 169	04/25/23 10:56	05/20/23 08:37	1
13C-1,2,3,7,8-PeCDD	66		25 - 181	04/25/23 10:56	05/20/23 08:37	1
13C-1,2,3,7,8-PeCDF	78		24 - 185	04/25/23 10:56	05/20/23 08:37	1
13C-2,3,4,7,8-PeCDF	61		21 - 178	04/25/23 10:56	05/20/23 08:37	1
13C-1,2,3,4,7,8-HxCDD	59		32 - 141	04/25/23 10:56	05/20/23 08:37	1
13C-1,2,3,6,7,8-HxCDD	55		28 - 130	04/25/23 10:56	05/20/23 08:37	1
13C-1,2,3,4,7,8-HxCDF	77		26 - 152	04/25/23 10:56	05/20/23 08:37	1
13C-1,2,3,6,7,8-HxCDF	94		26 - 123	04/25/23 10:56	05/20/23 08:37	1
13C-2,3,4,6,7,8-HxCDF	91		28 - 136	04/25/23 10:56	05/20/23 08:37	1
13C-1,2,3,7,8,9-HxCDF	84		29 - 147	04/25/23 10:56	05/20/23 08:37	1
13C-1,2,3,4,6,7,8-HpCDD	47		23 - 140	04/25/23 10:56	05/20/23 08:37	1
13C-1,2,3,4,6,7,8-HpCDF	40		28 - 143	04/25/23 10:56	05/20/23 08:37	1
13C-1,2,3,4,7,8,9-HpCDF	24	*5-	26 - 138	04/25/23 10:56	05/20/23 08:37	1
13C-OCDD	35		17 - 157	04/25/23 10:56	05/20/23 08:37	1
13C-OCDF	36		17 - 157	04/25/23 10:56	05/20/23 08:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	84		35 - 197	04/25/23 10:56	05/20/23 08:37	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	ND		0.96	0.54	pg/g		04/25/23 10:56	05/24/23 13:28	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	55		24 - 169	04/25/23 10:56	05/24/23 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	60		35 - 197	04/25/23 10:56	05/24/23 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	17.5	H	0.1	0.1	%			04/24/23 13:53	1

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Client Sample Results

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-E-0-1.5

Lab Sample ID: 320-97305-6

Date Collected: 02/21/23 15:30

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.97	0.84	pg/g		04/25/23 10:56	05/23/23 23:24	1
2,3,7,8-TCDF	0.59	J	0.97	0.41	pg/g		04/25/23 10:56	05/23/23 23:24	1
1,2,3,7,8-PeCDD	ND		4.9	0.63	pg/g		04/25/23 10:56	05/23/23 23:24	1
1,2,3,7,8-PeCDF	ND		4.9	0.45	pg/g		04/25/23 10:56	05/23/23 23:24	1
2,3,4,7,8-PeCDF	ND		4.9	0.63	pg/g		04/25/23 10:56	05/23/23 23:24	1
1,2,3,4,7,8-HxCDD	1.6	J B	4.9	1.2	pg/g		04/25/23 10:56	05/23/23 23:24	1
1,2,3,6,7,8-HxCDD	11	B	4.9	1.2	pg/g		04/25/23 10:56	05/23/23 23:24	1
1,2,3,7,8,9-HxCDD	4.8	J B	4.9	1.1	pg/g		04/25/23 10:56	05/23/23 23:24	1
1,2,3,4,7,8-HxCDF	ND		4.9	0.59	pg/g		04/25/23 10:56	05/23/23 23:24	1
1,2,3,6,7,8-HxCDF	ND		4.9	0.46	pg/g		04/25/23 10:56	05/23/23 23:24	1
1,2,3,7,8,9-HxCDF	ND		4.9	0.41	pg/g		04/25/23 10:56	05/23/23 23:24	1
2,3,4,6,7,8-HxCDF	ND		4.9	0.43	pg/g		04/25/23 10:56	05/23/23 23:24	1
1,2,3,4,6,7,8-HpCDD	84	B	4.9	1.1	pg/g		04/25/23 10:56	05/23/23 23:24	1
1,2,3,4,6,7,8-HpCDF	13	B	4.9	0.75	pg/g		04/25/23 10:56	05/23/23 23:24	1
1,2,3,4,7,8,9-HpCDF	ND		4.9	0.90	pg/g		04/25/23 10:56	05/23/23 23:24	1
OCDD	540	B	9.7	1.1	pg/g		04/25/23 10:56	05/23/23 23:24	1
OCDF	27	B	9.7	0.74	pg/g		04/25/23 10:56	05/23/23 23:24	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	60		25 - 164	04/25/23 10:56	05/23/23 23:24	1
13C-2,3,7,8-TCDF	68		24 - 169	04/25/23 10:56	05/23/23 23:24	1
13C-1,2,3,7,8-PeCDD	71		25 - 181	04/25/23 10:56	05/23/23 23:24	1
13C-1,2,3,7,8-PeCDF	83		24 - 185	04/25/23 10:56	05/23/23 23:24	1
13C-2,3,4,7,8-PeCDF	64		21 - 178	04/25/23 10:56	05/23/23 23:24	1
13C-1,2,3,4,7,8-HxCDD	56		32 - 141	04/25/23 10:56	05/23/23 23:24	1
13C-1,2,3,6,7,8-HxCDD	54		28 - 130	04/25/23 10:56	05/23/23 23:24	1
13C-1,2,3,4,7,8-HxCDF	64		26 - 152	04/25/23 10:56	05/23/23 23:24	1
13C-1,2,3,6,7,8-HxCDF	79		26 - 123	04/25/23 10:56	05/23/23 23:24	1
13C-2,3,4,6,7,8-HxCDF	80		28 - 136	04/25/23 10:56	05/23/23 23:24	1
13C-1,2,3,7,8,9-HxCDF	79		29 - 147	04/25/23 10:56	05/23/23 23:24	1
13C-1,2,3,4,6,7,8-HpCDD	73		23 - 140	04/25/23 10:56	05/23/23 23:24	1
13C-1,2,3,4,6,7,8-HpCDF	62		28 - 143	04/25/23 10:56	05/23/23 23:24	1
13C-1,2,3,4,7,8,9-HpCDF	60		26 - 138	04/25/23 10:56	05/23/23 23:24	1
13C-OCDD	71		17 - 157	04/25/23 10:56	05/23/23 23:24	1
13C-OCDF	71		17 - 157	04/25/23 10:56	05/23/23 23:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	84		35 - 197	04/25/23 10:56	05/23/23 23:24	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	17.9	H	0.1	0.1	%			04/24/23 13:53	1

Client Sample ID: DU-5-SE-F-0-1.5

Lab Sample ID: 320-97305-7

Date Collected: 02/21/23 15:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.21	J q	0.98	0.095	pg/g		04/25/23 10:56	05/20/23 10:12	1
2,3,7,8-TCDF	0.96	J	0.98	0.078	pg/g		04/25/23 10:56	05/20/23 10:12	1

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Client Sample Results

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-F-0-1.5

Lab Sample ID: 320-97305-7

Date Collected: 02/21/23 15:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDD	0.75	J B	4.9	0.12	pg/g		04/25/23 10:56	05/20/23 10:12	1
1,2,3,7,8-PeCDF	0.51	J B	4.9	0.092	pg/g		04/25/23 10:56	05/20/23 10:12	1
2,3,4,7,8-PeCDF	0.49	J B	4.9	0.13	pg/g		04/25/23 10:56	05/20/23 10:12	1
1,2,3,4,7,8-HxCDD	2.9	J B	4.9	0.19	pg/g		04/25/23 10:56	05/20/23 10:12	1
1,2,3,6,7,8-HxCDD	10	B	4.9	0.21	pg/g		04/25/23 10:56	05/20/23 10:12	1
1,2,3,7,8,9-HxCDD	3.1	J B	4.9	0.19	pg/g		04/25/23 10:56	05/20/23 10:12	1
1,2,3,4,7,8-HxCDF	1.1	J B	4.9	0.31	pg/g		04/25/23 10:56	05/20/23 10:12	1
1,2,3,6,7,8-HxCDF	1.2	J B	4.9	0.23	pg/g		04/25/23 10:56	05/20/23 10:12	1
1,2,3,7,8,9-HxCDF	ND		4.9	0.25	pg/g		04/25/23 10:56	05/20/23 10:12	1
2,3,4,6,7,8-HxCDF	0.57	J B	4.9	0.24	pg/g		04/25/23 10:56	05/20/23 10:12	1
1,2,3,4,6,7,8-HpCDD	100	B	4.9	2.8	pg/g		04/25/23 10:56	05/20/23 10:12	1
1,2,3,4,6,7,8-HpCDF	21	B	4.9	0.48	pg/g		04/25/23 10:56	05/20/23 10:12	1
1,2,3,4,7,8,9-HpCDF	ND		4.9	0.92	pg/g		04/25/23 10:56	05/20/23 10:12	1
OCDD	1000	B	9.8	1.4	pg/g		04/25/23 10:56	05/20/23 10:12	1
OCDF	50	B	9.8	0.45	pg/g		04/25/23 10:56	05/20/23 10:12	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	55		25 - 164				04/25/23 10:56	05/20/23 10:12	1
13C-2,3,7,8-TCDF	66		24 - 169				04/25/23 10:56	05/20/23 10:12	1
13C-1,2,3,7,8-PeCDD	62		25 - 181				04/25/23 10:56	05/20/23 10:12	1
13C-1,2,3,7,8-PeCDF	74		24 - 185				04/25/23 10:56	05/20/23 10:12	1
13C-2,3,4,7,8-PeCDF	57		21 - 178				04/25/23 10:56	05/20/23 10:12	1
13C-1,2,3,4,7,8-HxCDD	60		32 - 141				04/25/23 10:56	05/20/23 10:12	1
13C-1,2,3,6,7,8-HxCDD	53		28 - 130				04/25/23 10:56	05/20/23 10:12	1
13C-1,2,3,4,7,8-HxCDF	79		26 - 152				04/25/23 10:56	05/20/23 10:12	1
13C-1,2,3,6,7,8-HxCDF	101		26 - 123				04/25/23 10:56	05/20/23 10:12	1
13C-2,3,4,6,7,8-HxCDF	90		28 - 136				04/25/23 10:56	05/20/23 10:12	1
13C-1,2,3,7,8,9-HxCDF	81		29 - 147				04/25/23 10:56	05/20/23 10:12	1
13C-1,2,3,4,6,7,8-HpCDD	48		23 - 140				04/25/23 10:56	05/20/23 10:12	1
13C-1,2,3,4,6,7,8-HpCDF	40		28 - 143				04/25/23 10:56	05/20/23 10:12	1
13C-1,2,3,4,7,8,9-HpCDF	24	*5-	26 - 138				04/25/23 10:56	05/20/23 10:12	1
13C-OCDD	31		17 - 157				04/25/23 10:56	05/20/23 10:12	1
13C-OCDF	32		17 - 157				04/25/23 10:56	05/20/23 10:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	83		35 - 197				04/25/23 10:56	05/20/23 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	8.5	H	0.1	0.1	%			04/24/23 13:53	1

Client Sample ID: DU-5-SE-G-0-1.5

Lab Sample ID: 320-97305-8

Date Collected: 02/21/23 15:50

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.17	J q	0.99	0.075	pg/g		04/25/23 10:56	05/20/23 11:00	1
2,3,7,8-TCDF	0.72	J q	0.99	0.059	pg/g		04/25/23 10:56	05/20/23 11:00	1
1,2,3,7,8-PeCDD	0.42	J B	5.0	0.14	pg/g		04/25/23 10:56	05/20/23 11:00	1
1,2,3,7,8-PeCDF	0.28	J B	5.0	0.085	pg/g		04/25/23 10:56	05/20/23 11:00	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-G-0-1.5

Lab Sample ID: 320-97305-8

Date Collected: 02/21/23 15:50

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,7,8-PeCDF	0.33	J B q	5.0	0.13	pg/g		04/25/23 10:56	05/20/23 11:00	1
1,2,3,4,7,8-HxCDD	0.92	J B q	5.0	0.77	pg/g		04/25/23 10:56	05/20/23 11:00	1
1,2,3,6,7,8-HxCDD	8.8	B	5.0	0.70	pg/g		04/25/23 10:56	05/20/23 11:00	1
1,2,3,7,8,9-HxCDD	2.2	J B q	5.0	0.72	pg/g		04/25/23 10:56	05/20/23 11:00	1
1,2,3,4,7,8-HxCDF	ND		5.0	0.52	pg/g		04/25/23 10:56	05/20/23 11:00	1
1,2,3,6,7,8-HxCDF	ND		5.0	0.39	pg/g		04/25/23 10:56	05/20/23 11:00	1
1,2,3,7,8,9-HxCDF	ND		5.0	0.53	pg/g		04/25/23 10:56	05/20/23 11:00	1
2,3,4,6,7,8-HxCDF	ND		5.0	0.50	pg/g		04/25/23 10:56	05/20/23 11:00	1
1,2,3,4,6,7,8-HpCDD	55	B	5.0	1.4	pg/g		04/25/23 10:56	05/20/23 11:00	1
1,2,3,4,6,7,8-HpCDF	5.8	B	5.0	0.41	pg/g		04/25/23 10:56	05/20/23 11:00	1
1,2,3,4,7,8,9-HpCDF	ND		5.0	0.32	pg/g		04/25/23 10:56	05/20/23 11:00	1
OCDD	270	B	9.9	0.86	pg/g		04/25/23 10:56	05/20/23 11:00	1
OCDF	6.6	J B	9.9	0.64	pg/g		04/25/23 10:56	05/20/23 11:00	1

Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	59		25 - 164				04/25/23 10:56	05/20/23 11:00	1
13C-2,3,7,8-TCDF	73		24 - 169				04/25/23 10:56	05/20/23 11:00	1
13C-1,2,3,7,8-PeCDD	66		25 - 181				04/25/23 10:56	05/20/23 11:00	1
13C-1,2,3,7,8-PeCDF	76		24 - 185				04/25/23 10:56	05/20/23 11:00	1
13C-2,3,4,7,8-PeCDF	58		21 - 178				04/25/23 10:56	05/20/23 11:00	1
13C-1,2,3,4,7,8-HxCDD	57		32 - 141				04/25/23 10:56	05/20/23 11:00	1
13C-1,2,3,6,7,8-HxCDD	72		28 - 130				04/25/23 10:56	05/20/23 11:00	1
13C-1,2,3,4,7,8-HxCDF	95		26 - 152				04/25/23 10:56	05/20/23 11:00	1
13C-1,2,3,6,7,8-HxCDF	125	*5+	26 - 123				04/25/23 10:56	05/20/23 11:00	1
13C-2,3,4,6,7,8-HxCDF	104		28 - 136				04/25/23 10:56	05/20/23 11:00	1
13C-1,2,3,7,8,9-HxCDF	90		29 - 147				04/25/23 10:56	05/20/23 11:00	1
13C-1,2,3,4,6,7,8-HpCDD	56		23 - 140				04/25/23 10:56	05/20/23 11:00	1
13C-1,2,3,4,6,7,8-HpCDF	36		28 - 143				04/25/23 10:56	05/20/23 11:00	1
13C-1,2,3,4,7,8,9-HpCDF	33		26 - 138				04/25/23 10:56	05/20/23 11:00	1
13C-OCDD	37		17 - 157				04/25/23 10:56	05/20/23 11:00	1
13C-OCDF	32		17 - 157				04/25/23 10:56	05/20/23 11:00	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	76		35 - 197				04/25/23 10:56	05/20/23 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	8.8	H	0.1	0.1	%			04/24/23 13:53	1

Client Sample ID: DU-5-SE-H-0-1.5

Lab Sample ID: 320-97305-9

Date Collected: 02/21/23 16:00

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.96	0.13	pg/g		04/25/23 10:56	05/20/23 11:47	1
2,3,7,8-TCDF	0.36	J q	0.96	0.084	pg/g		04/25/23 10:56	05/20/23 11:47	1
1,2,3,7,8-PeCDD	0.45	J B q	4.8	0.19	pg/g		04/25/23 10:56	05/20/23 11:47	1
1,2,3,7,8-PeCDF	0.27	J B q	4.8	0.096	pg/g		04/25/23 10:56	05/20/23 11:47	1
2,3,4,7,8-PeCDF	0.28	J B q	4.8	0.14	pg/g		04/25/23 10:56	05/20/23 11:47	1
1,2,3,4,7,8-HxCDD	0.79	J B	4.8	0.45	pg/g		04/25/23 10:56	05/20/23 11:47	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-H-0-1.5

Lab Sample ID: 320-97305-9

Date Collected: 02/21/23 16:00

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDD	5.4	B	4.8	0.48	pg/g		04/25/23 10:56	05/20/23 11:47	1
1,2,3,7,8,9-HxCDD	1.9	J B	4.8	0.45	pg/g		04/25/23 10:56	05/20/23 11:47	1
1,2,3,4,7,8-HxCDF	ND		4.8	0.41	pg/g		04/25/23 10:56	05/20/23 11:47	1
1,2,3,6,7,8-HxCDF	0.38	J B	4.8	0.32	pg/g		04/25/23 10:56	05/20/23 11:47	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.39	pg/g		04/25/23 10:56	05/20/23 11:47	1
2,3,4,6,7,8-HxCDF	ND		4.8	0.35	pg/g		04/25/23 10:56	05/20/23 11:47	1
1,2,3,4,6,7,8-HpCDD	39	B	4.8	1.2	pg/g		04/25/23 10:56	05/20/23 11:47	1
1,2,3,4,6,7,8-HpCDF	6.1	B	4.8	0.50	pg/g		04/25/23 10:56	05/20/23 11:47	1
1,2,3,4,7,8,9-HpCDF	ND		4.8	0.89	pg/g		04/25/23 10:56	05/20/23 11:47	1
OCDD	370	B	9.6	0.82	pg/g		04/25/23 10:56	05/20/23 11:47	1
OCDF	12	B	9.6	0.90	pg/g		04/25/23 10:56	05/20/23 11:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	53		25 - 164				04/25/23 10:56	05/20/23 11:47	1
13C-2,3,7,8-TCDF	63		24 - 169				04/25/23 10:56	05/20/23 11:47	1
13C-1,2,3,7,8-PeCDD	61		25 - 181				04/25/23 10:56	05/20/23 11:47	1
13C-1,2,3,7,8-PeCDF	69		24 - 185				04/25/23 10:56	05/20/23 11:47	1
13C-2,3,4,7,8-PeCDF	54		21 - 178				04/25/23 10:56	05/20/23 11:47	1
13C-1,2,3,4,7,8-HxCDD	58		32 - 141				04/25/23 10:56	05/20/23 11:47	1
13C-1,2,3,6,7,8-HxCDD	49		28 - 130				04/25/23 10:56	05/20/23 11:47	1
13C-1,2,3,4,7,8-HxCDF	76		26 - 152				04/25/23 10:56	05/20/23 11:47	1
13C-1,2,3,6,7,8-HxCDF	94		26 - 123				04/25/23 10:56	05/20/23 11:47	1
13C-2,3,4,6,7,8-HxCDF	83		28 - 136				04/25/23 10:56	05/20/23 11:47	1
13C-1,2,3,7,8,9-HxCDF	74		29 - 147				04/25/23 10:56	05/20/23 11:47	1
13C-1,2,3,4,6,7,8-HpCDD	44		23 - 140				04/25/23 10:56	05/20/23 11:47	1
13C-1,2,3,4,6,7,8-HpCDF	34		28 - 143				04/25/23 10:56	05/20/23 11:47	1
13C-1,2,3,4,7,8,9-HpCDF	24	*5-	26 - 138				04/25/23 10:56	05/20/23 11:47	1
13C-OCDD	32		17 - 157				04/25/23 10:56	05/20/23 11:47	1
13C-OCDF	30		17 - 157				04/25/23 10:56	05/20/23 11:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	82		35 - 197				04/25/23 10:56	05/20/23 11:47	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	7.1	H	0.1	0.1	%			04/24/23 13:53	1

Client Sample ID: DU-5-SE-I-0-1.5

Lab Sample ID: 320-97305-10

Date Collected: 02/21/23 16:10

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.2	q	0.97	0.23	pg/g		04/25/23 10:56	05/20/23 12:35	1
1,2,3,7,8-PeCDD	3.9	J B	4.9	0.36	pg/g		04/25/23 10:56	05/20/23 12:35	1
1,2,3,7,8-PeCDF	2.7	J B	4.9	0.20	pg/g		04/25/23 10:56	05/20/23 12:35	1
2,3,4,7,8-PeCDF	2.7	J B	4.9	0.28	pg/g		04/25/23 10:56	05/20/23 12:35	1
1,2,3,4,7,8-HxCDD	14	B	4.9	0.70	pg/g		04/25/23 10:56	05/20/23 12:35	1
1,2,3,6,7,8-HxCDD	37	B	4.9	0.77	pg/g		04/25/23 10:56	05/20/23 12:35	1
1,2,3,7,8,9-HxCDD	9.0	B	4.9	0.72	pg/g		04/25/23 10:56	05/20/23 12:35	1
1,2,3,4,7,8-HxCDF	6.6	B	4.9	0.68	pg/g		04/25/23 10:56	05/20/23 12:35	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-I-0-1.5

Lab Sample ID: 320-97305-10

Date Collected: 02/21/23 16:10

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDF	4.3	J B	4.9	0.53	pg/g		04/25/23 10:56	05/20/23 12:35	1
1,2,3,7,8,9-HxCDF	0.73	J B	4.9	0.52	pg/g		04/25/23 10:56	05/20/23 12:35	1
2,3,4,6,7,8-HxCDF	2.7	J B	4.9	0.50	pg/g		04/25/23 10:56	05/20/23 12:35	1
1,2,3,4,6,7,8-HpCDD	590	B	4.9	4.5	pg/g		04/25/23 10:56	05/20/23 12:35	1
1,2,3,4,6,7,8-HpCDF	130	B	4.9	1.1	pg/g		04/25/23 10:56	05/20/23 12:35	1
1,2,3,4,7,8,9-HpCDF	6.3	B	4.9	1.7	pg/g		04/25/23 10:56	05/20/23 12:35	1
OCDD	9600	E B	9.7	3.7	pg/g		04/25/23 10:56	05/20/23 12:35	1
OCDF	380	B	9.7	0.66	pg/g		04/25/23 10:56	05/20/23 12:35	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	56		25 - 164	04/25/23 10:56	05/20/23 12:35	1
13C-2,3,7,8-TCDF	68		24 - 169	04/25/23 10:56	05/20/23 12:35	1
13C-1,2,3,7,8-PeCDD	62		25 - 181	04/25/23 10:56	05/20/23 12:35	1
13C-1,2,3,7,8-PeCDF	74		24 - 185	04/25/23 10:56	05/20/23 12:35	1
13C-2,3,4,7,8-PeCDF	60		21 - 178	04/25/23 10:56	05/20/23 12:35	1
13C-1,2,3,4,7,8-HxCDD	59		32 - 141	04/25/23 10:56	05/20/23 12:35	1
13C-1,2,3,6,7,8-HxCDD	53		28 - 130	04/25/23 10:56	05/20/23 12:35	1
13C-1,2,3,4,7,8-HxCDF	81		26 - 152	04/25/23 10:56	05/20/23 12:35	1
13C-1,2,3,6,7,8-HxCDF	94		26 - 123	04/25/23 10:56	05/20/23 12:35	1
13C-2,3,4,6,7,8-HxCDF	91		28 - 136	04/25/23 10:56	05/20/23 12:35	1
13C-1,2,3,7,8,9-HxCDF	81		29 - 147	04/25/23 10:56	05/20/23 12:35	1
13C-1,2,3,4,6,7,8-HpCDD	50		23 - 140	04/25/23 10:56	05/20/23 12:35	1
13C-1,2,3,4,6,7,8-HpCDF	42		28 - 143	04/25/23 10:56	05/20/23 12:35	1
13C-1,2,3,4,7,8,9-HpCDF	27		26 - 138	04/25/23 10:56	05/20/23 12:35	1
13C-OCDD	40		17 - 157	04/25/23 10:56	05/20/23 12:35	1
13C-OCDF	42		17 - 157	04/25/23 10:56	05/20/23 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	83		35 - 197	04/25/23 10:56	05/20/23 12:35	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.5		0.97	0.19	pg/g		04/25/23 10:56	05/24/23 14:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	60		24 - 169	04/25/23 10:56	05/24/23 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	75		35 - 197	04/25/23 10:56	05/24/23 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	13.8	H	0.1	0.1	%			04/24/23 13:53	1

Client Sample ID: DU-5-SE-J-0-1.5

Lab Sample ID: 320-97305-11

Date Collected: 02/21/23 16:20

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.17	J q	0.99	0.075	pg/g		04/25/23 10:56	05/20/23 15:54	1
1,2,3,7,8-PeCDD	1.4	J B	5.0	0.13	pg/g		04/25/23 10:56	05/20/23 15:54	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-J-0-1.5

Lab Sample ID: 320-97305-11

Date Collected: 02/21/23 16:20

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDF	1.4	J B	5.0	0.12	pg/g		04/25/23 10:56	05/20/23 15:54	1
2,3,4,7,8-PeCDF	1.8	J B	5.0	0.18	pg/g		04/25/23 10:56	05/20/23 15:54	1
1,2,3,4,7,8-HxCDD	3.6	J B q	5.0	0.47	pg/g		04/25/23 10:56	05/20/23 15:54	1
1,2,3,6,7,8-HxCDD	46	B	5.0	0.51	pg/g		04/25/23 10:56	05/20/23 15:54	1
1,2,3,7,8,9-HxCDD	6.6	B	5.0	0.48	pg/g		04/25/23 10:56	05/20/23 15:54	1
1,2,3,4,7,8-HxCDF	3.2	J B q	5.0	0.58	pg/g		04/25/23 10:56	05/20/23 15:54	1
1,2,3,6,7,8-HxCDF	2.4	J B	5.0	0.45	pg/g		04/25/23 10:56	05/20/23 15:54	1
1,2,3,7,8,9-HxCDF	ND		5.0	0.40	pg/g		04/25/23 10:56	05/20/23 15:54	1
2,3,4,6,7,8-HxCDF	3.1	J B	5.0	0.48	pg/g		04/25/23 10:56	05/20/23 15:54	1
1,2,3,4,6,7,8-HpCDD	390	B G	10	10	pg/g		04/25/23 10:56	05/20/23 15:54	1
1,2,3,4,6,7,8-HpCDF	54	B	5.0	0.83	pg/g		04/25/23 10:56	05/20/23 15:54	1
1,2,3,4,7,8,9-HpCDF	ND		5.0	2.1	pg/g		04/25/23 10:56	05/20/23 15:54	1
OCDD	3500	B	9.9	3.5	pg/g		04/25/23 10:56	05/20/23 15:54	1
OCDF	37	B	9.9	0.18	pg/g		04/25/23 10:56	05/20/23 15:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	51		25 - 164	04/25/23 10:56	05/20/23 15:54	1
13C-2,3,7,8-TCDF	60		24 - 169	04/25/23 10:56	05/20/23 15:54	1
13C-1,2,3,7,8-PeCDD	60		25 - 181	04/25/23 10:56	05/20/23 15:54	1
13C-1,2,3,7,8-PeCDF	71		24 - 185	04/25/23 10:56	05/20/23 15:54	1
13C-2,3,4,7,8-PeCDF	55		21 - 178	04/25/23 10:56	05/20/23 15:54	1
13C-1,2,3,4,7,8-HxCDD	50		32 - 141	04/25/23 10:56	05/20/23 15:54	1
13C-1,2,3,6,7,8-HxCDD	48		28 - 130	04/25/23 10:56	05/20/23 15:54	1
13C-1,2,3,4,7,8-HxCDF	68		26 - 152	04/25/23 10:56	05/20/23 15:54	1
13C-1,2,3,6,7,8-HxCDF	94		26 - 123	04/25/23 10:56	05/20/23 15:54	1
13C-2,3,4,6,7,8-HxCDF	82		28 - 136	04/25/23 10:56	05/20/23 15:54	1
13C-1,2,3,7,8,9-HxCDF	76		29 - 147	04/25/23 10:56	05/20/23 15:54	1
13C-1,2,3,4,6,7,8-HpCDD	50		23 - 140	04/25/23 10:56	05/20/23 15:54	1
13C-1,2,3,4,6,7,8-HpCDF	42		28 - 143	04/25/23 10:56	05/20/23 15:54	1
13C-1,2,3,4,7,8,9-HpCDF	24	*5-	26 - 138	04/25/23 10:56	05/20/23 15:54	1
13C-OCDD	33		17 - 157	04/25/23 10:56	05/20/23 15:54	1
13C-OCDF	34		17 - 157	04/25/23 10:56	05/20/23 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	75		35 - 197	04/25/23 10:56	05/20/23 15:54	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	ND		0.99	0.67	pg/g		04/25/23 10:56	05/24/23 18:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	52		24 - 169	04/25/23 10:56	05/24/23 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	76		35 - 197	04/25/23 10:56	05/24/23 18:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	16.5	H	0.1	0.1	%			04/24/23 13:53	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-A-0-1.5

Lab Sample ID: 320-97305-57

Date Collected: 02/22/23 08:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.5		0.94	0.16	pg/g		04/25/23 10:56	05/24/23 00:12	1
1,2,3,7,8-PeCDD	11	q B	4.7	0.56	pg/g		04/25/23 10:56	05/24/23 00:12	1
1,2,3,7,8-PeCDF	7.0	B	4.7	0.63	pg/g		04/25/23 10:56	05/24/23 00:12	1
2,3,4,7,8-PeCDF	10	B	4.7	0.96	pg/g		04/25/23 10:56	05/24/23 00:12	1
1,2,3,4,7,8-HxCDD	20	B	4.7	0.89	pg/g		04/25/23 10:56	05/24/23 00:12	1
1,2,3,6,7,8-HxCDD	230	B	4.7	0.90	pg/g		04/25/23 10:56	05/24/23 00:12	1
1,2,3,7,8,9-HxCDD	51	B	4.7	0.87	pg/g		04/25/23 10:56	05/24/23 00:12	1
1,2,3,4,7,8-HxCDF	15	q B	4.7	3.2	pg/g		04/25/23 10:56	05/24/23 00:12	1
1,2,3,6,7,8-HxCDF	12	q B	4.7	2.4	pg/g		04/25/23 10:56	05/24/23 00:12	1
1,2,3,7,8,9-HxCDF	ND		4.7	2.4	pg/g		04/25/23 10:56	05/24/23 00:12	1
2,3,4,6,7,8-HxCDF	14	q B	4.7	2.5	pg/g		04/25/23 10:56	05/24/23 00:12	1
1,2,3,4,6,7,8-HpCDD	2100	G E B	35	35	pg/g		04/25/23 10:56	05/24/23 00:12	1
1,2,3,4,6,7,8-HpCDF	250	B	4.7	2.6	pg/g		04/25/23 10:56	05/24/23 00:12	1
1,2,3,4,7,8,9-HpCDF	9.5	G B	6.6	6.6	pg/g		04/25/23 10:56	05/24/23 00:12	1
OCDD	16000	G E B	9.8	9.8	pg/g		04/25/23 10:56	05/24/23 00:12	1
OCDF	150	B	9.4	0.38	pg/g		04/25/23 10:56	05/24/23 00:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	52		25 - 164	04/25/23 10:56	05/24/23 00:12	1
13C-2,3,7,8-TCDF	59		24 - 169	04/25/23 10:56	05/24/23 00:12	1
13C-1,2,3,7,8-PeCDD	58		25 - 181	04/25/23 10:56	05/24/23 00:12	1
13C-1,2,3,7,8-PeCDF	68		24 - 185	04/25/23 10:56	05/24/23 00:12	1
13C-2,3,4,7,8-PeCDF	51		21 - 178	04/25/23 10:56	05/24/23 00:12	1
13C-1,2,3,4,7,8-HxCDD	53		32 - 141	04/25/23 10:56	05/24/23 00:12	1
13C-1,2,3,6,7,8-HxCDD	52		28 - 130	04/25/23 10:56	05/24/23 00:12	1
13C-1,2,3,4,7,8-HxCDF	61		26 - 152	04/25/23 10:56	05/24/23 00:12	1
13C-1,2,3,6,7,8-HxCDF	88		26 - 123	04/25/23 10:56	05/24/23 00:12	1
13C-2,3,4,6,7,8-HxCDF	78		28 - 136	04/25/23 10:56	05/24/23 00:12	1
13C-1,2,3,7,8,9-HxCDF	72		29 - 147	04/25/23 10:56	05/24/23 00:12	1
13C-1,2,3,4,6,7,8-HpCDD	47		23 - 140	04/25/23 10:56	05/24/23 00:12	1
13C-1,2,3,4,6,7,8-HpCDF	41		28 - 143	04/25/23 10:56	05/24/23 00:12	1
13C-1,2,3,4,7,8,9-HpCDF	18	*5-	26 - 138	04/25/23 10:56	05/24/23 00:12	1
13C-OCDD	37		17 - 157	04/25/23 10:56	05/24/23 00:12	1
13C-OCDF	40		17 - 157	04/25/23 10:56	05/24/23 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	81		35 - 197	04/25/23 10:56	05/24/23 00:12	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	6.1		0.94	0.47	pg/g		04/25/23 10:56	05/24/23 19:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	49		24 - 169	04/25/23 10:56	05/24/23 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	74		35 - 197	04/25/23 10:56	05/24/23 19:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	14.8	H	0.1	0.1	%			04/24/23 13:53	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-B-0-1.5

Lab Sample ID: 320-97305-58

Date Collected: 02/22/23 08:50

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.4		0.94	0.40	pg/g		04/25/23 10:56	05/20/23 17:30	1
1,2,3,7,8-PeCDD	10	q B	4.7	0.72	pg/g		04/25/23 10:56	05/20/23 17:30	1
1,2,3,7,8-PeCDF	5.7	B	4.7	1.0	pg/g		04/25/23 10:56	05/20/23 17:30	1
2,3,4,7,8-PeCDF	7.9	B	4.7	1.4	pg/g		04/25/23 10:56	05/20/23 17:30	1
1,2,3,4,7,8-HxCDD	20	B	4.7	2.0	pg/g		04/25/23 10:56	05/20/23 17:30	1
1,2,3,6,7,8-HxCDD	260	B	4.7	2.0	pg/g		04/25/23 10:56	05/20/23 17:30	1
1,2,3,7,8,9-HxCDD	52	B	4.7	2.0	pg/g		04/25/23 10:56	05/20/23 17:30	1
1,2,3,4,7,8-HxCDF	21	B	4.7	1.9	pg/g		04/25/23 10:56	05/20/23 17:30	1
1,2,3,6,7,8-HxCDF	17	B	4.7	1.5	pg/g		04/25/23 10:56	05/20/23 17:30	1
1,2,3,7,8,9-HxCDF	ND		4.7	1.3	pg/g		04/25/23 10:56	05/20/23 17:30	1
2,3,4,6,7,8-HxCDF	16	B	4.7	1.3	pg/g		04/25/23 10:56	05/20/23 17:30	1
1,2,3,4,6,7,8-HpCDD	2000	G E B	12	12	pg/g		04/25/23 10:56	05/20/23 17:30	1
1,2,3,4,6,7,8-HpCDF	270	B	4.7	2.5	pg/g		04/25/23 10:56	05/20/23 17:30	1
1,2,3,4,7,8,9-HpCDF	9.1	B	4.7	3.5	pg/g		04/25/23 10:56	05/20/23 17:30	1
OCDD	18000	E B	9.4	8.6	pg/g		04/25/23 10:56	05/20/23 17:30	1
OCDF	190	B	9.4	0.96	pg/g		04/25/23 10:56	05/20/23 17:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	59		25 - 164	04/25/23 10:56	05/20/23 17:30	1
13C-2,3,7,8-TCDF	67		24 - 169	04/25/23 10:56	05/20/23 17:30	1
13C-1,2,3,7,8-PeCDD	74		25 - 181	04/25/23 10:56	05/20/23 17:30	1
13C-1,2,3,7,8-PeCDF	85		24 - 185	04/25/23 10:56	05/20/23 17:30	1
13C-2,3,4,7,8-PeCDF	68		21 - 178	04/25/23 10:56	05/20/23 17:30	1
13C-1,2,3,4,7,8-HxCDD	59		32 - 141	04/25/23 10:56	05/20/23 17:30	1
13C-1,2,3,6,7,8-HxCDD	55		28 - 130	04/25/23 10:56	05/20/23 17:30	1
13C-1,2,3,4,7,8-HxCDF	68		26 - 152	04/25/23 10:56	05/20/23 17:30	1
13C-1,2,3,6,7,8-HxCDF	81		26 - 123	04/25/23 10:56	05/20/23 17:30	1
13C-2,3,4,6,7,8-HxCDF	84		28 - 136	04/25/23 10:56	05/20/23 17:30	1
13C-1,2,3,7,8,9-HxCDF	83		29 - 147	04/25/23 10:56	05/20/23 17:30	1
13C-1,2,3,4,6,7,8-HpCDD	61		23 - 140	04/25/23 10:56	05/20/23 17:30	1
13C-1,2,3,4,6,7,8-HpCDF	52		28 - 143	04/25/23 10:56	05/20/23 17:30	1
13C-1,2,3,4,7,8,9-HpCDF	40		26 - 138	04/25/23 10:56	05/20/23 17:30	1
13C-OCDD	49		17 - 157	04/25/23 10:56	05/20/23 17:30	1
13C-OCDF	51		17 - 157	04/25/23 10:56	05/20/23 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	88		35 - 197	04/25/23 10:56	05/20/23 17:30	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	5.8		0.94	0.63	pg/g		04/25/23 10:56	05/24/23 19:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	55		24 - 169	04/25/23 10:56	05/24/23 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	77		35 - 197	04/25/23 10:56	05/24/23 19:56	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	10.5	H	0.1	0.1	%			04/24/23 13:53	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-C-0-1.5

Lab Sample ID: 320-97305-59

Date Collected: 02/22/23 09:00

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.69	J q	0.95	0.14	pg/g		04/25/23 10:56	05/20/23 18:17	1
1,2,3,7,8-PeCDD	5.5	B	4.8	0.35	pg/g		04/25/23 10:56	05/20/23 18:17	1
1,2,3,7,8-PeCDF	3.5	J B	4.8	0.50	pg/g		04/25/23 10:56	05/20/23 18:17	1
2,3,4,7,8-PeCDF	4.8	B	4.8	0.73	pg/g		04/25/23 10:56	05/20/23 18:17	1
1,2,3,4,7,8-HxCDD	6.1	B	4.8	0.66	pg/g		04/25/23 10:56	05/20/23 18:17	1
1,2,3,6,7,8-HxCDD	100	B	4.8	0.72	pg/g		04/25/23 10:56	05/20/23 18:17	1
1,2,3,7,8,9-HxCDD	22	B	4.8	0.67	pg/g		04/25/23 10:56	05/20/23 18:17	1
1,2,3,4,7,8-HxCDF	7.2	B	4.8	1.7	pg/g		04/25/23 10:56	05/20/23 18:17	1
1,2,3,6,7,8-HxCDF	7.5	B	4.8	1.3	pg/g		04/25/23 10:56	05/20/23 18:17	1
1,2,3,7,8,9-HxCDF	ND		4.8	1.4	pg/g		04/25/23 10:56	05/20/23 18:17	1
2,3,4,6,7,8-HxCDF	5.6	B q	4.8	1.4	pg/g		04/25/23 10:56	05/20/23 18:17	1
1,2,3,4,6,7,8-HpCDD	640	B G	18	18	pg/g		04/25/23 10:56	05/20/23 18:17	1
1,2,3,4,6,7,8-HpCDF	80	B	4.8	1.1	pg/g		04/25/23 10:56	05/20/23 18:17	1
1,2,3,4,7,8,9-HpCDF	ND		4.8	2.4	pg/g		04/25/23 10:56	05/20/23 18:17	1
OCDD	5900	E B	9.5	6.0	pg/g		04/25/23 10:56	05/20/23 18:17	1
OCDF	47	B	9.5	0.71	pg/g		04/25/23 10:56	05/20/23 18:17	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	51		25 - 164	04/25/23 10:56	05/20/23 18:17	1
13C-2,3,7,8-TCDF	61		24 - 169	04/25/23 10:56	05/20/23 18:17	1
13C-1,2,3,7,8-PeCDD	59		25 - 181	04/25/23 10:56	05/20/23 18:17	1
13C-1,2,3,7,8-PeCDF	69		24 - 185	04/25/23 10:56	05/20/23 18:17	1
13C-2,3,4,7,8-PeCDF	53		21 - 178	04/25/23 10:56	05/20/23 18:17	1
13C-1,2,3,4,7,8-HxCDD	56		32 - 141	04/25/23 10:56	05/20/23 18:17	1
13C-1,2,3,6,7,8-HxCDD	49		28 - 130	04/25/23 10:56	05/20/23 18:17	1
13C-1,2,3,4,7,8-HxCDF	70		26 - 152	04/25/23 10:56	05/20/23 18:17	1
13C-1,2,3,6,7,8-HxCDF	94		26 - 123	04/25/23 10:56	05/20/23 18:17	1
13C-2,3,4,6,7,8-HxCDF	82		28 - 136	04/25/23 10:56	05/20/23 18:17	1
13C-1,2,3,7,8,9-HxCDF	75		29 - 147	04/25/23 10:56	05/20/23 18:17	1
13C-1,2,3,4,6,7,8-HpCDD	47		23 - 140	04/25/23 10:56	05/20/23 18:17	1
13C-1,2,3,4,6,7,8-HpCDF	38		28 - 143	04/25/23 10:56	05/20/23 18:17	1
13C-1,2,3,4,7,8,9-HpCDF	22	*5-	26 - 138	04/25/23 10:56	05/20/23 18:17	1
13C-OCDD	31		17 - 157	04/25/23 10:56	05/20/23 18:17	1
13C-OCDF	29		17 - 157	04/25/23 10:56	05/20/23 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	79		35 - 197	04/25/23 10:56	05/20/23 18:17	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	4.2		0.95	0.78	pg/g		04/25/23 10:56	05/24/23 20:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	49		24 - 169	04/25/23 10:56	05/24/23 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	68		35 - 197	04/25/23 10:56	05/24/23 20:39	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	12.6	H	0.1	0.1	%			04/24/23 13:53	1

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Client Sample Results

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-D-0-1.5

Lab Sample ID: 320-97305-60

Date Collected: 02/22/23 09:10

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.42	J q	1.0	0.085	pg/g		04/25/23 10:56	05/20/23 19:05	1
1,2,3,7,8-PeCDD	0.95	J B q	5.0	0.14	pg/g		04/25/23 10:56	05/20/23 19:05	1
1,2,3,7,8-PeCDF	0.67	J B	5.0	0.17	pg/g		04/25/23 10:56	05/20/23 19:05	1
2,3,4,7,8-PeCDF	1.1	J B	5.0	0.24	pg/g		04/25/23 10:56	05/20/23 19:05	1
1,2,3,4,7,8-HxCDD	1.5	J B q	5.0	0.61	pg/g		04/25/23 10:56	05/20/23 19:05	1
1,2,3,6,7,8-HxCDD	24	B	5.0	0.66	pg/g		04/25/23 10:56	05/20/23 19:05	1
1,2,3,7,8,9-HxCDD	5.5	B	5.0	0.61	pg/g		04/25/23 10:56	05/20/23 19:05	1
1,2,3,4,7,8-HxCDF	1.4	J B	5.0	0.47	pg/g		04/25/23 10:56	05/20/23 19:05	1
1,2,3,6,7,8-HxCDF	1.5	J B	5.0	0.35	pg/g		04/25/23 10:56	05/20/23 19:05	1
1,2,3,7,8,9-HxCDF	ND		5.0	0.35	pg/g		04/25/23 10:56	05/20/23 19:05	1
2,3,4,6,7,8-HxCDF	1.2	J B	5.0	0.35	pg/g		04/25/23 10:56	05/20/23 19:05	1
1,2,3,4,6,7,8-HpCDD	170	B	5.0	1.2	pg/g		04/25/23 10:56	05/20/23 19:05	1
1,2,3,4,6,7,8-HpCDF	19	B	5.0	0.34	pg/g		04/25/23 10:56	05/20/23 19:05	1
1,2,3,4,7,8,9-HpCDF	ND		5.0	0.55	pg/g		04/25/23 10:56	05/20/23 19:05	1
OCDD	1200	B	10	1.1	pg/g		04/25/23 10:56	05/20/23 19:05	1
OCDF	19	B	10	0.58	pg/g		04/25/23 10:56	05/20/23 19:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	51		25 - 164	04/25/23 10:56	05/20/23 19:05	1
13C-2,3,7,8-TCDF	62		24 - 169	04/25/23 10:56	05/20/23 19:05	1
13C-1,2,3,7,8-PeCDD	58		25 - 181	04/25/23 10:56	05/20/23 19:05	1
13C-1,2,3,7,8-PeCDF	68		24 - 185	04/25/23 10:56	05/20/23 19:05	1
13C-2,3,4,7,8-PeCDF	55		21 - 178	04/25/23 10:56	05/20/23 19:05	1
13C-1,2,3,4,7,8-HxCDD	55		32 - 141	04/25/23 10:56	05/20/23 19:05	1
13C-1,2,3,6,7,8-HxCDD	47		28 - 130	04/25/23 10:56	05/20/23 19:05	1
13C-1,2,3,4,7,8-HxCDF	72		26 - 152	04/25/23 10:56	05/20/23 19:05	1
13C-1,2,3,6,7,8-HxCDF	88		26 - 123	04/25/23 10:56	05/20/23 19:05	1
13C-2,3,4,6,7,8-HxCDF	82		28 - 136	04/25/23 10:56	05/20/23 19:05	1
13C-1,2,3,7,8,9-HxCDF	74		29 - 147	04/25/23 10:56	05/20/23 19:05	1
13C-1,2,3,4,6,7,8-HpCDD	47		23 - 140	04/25/23 10:56	05/20/23 19:05	1
13C-1,2,3,4,6,7,8-HpCDF	39		28 - 143	04/25/23 10:56	05/20/23 19:05	1
13C-1,2,3,4,7,8,9-HpCDF	26		26 - 138	04/25/23 10:56	05/20/23 19:05	1
13C-OCDD	35		17 - 157	04/25/23 10:56	05/20/23 19:05	1
13C-OCDF	35		17 - 157	04/25/23 10:56	05/20/23 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	83		35 - 197	04/25/23 10:56	05/20/23 19:05	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	ND		1.0	0.51	pg/g		04/25/23 10:56	05/24/23 21:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	52		24 - 169	04/25/23 10:56	05/24/23 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	71		35 - 197	04/25/23 10:56	05/24/23 21:23	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	7.2	H	0.1	0.1	%			04/24/23 13:53	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-E-0-1.5

Lab Sample ID: 320-97305-61

Date Collected: 02/22/23 09:20

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.95	0.59	pg/g		04/25/23 10:56	05/20/23 19:52	1
1,2,3,7,8-PeCDD	4.0	J B	4.8	0.73	pg/g		04/25/23 10:56	05/20/23 19:52	1
1,2,3,7,8-PeCDF	1.8	J B	4.8	0.41	pg/g		04/25/23 10:56	05/20/23 19:52	1
2,3,4,7,8-PeCDF	2.4	J B	4.8	0.62	pg/g		04/25/23 10:56	05/20/23 19:52	1
1,2,3,4,7,8-HxCDD	4.4	J B q	4.8	1.1	pg/g		04/25/23 10:56	05/20/23 19:52	1
1,2,3,6,7,8-HxCDD	51	B	4.8	1.2	pg/g		04/25/23 10:56	05/20/23 19:52	1
1,2,3,7,8,9-HxCDD	12	B	4.8	1.2	pg/g		04/25/23 10:56	05/20/23 19:52	1
1,2,3,4,7,8-HxCDF	3.4	J B	4.8	1.4	pg/g		04/25/23 10:56	05/20/23 19:52	1
1,2,3,6,7,8-HxCDF	3.9	J B	4.8	1.1	pg/g		04/25/23 10:56	05/20/23 19:52	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.92	pg/g		04/25/23 10:56	05/20/23 19:52	1
2,3,4,6,7,8-HxCDF	3.5	J B	4.8	0.90	pg/g		04/25/23 10:56	05/20/23 19:52	1
1,2,3,4,6,7,8-HpCDD	310	B	4.8	2.7	pg/g		04/25/23 10:56	05/20/23 19:52	1
1,2,3,4,6,7,8-HpCDF	53	B	4.8	1.0	pg/g		04/25/23 10:56	05/20/23 19:52	1
1,2,3,4,7,8,9-HpCDF	1.5	J B q	4.8	1.3	pg/g		04/25/23 10:56	05/20/23 19:52	1
OCDD	2200	B	9.5	5.2	pg/g		04/25/23 10:56	05/20/23 19:52	1
OCDF	43	B	9.5	2.9	pg/g		04/25/23 10:56	05/20/23 19:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	54		25 - 164	04/25/23 10:56	05/20/23 19:52	1
13C-2,3,7,8-TCDF	61		24 - 169	04/25/23 10:56	05/20/23 19:52	1
13C-1,2,3,7,8-PeCDD	64		25 - 181	04/25/23 10:56	05/20/23 19:52	1
13C-1,2,3,7,8-PeCDF	77		24 - 185	04/25/23 10:56	05/20/23 19:52	1
13C-2,3,4,7,8-PeCDF	60		21 - 178	04/25/23 10:56	05/20/23 19:52	1
13C-1,2,3,4,7,8-HxCDD	56		32 - 141	04/25/23 10:56	05/20/23 19:52	1
13C-1,2,3,6,7,8-HxCDD	50		28 - 130	04/25/23 10:56	05/20/23 19:52	1
13C-1,2,3,4,7,8-HxCDF	64		26 - 152	04/25/23 10:56	05/20/23 19:52	1
13C-1,2,3,6,7,8-HxCDF	77		26 - 123	04/25/23 10:56	05/20/23 19:52	1
13C-2,3,4,6,7,8-HxCDF	81		28 - 136	04/25/23 10:56	05/20/23 19:52	1
13C-1,2,3,7,8,9-HxCDF	79		29 - 147	04/25/23 10:56	05/20/23 19:52	1
13C-1,2,3,4,6,7,8-HpCDD	59		23 - 140	04/25/23 10:56	05/20/23 19:52	1
13C-1,2,3,4,6,7,8-HpCDF	50		28 - 143	04/25/23 10:56	05/20/23 19:52	1
13C-1,2,3,4,7,8,9-HpCDF	45		26 - 138	04/25/23 10:56	05/20/23 19:52	1
13C-OCDD	49		17 - 157	04/25/23 10:56	05/20/23 19:52	1
13C-OCDF	47		17 - 157	04/25/23 10:56	05/20/23 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	81		35 - 197	04/25/23 10:56	05/20/23 19:52	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	ND		0.95	0.82	pg/g		04/25/23 10:56	05/24/23 22:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	53		24 - 169	04/25/23 10:56	05/24/23 22:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	73		35 - 197	04/25/23 10:56	05/24/23 22:06	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	7.9	H	0.1	0.1	%			04/24/23 13:53	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-F-0-1.5

Lab Sample ID: 320-97305-62

Date Collected: 02/22/23 09:30

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.30	J q	0.94	0.066	pg/g		04/25/23 10:56	05/20/23 20:40	1
1,2,3,7,8-PeCDD	1.7	J B q	4.7	0.12	pg/g		04/25/23 10:56	05/20/23 20:40	1
1,2,3,7,8-PeCDF	0.96	J B	4.7	0.13	pg/g		04/25/23 10:56	05/20/23 20:40	1
2,3,4,7,8-PeCDF	1.5	J B	4.7	0.19	pg/g		04/25/23 10:56	05/20/23 20:40	1
1,2,3,4,7,8-HxCDD	2.4	J B	4.7	0.37	pg/g		04/25/23 10:56	05/20/23 20:40	1
1,2,3,6,7,8-HxCDD	36	B	4.7	0.40	pg/g		04/25/23 10:56	05/20/23 20:40	1
1,2,3,7,8,9-HxCDD	8.1	B	4.7	0.37	pg/g		04/25/23 10:56	05/20/23 20:40	1
1,2,3,4,7,8-HxCDF	2.3	J B	4.7	0.49	pg/g		04/25/23 10:56	05/20/23 20:40	1
1,2,3,6,7,8-HxCDF	1.9	J B q	4.7	0.37	pg/g		04/25/23 10:56	05/20/23 20:40	1
1,2,3,7,8,9-HxCDF	ND		4.7	0.37	pg/g		04/25/23 10:56	05/20/23 20:40	1
2,3,4,6,7,8-HxCDF	1.9	J B	4.7	0.37	pg/g		04/25/23 10:56	05/20/23 20:40	1
1,2,3,4,6,7,8-HpCDD	260	B G	6.7	6.7	pg/g		04/25/23 10:56	05/20/23 20:40	1
1,2,3,4,6,7,8-HpCDF	30	B	4.7	0.37	pg/g		04/25/23 10:56	05/20/23 20:40	1
1,2,3,4,7,8,9-HpCDF	1.3	J B	4.7	0.78	pg/g		04/25/23 10:56	05/20/23 20:40	1
OCDD	2100	B	9.4	1.2	pg/g		04/25/23 10:56	05/20/23 20:40	1
OCDF	27	B	9.4	0.31	pg/g		04/25/23 10:56	05/20/23 20:40	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	56		25 - 164	04/25/23 10:56	05/20/23 20:40	1
13C-2,3,7,8-TCDF	68		24 - 169	04/25/23 10:56	05/20/23 20:40	1
13C-1,2,3,7,8-PeCDD	62		25 - 181	04/25/23 10:56	05/20/23 20:40	1
13C-1,2,3,7,8-PeCDF	75		24 - 185	04/25/23 10:56	05/20/23 20:40	1
13C-2,3,4,7,8-PeCDF	58		21 - 178	04/25/23 10:56	05/20/23 20:40	1
13C-1,2,3,4,7,8-HxCDD	57		32 - 141	04/25/23 10:56	05/20/23 20:40	1
13C-1,2,3,6,7,8-HxCDD	53		28 - 130	04/25/23 10:56	05/20/23 20:40	1
13C-1,2,3,4,7,8-HxCDF	75		26 - 152	04/25/23 10:56	05/20/23 20:40	1
13C-1,2,3,6,7,8-HxCDF	96		26 - 123	04/25/23 10:56	05/20/23 20:40	1
13C-2,3,4,6,7,8-HxCDF	89		28 - 136	04/25/23 10:56	05/20/23 20:40	1
13C-1,2,3,7,8,9-HxCDF	82		29 - 147	04/25/23 10:56	05/20/23 20:40	1
13C-1,2,3,4,6,7,8-HpCDD	51		23 - 140	04/25/23 10:56	05/20/23 20:40	1
13C-1,2,3,4,6,7,8-HpCDF	42		28 - 143	04/25/23 10:56	05/20/23 20:40	1
13C-1,2,3,4,7,8,9-HpCDF	22	*5-	26 - 138	04/25/23 10:56	05/20/23 20:40	1
13C-OCDD	36		17 - 157	04/25/23 10:56	05/20/23 20:40	1
13C-OCDF	36		17 - 157	04/25/23 10:56	05/20/23 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	84		35 - 197	04/25/23 10:56	05/20/23 20:40	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	ND		0.94	0.40	pg/g		04/25/23 10:56	05/24/23 22:49	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	56		24 - 169	04/25/23 10:56	05/24/23 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	77		35 - 197	04/25/23 10:56	05/24/23 22:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	6.5	H	0.1	0.1	%			04/24/23 13:53	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-G-0-1.5

Lab Sample ID: 320-97305-63

Date Collected: 02/22/23 09:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.34	J q	0.93	0.15	pg/g		04/25/23 10:56	05/20/23 21:27	1
1,2,3,7,8-PeCDD	1.6	J B	4.7	0.20	pg/g		04/25/23 10:56	05/20/23 21:27	1
1,2,3,7,8-PeCDF	0.85	J B	4.7	0.11	pg/g		04/25/23 10:56	05/20/23 21:27	1
2,3,4,7,8-PeCDF	1.2	J B	4.7	0.16	pg/g		04/25/23 10:56	05/20/23 21:27	1
1,2,3,4,7,8-HxCDD	7.9	B	4.7	0.34	pg/g		04/25/23 10:56	05/20/23 21:27	1
1,2,3,6,7,8-HxCDD	23	B	4.7	0.39	pg/g		04/25/23 10:56	05/20/23 21:27	1
1,2,3,7,8,9-HxCDD	5.3	B	4.7	0.35	pg/g		04/25/23 10:56	05/20/23 21:27	1
1,2,3,4,7,8-HxCDF	2.6	J B	4.7	0.42	pg/g		04/25/23 10:56	05/20/23 21:27	1
1,2,3,6,7,8-HxCDF	2.1	J B	4.7	0.32	pg/g		04/25/23 10:56	05/20/23 21:27	1
1,2,3,7,8,9-HxCDF	0.38	J B	4.7	0.34	pg/g		04/25/23 10:56	05/20/23 21:27	1
2,3,4,6,7,8-HxCDF	1.8	J B	4.7	0.32	pg/g		04/25/23 10:56	05/20/23 21:27	1
1,2,3,4,6,7,8-HpCDD	230	B	4.7	1.4	pg/g		04/25/23 10:56	05/20/23 21:27	1
1,2,3,4,6,7,8-HpCDF	49	B	4.7	0.61	pg/g		04/25/23 10:56	05/20/23 21:27	1
1,2,3,4,7,8,9-HpCDF	2.0	J B	4.7	1.2	pg/g		04/25/23 10:56	05/20/23 21:27	1
OCDD	1800	B	9.3	1.2	pg/g		04/25/23 10:56	05/20/23 21:27	1
OCDF	87	B	9.3	0.51	pg/g		04/25/23 10:56	05/20/23 21:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	53		25 - 164	04/25/23 10:56	05/20/23 21:27	1
13C-2,3,7,8-TCDF	65		24 - 169	04/25/23 10:56	05/20/23 21:27	1
13C-1,2,3,7,8-PeCDD	61		25 - 181	04/25/23 10:56	05/20/23 21:27	1
13C-1,2,3,7,8-PeCDF	71		24 - 185	04/25/23 10:56	05/20/23 21:27	1
13C-2,3,4,7,8-PeCDF	56		21 - 178	04/25/23 10:56	05/20/23 21:27	1
13C-1,2,3,4,7,8-HxCDD	56		32 - 141	04/25/23 10:56	05/20/23 21:27	1
13C-1,2,3,6,7,8-HxCDD	48		28 - 130	04/25/23 10:56	05/20/23 21:27	1
13C-1,2,3,4,7,8-HxCDF	74		26 - 152	04/25/23 10:56	05/20/23 21:27	1
13C-1,2,3,6,7,8-HxCDF	91		26 - 123	04/25/23 10:56	05/20/23 21:27	1
13C-2,3,4,6,7,8-HxCDF	85		28 - 136	04/25/23 10:56	05/20/23 21:27	1
13C-1,2,3,7,8,9-HxCDF	78		29 - 147	04/25/23 10:56	05/20/23 21:27	1
13C-1,2,3,4,6,7,8-HpCDD	50		23 - 140	04/25/23 10:56	05/20/23 21:27	1
13C-1,2,3,4,6,7,8-HpCDF	39		28 - 143	04/25/23 10:56	05/20/23 21:27	1
13C-1,2,3,4,7,8,9-HpCDF	22	*5-	26 - 138	04/25/23 10:56	05/20/23 21:27	1
13C-OCDD	36		17 - 157	04/25/23 10:56	05/20/23 21:27	1
13C-OCDF	34		17 - 157	04/25/23 10:56	05/20/23 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	84		35 - 197	04/25/23 10:56	05/20/23 21:27	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	ND		0.93	0.47	pg/g		04/25/23 10:56	05/24/23 23:32	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	55		24 - 169	04/25/23 10:56	05/24/23 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	79		35 - 197	04/25/23 10:56	05/24/23 23:32	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	33.6	H	0.1	0.1	%			04/24/23 13:53	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-H-0-1.5

Lab Sample ID: 320-97305-64

Date Collected: 02/22/23 09:50

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.1		0.95	0.10	pg/g		04/25/23 10:56	05/20/23 22:15	1
1,2,3,7,8-PeCDD	5.4	B	4.8	0.17	pg/g		04/25/23 10:56	05/20/23 22:15	1
1,2,3,7,8-PeCDF	3.3	J B	4.8	0.24	pg/g		04/25/23 10:56	05/20/23 22:15	1
2,3,4,7,8-PeCDF	4.4	J B	4.8	0.33	pg/g		04/25/23 10:56	05/20/23 22:15	1
1,2,3,4,7,8-HxCDD	6.9	B	4.8	0.34	pg/g		04/25/23 10:56	05/20/23 22:15	1
1,2,3,6,7,8-HxCDD	110	B	4.8	0.37	pg/g		04/25/23 10:56	05/20/23 22:15	1
1,2,3,7,8,9-HxCDD	19	B	4.8	0.35	pg/g		04/25/23 10:56	05/20/23 22:15	1
1,2,3,4,7,8-HxCDF	7.3	B	4.8	1.8	pg/g		04/25/23 10:56	05/20/23 22:15	1
1,2,3,6,7,8-HxCDF	7.4	B	4.8	1.5	pg/g		04/25/23 10:56	05/20/23 22:15	1
1,2,3,7,8,9-HxCDF	ND		4.8	1.6	pg/g		04/25/23 10:56	05/20/23 22:15	1
2,3,4,6,7,8-HxCDF	5.1	B q	4.8	1.6	pg/g		04/25/23 10:56	05/20/23 22:15	1
1,2,3,4,6,7,8-HpCDD	610	B G	17	17	pg/g		04/25/23 10:56	05/20/23 22:15	1
1,2,3,4,6,7,8-HpCDF	130	B	4.8	2.1	pg/g		04/25/23 10:56	05/20/23 22:15	1
1,2,3,4,7,8,9-HpCDF	5.2	B	4.8	4.4	pg/g		04/25/23 10:56	05/20/23 22:15	1
OCDD	5400	E B	9.5	6.0	pg/g		04/25/23 10:56	05/20/23 22:15	1
OCDF	150	B	9.5	0.69	pg/g		04/25/23 10:56	05/20/23 22:15	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	54		25 - 164	04/25/23 10:56	05/20/23 22:15	1
13C-2,3,7,8-TCDF	66		24 - 169	04/25/23 10:56	05/20/23 22:15	1
13C-1,2,3,7,8-PeCDD	62		25 - 181	04/25/23 10:56	05/20/23 22:15	1
13C-1,2,3,7,8-PeCDF	72		24 - 185	04/25/23 10:56	05/20/23 22:15	1
13C-2,3,4,7,8-PeCDF	56		21 - 178	04/25/23 10:56	05/20/23 22:15	1
13C-1,2,3,4,7,8-HxCDD	61		32 - 141	04/25/23 10:56	05/20/23 22:15	1
13C-1,2,3,6,7,8-HxCDD	48		28 - 130	04/25/23 10:56	05/20/23 22:15	1
13C-1,2,3,4,7,8-HxCDF	76		26 - 152	04/25/23 10:56	05/20/23 22:15	1
13C-1,2,3,6,7,8-HxCDF	98		26 - 123	04/25/23 10:56	05/20/23 22:15	1
13C-2,3,4,6,7,8-HxCDF	88		28 - 136	04/25/23 10:56	05/20/23 22:15	1
13C-1,2,3,7,8,9-HxCDF	81		29 - 147	04/25/23 10:56	05/20/23 22:15	1
13C-1,2,3,4,6,7,8-HpCDD	49		23 - 140	04/25/23 10:56	05/20/23 22:15	1
13C-1,2,3,4,6,7,8-HpCDF	39		28 - 143	04/25/23 10:56	05/20/23 22:15	1
13C-1,2,3,4,7,8,9-HpCDF	25	*5-	26 - 138	04/25/23 10:56	05/20/23 22:15	1
13C-OCDD	34		17 - 157	04/25/23 10:56	05/20/23 22:15	1
13C-OCDF	33		17 - 157	04/25/23 10:56	05/20/23 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	83		35 - 197	04/25/23 10:56	05/20/23 22:15	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.8		0.95	0.52	pg/g		04/25/23 10:56	05/25/23 00:15	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	54		24 - 169	04/25/23 10:56	05/25/23 00:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	76		35 - 197	04/25/23 10:56	05/25/23 00:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	9.4	H	0.1	0.1	%			04/24/23 13:53	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-I-0-1.5

Lab Sample ID: 320-97305-65

Date Collected: 02/22/23 10:00

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.43	J q	0.92	0.076	pg/g		04/25/23 10:56	05/20/23 23:03	1
1,2,3,7,8-PeCDD	1.8	J B	4.6	0.16	pg/g		04/25/23 10:56	05/20/23 23:03	1
1,2,3,7,8-PeCDF	1.1	J B	4.6	0.12	pg/g		04/25/23 10:56	05/20/23 23:03	1
2,3,4,7,8-PeCDF	1.5	J B	4.6	0.18	pg/g		04/25/23 10:56	05/20/23 23:03	1
1,2,3,4,7,8-HxCDD	1.8	J B	4.6	0.51	pg/g		04/25/23 10:56	05/20/23 23:03	1
1,2,3,6,7,8-HxCDD	36	B	4.6	0.52	pg/g		04/25/23 10:56	05/20/23 23:03	1
1,2,3,7,8,9-HxCDD	8.0	B	4.6	0.50	pg/g		04/25/23 10:56	05/20/23 23:03	1
1,2,3,4,7,8-HxCDF	2.1	J B	4.6	0.36	pg/g		04/25/23 10:56	05/20/23 23:03	1
1,2,3,6,7,8-HxCDF	2.3	J B	4.6	0.27	pg/g		04/25/23 10:56	05/20/23 23:03	1
1,2,3,7,8,9-HxCDF	ND		4.6	0.29	pg/g		04/25/23 10:56	05/20/23 23:03	1
2,3,4,6,7,8-HxCDF	2.1	J B	4.6	0.29	pg/g		04/25/23 10:56	05/20/23 23:03	1
1,2,3,4,6,7,8-HpCDD	290	B G	4.9	4.9	pg/g		04/25/23 10:56	05/20/23 23:03	1
1,2,3,4,6,7,8-HpCDF	31	B	4.6	0.56	pg/g		04/25/23 10:56	05/20/23 23:03	1
1,2,3,4,7,8,9-HpCDF	ND		4.6	1.0	pg/g		04/25/23 10:56	05/20/23 23:03	1
OCDD	2500	B	9.2	1.6	pg/g		04/25/23 10:56	05/20/23 23:03	1
OCDF	30	B	9.2	0.80	pg/g		04/25/23 10:56	05/20/23 23:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	50		25 - 164	04/25/23 10:56	05/20/23 23:03	1
13C-2,3,7,8-TCDF	58		24 - 169	04/25/23 10:56	05/20/23 23:03	1
13C-1,2,3,7,8-PeCDD	55		25 - 181	04/25/23 10:56	05/20/23 23:03	1
13C-1,2,3,7,8-PeCDF	64		24 - 185	04/25/23 10:56	05/20/23 23:03	1
13C-2,3,4,7,8-PeCDF	49		21 - 178	04/25/23 10:56	05/20/23 23:03	1
13C-1,2,3,4,7,8-HxCDD	48		32 - 141	04/25/23 10:56	05/20/23 23:03	1
13C-1,2,3,6,7,8-HxCDD	46		28 - 130	04/25/23 10:56	05/20/23 23:03	1
13C-1,2,3,4,7,8-HxCDF	67		26 - 152	04/25/23 10:56	05/20/23 23:03	1
13C-1,2,3,6,7,8-HxCDF	84		26 - 123	04/25/23 10:56	05/20/23 23:03	1
13C-2,3,4,6,7,8-HxCDF	74		28 - 136	04/25/23 10:56	05/20/23 23:03	1
13C-1,2,3,7,8,9-HxCDF	69		29 - 147	04/25/23 10:56	05/20/23 23:03	1
13C-1,2,3,4,6,7,8-HpCDD	40		23 - 140	04/25/23 10:56	05/20/23 23:03	1
13C-1,2,3,4,6,7,8-HpCDF	33		28 - 143	04/25/23 10:56	05/20/23 23:03	1
13C-1,2,3,4,7,8,9-HpCDF	19	*5-	26 - 138	04/25/23 10:56	05/20/23 23:03	1
13C-OCDD	25		17 - 157	04/25/23 10:56	05/20/23 23:03	1
13C-OCDF	25		17 - 157	04/25/23 10:56	05/20/23 23:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	74		35 - 197	04/25/23 10:56	05/20/23 23:03	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	ND		0.92	0.63	pg/g		04/25/23 10:56	05/26/23 15:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	39		24 - 169	04/25/23 10:56	05/26/23 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	55		35 - 197	04/25/23 10:56	05/26/23 15:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	6.1	H	0.1	0.1	%			04/24/23 15:14	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-J-0-1.5

Lab Sample ID: 320-97305-66

Date Collected: 02/22/23 10:10

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.19	J q	0.93	0.11	pg/g		04/25/23 10:56	05/24/23 00:59	1
2,3,7,8-TCDF	0.53	J q	0.93	0.10	pg/g		04/25/23 10:56	05/24/23 00:59	1
1,2,3,7,8-PeCDD	0.59	J q B	4.7	0.33	pg/g		04/25/23 10:56	05/24/23 00:59	1
1,2,3,7,8-PeCDF	ND		4.7	0.21	pg/g		04/25/23 10:56	05/24/23 00:59	1
2,3,4,7,8-PeCDF	ND		4.7	0.35	pg/g		04/25/23 10:56	05/24/23 00:59	1
1,2,3,4,7,8-HxCDD	2.3	J B	4.7	0.76	pg/g		04/25/23 10:56	05/24/23 00:59	1
1,2,3,6,7,8-HxCDD	5.5	B	4.7	0.67	pg/g		04/25/23 10:56	05/24/23 00:59	1
1,2,3,7,8,9-HxCDD	2.7	J B	4.7	0.70	pg/g		04/25/23 10:56	05/24/23 00:59	1
1,2,3,4,7,8-HxCDF	ND		4.7	1.5	pg/g		04/25/23 10:56	05/24/23 00:59	1
1,2,3,6,7,8-HxCDF	ND		4.7	1.1	pg/g		04/25/23 10:56	05/24/23 00:59	1
1,2,3,7,8,9-HxCDF	ND		4.7	1.6	pg/g		04/25/23 10:56	05/24/23 00:59	1
2,3,4,6,7,8-HxCDF	ND		4.7	1.4	pg/g		04/25/23 10:56	05/24/23 00:59	1
1,2,3,4,6,7,8-HpCDD	100	B	4.7	2.4	pg/g		04/25/23 10:56	05/24/23 00:59	1
1,2,3,4,6,7,8-HpCDF	32	B	4.7	0.96	pg/g		04/25/23 10:56	05/24/23 00:59	1
1,2,3,4,7,8,9-HpCDF	1.9	J B	4.7	0.76	pg/g		04/25/23 10:56	05/24/23 00:59	1
OCDD	840	B	9.3	3.4	pg/g		04/25/23 10:56	05/24/23 00:59	1
OCDF	66	B	9.3	2.5	pg/g		04/25/23 10:56	05/24/23 00:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	55		25 - 164	04/25/23 10:56	05/24/23 00:59	1
13C-2,3,7,8-TCDF	64		24 - 169	04/25/23 10:56	05/24/23 00:59	1
13C-1,2,3,7,8-PeCDD	57		25 - 181	04/25/23 10:56	05/24/23 00:59	1
13C-1,2,3,7,8-PeCDF	64		24 - 185	04/25/23 10:56	05/24/23 00:59	1
13C-2,3,4,7,8-PeCDF	49		21 - 178	04/25/23 10:56	05/24/23 00:59	1
13C-1,2,3,4,7,8-HxCDD	52		32 - 141	04/25/23 10:56	05/24/23 00:59	1
13C-1,2,3,6,7,8-HxCDD	70		28 - 130	04/25/23 10:56	05/24/23 00:59	1
13C-1,2,3,4,7,8-HxCDF	80		26 - 152	04/25/23 10:56	05/24/23 00:59	1
13C-1,2,3,6,7,8-HxCDF	117		26 - 123	04/25/23 10:56	05/24/23 00:59	1
13C-2,3,4,6,7,8-HxCDF	95		28 - 136	04/25/23 10:56	05/24/23 00:59	1
13C-1,2,3,7,8,9-HxCDF	82		29 - 147	04/25/23 10:56	05/24/23 00:59	1
13C-1,2,3,4,6,7,8-HpCDD	33		23 - 140	04/25/23 10:56	05/24/23 00:59	1
13C-1,2,3,4,6,7,8-HpCDF	31		28 - 143	04/25/23 10:56	05/24/23 00:59	1
13C-1,2,3,4,7,8,9-HpCDF	25 *5-		26 - 138	04/25/23 10:56	05/24/23 00:59	1
13C-OCDD	15 *5-		17 - 157	04/25/23 10:56	05/24/23 00:59	1
13C-OCDF	17		17 - 157	04/25/23 10:56	05/24/23 00:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	77		35 - 197	04/25/23 10:56	05/24/23 00:59	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	7.0	H	0.1	0.1	%			04/24/23 15:14	1

Client Sample ID: DU-6-SW-A-0-1.5

Lab Sample ID: 320-97305-123

Date Collected: 02/22/23 13:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.96	0.47	pg/g		04/25/23 11:08	05/21/23 04:45	1
1,2,3,7,8-PeCDD	1.5	J	4.8	0.48	pg/g		04/25/23 11:08	05/21/23 04:45	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-A-0-1.5

Lab Sample ID: 320-97305-123

Date Collected: 02/22/23 13:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDF	0.51	J	4.8	0.26	pg/g		04/25/23 11:08	05/21/23 04:45	1
2,3,4,7,8-PeCDF	0.85	J	4.8	0.38	pg/g		04/25/23 11:08	05/21/23 04:45	1
1,2,3,4,7,8-HxCDD	3.1	J q B	4.8	0.51	pg/g		04/25/23 11:08	05/21/23 04:45	1
1,2,3,6,7,8-HxCDD	14	B	4.8	0.46	pg/g		04/25/23 11:08	05/21/23 04:45	1
1,2,3,7,8,9-HxCDD	6.6	B	4.8	0.47	pg/g		04/25/23 11:08	05/21/23 04:45	1
1,2,3,4,7,8-HxCDF	1.5	J q B	4.8	0.66	pg/g		04/25/23 11:08	05/21/23 04:45	1
1,2,3,6,7,8-HxCDF	1.6	J B	4.8	0.52	pg/g		04/25/23 11:08	05/21/23 04:45	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.39	pg/g		04/25/23 11:08	05/21/23 04:45	1
2,3,4,6,7,8-HxCDF	1.3	J	4.8	0.39	pg/g		04/25/23 11:08	05/21/23 04:45	1
1,2,3,4,6,7,8-HpCDD	140	B	4.8	1.6	pg/g		04/25/23 11:08	05/21/23 04:45	1
1,2,3,4,6,7,8-HpCDF	26	B	4.8	0.60	pg/g		04/25/23 11:08	05/21/23 04:45	1
1,2,3,4,7,8,9-HpCDF	2.4	J B	4.8	0.72	pg/g		04/25/23 11:08	05/21/23 04:45	1
OCDD	940	B	9.6	3.8	pg/g		04/25/23 11:08	05/21/23 04:45	1
OCDF	57	B	9.6	0.45	pg/g		04/25/23 11:08	05/21/23 04:45	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	72		25 - 164				04/25/23 11:08	05/21/23 04:45	1
13C-2,3,7,8-TCDF	79		24 - 169				04/25/23 11:08	05/21/23 04:45	1
13C-1,2,3,7,8-PeCDD	87		25 - 181				04/25/23 11:08	05/21/23 04:45	1
13C-1,2,3,7,8-PeCDF	100		24 - 185				04/25/23 11:08	05/21/23 04:45	1
13C-2,3,4,7,8-PeCDF	75		21 - 178				04/25/23 11:08	05/21/23 04:45	1
13C-1,2,3,4,7,8-HxCDD	60		32 - 141				04/25/23 11:08	05/21/23 04:45	1
13C-1,2,3,6,7,8-HxCDD	61		28 - 130				04/25/23 11:08	05/21/23 04:45	1
13C-1,2,3,4,7,8-HxCDF	67		26 - 152				04/25/23 11:08	05/21/23 04:45	1
13C-1,2,3,6,7,8-HxCDF	80		26 - 123				04/25/23 11:08	05/21/23 04:45	1
13C-2,3,4,6,7,8-HxCDF	95		28 - 136				04/25/23 11:08	05/21/23 04:45	1
13C-1,2,3,7,8,9-HxCDF	94		29 - 147				04/25/23 11:08	05/21/23 04:45	1
13C-1,2,3,4,6,7,8-HpCDD	83		23 - 140				04/25/23 11:08	05/21/23 04:45	1
13C-1,2,3,4,6,7,8-HpCDF	71		28 - 143				04/25/23 11:08	05/21/23 04:45	1
13C-1,2,3,4,7,8,9-HpCDF	67		26 - 138				04/25/23 11:08	05/21/23 04:45	1
13C-OCDD	77		17 - 157				04/25/23 11:08	05/21/23 04:45	1
13C-OCDF	79		17 - 157				04/25/23 11:08	05/21/23 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	100		35 - 197				04/25/23 11:08	05/21/23 04:45	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	ND		0.96	0.11	pg/g		04/25/23 11:08	05/22/23 14:01	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	69		24 - 169				04/25/23 11:08	05/22/23 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	85		35 - 197				04/25/23 11:08	05/22/23 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	18.5	H	0.1	0.1	%			04/24/23 15:14	1

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-B-0-1.5

Lab Sample ID: 320-97305-124

Date Collected: 02/22/23 13:50

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.22	J q	0.93	0.074	pg/g		04/25/23 11:08	05/21/23 05:32	1
1,2,3,7,8-PeCDD	0.45	J	4.6	0.16	pg/g		04/25/23 11:08	05/21/23 05:32	1
1,2,3,7,8-PeCDF	0.41	J	4.6	0.051	pg/g		04/25/23 11:08	05/21/23 05:32	1
2,3,4,7,8-PeCDF	0.48	J	4.6	0.073	pg/g		04/25/23 11:08	05/21/23 05:32	1
1,2,3,4,7,8-HxCDD	1.9	J B	4.6	1.5	pg/g		04/25/23 11:08	05/21/23 05:32	1
1,2,3,6,7,8-HxCDD	10	B	4.6	1.7	pg/g		04/25/23 11:08	05/21/23 05:32	1
1,2,3,7,8,9-HxCDD	3.3	J B	4.6	1.5	pg/g		04/25/23 11:08	05/21/23 05:32	1
1,2,3,4,7,8-HxCDF	1.2	J B	4.6	0.30	pg/g		04/25/23 11:08	05/21/23 05:32	1
1,2,3,6,7,8-HxCDF	0.52	J B	4.6	0.24	pg/g		04/25/23 11:08	05/21/23 05:32	1
1,2,3,7,8,9-HxCDF	ND		4.6	0.26	pg/g		04/25/23 11:08	05/21/23 05:32	1
2,3,4,6,7,8-HxCDF	ND		4.6	0.26	pg/g		04/25/23 11:08	05/21/23 05:32	1
1,2,3,4,6,7,8-HpCDD	400	G B	19	19	pg/g		04/25/23 11:08	05/21/23 05:32	1
1,2,3,4,6,7,8-HpCDF	43	B	4.6	1.3	pg/g		04/25/23 11:08	05/21/23 05:32	1
1,2,3,4,7,8,9-HpCDF	ND		4.6	1.9	pg/g		04/25/23 11:08	05/21/23 05:32	1
OCDD	2800	B	9.3	0.99	pg/g		04/25/23 11:08	05/21/23 05:32	1
OCDF	330	B	9.3	0.25	pg/g		04/25/23 11:08	05/21/23 05:32	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	65		25 - 164	04/25/23 11:08	05/21/23 05:32	1
13C-2,3,7,8-TCDF	76		24 - 169	04/25/23 11:08	05/21/23 05:32	1
13C-1,2,3,7,8-PeCDD	75		25 - 181	04/25/23 11:08	05/21/23 05:32	1
13C-1,2,3,7,8-PeCDF	86		24 - 185	04/25/23 11:08	05/21/23 05:32	1
13C-2,3,4,7,8-PeCDF	64		21 - 178	04/25/23 11:08	05/21/23 05:32	1
13C-1,2,3,4,7,8-HxCDD	73		32 - 141	04/25/23 11:08	05/21/23 05:32	1
13C-1,2,3,6,7,8-HxCDD	59		28 - 130	04/25/23 11:08	05/21/23 05:32	1
13C-1,2,3,4,7,8-HxCDF	94		26 - 152	04/25/23 11:08	05/21/23 05:32	1
13C-1,2,3,6,7,8-HxCDF	112		26 - 123	04/25/23 11:08	05/21/23 05:32	1
13C-2,3,4,6,7,8-HxCDF	101		28 - 136	04/25/23 11:08	05/21/23 05:32	1
13C-1,2,3,7,8,9-HxCDF	95		29 - 147	04/25/23 11:08	05/21/23 05:32	1
13C-1,2,3,4,6,7,8-HpCDD	66		23 - 140	04/25/23 11:08	05/21/23 05:32	1
13C-1,2,3,4,6,7,8-HpCDF	49		28 - 143	04/25/23 11:08	05/21/23 05:32	1
13C-1,2,3,4,7,8,9-HpCDF	38		26 - 138	04/25/23 11:08	05/21/23 05:32	1
13C-OCDD	47		17 - 157	04/25/23 11:08	05/21/23 05:32	1
13C-OCDF	49		17 - 157	04/25/23 11:08	05/21/23 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	88		35 - 197	04/25/23 11:08	05/21/23 05:32	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	ND		0.93	0.14	pg/g		04/25/23 11:08	05/22/23 14:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	69		24 - 169	04/25/23 11:08	05/22/23 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	81		35 - 197	04/25/23 11:08	05/22/23 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	8.2	H	0.1	0.1	%			04/24/23 15:14	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-C-0-1.5

Lab Sample ID: 320-97305-125

Date Collected: 02/22/23 14:00

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.18	J q	0.95	0.071	pg/g		04/25/23 11:08	05/21/23 06:20	1
1,2,3,7,8-PeCDD	0.34	J q	4.7	0.11	pg/g		04/25/23 11:08	05/21/23 06:20	1
1,2,3,7,8-PeCDF	0.32	J	4.7	0.032	pg/g		04/25/23 11:08	05/21/23 06:20	1
2,3,4,7,8-PeCDF	0.39	J	4.7	0.046	pg/g		04/25/23 11:08	05/21/23 06:20	1
1,2,3,4,7,8-HxCDD	0.86	J q B	4.7	0.38	pg/g		04/25/23 11:08	05/21/23 06:20	1
1,2,3,6,7,8-HxCDD	3.3	J B	4.7	0.38	pg/g		04/25/23 11:08	05/21/23 06:20	1
1,2,3,7,8,9-HxCDD	1.5	J B	4.7	0.37	pg/g		04/25/23 11:08	05/21/23 06:20	1
1,2,3,4,7,8-HxCDF	0.60	J q B	4.7	0.14	pg/g		04/25/23 11:08	05/21/23 06:20	1
1,2,3,6,7,8-HxCDF	0.35	J q B	4.7	0.10	pg/g		04/25/23 11:08	05/21/23 06:20	1
1,2,3,7,8,9-HxCDF	ND		4.7	0.091	pg/g		04/25/23 11:08	05/21/23 06:20	1
2,3,4,6,7,8-HxCDF	0.20	J q	4.7	0.092	pg/g		04/25/23 11:08	05/21/23 06:20	1
1,2,3,4,6,7,8-HpCDD	94	B	4.7	2.0	pg/g		04/25/23 11:08	05/21/23 06:20	1
1,2,3,4,6,7,8-HpCDF	15	B	4.7	0.20	pg/g		04/25/23 11:08	05/21/23 06:20	1
1,2,3,4,7,8,9-HpCDF	0.77	J B	4.7	0.25	pg/g		04/25/23 11:08	05/21/23 06:20	1
OCDD	890	B	9.5	0.59	pg/g		04/25/23 11:08	05/21/23 06:20	1
OCDF	86	B	9.5	0.30	pg/g		04/25/23 11:08	05/21/23 06:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	69		25 - 164	04/25/23 11:08	05/21/23 06:20	1
13C-2,3,7,8-TCDF	81		24 - 169	04/25/23 11:08	05/21/23 06:20	1
13C-1,2,3,7,8-PeCDD	77		25 - 181	04/25/23 11:08	05/21/23 06:20	1
13C-1,2,3,7,8-PeCDF	94		24 - 185	04/25/23 11:08	05/21/23 06:20	1
13C-2,3,4,7,8-PeCDF	71		21 - 178	04/25/23 11:08	05/21/23 06:20	1
13C-1,2,3,4,7,8-HxCDD	67		32 - 141	04/25/23 11:08	05/21/23 06:20	1
13C-1,2,3,6,7,8-HxCDD	61		28 - 130	04/25/23 11:08	05/21/23 06:20	1
13C-1,2,3,4,7,8-HxCDF	82		26 - 152	04/25/23 11:08	05/21/23 06:20	1
13C-1,2,3,6,7,8-HxCDF	98		26 - 123	04/25/23 11:08	05/21/23 06:20	1
13C-2,3,4,6,7,8-HxCDF	106		28 - 136	04/25/23 11:08	05/21/23 06:20	1
13C-1,2,3,7,8,9-HxCDF	103		29 - 147	04/25/23 11:08	05/21/23 06:20	1
13C-1,2,3,4,6,7,8-HpCDD	72		23 - 140	04/25/23 11:08	05/21/23 06:20	1
13C-1,2,3,4,6,7,8-HpCDF	59		28 - 143	04/25/23 11:08	05/21/23 06:20	1
13C-1,2,3,4,7,8,9-HpCDF	53		26 - 138	04/25/23 11:08	05/21/23 06:20	1
13C-OCDD	62		17 - 157	04/25/23 11:08	05/21/23 06:20	1
13C-OCDF	67		17 - 157	04/25/23 11:08	05/21/23 06:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	96		35 - 197	04/25/23 11:08	05/21/23 06:20	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.49	J q	0.95	0.20	pg/g		04/25/23 11:08	05/22/23 15:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	75		24 - 169	04/25/23 11:08	05/22/23 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	91		35 - 197	04/25/23 11:08	05/22/23 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	5.7	H	0.1	0.1	%			04/24/23 15:14	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-D-0-1.5

Lab Sample ID: 320-97305-126

Date Collected: 02/22/23 14:10

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.26	J q	0.92	0.078	pg/g		04/25/23 11:08	05/21/23 07:08	1
1,2,3,7,8-PeCDD	0.33	J	4.6	0.11	pg/g		04/25/23 11:08	05/21/23 07:08	1
1,2,3,7,8-PeCDF	0.30	J	4.6	0.076	pg/g		04/25/23 11:08	05/21/23 07:08	1
2,3,4,7,8-PeCDF	0.35	J	4.6	0.11	pg/g		04/25/23 11:08	05/21/23 07:08	1
1,2,3,4,7,8-HxCDD	0.74	J B	4.6	0.31	pg/g		04/25/23 11:08	05/21/23 07:08	1
1,2,3,6,7,8-HxCDD	3.1	J B	4.6	0.33	pg/g		04/25/23 11:08	05/21/23 07:08	1
1,2,3,7,8,9-HxCDD	0.95	J B	4.6	0.32	pg/g		04/25/23 11:08	05/21/23 07:08	1
1,2,3,4,7,8-HxCDF	0.52	J q B	4.6	0.25	pg/g		04/25/23 11:08	05/21/23 07:08	1
1,2,3,6,7,8-HxCDF	0.49	J B	4.6	0.19	pg/g		04/25/23 11:08	05/21/23 07:08	1
1,2,3,7,8,9-HxCDF	ND		4.6	0.19	pg/g		04/25/23 11:08	05/21/23 07:08	1
2,3,4,6,7,8-HxCDF	0.31	J	4.6	0.20	pg/g		04/25/23 11:08	05/21/23 07:08	1
1,2,3,4,6,7,8-HpCDD	59	B	4.6	2.1	pg/g		04/25/23 11:08	05/21/23 07:08	1
1,2,3,4,6,7,8-HpCDF	12	B	4.6	0.30	pg/g		04/25/23 11:08	05/21/23 07:08	1
1,2,3,4,7,8,9-HpCDF	ND		4.6	0.59	pg/g		04/25/23 11:08	05/21/23 07:08	1
OCDD	1200	B	9.2	0.87	pg/g		04/25/23 11:08	05/21/23 07:08	1
OCDF	35	B	9.2	0.34	pg/g		04/25/23 11:08	05/21/23 07:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	60		25 - 164	04/25/23 11:08	05/21/23 07:08	1
13C-2,3,7,8-TCDF	72		24 - 169	04/25/23 11:08	05/21/23 07:08	1
13C-1,2,3,7,8-PeCDD	64		25 - 181	04/25/23 11:08	05/21/23 07:08	1
13C-1,2,3,7,8-PeCDF	75		24 - 185	04/25/23 11:08	05/21/23 07:08	1
13C-2,3,4,7,8-PeCDF	58		21 - 178	04/25/23 11:08	05/21/23 07:08	1
13C-1,2,3,4,7,8-HxCDD	60		32 - 141	04/25/23 11:08	05/21/23 07:08	1
13C-1,2,3,6,7,8-HxCDD	59		28 - 130	04/25/23 11:08	05/21/23 07:08	1
13C-1,2,3,4,7,8-HxCDF	83		26 - 152	04/25/23 11:08	05/21/23 07:08	1
13C-1,2,3,6,7,8-HxCDF	105		26 - 123	04/25/23 11:08	05/21/23 07:08	1
13C-2,3,4,6,7,8-HxCDF	94		28 - 136	04/25/23 11:08	05/21/23 07:08	1
13C-1,2,3,7,8,9-HxCDF	87		29 - 147	04/25/23 11:08	05/21/23 07:08	1
13C-1,2,3,4,6,7,8-HpCDD	60		23 - 140	04/25/23 11:08	05/21/23 07:08	1
13C-1,2,3,4,6,7,8-HpCDF	49		28 - 143	04/25/23 11:08	05/21/23 07:08	1
13C-1,2,3,4,7,8,9-HpCDF	27		26 - 138	04/25/23 11:08	05/21/23 07:08	1
13C-OCDD	48		17 - 157	04/25/23 11:08	05/21/23 07:08	1
13C-OCDF	49		17 - 157	04/25/23 11:08	05/21/23 07:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	82		35 - 197	04/25/23 11:08	05/21/23 07:08	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.37	J	0.92	0.14	pg/g		04/25/23 11:08	05/22/23 16:11	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	64		24 - 169	04/25/23 11:08	05/22/23 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	76		35 - 197	04/25/23 11:08	05/22/23 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	6.7	H	0.1	0.1	%			04/24/23 15:14	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-E-0-1.5

Lab Sample ID: 320-97305-127

Date Collected: 02/22/23 14:20

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.22	J q	0.98	0.069	pg/g		04/25/23 11:08	05/21/23 07:55	1
1,2,3,7,8-PeCDD	1.3	J	4.9	0.11	pg/g		04/25/23 11:08	05/21/23 07:55	1
1,2,3,7,8-PeCDF	0.88	J	4.9	0.095	pg/g		04/25/23 11:08	05/21/23 07:55	1
2,3,4,7,8-PeCDF	1.1	J	4.9	0.13	pg/g		04/25/23 11:08	05/21/23 07:55	1
1,2,3,4,7,8-HxCDD	2.1	J B	4.9	0.21	pg/g		04/25/23 11:08	05/21/23 07:55	1
1,2,3,6,7,8-HxCDD	20	B	4.9	0.21	pg/g		04/25/23 11:08	05/21/23 07:55	1
1,2,3,7,8,9-HxCDD	5.4	B	4.9	0.20	pg/g		04/25/23 11:08	05/21/23 07:55	1
1,2,3,4,7,8-HxCDF	2.5	J q B	4.9	0.44	pg/g		04/25/23 11:08	05/21/23 07:55	1
1,2,3,6,7,8-HxCDF	2.8	J B	4.9	0.34	pg/g		04/25/23 11:08	05/21/23 07:55	1
1,2,3,7,8,9-HxCDF	ND		4.9	0.36	pg/g		04/25/23 11:08	05/21/23 07:55	1
2,3,4,6,7,8-HxCDF	1.8	J	4.9	0.37	pg/g		04/25/23 11:08	05/21/23 07:55	1
1,2,3,4,6,7,8-HpCDD	170	B	4.9	4.4	pg/g		04/25/23 11:08	05/21/23 07:55	1
1,2,3,4,6,7,8-HpCDF	59	B	4.9	0.80	pg/g		04/25/23 11:08	05/21/23 07:55	1
1,2,3,4,7,8,9-HpCDF	3.1	J B	4.9	1.7	pg/g		04/25/23 11:08	05/21/23 07:55	1
OCDD	960	B	9.8	0.55	pg/g		04/25/23 11:08	05/21/23 07:55	1
OCDF	81	B	9.8	0.28	pg/g		04/25/23 11:08	05/21/23 07:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	68		25 - 164	04/25/23 11:08	05/21/23 07:55	1
13C-2,3,7,8-TCDF	83		24 - 169	04/25/23 11:08	05/21/23 07:55	1
13C-1,2,3,7,8-PeCDD	76		25 - 181	04/25/23 11:08	05/21/23 07:55	1
13C-1,2,3,7,8-PeCDF	90		24 - 185	04/25/23 11:08	05/21/23 07:55	1
13C-2,3,4,7,8-PeCDF	68		21 - 178	04/25/23 11:08	05/21/23 07:55	1
13C-1,2,3,4,7,8-HxCDD	68		32 - 141	04/25/23 11:08	05/21/23 07:55	1
13C-1,2,3,6,7,8-HxCDD	65		28 - 130	04/25/23 11:08	05/21/23 07:55	1
13C-1,2,3,4,7,8-HxCDF	93		26 - 152	04/25/23 11:08	05/21/23 07:55	1
13C-1,2,3,6,7,8-HxCDF	120		26 - 123	04/25/23 11:08	05/21/23 07:55	1
13C-2,3,4,6,7,8-HxCDF	106		28 - 136	04/25/23 11:08	05/21/23 07:55	1
13C-1,2,3,7,8,9-HxCDF	100		29 - 147	04/25/23 11:08	05/21/23 07:55	1
13C-1,2,3,4,6,7,8-HpCDD	62		23 - 140	04/25/23 11:08	05/21/23 07:55	1
13C-1,2,3,4,6,7,8-HpCDF	51		28 - 143	04/25/23 11:08	05/21/23 07:55	1
13C-1,2,3,4,7,8,9-HpCDF	32		26 - 138	04/25/23 11:08	05/21/23 07:55	1
13C-OCDD	43		17 - 157	04/25/23 11:08	05/21/23 07:55	1
13C-OCDF	46		17 - 157	04/25/23 11:08	05/21/23 07:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	93		35 - 197	04/25/23 11:08	05/21/23 07:55	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.87	J	0.98	0.15	pg/g		04/25/23 11:08	05/22/23 16:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	76		24 - 169	04/25/23 11:08	05/22/23 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	88		35 - 197	04/25/23 11:08	05/22/23 16:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	5.2	H	0.1	0.1	%			04/24/23 15:14	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-F-0-1.5

Lab Sample ID: 320-97305-128

Date Collected: 02/22/23 14:30

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	3.3		1.5	0.12	pg/g		04/25/23 11:08	05/21/23 08:43	1
1,2,3,7,8-PeCDD	21	q	7.7	0.62	pg/g		04/25/23 11:08	05/21/23 08:43	1
1,2,3,7,8-PeCDF	7.1	J	7.7	0.49	pg/g		04/25/23 11:08	05/21/23 08:43	1
2,3,4,7,8-PeCDF	13		7.7	0.69	pg/g		04/25/23 11:08	05/21/23 08:43	1
1,2,3,4,7,8-HxCDD	51	B	7.7	2.1	pg/g		04/25/23 11:08	05/21/23 08:43	1
1,2,3,6,7,8-HxCDD	280	B	7.7	2.3	pg/g		04/25/23 11:08	05/21/23 08:43	1
1,2,3,7,8,9-HxCDD	68	B	7.7	2.1	pg/g		04/25/23 11:08	05/21/23 08:43	1
1,2,3,4,7,8-HxCDF	22	B	7.7	2.9	pg/g		04/25/23 11:08	05/21/23 08:43	1
1,2,3,6,7,8-HxCDF	23	B	7.7	2.2	pg/g		04/25/23 11:08	05/21/23 08:43	1
1,2,3,7,8,9-HxCDF	ND		7.7	1.9	pg/g		04/25/23 11:08	05/21/23 08:43	1
2,3,4,6,7,8-HxCDF	22		7.7	1.9	pg/g		04/25/23 11:08	05/21/23 08:43	1
1,2,3,4,6,7,8-HpCDD	1800	G B	9.4	9.4	pg/g		04/25/23 11:08	05/21/23 08:43	1
1,2,3,4,6,7,8-HpCDF	530	B	7.7	3.1	pg/g		04/25/23 11:08	05/21/23 08:43	1
1,2,3,4,7,8,9-HpCDF	22	B	7.7	4.0	pg/g		04/25/23 11:08	05/21/23 08:43	1
OCDD	14000	E B	15	6.0	pg/g		04/25/23 11:08	05/21/23 08:43	1
OCDF	910	B	15	0.85	pg/g		04/25/23 11:08	05/21/23 08:43	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	67		25 - 164	04/25/23 11:08	05/21/23 08:43	1
13C-2,3,7,8-TCDF	77		24 - 169	04/25/23 11:08	05/21/23 08:43	1
13C-1,2,3,7,8-PeCDD	77		25 - 181	04/25/23 11:08	05/21/23 08:43	1
13C-1,2,3,7,8-PeCDF	90		24 - 185	04/25/23 11:08	05/21/23 08:43	1
13C-2,3,4,7,8-PeCDF	70		21 - 178	04/25/23 11:08	05/21/23 08:43	1
13C-1,2,3,4,7,8-HxCDD	65		32 - 141	04/25/23 11:08	05/21/23 08:43	1
13C-1,2,3,6,7,8-HxCDD	59		28 - 130	04/25/23 11:08	05/21/23 08:43	1
13C-1,2,3,4,7,8-HxCDF	81		26 - 152	04/25/23 11:08	05/21/23 08:43	1
13C-1,2,3,6,7,8-HxCDF	97		26 - 123	04/25/23 11:08	05/21/23 08:43	1
13C-2,3,4,6,7,8-HxCDF	103		28 - 136	04/25/23 11:08	05/21/23 08:43	1
13C-1,2,3,7,8,9-HxCDF	98		29 - 147	04/25/23 11:08	05/21/23 08:43	1
13C-1,2,3,4,6,7,8-HpCDD	68		23 - 140	04/25/23 11:08	05/21/23 08:43	1
13C-1,2,3,4,6,7,8-HpCDF	56		28 - 143	04/25/23 11:08	05/21/23 08:43	1
13C-1,2,3,4,7,8,9-HpCDF	49		26 - 138	04/25/23 11:08	05/21/23 08:43	1
13C-OCDD	57		17 - 157	04/25/23 11:08	05/21/23 08:43	1
13C-OCDF	60		17 - 157	04/25/23 11:08	05/21/23 08:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	93		35 - 197	04/25/23 11:08	05/21/23 08:43	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	7.7		1.5	0.23	pg/g		04/25/23 11:08	05/22/23 17:37	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	72		24 - 169	04/25/23 11:08	05/22/23 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	83		35 - 197	04/25/23 11:08	05/22/23 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	8.0	H	0.1	0.1	%			04/24/23 15:14	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-G-0-1.5

Lab Sample ID: 320-97305-129

Date Collected: 02/22/23 14:40

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.24	J q	0.92	0.083	pg/g		04/25/23 11:08	05/21/23 09:30	1
1,2,3,7,8-PeCDD	0.60	J q	4.6	0.14	pg/g		04/25/23 11:08	05/21/23 09:30	1
1,2,3,7,8-PeCDF	0.54	J	4.6	0.076	pg/g		04/25/23 11:08	05/21/23 09:30	1
2,3,4,7,8-PeCDF	0.67	J	4.6	0.11	pg/g		04/25/23 11:08	05/21/23 09:30	1
1,2,3,4,7,8-HxCDD	0.94	J B	4.6	0.31	pg/g		04/25/23 11:08	05/21/23 09:30	1
1,2,3,6,7,8-HxCDD	9.4	B	4.6	0.33	pg/g		04/25/23 11:08	05/21/23 09:30	1
1,2,3,7,8,9-HxCDD	3.0	J B	4.6	0.31	pg/g		04/25/23 11:08	05/21/23 09:30	1
1,2,3,4,7,8-HxCDF	0.73	J B	4.6	0.19	pg/g		04/25/23 11:08	05/21/23 09:30	1
1,2,3,6,7,8-HxCDF	0.68	J q B	4.6	0.15	pg/g		04/25/23 11:08	05/21/23 09:30	1
1,2,3,7,8,9-HxCDF	ND		4.6	0.15	pg/g		04/25/23 11:08	05/21/23 09:30	1
2,3,4,6,7,8-HxCDF	0.39	J q	4.6	0.15	pg/g		04/25/23 11:08	05/21/23 09:30	1
1,2,3,4,6,7,8-HpCDD	69	B	4.6	1.8	pg/g		04/25/23 11:08	05/21/23 09:30	1
1,2,3,4,6,7,8-HpCDF	12	B	4.6	0.24	pg/g		04/25/23 11:08	05/21/23 09:30	1
1,2,3,4,7,8,9-HpCDF	ND		4.6	0.51	pg/g		04/25/23 11:08	05/21/23 09:30	1
OCDD	450	B	9.2	0.54	pg/g		04/25/23 11:08	05/21/23 09:30	1
OCDF	29	B	9.2	0.43	pg/g		04/25/23 11:08	05/21/23 09:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	71		25 - 164	04/25/23 11:08	05/21/23 09:30	1
13C-2,3,7,8-TCDF	84		24 - 169	04/25/23 11:08	05/21/23 09:30	1
13C-1,2,3,7,8-PeCDD	78		25 - 181	04/25/23 11:08	05/21/23 09:30	1
13C-1,2,3,7,8-PeCDF	93		24 - 185	04/25/23 11:08	05/21/23 09:30	1
13C-2,3,4,7,8-PeCDF	71		21 - 178	04/25/23 11:08	05/21/23 09:30	1
13C-1,2,3,4,7,8-HxCDD	71		32 - 141	04/25/23 11:08	05/21/23 09:30	1
13C-1,2,3,6,7,8-HxCDD	66		28 - 130	04/25/23 11:08	05/21/23 09:30	1
13C-1,2,3,4,7,8-HxCDF	96		26 - 152	04/25/23 11:08	05/21/23 09:30	1
13C-1,2,3,6,7,8-HxCDF	117		26 - 123	04/25/23 11:08	05/21/23 09:30	1
13C-2,3,4,6,7,8-HxCDF	111		28 - 136	04/25/23 11:08	05/21/23 09:30	1
13C-1,2,3,7,8,9-HxCDF	102		29 - 147	04/25/23 11:08	05/21/23 09:30	1
13C-1,2,3,4,6,7,8-HpCDD	65		23 - 140	04/25/23 11:08	05/21/23 09:30	1
13C-1,2,3,4,6,7,8-HpCDF	53		28 - 143	04/25/23 11:08	05/21/23 09:30	1
13C-1,2,3,4,7,8,9-HpCDF	28		26 - 138	04/25/23 11:08	05/21/23 09:30	1
13C-OCDD	48		17 - 157	04/25/23 11:08	05/21/23 09:30	1
13C-OCDF	47		17 - 157	04/25/23 11:08	05/21/23 09:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	96		35 - 197	04/25/23 11:08	05/21/23 09:30	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.99		0.92	0.13	pg/g		04/25/23 11:08	05/22/23 18:20	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	78		24 - 169	04/25/23 11:08	05/22/23 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	88		35 - 197	04/25/23 11:08	05/22/23 18:20	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	4.9	H	0.1	0.1	%			04/24/23 15:14	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-H-0-1.5

Lab Sample ID: 320-97305-130

Date Collected: 02/22/23 14:50

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.31	J q	0.98	0.081	pg/g		04/25/23 11:08	05/21/23 10:18	1
1,2,3,7,8-PeCDD	0.48	J q	4.9	0.15	pg/g		04/25/23 11:08	05/21/23 10:18	1
1,2,3,7,8-PeCDF	0.35	J	4.9	0.091	pg/g		04/25/23 11:08	05/21/23 10:18	1
2,3,4,7,8-PeCDF	0.40	J	4.9	0.13	pg/g		04/25/23 11:08	05/21/23 10:18	1
1,2,3,4,7,8-HxCDD	0.99	J q B	4.9	0.39	pg/g		04/25/23 11:08	05/21/23 10:18	1
1,2,3,6,7,8-HxCDD	3.4	J B	4.9	0.39	pg/g		04/25/23 11:08	05/21/23 10:18	1
1,2,3,7,8,9-HxCDD	1.5	J B	4.9	0.38	pg/g		04/25/23 11:08	05/21/23 10:18	1
1,2,3,4,7,8-HxCDF	0.66	J q B	4.9	0.35	pg/g		04/25/23 11:08	05/21/23 10:18	1
1,2,3,6,7,8-HxCDF	0.87	J B	4.9	0.28	pg/g		04/25/23 11:08	05/21/23 10:18	1
1,2,3,7,8,9-HxCDF	ND		4.9	0.31	pg/g		04/25/23 11:08	05/21/23 10:18	1
2,3,4,6,7,8-HxCDF	0.37	J q	4.9	0.29	pg/g		04/25/23 11:08	05/21/23 10:18	1
1,2,3,4,6,7,8-HpCDD	32	B	4.9	1.8	pg/g		04/25/23 11:08	05/21/23 10:18	1
1,2,3,4,6,7,8-HpCDF	9.1	B	4.9	0.33	pg/g		04/25/23 11:08	05/21/23 10:18	1
1,2,3,4,7,8,9-HpCDF	0.65	J B	4.9	0.41	pg/g		04/25/23 11:08	05/21/23 10:18	1
OCDD	290	B	9.8	0.45	pg/g		04/25/23 11:08	05/21/23 10:18	1
OCDF	16	B	9.8	0.49	pg/g		04/25/23 11:08	05/21/23 10:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	68		25 - 164	04/25/23 11:08	05/21/23 10:18	1
13C-2,3,7,8-TCDF	83		24 - 169	04/25/23 11:08	05/21/23 10:18	1
13C-1,2,3,7,8-PeCDD	72		25 - 181	04/25/23 11:08	05/21/23 10:18	1
13C-1,2,3,7,8-PeCDF	84		24 - 185	04/25/23 11:08	05/21/23 10:18	1
13C-2,3,4,7,8-PeCDF	62		21 - 178	04/25/23 11:08	05/21/23 10:18	1
13C-1,2,3,4,7,8-HxCDD	75		32 - 141	04/25/23 11:08	05/21/23 10:18	1
13C-1,2,3,6,7,8-HxCDD	67		28 - 130	04/25/23 11:08	05/21/23 10:18	1
13C-1,2,3,4,7,8-HxCDF	107		26 - 152	04/25/23 11:08	05/21/23 10:18	1
13C-1,2,3,6,7,8-HxCDF	122		26 - 123	04/25/23 11:08	05/21/23 10:18	1
13C-2,3,4,6,7,8-HxCDF	112		28 - 136	04/25/23 11:08	05/21/23 10:18	1
13C-1,2,3,7,8,9-HxCDF	101		29 - 147	04/25/23 11:08	05/21/23 10:18	1
13C-1,2,3,4,6,7,8-HpCDD	67		23 - 140	04/25/23 11:08	05/21/23 10:18	1
13C-1,2,3,4,6,7,8-HpCDF	53		28 - 143	04/25/23 11:08	05/21/23 10:18	1
13C-1,2,3,4,7,8,9-HpCDF	45		26 - 138	04/25/23 11:08	05/21/23 10:18	1
13C-OCDD	51		17 - 157	04/25/23 11:08	05/21/23 10:18	1
13C-OCDF	53		17 - 157	04/25/23 11:08	05/21/23 10:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	91		35 - 197	04/25/23 11:08	05/21/23 10:18	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.58	J	0.98	0.17	pg/g		04/25/23 11:08	05/22/23 19:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	77		24 - 169	04/25/23 11:08	05/22/23 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	83		35 - 197	04/25/23 11:08	05/22/23 19:03	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	5.0	H	0.1	0.1	%			04/24/23 15:14	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-I-0-1.5

Lab Sample ID: 320-97305-131

Date Collected: 02/22/23 15:00

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.26	J q	0.98	0.087	pg/g		04/25/23 11:08	05/21/23 11:05	1
1,2,3,7,8-PeCDD	1.1	J	4.9	0.14	pg/g		04/25/23 11:08	05/21/23 11:05	1
1,2,3,7,8-PeCDF	0.59	J	4.9	0.093	pg/g		04/25/23 11:08	05/21/23 11:05	1
2,3,4,7,8-PeCDF	0.73	J	4.9	0.13	pg/g		04/25/23 11:08	05/21/23 11:05	1
1,2,3,4,7,8-HxCDD	1.3	J q B	4.9	0.92	pg/g		04/25/23 11:08	05/21/23 11:05	1
1,2,3,6,7,8-HxCDD	16	B	4.9	1.0	pg/g		04/25/23 11:08	05/21/23 11:05	1
1,2,3,7,8,9-HxCDD	5.5	B	4.9	0.95	pg/g		04/25/23 11:08	05/21/23 11:05	1
1,2,3,4,7,8-HxCDF	1.1	J B	4.9	0.26	pg/g		04/25/23 11:08	05/21/23 11:05	1
1,2,3,6,7,8-HxCDF	1.2	J B	4.9	0.20	pg/g		04/25/23 11:08	05/21/23 11:05	1
1,2,3,7,8,9-HxCDF	ND		4.9	0.19	pg/g		04/25/23 11:08	05/21/23 11:05	1
2,3,4,6,7,8-HxCDF	0.72	J	4.9	0.19	pg/g		04/25/23 11:08	05/21/23 11:05	1
1,2,3,4,6,7,8-HpCDD	150	B	4.9	3.5	pg/g		04/25/23 11:08	05/21/23 11:05	1
1,2,3,4,6,7,8-HpCDF	21	B	4.9	0.30	pg/g		04/25/23 11:08	05/21/23 11:05	1
1,2,3,4,7,8,9-HpCDF	0.92	J B	4.9	0.63	pg/g		04/25/23 11:08	05/21/23 11:05	1
OCDD	990	B	9.8	0.77	pg/g		04/25/23 11:08	05/21/23 11:05	1
OCDF	69	B	9.8	0.39	pg/g		04/25/23 11:08	05/21/23 11:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	64		25 - 164	04/25/23 11:08	05/21/23 11:05	1
13C-2,3,7,8-TCDF	77		24 - 169	04/25/23 11:08	05/21/23 11:05	1
13C-1,2,3,7,8-PeCDD	71		25 - 181	04/25/23 11:08	05/21/23 11:05	1
13C-1,2,3,7,8-PeCDF	86		24 - 185	04/25/23 11:08	05/21/23 11:05	1
13C-2,3,4,7,8-PeCDF	67		21 - 178	04/25/23 11:08	05/21/23 11:05	1
13C-1,2,3,4,7,8-HxCDD	65		32 - 141	04/25/23 11:08	05/21/23 11:05	1
13C-1,2,3,6,7,8-HxCDD	61		28 - 130	04/25/23 11:08	05/21/23 11:05	1
13C-1,2,3,4,7,8-HxCDF	87		26 - 152	04/25/23 11:08	05/21/23 11:05	1
13C-1,2,3,6,7,8-HxCDF	106		26 - 123	04/25/23 11:08	05/21/23 11:05	1
13C-2,3,4,6,7,8-HxCDF	105		28 - 136	04/25/23 11:08	05/21/23 11:05	1
13C-1,2,3,7,8,9-HxCDF	95		29 - 147	04/25/23 11:08	05/21/23 11:05	1
13C-1,2,3,4,6,7,8-HpCDD	60		23 - 140	04/25/23 11:08	05/21/23 11:05	1
13C-1,2,3,4,6,7,8-HpCDF	50		28 - 143	04/25/23 11:08	05/21/23 11:05	1
13C-1,2,3,4,7,8,9-HpCDF	28		26 - 138	04/25/23 11:08	05/21/23 11:05	1
13C-OCDD	48		17 - 157	04/25/23 11:08	05/21/23 11:05	1
13C-OCDF	50		17 - 157	04/25/23 11:08	05/21/23 11:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	91		35 - 197	04/25/23 11:08	05/21/23 11:05	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.96	J	0.98	0.20	pg/g		04/25/23 11:08	05/23/23 13:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	52		24 - 169	04/25/23 11:08	05/23/23 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	69		35 - 197	04/25/23 11:08	05/23/23 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	8.3	H	0.1	0.1	%			04/24/23 15:14	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-J-0-1.5

Lab Sample ID: 320-97305-132

Date Collected: 02/22/23 15:10

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.44	J q	0.99	0.081	pg/g		04/25/23 11:08	05/21/23 17:35	1
1,2,3,7,8-PeCDD	1.5	J q	4.9	0.20	pg/g		04/25/23 11:08	05/21/23 17:35	1
1,2,3,7,8-PeCDF	0.59	J	4.9	0.12	pg/g		04/25/23 11:08	05/21/23 17:35	1
2,3,4,7,8-PeCDF	0.89	J	4.9	0.17	pg/g		04/25/23 11:08	05/21/23 17:35	1
1,2,3,4,7,8-HxCDD	4.5	J q B	4.9	0.95	pg/g		04/25/23 11:08	05/21/23 17:35	1
1,2,3,6,7,8-HxCDD	19	B	4.9	0.87	pg/g		04/25/23 11:08	05/21/23 17:35	1
1,2,3,7,8,9-HxCDD	6.3	B	4.9	0.89	pg/g		04/25/23 11:08	05/21/23 17:35	1
1,2,3,4,7,8-HxCDF	2.0	J B	4.9	0.75	pg/g		04/25/23 11:08	05/21/23 17:35	1
1,2,3,6,7,8-HxCDF	2.0	J B	4.9	0.58	pg/g		04/25/23 11:08	05/21/23 17:35	1
1,2,3,7,8,9-HxCDF	ND		4.9	0.76	pg/g		04/25/23 11:08	05/21/23 17:35	1
2,3,4,6,7,8-HxCDF	1.7	J	4.9	0.73	pg/g		04/25/23 11:08	05/21/23 17:35	1
1,2,3,4,6,7,8-HpCDD	150	B	4.9	3.5	pg/g		04/25/23 11:08	05/21/23 17:35	1
1,2,3,4,6,7,8-HpCDF	44	B	4.9	0.88	pg/g		04/25/23 11:08	05/21/23 17:35	1
1,2,3,4,7,8,9-HpCDF	1.9	J B	4.9	0.66	pg/g		04/25/23 11:08	05/21/23 17:35	1
OCDD	890	B	9.9	1.3	pg/g		04/25/23 11:08	05/21/23 17:35	1
OCDF	79	B	9.9	0.63	pg/g		04/25/23 11:08	05/21/23 17:35	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	66		25 - 164	04/25/23 11:08	05/21/23 17:35	1
13C-2,3,7,8-TCDF	76		24 - 169	04/25/23 11:08	05/21/23 17:35	1
13C-1,2,3,7,8-PeCDD	70		25 - 181	04/25/23 11:08	05/21/23 17:35	1
13C-1,2,3,7,8-PeCDF	85		24 - 185	04/25/23 11:08	05/21/23 17:35	1
13C-2,3,4,7,8-PeCDF	64		21 - 178	04/25/23 11:08	05/21/23 17:35	1
13C-1,2,3,4,7,8-HxCDD	53		32 - 141	04/25/23 11:08	05/21/23 17:35	1
13C-1,2,3,6,7,8-HxCDD	71		28 - 130	04/25/23 11:08	05/21/23 17:35	1
13C-1,2,3,4,7,8-HxCDF	91		26 - 152	04/25/23 11:08	05/21/23 17:35	1
13C-1,2,3,6,7,8-HxCDF	114		26 - 123	04/25/23 11:08	05/21/23 17:35	1
13C-2,3,4,6,7,8-HxCDF	97		28 - 136	04/25/23 11:08	05/21/23 17:35	1
13C-1,2,3,7,8,9-HxCDF	86		29 - 147	04/25/23 11:08	05/21/23 17:35	1
13C-1,2,3,4,6,7,8-HpCDD	50		23 - 140	04/25/23 11:08	05/21/23 17:35	1
13C-1,2,3,4,6,7,8-HpCDF	37		28 - 143	04/25/23 11:08	05/21/23 17:35	1
13C-1,2,3,4,7,8,9-HpCDF	31		26 - 138	04/25/23 11:08	05/21/23 17:35	1
13C-OCDD	29		17 - 157	04/25/23 11:08	05/21/23 17:35	1
13C-OCDF	27		17 - 157	04/25/23 11:08	05/21/23 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	83		35 - 197	04/25/23 11:08	05/21/23 17:35	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.58	J	0.99	0.19	pg/g		04/25/23 11:08	05/22/23 20:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	68		24 - 169	04/25/23 11:08	05/22/23 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	79		35 - 197	04/25/23 11:08	05/22/23 20:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	7.8	H	0.1	0.1	%			04/24/23 15:14	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-A-0-1.5

Lab Sample ID: 320-97305-167

Date Collected: 02/22/23 10:55

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.45	J q	0.97	0.24	pg/g		04/25/23 11:08	05/21/23 18:23	1
1,2,3,7,8-PeCDD	1.5	J	4.8	0.56	pg/g		04/25/23 11:08	05/21/23 18:23	1
1,2,3,7,8-PeCDF	1.4	J	4.8	0.11	pg/g		04/25/23 11:08	05/21/23 18:23	1
2,3,4,7,8-PeCDF	1.9	J	4.8	0.16	pg/g		04/25/23 11:08	05/21/23 18:23	1
1,2,3,4,7,8-HxCDD	5.1	B	4.8	0.60	pg/g		04/25/23 11:08	05/21/23 18:23	1
1,2,3,6,7,8-HxCDD	21	B	4.8	0.60	pg/g		04/25/23 11:08	05/21/23 18:23	1
1,2,3,7,8,9-HxCDD	8.3	B	4.8	0.59	pg/g		04/25/23 11:08	05/21/23 18:23	1
1,2,3,4,7,8-HxCDF	2.7	J B	4.8	0.52	pg/g		04/25/23 11:08	05/21/23 18:23	1
1,2,3,6,7,8-HxCDF	1.8	J B	4.8	0.40	pg/g		04/25/23 11:08	05/21/23 18:23	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.34	pg/g		04/25/23 11:08	05/21/23 18:23	1
2,3,4,6,7,8-HxCDF	1.7	J	4.8	0.33	pg/g		04/25/23 11:08	05/21/23 18:23	1
1,2,3,4,6,7,8-HpCDD	290	B	4.8	4.3	pg/g		04/25/23 11:08	05/21/23 18:23	1
1,2,3,4,6,7,8-HpCDF	78	B	4.8	0.74	pg/g		04/25/23 11:08	05/21/23 18:23	1
1,2,3,4,7,8,9-HpCDF	3.2	J B	4.8	0.91	pg/g		04/25/23 11:08	05/21/23 18:23	1
OCDD	2400	B	9.7	1.6	pg/g		04/25/23 11:08	05/21/23 18:23	1
OCDF	330	B	9.7	0.64	pg/g		04/25/23 11:08	05/21/23 18:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	69		25 - 164	04/25/23 11:08	05/21/23 18:23	1
13C-2,3,7,8-TCDF	75		24 - 169	04/25/23 11:08	05/21/23 18:23	1
13C-1,2,3,7,8-PeCDD	78		25 - 181	04/25/23 11:08	05/21/23 18:23	1
13C-1,2,3,7,8-PeCDF	92		24 - 185	04/25/23 11:08	05/21/23 18:23	1
13C-2,3,4,7,8-PeCDF	72		21 - 178	04/25/23 11:08	05/21/23 18:23	1
13C-1,2,3,4,7,8-HxCDD	70		32 - 141	04/25/23 11:08	05/21/23 18:23	1
13C-1,2,3,6,7,8-HxCDD	65		28 - 130	04/25/23 11:08	05/21/23 18:23	1
13C-1,2,3,4,7,8-HxCDF	78		26 - 152	04/25/23 11:08	05/21/23 18:23	1
13C-1,2,3,6,7,8-HxCDF	96		26 - 123	04/25/23 11:08	05/21/23 18:23	1
13C-2,3,4,6,7,8-HxCDF	103		28 - 136	04/25/23 11:08	05/21/23 18:23	1
13C-1,2,3,7,8,9-HxCDF	101		29 - 147	04/25/23 11:08	05/21/23 18:23	1
13C-1,2,3,4,6,7,8-HpCDD	74		23 - 140	04/25/23 11:08	05/21/23 18:23	1
13C-1,2,3,4,6,7,8-HpCDF	61		28 - 143	04/25/23 11:08	05/21/23 18:23	1
13C-1,2,3,4,7,8,9-HpCDF	61		26 - 138	04/25/23 11:08	05/21/23 18:23	1
13C-OCDD	74		17 - 157	04/25/23 11:08	05/21/23 18:23	1
13C-OCDF	78		17 - 157	04/25/23 11:08	05/21/23 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	94		35 - 197	04/25/23 11:08	05/21/23 18:23	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.0		0.97	0.17	pg/g		04/25/23 11:08	05/22/23 21:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	79		24 - 169	04/25/23 11:08	05/22/23 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	93		35 - 197	04/25/23 11:08	05/22/23 21:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	17.2	H	0.1	0.1	%			04/24/23 15:14	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-B-0-1.5

Lab Sample ID: 320-97305-168

Date Collected: 02/22/23 11:05

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.17	J q	0.95	0.060	pg/g		04/25/23 11:08	05/21/23 19:10	1
2,3,7,8-TCDF	0.88	J	0.95	0.043	pg/g		04/25/23 11:08	05/21/23 19:10	1
1,2,3,7,8-PeCDD	0.26	J	4.8	0.077	pg/g		04/25/23 11:08	05/21/23 19:10	1
1,2,3,7,8-PeCDF	0.25	J	4.8	0.042	pg/g		04/25/23 11:08	05/21/23 19:10	1
2,3,4,7,8-PeCDF	0.25	J	4.8	0.060	pg/g		04/25/23 11:08	05/21/23 19:10	1
1,2,3,4,7,8-HxCDD	0.48	J B	4.8	0.086	pg/g		04/25/23 11:08	05/21/23 19:10	1
1,2,3,6,7,8-HxCDD	0.88	J B	4.8	0.089	pg/g		04/25/23 11:08	05/21/23 19:10	1
1,2,3,7,8,9-HxCDD	0.79	J B	4.8	0.085	pg/g		04/25/23 11:08	05/21/23 19:10	1
1,2,3,4,7,8-HxCDF	0.25	J q B	4.8	0.11	pg/g		04/25/23 11:08	05/21/23 19:10	1
1,2,3,6,7,8-HxCDF	0.18	J B	4.8	0.082	pg/g		04/25/23 11:08	05/21/23 19:10	1
1,2,3,7,8,9-HxCDF	0.080	J q B	4.8	0.067	pg/g		04/25/23 11:08	05/21/23 19:10	1
2,3,4,6,7,8-HxCDF	0.082	J q	4.8	0.069	pg/g		04/25/23 11:08	05/21/23 19:10	1
1,2,3,4,6,7,8-HpCDD	14	B	4.8	0.34	pg/g		04/25/23 11:08	05/21/23 19:10	1
1,2,3,4,6,7,8-HpCDF	2.5	J B	4.8	0.099	pg/g		04/25/23 11:08	05/21/23 19:10	1
1,2,3,4,7,8,9-HpCDF	ND		4.8	0.13	pg/g		04/25/23 11:08	05/21/23 19:10	1
OCDD	110	B	9.5	0.23	pg/g		04/25/23 11:08	05/21/23 19:10	1
OCDF	11	B	9.5	0.23	pg/g		04/25/23 11:08	05/21/23 19:10	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	67		25 - 164	04/25/23 11:08	05/21/23 19:10	1
13C-2,3,7,8-TCDF	73		24 - 169	04/25/23 11:08	05/21/23 19:10	1
13C-1,2,3,7,8-PeCDD	78		25 - 181	04/25/23 11:08	05/21/23 19:10	1
13C-1,2,3,7,8-PeCDF	92		24 - 185	04/25/23 11:08	05/21/23 19:10	1
13C-2,3,4,7,8-PeCDF	70		21 - 178	04/25/23 11:08	05/21/23 19:10	1
13C-1,2,3,4,7,8-HxCDD	64		32 - 141	04/25/23 11:08	05/21/23 19:10	1
13C-1,2,3,6,7,8-HxCDD	60		28 - 130	04/25/23 11:08	05/21/23 19:10	1
13C-1,2,3,4,7,8-HxCDF	71		26 - 152	04/25/23 11:08	05/21/23 19:10	1
13C-1,2,3,6,7,8-HxCDF	87		26 - 123	04/25/23 11:08	05/21/23 19:10	1
13C-2,3,4,6,7,8-HxCDF	95		28 - 136	04/25/23 11:08	05/21/23 19:10	1
13C-1,2,3,7,8,9-HxCDF	96		29 - 147	04/25/23 11:08	05/21/23 19:10	1
13C-1,2,3,4,6,7,8-HpCDD	74		23 - 140	04/25/23 11:08	05/21/23 19:10	1
13C-1,2,3,4,6,7,8-HpCDF	64		28 - 143	04/25/23 11:08	05/21/23 19:10	1
13C-1,2,3,4,7,8,9-HpCDF	55		26 - 138	04/25/23 11:08	05/21/23 19:10	1
13C-OCDD	74		17 - 157	04/25/23 11:08	05/21/23 19:10	1
13C-OCDF	79		17 - 157	04/25/23 11:08	05/21/23 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	94		35 - 197	04/25/23 11:08	05/21/23 19:10	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	8.2	H	0.1	0.1	%			04/24/23 15:14	1

Client Sample ID: DU-6-NW-C-0-1.5

Lab Sample ID: 320-97305-169

Date Collected: 02/22/23 11:15

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.14	J q	0.98	0.083	pg/g		04/25/23 11:08	05/21/23 19:58	1
1,2,3,7,8-PeCDD	0.50	J	4.9	0.14	pg/g		04/25/23 11:08	05/21/23 19:58	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-C-0-1.5

Lab Sample ID: 320-97305-169

Date Collected: 02/22/23 11:15

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDF	0.46	J	4.9	0.049	pg/g		04/25/23 11:08	05/21/23 19:58	1
2,3,4,7,8-PeCDF	0.40	J	4.9	0.071	pg/g		04/25/23 11:08	05/21/23 19:58	1
1,2,3,4,7,8-HxCDD	0.79	J B	4.9	0.19	pg/g		04/25/23 11:08	05/21/23 19:58	1
1,2,3,6,7,8-HxCDD	2.3	J B	4.9	0.20	pg/g		04/25/23 11:08	05/21/23 19:58	1
1,2,3,7,8,9-HxCDD	1.8	J B	4.9	0.19	pg/g		04/25/23 11:08	05/21/23 19:58	1
1,2,3,4,7,8-HxCDF	1.2	J B	4.9	0.16	pg/g		04/25/23 11:08	05/21/23 19:58	1
1,2,3,6,7,8-HxCDF	0.47	J B	4.9	0.12	pg/g		04/25/23 11:08	05/21/23 19:58	1
1,2,3,7,8,9-HxCDF	ND		4.9	0.098	pg/g		04/25/23 11:08	05/21/23 19:58	1
2,3,4,6,7,8-HxCDF	0.21	J q	4.9	0.10	pg/g		04/25/23 11:08	05/21/23 19:58	1
1,2,3,4,6,7,8-HpCDD	22	B	4.9	0.83	pg/g		04/25/23 11:08	05/21/23 19:58	1
1,2,3,4,6,7,8-HpCDF	5.1	B	4.9	0.15	pg/g		04/25/23 11:08	05/21/23 19:58	1
1,2,3,4,7,8,9-HpCDF	ND		4.9	0.32	pg/g		04/25/23 11:08	05/21/23 19:58	1
OCDD	160	B	9.8	0.27	pg/g		04/25/23 11:08	05/21/23 19:58	1
OCDF	15	B	9.8	0.17	pg/g		04/25/23 11:08	05/21/23 19:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	68		25 - 164	04/25/23 11:08	05/21/23 19:58	1
13C-2,3,7,8-TCDF	77		24 - 169	04/25/23 11:08	05/21/23 19:58	1
13C-1,2,3,7,8-PeCDD	74		25 - 181	04/25/23 11:08	05/21/23 19:58	1
13C-1,2,3,7,8-PeCDF	90		24 - 185	04/25/23 11:08	05/21/23 19:58	1
13C-2,3,4,7,8-PeCDF	69		21 - 178	04/25/23 11:08	05/21/23 19:58	1
13C-1,2,3,4,7,8-HxCDD	71		32 - 141	04/25/23 11:08	05/21/23 19:58	1
13C-1,2,3,6,7,8-HxCDD	61		28 - 130	04/25/23 11:08	05/21/23 19:58	1
13C-1,2,3,4,7,8-HxCDF	80		26 - 152	04/25/23 11:08	05/21/23 19:58	1
13C-1,2,3,6,7,8-HxCDF	99		26 - 123	04/25/23 11:08	05/21/23 19:58	1
13C-2,3,4,6,7,8-HxCDF	104		28 - 136	04/25/23 11:08	05/21/23 19:58	1
13C-1,2,3,7,8,9-HxCDF	100		29 - 147	04/25/23 11:08	05/21/23 19:58	1
13C-1,2,3,4,6,7,8-HpCDD	63		23 - 140	04/25/23 11:08	05/21/23 19:58	1
13C-1,2,3,4,6,7,8-HpCDF	56		28 - 143	04/25/23 11:08	05/21/23 19:58	1
13C-1,2,3,4,7,8,9-HpCDF	30		26 - 138	04/25/23 11:08	05/21/23 19:58	1
13C-OCDD	60		17 - 157	04/25/23 11:08	05/21/23 19:58	1
13C-OCDF	64		17 - 157	04/25/23 11:08	05/21/23 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	93		35 - 197	04/25/23 11:08	05/21/23 19:58	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	ND		0.98	0.35	pg/g		04/25/23 11:08	05/23/23 13:15	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	58		24 - 169	04/25/23 11:08	05/23/23 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	76		35 - 197	04/25/23 11:08	05/23/23 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	7.0	H	0.1	0.1	%			04/24/23 15:14	1

Eurofins Sacramento

Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-D-0-1.5

Lab Sample ID: 320-97305-170

Date Collected: 02/22/23 11:25

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	6.1		1.6	0.20	pg/g		04/25/23 11:08	05/21/23 20:46	1
1,2,3,7,8-PeCDD	18	q	8.2	0.41	pg/g		04/25/23 11:08	05/21/23 20:46	1
1,2,3,7,8-PeCDF	5.0	J	8.2	0.56	pg/g		04/25/23 11:08	05/21/23 20:46	1
2,3,4,7,8-PeCDF	9.6		8.2	0.78	pg/g		04/25/23 11:08	05/21/23 20:46	1
1,2,3,4,7,8-HxCDD	42	B	8.2	1.5	pg/g		04/25/23 11:08	05/21/23 20:46	1
1,2,3,6,7,8-HxCDD	190	B	8.2	1.6	pg/g		04/25/23 11:08	05/21/23 20:46	1
1,2,3,7,8,9-HxCDD	57	B	8.2	1.5	pg/g		04/25/23 11:08	05/21/23 20:46	1
1,2,3,4,7,8-HxCDF	19	B	8.2	2.4	pg/g		04/25/23 11:08	05/21/23 20:46	1
1,2,3,6,7,8-HxCDF	20	B	8.2	1.8	pg/g		04/25/23 11:08	05/21/23 20:46	1
1,2,3,7,8,9-HxCDF	ND		8.2	1.5	pg/g		04/25/23 11:08	05/21/23 20:46	1
2,3,4,6,7,8-HxCDF	18		8.2	1.6	pg/g		04/25/23 11:08	05/21/23 20:46	1
1,2,3,4,6,7,8-HpCDD	1500	G B	8.5	8.5	pg/g		04/25/23 11:08	05/21/23 20:46	1
1,2,3,4,6,7,8-HpCDF	520	B	8.2	3.3	pg/g		04/25/23 11:08	05/21/23 20:46	1
1,2,3,4,7,8,9-HpCDF	21	B	8.2	5.2	pg/g		04/25/23 11:08	05/21/23 20:46	1
OCDD	10000	E B	16	4.5	pg/g		04/25/23 11:08	05/21/23 20:46	1
OCDF	1200	B	16	0.90	pg/g		04/25/23 11:08	05/21/23 20:46	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	66		25 - 164	04/25/23 11:08	05/21/23 20:46	1
13C-2,3,7,8-TCDF	71		24 - 169	04/25/23 11:08	05/21/23 20:46	1
13C-1,2,3,7,8-PeCDD	77		25 - 181	04/25/23 11:08	05/21/23 20:46	1
13C-1,2,3,7,8-PeCDF	86		24 - 185	04/25/23 11:08	05/21/23 20:46	1
13C-2,3,4,7,8-PeCDF	67		21 - 178	04/25/23 11:08	05/21/23 20:46	1
13C-1,2,3,4,7,8-HxCDD	63		32 - 141	04/25/23 11:08	05/21/23 20:46	1
13C-1,2,3,6,7,8-HxCDD	60		28 - 130	04/25/23 11:08	05/21/23 20:46	1
13C-1,2,3,4,7,8-HxCDF	67		26 - 152	04/25/23 11:08	05/21/23 20:46	1
13C-1,2,3,6,7,8-HxCDF	81		26 - 123	04/25/23 11:08	05/21/23 20:46	1
13C-2,3,4,6,7,8-HxCDF	88		28 - 136	04/25/23 11:08	05/21/23 20:46	1
13C-1,2,3,7,8,9-HxCDF	89		29 - 147	04/25/23 11:08	05/21/23 20:46	1
13C-1,2,3,4,6,7,8-HpCDD	67		23 - 140	04/25/23 11:08	05/21/23 20:46	1
13C-1,2,3,4,6,7,8-HpCDF	62		28 - 143	04/25/23 11:08	05/21/23 20:46	1
13C-1,2,3,4,7,8,9-HpCDF	43		26 - 138	04/25/23 11:08	05/21/23 20:46	1
13C-OCDD	57		17 - 157	04/25/23 11:08	05/21/23 20:46	1
13C-OCDF	62		17 - 157	04/25/23 11:08	05/21/23 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	88		35 - 197	04/25/23 11:08	05/21/23 20:46	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	5.1		1.6	1.0	pg/g		04/25/23 11:08	05/23/23 14:40	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	52		24 - 169	04/25/23 11:08	05/23/23 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	73		35 - 197	04/25/23 11:08	05/23/23 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	8.6	H	0.1	0.1	%			04/24/23 15:14	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-E-0-1.5

Lab Sample ID: 320-97305-171

Date Collected: 02/22/23 11:35

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.18	J q	0.98	0.078	pg/g		04/25/23 11:08	05/21/23 21:33	1
1,2,3,7,8-PeCDD	0.28	J q	4.9	0.097	pg/g		04/25/23 11:08	05/21/23 21:33	1
1,2,3,7,8-PeCDF	0.52	J	4.9	0.054	pg/g		04/25/23 11:08	05/21/23 21:33	1
2,3,4,7,8-PeCDF	0.55	J	4.9	0.077	pg/g		04/25/23 11:08	05/21/23 21:33	1
1,2,3,4,7,8-HxCDD	0.79	J B	4.9	0.12	pg/g		04/25/23 11:08	05/21/23 21:33	1
1,2,3,6,7,8-HxCDD	1.9	J B	4.9	0.13	pg/g		04/25/23 11:08	05/21/23 21:33	1
1,2,3,7,8,9-HxCDD	1.0	J B	4.9	0.12	pg/g		04/25/23 11:08	05/21/23 21:33	1
1,2,3,4,7,8-HxCDF	1.2	J B	4.9	0.11	pg/g		04/25/23 11:08	05/21/23 21:33	1
1,2,3,6,7,8-HxCDF	0.40	J q B	4.9	0.078	pg/g		04/25/23 11:08	05/21/23 21:33	1
1,2,3,7,8,9-HxCDF	ND		4.9	0.063	pg/g		04/25/23 11:08	05/21/23 21:33	1
2,3,4,6,7,8-HxCDF	0.23	J	4.9	0.070	pg/g		04/25/23 11:08	05/21/23 21:33	1
1,2,3,4,6,7,8-HpCDD	47	B	4.9	1.1	pg/g		04/25/23 11:08	05/21/23 21:33	1
1,2,3,4,6,7,8-HpCDF	8.0	B	4.9	0.14	pg/g		04/25/23 11:08	05/21/23 21:33	1
1,2,3,4,7,8,9-HpCDF	ND		4.9	0.23	pg/g		04/25/23 11:08	05/21/23 21:33	1
OCDD	470	B	9.8	0.40	pg/g		04/25/23 11:08	05/21/23 21:33	1
OCDF	38	B	9.8	0.20	pg/g		04/25/23 11:08	05/21/23 21:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	73		25 - 164	04/25/23 11:08	05/21/23 21:33	1
13C-2,3,7,8-TCDF	78		24 - 169	04/25/23 11:08	05/21/23 21:33	1
13C-1,2,3,7,8-PeCDD	87		25 - 181	04/25/23 11:08	05/21/23 21:33	1
13C-1,2,3,7,8-PeCDF	98		24 - 185	04/25/23 11:08	05/21/23 21:33	1
13C-2,3,4,7,8-PeCDF	75		21 - 178	04/25/23 11:08	05/21/23 21:33	1
13C-1,2,3,4,7,8-HxCDD	71		32 - 141	04/25/23 11:08	05/21/23 21:33	1
13C-1,2,3,6,7,8-HxCDD	66		28 - 130	04/25/23 11:08	05/21/23 21:33	1
13C-1,2,3,4,7,8-HxCDF	77		26 - 152	04/25/23 11:08	05/21/23 21:33	1
13C-1,2,3,6,7,8-HxCDF	93		26 - 123	04/25/23 11:08	05/21/23 21:33	1
13C-2,3,4,6,7,8-HxCDF	101		28 - 136	04/25/23 11:08	05/21/23 21:33	1
13C-1,2,3,7,8,9-HxCDF	102		29 - 147	04/25/23 11:08	05/21/23 21:33	1
13C-1,2,3,4,6,7,8-HpCDD	70		23 - 140	04/25/23 11:08	05/21/23 21:33	1
13C-1,2,3,4,6,7,8-HpCDF	66		28 - 143	04/25/23 11:08	05/21/23 21:33	1
13C-1,2,3,4,7,8,9-HpCDF	40		26 - 138	04/25/23 11:08	05/21/23 21:33	1
13C-OCDD	66		17 - 157	04/25/23 11:08	05/21/23 21:33	1
13C-OCDF	71		17 - 157	04/25/23 11:08	05/21/23 21:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	93		35 - 197	04/25/23 11:08	05/21/23 21:33	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	ND		0.98	0.60	pg/g		04/25/23 11:08	05/23/23 15:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	58		24 - 169	04/25/23 11:08	05/23/23 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	84		35 - 197	04/25/23 11:08	05/23/23 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	7.4	H	0.1	0.1	%			04/24/23 15:14	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-F-0-1.5

Lab Sample ID: 320-97305-172

Date Collected: 02/22/23 11:45

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.1	q	0.99	0.072	pg/g		04/26/23 09:34	05/16/23 21:52	1
1,2,3,7,8-PeCDD	8.4		5.0	0.29	pg/g		04/26/23 09:34	05/16/23 21:52	1
1,2,3,7,8-PeCDF	3.2	J	5.0	0.29	pg/g		04/26/23 09:34	05/16/23 21:52	1
2,3,4,7,8-PeCDF	5.5		5.0	0.44	pg/g		04/26/23 09:34	05/16/23 21:52	1
1,2,3,4,7,8-HxCDD	20		5.0	0.50	pg/g		04/26/23 09:34	05/16/23 21:52	1
1,2,3,6,7,8-HxCDD	110		5.0	0.51	pg/g		04/26/23 09:34	05/16/23 21:52	1
1,2,3,7,8,9-HxCDD	33		5.0	0.49	pg/g		04/26/23 09:34	05/16/23 21:52	1
1,2,3,4,7,8-HxCDF	13		5.0	1.6	pg/g		04/26/23 09:34	05/16/23 21:52	1
1,2,3,6,7,8-HxCDF	11		5.0	1.2	pg/g		04/26/23 09:34	05/16/23 21:52	1
1,2,3,7,8,9-HxCDF	ND		5.0	0.94	pg/g		04/26/23 09:34	05/16/23 21:52	1
2,3,4,6,7,8-HxCDF	11		5.0	1.1	pg/g		04/26/23 09:34	05/16/23 21:52	1
1,2,3,4,6,7,8-HpCDD	760	G B	6.0	6.0	pg/g		04/26/23 09:34	05/16/23 21:52	1
1,2,3,4,6,7,8-HpCDF	340	G B	5.1	5.1	pg/g		04/26/23 09:34	05/16/23 21:52	1
1,2,3,4,7,8,9-HpCDF	ND	G	14	14	pg/g		04/26/23 09:34	05/16/23 21:52	1
OCDD	4300	E B	9.9	5.2	pg/g		04/26/23 09:34	05/16/23 21:52	1
OCDF	690	B	9.9	0.91	pg/g		04/26/23 09:34	05/16/23 21:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	58		25 - 164	04/26/23 09:34	05/16/23 21:52	1
13C-2,3,7,8-TCDF	57		24 - 169	04/26/23 09:34	05/16/23 21:52	1
13C-1,2,3,7,8-PeCDD	77		25 - 181	04/26/23 09:34	05/16/23 21:52	1
13C-1,2,3,7,8-PeCDF	75		24 - 185	04/26/23 09:34	05/16/23 21:52	1
13C-2,3,4,7,8-PeCDF	55		21 - 178	04/26/23 09:34	05/16/23 21:52	1
13C-1,2,3,4,7,8-HxCDD	50		32 - 141	04/26/23 09:34	05/16/23 21:52	1
13C-1,2,3,6,7,8-HxCDD	56		28 - 130	04/26/23 09:34	05/16/23 21:52	1
13C-1,2,3,4,7,8-HxCDF	54		26 - 152	04/26/23 09:34	05/16/23 21:52	1
13C-1,2,3,6,7,8-HxCDF	71		26 - 123	04/26/23 09:34	05/16/23 21:52	1
13C-2,3,4,6,7,8-HxCDF	75		28 - 136	04/26/23 09:34	05/16/23 21:52	1
13C-1,2,3,7,8,9-HxCDF	71		29 - 147	04/26/23 09:34	05/16/23 21:52	1
13C-1,2,3,4,6,7,8-HpCDD	65		23 - 140	04/26/23 09:34	05/16/23 21:52	1
13C-1,2,3,4,6,7,8-HpCDF	48		28 - 143	04/26/23 09:34	05/16/23 21:52	1
13C-1,2,3,4,7,8,9-HpCDF	23	*5-	26 - 138	04/26/23 09:34	05/16/23 21:52	1
13C-OCDD	49		17 - 157	04/26/23 09:34	05/16/23 21:52	1
13C-OCDF	47		17 - 157	04/26/23 09:34	05/16/23 21:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	75		35 - 197	04/26/23 09:34	05/16/23 21:52	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.6		0.99	0.23	pg/g		04/26/23 09:34	05/15/23 13:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	54		24 - 169	04/26/23 09:34	05/15/23 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	78		35 - 197	04/26/23 09:34	05/15/23 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	8.0	H	0.1	0.1	%			04/24/23 15:14	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-G-0-1.5

Lab Sample ID: 320-97305-173

Date Collected: 02/22/23 11:55

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.39	J q	0.95	0.10	pg/g		04/26/23 09:34	05/16/23 22:39	1
1,2,3,7,8-PeCDD	0.35	J q	4.8	0.26	pg/g		04/26/23 09:34	05/16/23 22:39	1
1,2,3,7,8-PeCDF	0.59	J	4.8	0.11	pg/g		04/26/23 09:34	05/16/23 22:39	1
2,3,4,7,8-PeCDF	0.60	J	4.8	0.19	pg/g		04/26/23 09:34	05/16/23 22:39	1
1,2,3,4,7,8-HxCDD	1.1	J	4.8	0.78	pg/g		04/26/23 09:34	05/16/23 22:39	1
1,2,3,6,7,8-HxCDD	3.6	J	4.8	0.73	pg/g		04/26/23 09:34	05/16/23 22:39	1
1,2,3,7,8,9-HxCDD	1.9	J	4.8	0.74	pg/g		04/26/23 09:34	05/16/23 22:39	1
1,2,3,4,7,8-HxCDF	1.2	J	4.8	0.51	pg/g		04/26/23 09:34	05/16/23 22:39	1
1,2,3,6,7,8-HxCDF	ND		4.8	0.40	pg/g		04/26/23 09:34	05/16/23 22:39	1
1,2,3,7,8,9-HxCDF	ND		4.8	0.43	pg/g		04/26/23 09:34	05/16/23 22:39	1
2,3,4,6,7,8-HxCDF	ND		4.8	0.41	pg/g		04/26/23 09:34	05/16/23 22:39	1
1,2,3,4,6,7,8-HpCDD	130	B	4.8	3.5	pg/g		04/26/23 09:34	05/16/23 22:39	1
1,2,3,4,6,7,8-HpCDF	26	B	4.8	0.68	pg/g		04/26/23 09:34	05/16/23 22:39	1
1,2,3,4,7,8,9-HpCDF	1.5	J B	4.8	0.50	pg/g		04/26/23 09:34	05/16/23 22:39	1
OCDD	1500	B	9.5	1.9	pg/g		04/26/23 09:34	05/16/23 22:39	1
OCDF	160	B	9.5	1.0	pg/g		04/26/23 09:34	05/16/23 22:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	61		25 - 164	04/26/23 09:34	05/16/23 22:39	1
13C-2,3,7,8-TCDF	62		24 - 169	04/26/23 09:34	05/16/23 22:39	1
13C-1,2,3,7,8-PeCDD	75		25 - 181	04/26/23 09:34	05/16/23 22:39	1
13C-1,2,3,7,8-PeCDF	74		24 - 185	04/26/23 09:34	05/16/23 22:39	1
13C-2,3,4,7,8-PeCDF	56		21 - 178	04/26/23 09:34	05/16/23 22:39	1
13C-1,2,3,4,7,8-HxCDD	54		32 - 141	04/26/23 09:34	05/16/23 22:39	1
13C-1,2,3,6,7,8-HxCDD	71		28 - 130	04/26/23 09:34	05/16/23 22:39	1
13C-1,2,3,4,7,8-HxCDF	64		26 - 152	04/26/23 09:34	05/16/23 22:39	1
13C-1,2,3,6,7,8-HxCDF	97		26 - 123	04/26/23 09:34	05/16/23 22:39	1
13C-2,3,4,6,7,8-HxCDF	86		28 - 136	04/26/23 09:34	05/16/23 22:39	1
13C-1,2,3,7,8,9-HxCDF	80		29 - 147	04/26/23 09:34	05/16/23 22:39	1
13C-1,2,3,4,6,7,8-HpCDD	51		23 - 140	04/26/23 09:34	05/16/23 22:39	1
13C-1,2,3,4,6,7,8-HpCDF	41		28 - 143	04/26/23 09:34	05/16/23 22:39	1
13C-1,2,3,4,7,8,9-HpCDF	39		26 - 138	04/26/23 09:34	05/16/23 22:39	1
13C-OCDD	26		17 - 157	04/26/23 09:34	05/16/23 22:39	1
13C-OCDF	27		17 - 157	04/26/23 09:34	05/16/23 22:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	80		35 - 197	04/26/23 09:34	05/16/23 22:39	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	1.3		0.95	0.21	pg/g		04/26/23 09:34	05/15/23 14:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	56		24 - 169	04/26/23 09:34	05/15/23 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	80		35 - 197	04/26/23 09:34	05/15/23 14:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	5.3	H	0.1	0.1	%			04/24/23 15:14	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-H-0-1.5

Lab Sample ID: 320-97305-174

Date Collected: 02/22/23 12:05

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.37	J q	0.93	0.13	pg/g		04/26/23 09:34	05/16/23 23:27	1
1,2,3,7,8-PeCDD	1.2	J	4.6	0.30	pg/g		04/26/23 09:34	05/16/23 23:27	1
1,2,3,7,8-PeCDF	0.54	J q	4.6	0.13	pg/g		04/26/23 09:34	05/16/23 23:27	1
2,3,4,7,8-PeCDF	0.73	J	4.6	0.19	pg/g		04/26/23 09:34	05/16/23 23:27	1
1,2,3,4,7,8-HxCDD	2.6	J	4.6	1.1	pg/g		04/26/23 09:34	05/16/23 23:27	1
1,2,3,6,7,8-HxCDD	16		4.6	1.1	pg/g		04/26/23 09:34	05/16/23 23:27	1
1,2,3,7,8,9-HxCDD	6.1		4.6	1.0	pg/g		04/26/23 09:34	05/16/23 23:27	1
1,2,3,4,7,8-HxCDF	1.7	J	4.6	0.68	pg/g		04/26/23 09:34	05/16/23 23:27	1
1,2,3,6,7,8-HxCDF	1.3	J	4.6	0.52	pg/g		04/26/23 09:34	05/16/23 23:27	1
1,2,3,7,8,9-HxCDF	ND		4.6	0.52	pg/g		04/26/23 09:34	05/16/23 23:27	1
2,3,4,6,7,8-HxCDF	0.70	J	4.6	0.53	pg/g		04/26/23 09:34	05/16/23 23:27	1
1,2,3,4,6,7,8-HpCDD	440	B G	11	11	pg/g		04/26/23 09:34	05/16/23 23:27	1
1,2,3,4,6,7,8-HpCDF	59	B	4.6	1.5	pg/g		04/26/23 09:34	05/16/23 23:27	1
1,2,3,4,7,8,9-HpCDF	ND		4.6	2.5	pg/g		04/26/23 09:34	05/16/23 23:27	1
OCDD	3700	E B	9.3	4.1	pg/g		04/26/23 09:34	05/16/23 23:27	1
OCDF	370	B	9.3	1.2	pg/g		04/26/23 09:34	05/16/23 23:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	54		25 - 164	04/26/23 09:34	05/16/23 23:27	1
13C-2,3,7,8-TCDF	53		24 - 169	04/26/23 09:34	05/16/23 23:27	1
13C-1,2,3,7,8-PeCDD	64		25 - 181	04/26/23 09:34	05/16/23 23:27	1
13C-1,2,3,7,8-PeCDF	63		24 - 185	04/26/23 09:34	05/16/23 23:27	1
13C-2,3,4,7,8-PeCDF	46		21 - 178	04/26/23 09:34	05/16/23 23:27	1
13C-1,2,3,4,7,8-HxCDD	50		32 - 141	04/26/23 09:34	05/16/23 23:27	1
13C-1,2,3,6,7,8-HxCDD	55		28 - 130	04/26/23 09:34	05/16/23 23:27	1
13C-1,2,3,4,7,8-HxCDF	55		26 - 152	04/26/23 09:34	05/16/23 23:27	1
13C-1,2,3,6,7,8-HxCDF	76		26 - 123	04/26/23 09:34	05/16/23 23:27	1
13C-2,3,4,6,7,8-HxCDF	72		28 - 136	04/26/23 09:34	05/16/23 23:27	1
13C-1,2,3,7,8,9-HxCDF	67		29 - 147	04/26/23 09:34	05/16/23 23:27	1
13C-1,2,3,4,6,7,8-HpCDD	50		23 - 140	04/26/23 09:34	05/16/23 23:27	1
13C-1,2,3,4,6,7,8-HpCDF	39		28 - 143	04/26/23 09:34	05/16/23 23:27	1
13C-1,2,3,4,7,8,9-HpCDF	25	*5-	26 - 138	04/26/23 09:34	05/16/23 23:27	1
13C-OCDD	38		17 - 157	04/26/23 09:34	05/16/23 23:27	1
13C-OCDF	37		17 - 157	04/26/23 09:34	05/16/23 23:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	75		35 - 197	04/26/23 09:34	05/16/23 23:27	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	0.77	J	0.93	0.16	pg/g		04/26/23 09:34	05/15/23 15:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	52		24 - 169	04/26/23 09:34	05/15/23 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	75		35 - 197	04/26/23 09:34	05/15/23 15:14	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	6.8	H	0.1	0.1	%			04/24/23 15:46	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-I-0-1.5

Lab Sample ID: 320-97305-175

Date Collected: 02/22/23 12:15

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	1.0		0.95	0.24	pg/g		04/26/23 09:34	05/17/23 00:14	1
1,2,3,7,8-PeCDD	3.0	J	4.7	0.32	pg/g		04/26/23 09:34	05/17/23 00:14	1
1,2,3,7,8-PeCDF	1.5	J q	4.7	0.23	pg/g		04/26/23 09:34	05/17/23 00:14	1
2,3,4,7,8-PeCDF	2.2	J	4.7	0.33	pg/g		04/26/23 09:34	05/17/23 00:14	1
1,2,3,4,7,8-HxCDD	7.2		4.7	0.64	pg/g		04/26/23 09:34	05/17/23 00:14	1
1,2,3,6,7,8-HxCDD	59		4.7	0.64	pg/g		04/26/23 09:34	05/17/23 00:14	1
1,2,3,7,8,9-HxCDD	16		4.7	0.62	pg/g		04/26/23 09:34	05/17/23 00:14	1
1,2,3,4,7,8-HxCDF	5.2		4.7	0.67	pg/g		04/26/23 09:34	05/17/23 00:14	1
1,2,3,6,7,8-HxCDF	5.1		4.7	0.52	pg/g		04/26/23 09:34	05/17/23 00:14	1
1,2,3,7,8,9-HxCDF	ND		4.7	0.46	pg/g		04/26/23 09:34	05/17/23 00:14	1
2,3,4,6,7,8-HxCDF	3.6	J	4.7	0.46	pg/g		04/26/23 09:34	05/17/23 00:14	1
1,2,3,4,6,7,8-HpCDD	510	B	4.7	3.1	pg/g		04/26/23 09:34	05/17/23 00:14	1
1,2,3,4,6,7,8-HpCDF	98	B	4.7	1.3	pg/g		04/26/23 09:34	05/17/23 00:14	1
1,2,3,4,7,8,9-HpCDF	5.4	B	4.7	1.7	pg/g		04/26/23 09:34	05/17/23 00:14	1
OCDD	4600	E B	9.5	3.3	pg/g		04/26/23 09:34	05/17/23 00:14	1
OCDF	220	B	9.5	1.3	pg/g		04/26/23 09:34	05/17/23 00:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	72		25 - 164	04/26/23 09:34	05/17/23 00:14	1
13C-2,3,7,8-TCDF	71		24 - 169	04/26/23 09:34	05/17/23 00:14	1
13C-1,2,3,7,8-PeCDD	97		25 - 181	04/26/23 09:34	05/17/23 00:14	1
13C-1,2,3,7,8-PeCDF	92		24 - 185	04/26/23 09:34	05/17/23 00:14	1
13C-2,3,4,7,8-PeCDF	71		21 - 178	04/26/23 09:34	05/17/23 00:14	1
13C-1,2,3,4,7,8-HxCDD	71		32 - 141	04/26/23 09:34	05/17/23 00:14	1
13C-1,2,3,6,7,8-HxCDD	64		28 - 130	04/26/23 09:34	05/17/23 00:14	1
13C-1,2,3,4,7,8-HxCDF	73		26 - 152	04/26/23 09:34	05/17/23 00:14	1
13C-1,2,3,6,7,8-HxCDF	86		26 - 123	04/26/23 09:34	05/17/23 00:14	1
13C-2,3,4,6,7,8-HxCDF	90		28 - 136	04/26/23 09:34	05/17/23 00:14	1
13C-1,2,3,7,8,9-HxCDF	84		29 - 147	04/26/23 09:34	05/17/23 00:14	1
13C-1,2,3,4,6,7,8-HpCDD	86		23 - 140	04/26/23 09:34	05/17/23 00:14	1
13C-1,2,3,4,6,7,8-HpCDF	64		28 - 143	04/26/23 09:34	05/17/23 00:14	1
13C-1,2,3,4,7,8,9-HpCDF	57		26 - 138	04/26/23 09:34	05/17/23 00:14	1
13C-OCDD	77		17 - 157	04/26/23 09:34	05/17/23 00:14	1
13C-OCDF	73		17 - 157	04/26/23 09:34	05/17/23 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	91		35 - 197	04/26/23 09:34	05/17/23 00:14	1

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) - RA

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDF	2.1		0.95	0.73	pg/g		04/26/23 09:34	05/15/23 15:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDF	72		24 - 169	04/26/23 09:34	05/15/23 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	94		35 - 197	04/26/23 09:34	05/15/23 15:57	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	7.6	H	0.1	0.1	%			04/24/23 15:46	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-J-0-1.5

Lab Sample ID: 320-97305-176

Date Collected: 02/22/23 12:25

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	0.20	J q	0.98	0.051	pg/g		04/26/23 09:34	05/17/23 01:02	1
2,3,7,8-TCDF	0.54	J	0.98	0.039	pg/g		04/26/23 09:34	05/17/23 01:02	1
1,2,3,7,8-PeCDD	0.68	J	4.9	0.056	pg/g		04/26/23 09:34	05/17/23 01:02	1
1,2,3,7,8-PeCDF	0.46	J	4.9	0.046	pg/g		04/26/23 09:34	05/17/23 01:02	1
2,3,4,7,8-PeCDF	0.44	J	4.9	0.067	pg/g		04/26/23 09:34	05/17/23 01:02	1
1,2,3,4,7,8-HxCDD	1.3	J	4.9	0.12	pg/g		04/26/23 09:34	05/17/23 01:02	1
1,2,3,6,7,8-HxCDD	8.1		4.9	0.12	pg/g		04/26/23 09:34	05/17/23 01:02	1
1,2,3,7,8,9-HxCDD	2.4	J	4.9	0.12	pg/g		04/26/23 09:34	05/17/23 01:02	1
1,2,3,4,7,8-HxCDF	1.2	J	4.9	0.15	pg/g		04/26/23 09:34	05/17/23 01:02	1
1,2,3,6,7,8-HxCDF	0.90	J	4.9	0.11	pg/g		04/26/23 09:34	05/17/23 01:02	1
1,2,3,7,8,9-HxCDF	0.12	J B q	4.9	0.096	pg/g		04/26/23 09:34	05/17/23 01:02	1
2,3,4,6,7,8-HxCDF	0.48	J	4.9	0.095	pg/g		04/26/23 09:34	05/17/23 01:02	1
1,2,3,4,6,7,8-HpCDD	61	B	4.9	0.32	pg/g		04/26/23 09:34	05/17/23 01:02	1
1,2,3,4,6,7,8-HpCDF	12	B	4.9	0.16	pg/g		04/26/23 09:34	05/17/23 01:02	1
1,2,3,4,7,8,9-HpCDF	0.71	J B	4.9	0.19	pg/g		04/26/23 09:34	05/17/23 01:02	1
OCDD	430	B	9.8	0.45	pg/g		04/26/23 09:34	05/17/23 01:02	1
OCDF	18	B	9.8	0.31	pg/g		04/26/23 09:34	05/17/23 01:02	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	64		25 - 164	04/26/23 09:34	05/17/23 01:02	1
13C-2,3,7,8-TCDF	66		24 - 169	04/26/23 09:34	05/17/23 01:02	1
13C-1,2,3,7,8-PeCDD	86		25 - 181	04/26/23 09:34	05/17/23 01:02	1
13C-1,2,3,7,8-PeCDF	84		24 - 185	04/26/23 09:34	05/17/23 01:02	1
13C-2,3,4,7,8-PeCDF	65		21 - 178	04/26/23 09:34	05/17/23 01:02	1
13C-1,2,3,4,7,8-HxCDD	64		32 - 141	04/26/23 09:34	05/17/23 01:02	1
13C-1,2,3,6,7,8-HxCDD	61		28 - 130	04/26/23 09:34	05/17/23 01:02	1
13C-1,2,3,4,7,8-HxCDF	66		26 - 152	04/26/23 09:34	05/17/23 01:02	1
13C-1,2,3,6,7,8-HxCDF	79		26 - 123	04/26/23 09:34	05/17/23 01:02	1
13C-2,3,4,6,7,8-HxCDF	85		28 - 136	04/26/23 09:34	05/17/23 01:02	1
13C-1,2,3,7,8,9-HxCDF	79		29 - 147	04/26/23 09:34	05/17/23 01:02	1
13C-1,2,3,4,6,7,8-HpCDD	77		23 - 140	04/26/23 09:34	05/17/23 01:02	1
13C-1,2,3,4,6,7,8-HpCDF	57		28 - 143	04/26/23 09:34	05/17/23 01:02	1
13C-1,2,3,4,7,8,9-HpCDF	56		26 - 138	04/26/23 09:34	05/17/23 01:02	1
13C-OCDD	66		17 - 157	04/26/23 09:34	05/17/23 01:02	1
13C-OCDF	62		17 - 157	04/26/23 09:34	05/17/23 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	87		35 - 197	04/26/23 09:34	05/17/23 01:02	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	35.5	H	0.1	0.1	%			04/24/23 15:46	1

Client Sample ID: SB-08-3-6

Lab Sample ID: 320-97305-188

Date Collected: 02/23/23 13:00

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		0.93	0.035	pg/g		04/26/23 09:34	05/17/23 01:50	1
2,3,7,8-TCDF	0.13	J	0.93	0.024	pg/g		04/26/23 09:34	05/17/23 01:50	1

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Client Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: SB-08-3-6

Lab Sample ID: 320-97305-188

Date Collected: 02/23/23 13:00

Matrix: Solid

Date Received: 03/02/23 09:20

Method: EPA 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDD	ND		4.7	0.034	pg/g		04/26/23 09:34	05/17/23 01:50	1
1,2,3,7,8-PeCDF	0.11	J q	4.7	0.024	pg/g		04/26/23 09:34	05/17/23 01:50	1
2,3,4,7,8-PeCDF	0.075	J	4.7	0.036	pg/g		04/26/23 09:34	05/17/23 01:50	1
1,2,3,4,7,8-HxCDD	0.27	J	4.7	0.054	pg/g		04/26/23 09:34	05/17/23 01:50	1
1,2,3,6,7,8-HxCDD	0.43	J q	4.7	0.052	pg/g		04/26/23 09:34	05/17/23 01:50	1
1,2,3,7,8,9-HxCDD	0.17	J	4.7	0.052	pg/g		04/26/23 09:34	05/17/23 01:50	1
1,2,3,4,7,8-HxCDF	0.17	J q	4.7	0.070	pg/g		04/26/23 09:34	05/17/23 01:50	1
1,2,3,6,7,8-HxCDF	0.11	J q	4.7	0.049	pg/g		04/26/23 09:34	05/17/23 01:50	1
1,2,3,7,8,9-HxCDF	0.11	J B	4.7	0.042	pg/g		04/26/23 09:34	05/17/23 01:50	1
2,3,4,6,7,8-HxCDF	0.058	J	4.7	0.041	pg/g		04/26/23 09:34	05/17/23 01:50	1
1,2,3,4,6,7,8-HpCDD	8.4	B	4.7	0.15	pg/g		04/26/23 09:34	05/17/23 01:50	1
1,2,3,4,6,7,8-HpCDF	1.5	J B	4.7	0.073	pg/g		04/26/23 09:34	05/17/23 01:50	1
1,2,3,4,7,8,9-HpCDF	ND		4.7	0.085	pg/g		04/26/23 09:34	05/17/23 01:50	1
OCDD	98	B	9.3	0.20	pg/g		04/26/23 09:34	05/17/23 01:50	1
OCDF	2.6	J B	9.3	0.11	pg/g		04/26/23 09:34	05/17/23 01:50	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	70		25 - 164				04/26/23 09:34	05/17/23 01:50	1
13C-2,3,7,8-TCDF	70		24 - 169				04/26/23 09:34	05/17/23 01:50	1
13C-1,2,3,7,8-PeCDD	94		25 - 181				04/26/23 09:34	05/17/23 01:50	1
13C-1,2,3,7,8-PeCDF	91		24 - 185				04/26/23 09:34	05/17/23 01:50	1
13C-2,3,4,7,8-PeCDF	67		21 - 178				04/26/23 09:34	05/17/23 01:50	1
13C-1,2,3,4,7,8-HxCDD	65		32 - 141				04/26/23 09:34	05/17/23 01:50	1
13C-1,2,3,6,7,8-HxCDD	64		28 - 130				04/26/23 09:34	05/17/23 01:50	1
13C-1,2,3,4,7,8-HxCDF	65		26 - 152				04/26/23 09:34	05/17/23 01:50	1
13C-1,2,3,6,7,8-HxCDF	82		26 - 123				04/26/23 09:34	05/17/23 01:50	1
13C-2,3,4,6,7,8-HxCDF	91		28 - 136				04/26/23 09:34	05/17/23 01:50	1
13C-1,2,3,7,8,9-HxCDF	88		29 - 147				04/26/23 09:34	05/17/23 01:50	1
13C-1,2,3,4,6,7,8-HpCDD	94		23 - 140				04/26/23 09:34	05/17/23 01:50	1
13C-1,2,3,4,6,7,8-HpCDF	67		28 - 143				04/26/23 09:34	05/17/23 01:50	1
13C-1,2,3,4,7,8,9-HpCDF	71		26 - 138				04/26/23 09:34	05/17/23 01:50	1
13C-OCDD	86		17 - 157				04/26/23 09:34	05/17/23 01:50	1
13C-OCDF	80		17 - 157				04/26/23 09:34	05/17/23 01:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
37Cl4-2,3,7,8-TCDD	89		35 - 197				04/26/23 09:34	05/17/23 01:50	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	17.9	H	0.1	0.1	%			04/24/23 13:53	1

Surrogate Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		37TCDD (35-197)	
320-97305-2	DU-5-SE--A-0-1.5	86	
320-97305-2 - RA	DU-5-SE--A-0-1.5	79	
320-97305-3	DU-5-SE-B-0-1.5	89	
320-97305-3 - RA	DU-5-SE-B-0-1.5	73	
320-97305-4	DU-5-SE-C-0-1.5	85	
320-97305-4 - RA	DU-5-SE-C-0-1.5	76	
320-97305-5	DU-5-SE-D-0-1.5	84	
320-97305-5 - RA	DU-5-SE-D-0-1.5	60	
320-97305-6	DU-5-SE-E-0-1.5	84	
320-97305-7	DU-5-SE-F-0-1.5	83	
320-97305-8	DU-5-SE-G-0-1.5	76	
320-97305-9	DU-5-SE-H-0-1.5	82	
320-97305-10	DU-5-SE-I-0-1.5	83	
320-97305-10 - RA	DU-5-SE-I-0-1.5	75	
320-97305-11	DU-5-SE-J-0-1.5	75	
320-97305-11 - RA	DU-5-SE-J-0-1.5	76	
320-97305-57	DU-5-NE-A-0-1.5	81	
320-97305-57 - RA	DU-5-NE-A-0-1.5	74	
320-97305-58	DU-5-NE-B-0-1.5	88	
320-97305-58 - RA	DU-5-NE-B-0-1.5	77	
320-97305-59	DU-5-NE-C-0-1.5	79	
320-97305-59 - RA	DU-5-NE-C-0-1.5	68	
320-97305-60	DU-5-NE-D-0-1.5	83	
320-97305-60 - RA	DU-5-NE-D-0-1.5	71	
320-97305-61	DU-5-NE-E-0-1.5	81	
320-97305-61 - RA	DU-5-NE-E-0-1.5	73	
320-97305-62	DU-5-NE-F-0-1.5	84	
320-97305-62 - RA	DU-5-NE-F-0-1.5	77	
320-97305-63	DU-5-NE-G-0-1.5	84	
320-97305-63 - RA	DU-5-NE-G-0-1.5	79	
320-97305-64	DU-5-NE-H-0-1.5	83	
320-97305-64 - RA	DU-5-NE-H-0-1.5	76	
320-97305-65	DU-5-NE-I-0-1.5	74	
320-97305-65 - RA	DU-5-NE-I-0-1.5	55	
320-97305-66	DU-5-NE-J-0-1.5	77	
320-97305-123	DU-6-SW-A-0-1.5	100	
320-97305-123 - RA	DU-6-SW-A-0-1.5	85	
320-97305-124	DU-6-SW-B-0-1.5	88	
320-97305-124 - RA	DU-6-SW-B-0-1.5	81	
320-97305-125	DU-6-SW-C-0-1.5	96	
320-97305-125 - RA	DU-6-SW-C-0-1.5	91	
320-97305-126	DU-6-SW-D-0-1.5	82	
320-97305-126 - RA	DU-6-SW-D-0-1.5	76	
320-97305-127	DU-6-SW-E-0-1.5	93	
320-97305-127 - RA	DU-6-SW-E-0-1.5	88	
320-97305-128	DU-6-SW-F-0-1.5	93	
320-97305-128 - RA	DU-6-SW-F-0-1.5	83	
320-97305-129	DU-6-SW-G-0-1.5	96	
320-97305-129 - RA	DU-6-SW-G-0-1.5	88	

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Surrogate Summary

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	37TCDD (35-197)
320-97305-130	DU-6-SW-H-0-1.5	91
320-97305-130 - RA	DU-6-SW-H-0-1.5	83
320-97305-131	DU-6-SW-I-0-1.5	91
320-97305-131 - RA	DU-6-SW-I-0-1.5	69
320-97305-132	DU-6-SW-J-0-1.5	83
320-97305-132 - RA	DU-6-SW-J-0-1.5	79
320-97305-167	DU-6-NW-A-0-1.5	94
320-97305-167 - RA	DU-6-NW-A-0-1.5	93
320-97305-168	DU-6-NW-B-0-1.5	94
320-97305-169	DU-6-NW-C-0-1.5	93
320-97305-169 - RA	DU-6-NW-C-0-1.5	76
320-97305-170	DU-6-NW-D-0-1.5	88
320-97305-170 - RA	DU-6-NW-D-0-1.5	73
320-97305-171	DU-6-NW-E-0-1.5	93
320-97305-171 - RA	DU-6-NW-E-0-1.5	84
320-97305-172 - RA	DU-6-NW-F-0-1.5	78
320-97305-172	DU-6-NW-F-0-1.5	75
320-97305-173 - RA	DU-6-NW-G-0-1.5	80
320-97305-173	DU-6-NW-G-0-1.5	80
320-97305-174 - RA	DU-6-NW-H-0-1.5	75
320-97305-174	DU-6-NW-H-0-1.5	75
320-97305-175 - RA	DU-6-NW-I-0-1.5	94
320-97305-175	DU-6-NW-I-0-1.5	91
320-97305-176	DU-6-NW-J-0-1.5	87
320-97305-188	SB-08-3-6	89
MB 320-670006/1-A	Method Blank	78
MB 320-670010/1-A	Method Blank	87
MB 320-670221/1-A	Method Blank	82

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	37TCDD (31-191)
LCS 320-670006/2-A	Lab Control Sample	79
LCS 320-670010/2-A	Lab Control Sample	96
LCS 320-670221/2-A	Lab Control Sample	83
LCSD 320-670006/3-A	Lab Control Sample Dup	79
LCSD 320-670010/3-A	Lab Control Sample Dup	94
LCSD 320-670221/3-A	Lab Control Sample Dup	83

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

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Isotope Dilution Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		TCDD (25-164)	TCDF (24-169)	PeCDD (25-181)	PeCDF (24-185)	PeCF (21-178)	HxCDD (32-141)	HxDD (28-130)	HxCDF (26-152)
320-97305-2	DU-5-SE--A-0-1.5	48	52	61	67	53	48	45	50
320-97305-2 - RA	DU-5-SE--A-0-1.5		46						
320-97305-3	DU-5-SE-B-0-1.5	55	67	64	79	62	60	53	75
320-97305-3 - RA	DU-5-SE-B-0-1.5		56						
320-97305-4	DU-5-SE-C-0-1.5	56	65	67	81	63	57	52	72
320-97305-4 - RA	DU-5-SE-C-0-1.5		56						
320-97305-5	DU-5-SE-D-0-1.5	57	65	66	78	61	59	55	77
320-97305-5 - RA	DU-5-SE-D-0-1.5		55						
320-97305-6	DU-5-SE-E-0-1.5	60	68	71	83	64	56	54	64
320-97305-7	DU-5-SE-F-0-1.5	55	66	62	74	57	60	53	79
320-97305-8	DU-5-SE-G-0-1.5	59	73	66	76	58	57	72	95
320-97305-9	DU-5-SE-H-0-1.5	53	63	61	69	54	58	49	76
320-97305-10	DU-5-SE-I-0-1.5	56	68	62	74	60	59	53	81
320-97305-10 - RA	DU-5-SE-I-0-1.5		60						
320-97305-11	DU-5-SE-J-0-1.5	51	60	60	71	55	50	48	68
320-97305-11 - RA	DU-5-SE-J-0-1.5		52						
320-97305-57	DU-5-NE-A-0-1.5	52	59	58	68	51	53	52	61
320-97305-57 - RA	DU-5-NE-A-0-1.5		49						
320-97305-58	DU-5-NE-B-0-1.5	59	67	74	85	68	59	55	68
320-97305-58 - RA	DU-5-NE-B-0-1.5		55						
320-97305-59	DU-5-NE-C-0-1.5	51	61	59	69	53	56	49	70
320-97305-59 - RA	DU-5-NE-C-0-1.5		49						
320-97305-60	DU-5-NE-D-0-1.5	51	62	58	68	55	55	47	72
320-97305-60 - RA	DU-5-NE-D-0-1.5		52						
320-97305-61	DU-5-NE-E-0-1.5	54	61	64	77	60	56	50	64
320-97305-61 - RA	DU-5-NE-E-0-1.5		53						
320-97305-62	DU-5-NE-F-0-1.5	56	68	62	75	58	57	53	75
320-97305-62 - RA	DU-5-NE-F-0-1.5		56						
320-97305-63	DU-5-NE-G-0-1.5	53	65	61	71	56	56	48	74
320-97305-63 - RA	DU-5-NE-G-0-1.5		55						
320-97305-64	DU-5-NE-H-0-1.5	54	66	62	72	56	61	48	76
320-97305-64 - RA	DU-5-NE-H-0-1.5		54						
320-97305-65	DU-5-NE-I-0-1.5	50	58	55	64	49	48	46	67
320-97305-65 - RA	DU-5-NE-I-0-1.5		39						
320-97305-66	DU-5-NE-J-0-1.5	55	64	57	64	49	52	70	80
320-97305-123	DU-6-SW-A-0-1.5	72	79	87	100	75	60	61	67
320-97305-123 - RA	DU-6-SW-A-0-1.5		69						
320-97305-124	DU-6-SW-B-0-1.5	65	76	75	86	64	73	59	94
320-97305-124 - RA	DU-6-SW-B-0-1.5		69						
320-97305-125	DU-6-SW-C-0-1.5	69	81	77	94	71	67	61	82
320-97305-125 - RA	DU-6-SW-C-0-1.5		75						
320-97305-126	DU-6-SW-D-0-1.5	60	72	64	75	58	60	59	83
320-97305-126 - RA	DU-6-SW-D-0-1.5		64						
320-97305-127	DU-6-SW-E-0-1.5	68	83	76	90	68	68	65	93
320-97305-127 - RA	DU-6-SW-E-0-1.5		76						
320-97305-128	DU-6-SW-F-0-1.5	67	77	77	90	70	65	59	81
320-97305-128 - RA	DU-6-SW-F-0-1.5		72						
320-97305-129	DU-6-SW-G-0-1.5	71	84	78	93	71	71	66	96
320-97305-129 - RA	DU-6-SW-G-0-1.5		78						

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Isotope Dilution Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		TCDD (25-164)	TCDF (24-169)	PeCDD (25-181)	PeCDF (24-185)	PeCF (21-178)	HxCDD (32-141)	HxCDF (28-130)	HxCDF (26-152)
320-97305-130	DU-6-SW-H-0-1.5	68	83	72	84	62	75	67	107
320-97305-130 - RA	DU-6-SW-H-0-1.5		77						
320-97305-131	DU-6-SW-I-0-1.5	64	77	71	86	67	65	61	87
320-97305-131 - RA	DU-6-SW-I-0-1.5		52						
320-97305-132	DU-6-SW-J-0-1.5	66	76	70	85	64	53	71	91
320-97305-132 - RA	DU-6-SW-J-0-1.5		68						
320-97305-167	DU-6-NW-A-0-1.5	69	75	78	92	72	70	65	78
320-97305-167 - RA	DU-6-NW-A-0-1.5		79						
320-97305-168	DU-6-NW-B-0-1.5	67	73	78	92	70	64	60	71
320-97305-169	DU-6-NW-C-0-1.5	68	77	74	90	69	71	61	80
320-97305-169 - RA	DU-6-NW-C-0-1.5		58						
320-97305-170	DU-6-NW-D-0-1.5	66	71	77	86	67	63	60	67
320-97305-170 - RA	DU-6-NW-D-0-1.5		52						
320-97305-171	DU-6-NW-E-0-1.5	73	78	87	98	75	71	66	77
320-97305-171 - RA	DU-6-NW-E-0-1.5		58						
320-97305-172 - RA	DU-6-NW-F-0-1.5		54						
320-97305-172	DU-6-NW-F-0-1.5	58	57	77	75	55	50	56	54
320-97305-173 - RA	DU-6-NW-G-0-1.5		56						
320-97305-173	DU-6-NW-G-0-1.5	61	62	75	74	56	54	71	64
320-97305-174 - RA	DU-6-NW-H-0-1.5		52						
320-97305-174	DU-6-NW-H-0-1.5	54	53	64	63	46	50	55	55
320-97305-175 - RA	DU-6-NW-I-0-1.5		72						
320-97305-175	DU-6-NW-I-0-1.5	72	71	97	92	71	71	64	73
320-97305-176	DU-6-NW-J-0-1.5	64	66	86	84	65	64	61	66
320-97305-188	SB-08-3-6	70	70	94	91	67	65	64	65
MB 320-670006/1-A	Method Blank	50	51	60	66	51	48	52	49
MB 320-670010/1-A	Method Blank	66	71	74	88	65	63	61	65
MB 320-670221/1-A	Method Blank	62	62	72	80	59	67	66	67

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		HxCDF (26-123)	13CHxCF (28-136)	HxCDF (29-147)	HpCDD (23-140)	HpCDF (28-143)	HpCDF2 (26-138)	OCDD (17-157)	OCDF (17-157)
320-97305-2	DU-5-SE--A-0-1.5	58	63	64	53	48	37	44	48
320-97305-2 - RA	DU-5-SE--A-0-1.5								
320-97305-3	DU-5-SE-B-0-1.5	93	90	85	47	41	20 *5-	33	35
320-97305-3 - RA	DU-5-SE-B-0-1.5								
320-97305-4	DU-5-SE-C-0-1.5	86	86	79	46	41	22 *5-	34	34
320-97305-4 - RA	DU-5-SE-C-0-1.5								
320-97305-5	DU-5-SE-D-0-1.5	94	91	84	47	40	24 *5-	35	36
320-97305-5 - RA	DU-5-SE-D-0-1.5								
320-97305-6	DU-5-SE-E-0-1.5	79	80	79	73	62	60	71	71
320-97305-7	DU-5-SE-F-0-1.5	101	90	81	48	40	24 *5-	31	32
320-97305-8	DU-5-SE-G-0-1.5	125 *5+	104	90	56	36	33	37	32
320-97305-9	DU-5-SE-H-0-1.5	94	83	74	44	34	24 *5-	32	30
320-97305-10	DU-5-SE-I-0-1.5	94	91	81	50	42	27	40	42
320-97305-10 - RA	DU-5-SE-I-0-1.5								
320-97305-11	DU-5-SE-J-0-1.5	94	82	76	50	42	24 *5-	33	34
320-97305-11 - RA	DU-5-SE-J-0-1.5								
320-97305-57	DU-5-NE-A-0-1.5	88	78	72	47	41	18 *5-	37	40
320-97305-57 - RA	DU-5-NE-A-0-1.5								
320-97305-58	DU-5-NE-B-0-1.5	81	84	83	61	52	40	49	51

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Isotope Dilution Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		HxDF (26-123)	13CHxCF (28-136)	HxCF (29-147)	HpCDD (23-140)	HpCDF (28-143)	HpCDF2 (26-138)	OCDD (17-157)	OCDF (17-157)
320-97305-58 - RA	DU-5-NE-B-0-1.5								
320-97305-59	DU-5-NE-C-0-1.5	94	82	75	47	38	22 *5-	31	29
320-97305-59 - RA	DU-5-NE-C-0-1.5								
320-97305-60	DU-5-NE-D-0-1.5	88	82	74	47	39	26	35	35
320-97305-60 - RA	DU-5-NE-D-0-1.5								
320-97305-61	DU-5-NE-E-0-1.5	77	81	79	59	50	45	49	47
320-97305-61 - RA	DU-5-NE-E-0-1.5								
320-97305-62	DU-5-NE-F-0-1.5	96	89	82	51	42	22 *5-	36	36
320-97305-62 - RA	DU-5-NE-F-0-1.5								
320-97305-63	DU-5-NE-G-0-1.5	91	85	78	50	39	22 *5-	36	34
320-97305-63 - RA	DU-5-NE-G-0-1.5								
320-97305-64	DU-5-NE-H-0-1.5	98	88	81	49	39	25 *5-	34	33
320-97305-64 - RA	DU-5-NE-H-0-1.5								
320-97305-65	DU-5-NE-I-0-1.5	84	74	69	40	33	19 *5-	25	25
320-97305-65 - RA	DU-5-NE-I-0-1.5								
320-97305-66	DU-5-NE-J-0-1.5	117	95	82	33	31	25 *5-	15 *5-	17
320-97305-123	DU-6-SW-A-0-1.5	80	95	94	83	71	67	77	79
320-97305-123 - RA	DU-6-SW-A-0-1.5								
320-97305-124	DU-6-SW-B-0-1.5	112	101	95	66	49	38	47	49
320-97305-124 - RA	DU-6-SW-B-0-1.5								
320-97305-125	DU-6-SW-C-0-1.5	98	106	103	72	59	53	62	67
320-97305-125 - RA	DU-6-SW-C-0-1.5								
320-97305-126	DU-6-SW-D-0-1.5	105	94	87	60	49	27	48	49
320-97305-126 - RA	DU-6-SW-D-0-1.5								
320-97305-127	DU-6-SW-E-0-1.5	120	106	100	62	51	32	43	46
320-97305-127 - RA	DU-6-SW-E-0-1.5								
320-97305-128	DU-6-SW-F-0-1.5	97	103	98	68	56	49	57	60
320-97305-128 - RA	DU-6-SW-F-0-1.5								
320-97305-129	DU-6-SW-G-0-1.5	117	111	102	65	53	28	48	47
320-97305-129 - RA	DU-6-SW-G-0-1.5								
320-97305-130	DU-6-SW-H-0-1.5	122	112	101	67	53	45	51	53
320-97305-130 - RA	DU-6-SW-H-0-1.5								
320-97305-131	DU-6-SW-I-0-1.5	106	105	95	60	50	28	48	50
320-97305-131 - RA	DU-6-SW-I-0-1.5								
320-97305-132	DU-6-SW-J-0-1.5	114	97	86	50	37	31	29	27
320-97305-132 - RA	DU-6-SW-J-0-1.5								
320-97305-167	DU-6-NW-A-0-1.5	96	103	101	74	61	61	74	78
320-97305-167 - RA	DU-6-NW-A-0-1.5								
320-97305-168	DU-6-NW-B-0-1.5	87	95	96	74	64	55	74	79
320-97305-169	DU-6-NW-C-0-1.5	99	104	100	63	56	30	60	64
320-97305-169 - RA	DU-6-NW-C-0-1.5								
320-97305-170	DU-6-NW-D-0-1.5	81	88	89	67	62	43	57	62
320-97305-170 - RA	DU-6-NW-D-0-1.5								
320-97305-171	DU-6-NW-E-0-1.5	93	101	102	70	66	40	66	71
320-97305-171 - RA	DU-6-NW-E-0-1.5								
320-97305-172	DU-6-NW-F-0-1.5								
320-97305-172	DU-6-NW-F-0-1.5	71	75	71	65	48	23 *5-	49	47
320-97305-173 - RA	DU-6-NW-G-0-1.5								
320-97305-173	DU-6-NW-G-0-1.5	97	86	80	51	41	39	26	27
320-97305-174 - RA	DU-6-NW-H-0-1.5								

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Isotope Dilution Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		HxDF (26-123)	13CHxCF (28-136)	HxCF (29-147)	HpCDD (23-140)	HpCDF (28-143)	HpCDF2 (26-138)	OCDD (17-157)	OCDF (17-157)
320-97305-174	DU-6-NW-H-0-1.5	76	72	67	50	39	25 *5-	38	37
320-97305-175 - RA	DU-6-NW-I-0-1.5								
320-97305-175	DU-6-NW-I-0-1.5	86	90	84	86	64	57	77	73
320-97305-176	DU-6-NW-J-0-1.5	79	85	79	77	57	56	66	62
320-97305-188	SB-08-3-6	82	91	88	94	67	71	86	80
MB 320-670006/1-A	Method Blank	64	66	62	69	56	58	64	67
MB 320-670010/1-A	Method Blank	85	91	87	82	69	71	76	82
MB 320-670221/1-A	Method Blank	83	88	80	91	65	71	73	69

Surrogate Legend

- TCDD = 13C-2,3,7,8-TCDD
- TCDF = 13C-2,3,7,8-TCDF
- PeCDD = 13C-1,2,3,7,8-PeCDD
- PeCDF = 13C-1,2,3,7,8-PeCDF
- PeCF = 13C-2,3,4,7,8-PeCDF
- HxCDD = 13C-1,2,3,4,7,8-HxCDD
- HxDD = 13C-1,2,3,6,7,8-HxCDD
- HxCDF = 13C-1,2,3,4,7,8-HxCDF
- HxDF = 13C-1,2,3,6,7,8-HxCDF
- 13CHxCF = 13C-2,3,4,6,7,8-HxCDF
- HxCF = 13C-1,2,3,7,8,9-HxCDF
- HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
- HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
- HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
- OCDD = 13C-OCDD
- OCDF = 13C-OCDF

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		TCDD (20-175)	TCDF (22-152)	PeCDD (21-227)	PeCDF (21-192)	PeCF (13-328)	HxCDD (21-193)	HxDD (25-163)	HxCDF (19-202)
LCS 320-670006/2-A	Lab Control Sample	51	55	61	68	53	49	54	54
LCS 320-670010/2-A	Lab Control Sample	70	76	80	96	70	65	68	71
LCS 320-670221/2-A	Lab Control Sample	62	60	78	77	58	57	61	61
LCSD 320-670006/3-A	Lab Control Sample Dup	45	48	51	57	44	46	47	50
LCSD 320-670010/3-A	Lab Control Sample Dup	67	72	76	89	65	62	64	66
LCSD 320-670221/3-A	Lab Control Sample Dup	61	58	78	74	60	59	59	63

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		HxDF (21-159)	13CHxCF (22-176)	HxCF (17-205)	HpCDD (26-166)	HpCDF (21-158)	HpCDF2 (20-186)	OCDD (13-199)	OCDF (13-199)
LCS 320-670006/2-A	Lab Control Sample	72	73	70	67	53	55	72	74
LCS 320-670010/2-A	Lab Control Sample	89	97	94	93	76	81	89	95
LCS 320-670221/2-A	Lab Control Sample	80	83	77	86	62	65	82	77
LCSD 320-670006/3-A	Lab Control Sample Dup	65	66	63	58	47	48	61	62
LCSD 320-670010/3-A	Lab Control Sample Dup	85	93	90	88	72	77	84	92
LCSD 320-670221/3-A	Lab Control Sample Dup	78	80	76	84	63	65	81	76

Surrogate Legend

- TCDD = 13C-2,3,7,8-TCDD

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Isotope Dilution Summary

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD
OCDF = 13C-OCDF

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-670006/1-A
Matrix: Solid
Analysis Batch: 676099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 670006

Analyte	MB	MB	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	ND		1.0	0.071	pg/g		04/25/23 10:56	05/20/23 03:51	1
2,3,7,8-TCDF	ND		1.0	0.036	pg/g		04/25/23 10:56	05/20/23 03:51	1
1,2,3,7,8-PeCDD	0.0970	J q	5.0	0.041	pg/g		04/25/23 10:56	05/20/23 03:51	1
1,2,3,7,8-PeCDF	0.169	J	5.0	0.031	pg/g		04/25/23 10:56	05/20/23 03:51	1
2,3,4,7,8-PeCDF	0.0760	J q	5.0	0.044	pg/g		04/25/23 10:56	05/20/23 03:51	1
1,2,3,4,7,8-HxCDD	0.229	J q	5.0	0.073	pg/g		04/25/23 10:56	05/20/23 03:51	1
1,2,3,6,7,8-HxCDD	0.150	J q	5.0	0.071	pg/g		04/25/23 10:56	05/20/23 03:51	1
1,2,3,7,8,9-HxCDD	0.210	J	5.0	0.070	pg/g		04/25/23 10:56	05/20/23 03:51	1
1,2,3,4,7,8-HxCDF	0.172	J	5.0	0.067	pg/g		04/25/23 10:56	05/20/23 03:51	1
1,2,3,6,7,8-HxCDF	0.114	J	5.0	0.048	pg/g		04/25/23 10:56	05/20/23 03:51	1
1,2,3,7,8,9-HxCDF	0.155	J q	5.0	0.046	pg/g		04/25/23 10:56	05/20/23 03:51	1
2,3,4,6,7,8-HxCDF	0.0992	J	5.0	0.041	pg/g		04/25/23 10:56	05/20/23 03:51	1
1,2,3,4,6,7,8-HpCDD	0.248	J	5.0	0.030	pg/g		04/25/23 10:56	05/20/23 03:51	1
1,2,3,4,6,7,8-HpCDF	0.274	J	5.0	0.048	pg/g		04/25/23 10:56	05/20/23 03:51	1
1,2,3,4,7,8,9-HpCDF	0.208	J	5.0	0.059	pg/g		04/25/23 10:56	05/20/23 03:51	1
OCDD	1.11	J	10	0.048	pg/g		04/25/23 10:56	05/20/23 03:51	1
OCDF	0.504	J q	10	0.040	pg/g		04/25/23 10:56	05/20/23 03:51	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C-2,3,7,8-TCDD	50		25 - 164	04/25/23 10:56	05/20/23 03:51	1
13C-2,3,7,8-TCDF	51		24 - 169	04/25/23 10:56	05/20/23 03:51	1
13C-1,2,3,7,8-PeCDD	60		25 - 181	04/25/23 10:56	05/20/23 03:51	1
13C-1,2,3,7,8-PeCDF	66		24 - 185	04/25/23 10:56	05/20/23 03:51	1
13C-2,3,4,7,8-PeCDF	51		21 - 178	04/25/23 10:56	05/20/23 03:51	1
13C-1,2,3,4,7,8-HxCDD	48		32 - 141	04/25/23 10:56	05/20/23 03:51	1
13C-1,2,3,6,7,8-HxCDD	52		28 - 130	04/25/23 10:56	05/20/23 03:51	1
13C-1,2,3,4,7,8-HxCDF	49		26 - 152	04/25/23 10:56	05/20/23 03:51	1
13C-1,2,3,6,7,8-HxCDF	64		26 - 123	04/25/23 10:56	05/20/23 03:51	1
13C-2,3,4,6,7,8-HxCDF	66		28 - 136	04/25/23 10:56	05/20/23 03:51	1
13C-1,2,3,7,8,9-HxCDF	62		29 - 147	04/25/23 10:56	05/20/23 03:51	1
13C-1,2,3,4,6,7,8-HpCDD	69		23 - 140	04/25/23 10:56	05/20/23 03:51	1
13C-1,2,3,4,6,7,8-HpCDF	56		28 - 143	04/25/23 10:56	05/20/23 03:51	1
13C-1,2,3,4,7,8,9-HpCDF	58		26 - 138	04/25/23 10:56	05/20/23 03:51	1
13C-OCDD	64		17 - 157	04/25/23 10:56	05/20/23 03:51	1
13C-OCDF	67		17 - 157	04/25/23 10:56	05/20/23 03:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
37Cl4-2,3,7,8-TCDD	78		35 - 197	04/25/23 10:56	05/20/23 03:51	1

Lab Sample ID: LCS 320-670006/2-A
Matrix: Solid
Analysis Batch: 676949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 670006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDF	20.0	22.5		pg/g		112	75 - 158
1,2,3,7,8-PeCDD	100	84.6	B	pg/g		85	70 - 142
1,2,3,7,8-PeCDF	100	80.8	B	pg/g		81	80 - 134

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-670006/2-A
Matrix: Solid
Analysis Batch: 676949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 670006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,4,7,8-PeCDF	100	102	B	pg/g		102	68 - 160
1,2,3,4,7,8-HxCDD	100	105	B	pg/g		105	70 - 164
1,2,3,6,7,8-HxCDD	100	99.4	B	pg/g		99	76 - 134
1,2,3,7,8,9-HxCDD	100	105	B	pg/g		105	64 - 162
1,2,3,4,7,8-HxCDF	100	107	B	pg/g		107	72 - 134
1,2,3,6,7,8-HxCDF	100	87.0	B	pg/g		87	84 - 130
1,2,3,7,8,9-HxCDF	100	84.2	B	pg/g		84	78 - 130
2,3,4,6,7,8-HxCDF	100	86.7	B	pg/g		87	70 - 156
1,2,3,4,6,7,8-HpCDD	100	81.8	B	pg/g		82	70 - 140
1,2,3,4,6,7,8-HpCDF	100	99.9	B	pg/g		100	82 - 122
1,2,3,4,7,8,9-HpCDF	100	105	B	pg/g		105	78 - 138
OCDD	200	192	B	pg/g		96	78 - 144
OCDF	200	214	B	pg/g		107	63 - 170

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-2,3,7,8-TCDD	51		20 - 175
13C-2,3,7,8-TCDF	55		22 - 152
13C-1,2,3,7,8-PeCDD	61		21 - 227
13C-1,2,3,7,8-PeCDF	68		21 - 192
13C-2,3,4,7,8-PeCDF	53		13 - 328
13C-1,2,3,4,7,8-HxCDD	49		21 - 193
13C-1,2,3,6,7,8-HxCDD	54		25 - 163
13C-1,2,3,4,7,8-HxCDF	54		19 - 202
13C-1,2,3,6,7,8-HxCDF	72		21 - 159
13C-2,3,4,6,7,8-HxCDF	73		22 - 176
13C-1,2,3,7,8,9-HxCDF	70		17 - 205
13C-1,2,3,4,6,7,8-HpCDD	67		26 - 166
13C-1,2,3,4,6,7,8-HpCDF	53		21 - 158
13C-1,2,3,4,7,8,9-HpCDF	55		20 - 186
13C-OCDD	72		13 - 199
13C-OCDF	74		13 - 199

Surrogate	LCS %Recovery	LCS Qualifier	Limits
37Cl4-2,3,7,8-TCDD	79		31 - 191

Lab Sample ID: LCSD 320-670006/3-A
Matrix: Solid
Analysis Batch: 676949

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 670006

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDD	20.0	20.6		pg/g		103	67 - 158	1	50
2,3,7,8-TCDF	20.0	22.9		pg/g		114	75 - 158	2	50
1,2,3,7,8-PeCDD	100	84.1	B	pg/g		84	70 - 142	1	50
1,2,3,7,8-PeCDF	100	81.8	B	pg/g		82	80 - 134	1	50
2,3,4,7,8-PeCDF	100	102	B	pg/g		102	68 - 160	1	50
1,2,3,4,7,8-HxCDD	100	97.9	B	pg/g		98	70 - 164	7	50
1,2,3,6,7,8-HxCDD	100	107	B	pg/g		107	76 - 134	7	50
1,2,3,7,8,9-HxCDD	100	104	B	pg/g		104	64 - 162	1	50

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-670006/3-A
Matrix: Solid
Analysis Batch: 676949

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 670006

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
1,2,3,4,7,8-HxCDF	100	107	B	pg/g		107	72 - 134	0	50	
1,2,3,6,7,8-HxCDF	100	87.4	B	pg/g		87	84 - 130	1	50	
1,2,3,7,8,9-HxCDF	100	82.5	B	pg/g		82	78 - 130	2	50	
2,3,4,6,7,8-HxCDF	100	86.1	B	pg/g		86	70 - 156	1	50	
1,2,3,4,6,7,8-HpCDD	100	83.3	B	pg/g		83	70 - 140	2	50	
1,2,3,4,6,7,8-HpCDF	100	100	B	pg/g		100	82 - 122	0	50	
1,2,3,4,7,8,9-HpCDF	100	104	B	pg/g		104	78 - 138	1	50	
OCDD	200	195	B	pg/g		98	78 - 144	2	50	
OCDF	200	220	B	pg/g		110	63 - 170	3	50	

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C-2,3,7,8-TCDD	45		20 - 175
13C-2,3,7,8-TCDF	48		22 - 152
13C-1,2,3,7,8-PeCDD	51		21 - 227
13C-1,2,3,7,8-PeCDF	57		21 - 192
13C-2,3,4,7,8-PeCDF	44		13 - 328
13C-1,2,3,4,7,8-HxCDD	46		21 - 193
13C-1,2,3,6,7,8-HxCDD	47		25 - 163
13C-1,2,3,4,7,8-HxCDF	50		19 - 202
13C-1,2,3,6,7,8-HxCDF	65		21 - 159
13C-2,3,4,6,7,8-HxCDF	66		22 - 176
13C-1,2,3,7,8,9-HxCDF	63		17 - 205
13C-1,2,3,4,6,7,8-HpCDD	58		26 - 166
13C-1,2,3,4,6,7,8-HpCDF	47		21 - 158
13C-1,2,3,4,7,8,9-HpCDF	48		20 - 186
13C-OCDD	61		13 - 199
13C-OCDF	62		13 - 199

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
37Cl4-2,3,7,8-TCDD	79		31 - 191

Lab Sample ID: MB 320-670010/1-A
Matrix: Solid
Analysis Batch: 676629

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 670010

Analyte	MB		RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	ND		1.0	0.037	pg/g		04/25/23 11:08	05/21/23 02:22	1
2,3,7,8-TCDF	ND		1.0	0.017	pg/g		04/25/23 11:08	05/21/23 02:22	1
1,2,3,7,8-PeCDD	ND		5.0	0.032	pg/g		04/25/23 11:08	05/21/23 02:22	1
1,2,3,7,8-PeCDF	ND		5.0	0.019	pg/g		04/25/23 11:08	05/21/23 02:22	1
2,3,4,7,8-PeCDF	ND		5.0	0.029	pg/g		04/25/23 11:08	05/21/23 02:22	1
1,2,3,4,7,8-HxCDD	0.207	J q	5.0	0.045	pg/g		04/25/23 11:08	05/21/23 02:22	1
1,2,3,6,7,8-HxCDD	0.0748	J q	5.0	0.044	pg/g		04/25/23 11:08	05/21/23 02:22	1
1,2,3,7,8,9-HxCDD	0.116	J	5.0	0.043	pg/g		04/25/23 11:08	05/21/23 02:22	1
1,2,3,4,7,8-HxCDF	0.0651	J q	5.0	0.038	pg/g		04/25/23 11:08	05/21/23 02:22	1
1,2,3,6,7,8-HxCDF	0.0604	J q	5.0	0.027	pg/g		04/25/23 11:08	05/21/23 02:22	1
1,2,3,7,8,9-HxCDF	0.0675	J q	5.0	0.024	pg/g		04/25/23 11:08	05/21/23 02:22	1
2,3,4,6,7,8-HxCDF	ND		5.0	0.022	pg/g		04/25/23 11:08	05/21/23 02:22	1

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-670010/1-A
Matrix: Solid
Analysis Batch: 676629

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 670010

Analyte	MB	MB	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,3,4,6,7,8-HpCDD	0.233	J q	5.0	0.025	pg/g		04/25/23 11:08	05/21/23 02:22	1
1,2,3,4,6,7,8-HpCDF	0.140	J q	5.0	0.039	pg/g		04/25/23 11:08	05/21/23 02:22	1
1,2,3,4,7,8,9-HpCDF	0.138	J q	5.0	0.045	pg/g		04/25/23 11:08	05/21/23 02:22	1
OCDD	1.38	J	10	0.056	pg/g		04/25/23 11:08	05/21/23 02:22	1
OCDF	0.446	J q	10	0.048	pg/g		04/25/23 11:08	05/21/23 02:22	1
Isotope Dilution	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
13C-2,3,7,8-TCDD	66		25 - 164				04/25/23 11:08	05/21/23 02:22	1
13C-2,3,7,8-TCDF	71		24 - 169				04/25/23 11:08	05/21/23 02:22	1
13C-1,2,3,7,8-PeCDD	74		25 - 181				04/25/23 11:08	05/21/23 02:22	1
13C-1,2,3,7,8-PeCDF	88		24 - 185				04/25/23 11:08	05/21/23 02:22	1
13C-2,3,4,7,8-PeCDF	65		21 - 178				04/25/23 11:08	05/21/23 02:22	1
13C-1,2,3,4,7,8-HxCDD	63		32 - 141				04/25/23 11:08	05/21/23 02:22	1
13C-1,2,3,6,7,8-HxCDD	61		28 - 130				04/25/23 11:08	05/21/23 02:22	1
13C-1,2,3,4,7,8-HxCDF	65		26 - 152				04/25/23 11:08	05/21/23 02:22	1
13C-1,2,3,6,7,8-HxCDF	85		26 - 123				04/25/23 11:08	05/21/23 02:22	1
13C-2,3,4,6,7,8-HxCDF	91		28 - 136				04/25/23 11:08	05/21/23 02:22	1
13C-1,2,3,7,8,9-HxCDF	87		29 - 147				04/25/23 11:08	05/21/23 02:22	1
13C-1,2,3,4,6,7,8-HpCDD	82		23 - 140				04/25/23 11:08	05/21/23 02:22	1
13C-1,2,3,4,6,7,8-HpCDF	69		28 - 143				04/25/23 11:08	05/21/23 02:22	1
13C-1,2,3,4,7,8,9-HpCDF	71		26 - 138				04/25/23 11:08	05/21/23 02:22	1
13C-OCDD	76		17 - 157				04/25/23 11:08	05/21/23 02:22	1
13C-OCDF	82		17 - 157				04/25/23 11:08	05/21/23 02:22	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
37Cl4-2,3,7,8-TCDD	87		35 - 197				04/25/23 11:08	05/21/23 02:22	1

Lab Sample ID: LCS 320-670010/2-A
Matrix: Solid
Analysis Batch: 676629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 670010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDF	20.0	21.3		pg/g		107 75 - 158	
1,2,3,7,8-PeCDD	100	88.8		pg/g		89 70 - 142	
1,2,3,7,8-PeCDF	100	80.5		pg/g		81 80 - 134	
2,3,4,7,8-PeCDF	100	101		pg/g		101 68 - 160	
1,2,3,4,7,8-HxCDD	100	102		pg/g		102 70 - 164	
1,2,3,6,7,8-HxCDD	100	102		pg/g		102 76 - 134	
1,2,3,7,8,9-HxCDD	100	108		pg/g		108 64 - 162	
1,2,3,4,7,8-HxCDF	100	105		pg/g		105 72 - 134	
1,2,3,6,7,8-HxCDF	100	85.1		pg/g		85 84 - 130	
1,2,3,7,8,9-HxCDF	100	82.0		pg/g		82 78 - 130	
2,3,4,6,7,8-HxCDF	100	83.6		pg/g		84 70 - 156	
1,2,3,4,6,7,8-HpCDD	100	84.5		pg/g		85 70 - 140	
1,2,3,4,6,7,8-HpCDF	100	99.2		pg/g		99 82 - 122	
1,2,3,4,7,8,9-HpCDF	100	104		pg/g		104 78 - 138	
OCDD	200	201		pg/g		100 78 - 144	

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-670010/2-A
Matrix: Solid
Analysis Batch: 676629

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 670010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
OCDF	200	219		pg/g		110	63 - 170
Isotope Dilution							
	%Recovery	Qualifier	Limits				
13C-2,3,7,8-TCDD	70		20 - 175				
13C-2,3,7,8-TCDF	76		22 - 152				
13C-1,2,3,7,8-PeCDD	80		21 - 227				
13C-1,2,3,7,8-PeCDF	96		21 - 192				
13C-2,3,4,7,8-PeCDF	70		13 - 328				
13C-1,2,3,4,7,8-HxCDD	65		21 - 193				
13C-1,2,3,6,7,8-HxCDD	68		25 - 163				
13C-1,2,3,4,7,8-HxCDF	71		19 - 202				
13C-1,2,3,6,7,8-HxCDF	89		21 - 159				
13C-2,3,4,6,7,8-HxCDF	97		22 - 176				
13C-1,2,3,7,8,9-HxCDF	94		17 - 205				
13C-1,2,3,4,6,7,8-HpCDD	93		26 - 166				
13C-1,2,3,4,6,7,8-HpCDF	76		21 - 158				
13C-1,2,3,4,7,8,9-HpCDF	81		20 - 186				
13C-OCDD	89		13 - 199				
13C-OCDF	95		13 - 199				
Surrogate							
	%Recovery	Qualifier	Limits				
37Cl4-2,3,7,8-TCDD	96		31 - 191				

Lab Sample ID: LCSD 320-670010/3-A
Matrix: Solid
Analysis Batch: 676629

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 670010

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDD	20.0	21.6		pg/g		108	67 - 158	2	50
2,3,7,8-TCDF	20.0	22.1		pg/g		111	75 - 158	4	50
1,2,3,7,8-PeCDD	100	90.7		pg/g		91	70 - 142	2	50
1,2,3,7,8-PeCDF	100	82.2		pg/g		82	80 - 134	2	50
2,3,4,7,8-PeCDF	100	104		pg/g		104	68 - 160	3	50
1,2,3,4,7,8-HxCDD	100	101		pg/g		101	70 - 164	1	50
1,2,3,6,7,8-HxCDD	100	107		pg/g		107	76 - 134	4	50
1,2,3,7,8,9-HxCDD	100	113		pg/g		113	64 - 162	4	50
1,2,3,4,7,8-HxCDF	100	108		pg/g		108	72 - 134	3	50
1,2,3,6,7,8-HxCDF	100	85.7		pg/g		86	84 - 130	1	50
1,2,3,7,8,9-HxCDF	100	84.0		pg/g		84	78 - 130	2	50
2,3,4,6,7,8-HxCDF	100	85.9		pg/g		86	70 - 156	3	50
1,2,3,4,6,7,8-HpCDD	100	86.9		pg/g		87	70 - 140	3	50
1,2,3,4,6,7,8-HpCDF	100	101		pg/g		101	82 - 122	2	50
1,2,3,4,7,8,9-HpCDF	100	106		pg/g		106	78 - 138	2	50
OCDD	200	206		pg/g		103	78 - 144	3	50
OCDF	200	225		pg/g		113	63 - 170	3	50
Isotope Dilution									
	%Recovery	Qualifier	Limits						
13C-2,3,7,8-TCDD	67		20 - 175						

QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-670010/3-A
Matrix: Solid
Analysis Batch: 676629

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 670010

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C-2,3,7,8-TCDF	72		22 - 152
13C-1,2,3,7,8-PeCDD	76		21 - 227
13C-1,2,3,7,8-PeCDF	89		21 - 192
13C-2,3,4,7,8-PeCDF	65		13 - 328
13C-1,2,3,4,7,8-HxCDD	62		21 - 193
13C-1,2,3,6,7,8-HxCDD	64		25 - 163
13C-1,2,3,4,7,8-HxCDF	66		19 - 202
13C-1,2,3,6,7,8-HxCDF	85		21 - 159
13C-2,3,4,6,7,8-HxCDF	93		22 - 176
13C-1,2,3,7,8,9-HxCDF	90		17 - 205
13C-1,2,3,4,6,7,8-HpCDD	88		26 - 166
13C-1,2,3,4,6,7,8-HpCDF	72		21 - 158
13C-1,2,3,4,7,8,9-HpCDF	77		20 - 186
13C-OCDD	84		13 - 199
13C-OCDF	92		13 - 199

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
37Cl4-2,3,7,8-TCDD	94		31 - 191

Lab Sample ID: MB 320-670221/1-A
Matrix: Solid
Analysis Batch: 674396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 670221

Analyte	MB MB		RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	ND		1.0	0.0018	pg/g		04/26/23 09:34	05/13/23 05:30	1
2,3,7,8-TCDF	ND		1.0	0.00075	pg/g		04/26/23 09:34	05/13/23 05:30	1
1,2,3,7,8-PeCDD	ND		5.0	0.0082	pg/g		04/26/23 09:34	05/13/23 05:30	1
1,2,3,7,8-PeCDF	ND		5.0	0.017	pg/g		04/26/23 09:34	05/13/23 05:30	1
2,3,4,7,8-PeCDF	ND		5.0	0.025	pg/g		04/26/23 09:34	05/13/23 05:30	1
1,2,3,4,7,8-HxCDD	ND		5.0	0.057	pg/g		04/26/23 09:34	05/13/23 05:30	1
1,2,3,6,7,8-HxCDD	ND		5.0	0.054	pg/g		04/26/23 09:34	05/13/23 05:30	1
1,2,3,7,8,9-HxCDD	ND		5.0	0.048	pg/g		04/26/23 09:34	05/13/23 05:30	1
1,2,3,4,7,8-HxCDF	ND		5.0	0.019	pg/g		04/26/23 09:34	05/13/23 05:30	1
1,2,3,6,7,8-HxCDF	ND		5.0	0.015	pg/g		04/26/23 09:34	05/13/23 05:30	1
1,2,3,7,8,9-HxCDF	0.133	J q	5.0	0.015	pg/g		04/26/23 09:34	05/13/23 05:30	1
2,3,4,6,7,8-HxCDF	ND		5.0	0.013	pg/g		04/26/23 09:34	05/13/23 05:30	1
1,2,3,4,6,7,8-HpCDD	0.166	J q	5.0	0.0023	pg/g		04/26/23 09:34	05/13/23 05:30	1
1,2,3,4,6,7,8-HpCDF	0.200	J q	5.0	0.073	pg/g		04/26/23 09:34	05/13/23 05:30	1
1,2,3,4,7,8,9-HpCDF	0.244	J	5.0	0.079	pg/g		04/26/23 09:34	05/13/23 05:30	1
OCDD	0.610	J q	10	0.037	pg/g		04/26/23 09:34	05/13/23 05:30	1
OCDF	0.374	J q	10	0.013	pg/g		04/26/23 09:34	05/13/23 05:30	1

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C-2,3,7,8-TCDD	62		25 - 164	04/26/23 09:34	05/13/23 05:30	1
13C-2,3,7,8-TCDF	62		24 - 169	04/26/23 09:34	05/13/23 05:30	1
13C-1,2,3,7,8-PeCDD	72		25 - 181	04/26/23 09:34	05/13/23 05:30	1
13C-1,2,3,7,8-PeCDF	80		24 - 185	04/26/23 09:34	05/13/23 05:30	1
13C-2,3,4,7,8-PeCDF	59		21 - 178	04/26/23 09:34	05/13/23 05:30	1

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-670221/1-A
Matrix: Solid
Analysis Batch: 674396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 670221

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C-1,2,3,4,7,8-HxCDD	67		32 - 141	04/26/23 09:34	05/13/23 05:30	1
13C-1,2,3,6,7,8-HxCDD	66		28 - 130	04/26/23 09:34	05/13/23 05:30	1
13C-1,2,3,4,7,8-HxCDF	67		26 - 152	04/26/23 09:34	05/13/23 05:30	1
13C-1,2,3,6,7,8-HxCDF	83		26 - 123	04/26/23 09:34	05/13/23 05:30	1
13C-2,3,4,6,7,8-HxCDF	88		28 - 136	04/26/23 09:34	05/13/23 05:30	1
13C-1,2,3,7,8,9-HxCDF	80		29 - 147	04/26/23 09:34	05/13/23 05:30	1
13C-1,2,3,4,6,7,8-HpCDD	91		23 - 140	04/26/23 09:34	05/13/23 05:30	1
13C-1,2,3,4,6,7,8-HpCDF	65		28 - 143	04/26/23 09:34	05/13/23 05:30	1
13C-1,2,3,4,7,8,9-HpCDF	71		26 - 138	04/26/23 09:34	05/13/23 05:30	1
13C-OCDD	73		17 - 157	04/26/23 09:34	05/13/23 05:30	1
13C-OCDF	69		17 - 157	04/26/23 09:34	05/13/23 05:30	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
37Cl4-2,3,7,8-TCDD	82		35 - 197	04/26/23 09:34	05/13/23 05:30	1

Lab Sample ID: LCS 320-670221/2-A
Matrix: Solid
Analysis Batch: 675199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 670221

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDF	20.0	21.9		pg/g		109	75 - 158
1,2,3,7,8-PeCDD	100	79.8		pg/g		80	70 - 142
1,2,3,7,8-PeCDF	100	80.2		pg/g		80	80 - 134
2,3,4,7,8-PeCDF	100	97.8		pg/g		98	68 - 160
1,2,3,4,7,8-HxCDD	100	93.9		pg/g		94	70 - 164
1,2,3,6,7,8-HxCDD	100	101		pg/g		101	76 - 134
1,2,3,7,8,9-HxCDD	100	105		pg/g		105	64 - 162
1,2,3,4,7,8-HxCDF	100	108		pg/g		108	72 - 134
1,2,3,6,7,8-HxCDF	100	85.3		pg/g		85	84 - 130
1,2,3,7,8,9-HxCDF	100	85.3		pg/g		85	78 - 130
2,3,4,6,7,8-HxCDF	100	86.0		pg/g		86	70 - 156
1,2,3,4,6,7,8-HpCDD	100	78.1		pg/g		78	70 - 140
1,2,3,4,6,7,8-HpCDF	100	96.5		pg/g		96	82 - 122
1,2,3,4,7,8,9-HpCDF	100	99.9		pg/g		100	78 - 138
OCDD	200	181		pg/g		91	78 - 144
OCDF	200	211		pg/g		105	63 - 170

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C-2,3,7,8-TCDD	62		20 - 175
13C-2,3,7,8-TCDF	60		22 - 152
13C-1,2,3,7,8-PeCDD	78		21 - 227
13C-1,2,3,7,8-PeCDF	77		21 - 192
13C-2,3,4,7,8-PeCDF	58		13 - 328
13C-1,2,3,4,7,8-HxCDD	57		21 - 193
13C-1,2,3,6,7,8-HxCDD	61		25 - 163
13C-1,2,3,4,7,8-HxCDF	61		19 - 202
13C-1,2,3,6,7,8-HxCDF	80		21 - 159

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QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-670221/2-A
Matrix: Solid
Analysis Batch: 675199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 670221

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C-2,3,4,6,7,8-HxCDF	83		22 - 176
13C-1,2,3,7,8,9-HxCDF	77		17 - 205
13C-1,2,3,4,6,7,8-HpCDD	86		26 - 166
13C-1,2,3,4,6,7,8-HpCDF	62		21 - 158
13C-1,2,3,4,7,8,9-HpCDF	65		20 - 186
13C-OCDD	82		13 - 199
13C-OCDF	77		13 - 199

Surrogate	LCS		Limits
	%Recovery	Qualifier	
37Cl4-2,3,7,8-TCDD	83		31 - 191

Lab Sample ID: LCSD 320-670221/3-A
Matrix: Solid
Analysis Batch: 675199

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 670221

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
2,3,7,8-TCDD	20.0	19.6		pg/g		98	67 - 158	1	50	
2,3,7,8-TCDF	20.0	21.5		pg/g		108	75 - 158	2	50	
1,2,3,7,8-PeCDD	100	79.2		pg/g		79	70 - 142	1	50	
1,2,3,7,8-PeCDF	100	80.2		pg/g		80	80 - 134	0	50	
2,3,4,7,8-PeCDF	100	95.8		pg/g		96	68 - 160	2	50	
1,2,3,4,7,8-HxCDD	100	94.5		pg/g		95	70 - 164	1	50	
1,2,3,6,7,8-HxCDD	100	98.7		pg/g		99	76 - 134	2	50	
1,2,3,7,8,9-HxCDD	100	103		pg/g		103	64 - 162	2	50	
1,2,3,4,7,8-HxCDF	100	105		pg/g		105	72 - 134	3	50	
1,2,3,6,7,8-HxCDF	100	86.4		pg/g		86	84 - 130	1	50	
1,2,3,7,8,9-HxCDF	100	82.4		pg/g		82	78 - 130	3	50	
2,3,4,6,7,8-HxCDF	100	85.0		pg/g		85	70 - 156	1	50	
1,2,3,4,6,7,8-HpCDD	100	75.8		pg/g		76	70 - 140	3	50	
1,2,3,4,6,7,8-HpCDF	100	95.2		pg/g		95	82 - 122	1	50	
1,2,3,4,7,8,9-HpCDF	100	97.2		pg/g		97	78 - 138	3	50	
OCDD	200	180		pg/g		90	78 - 144	1	50	
OCDF	200	205		pg/g		102	63 - 170	3	50	

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C-2,3,7,8-TCDD	61		20 - 175
13C-2,3,7,8-TCDF	58		22 - 152
13C-1,2,3,7,8-PeCDD	78		21 - 227
13C-1,2,3,7,8-PeCDF	74		21 - 192
13C-2,3,4,7,8-PeCDF	60		13 - 328
13C-1,2,3,4,7,8-HxCDD	59		21 - 193
13C-1,2,3,6,7,8-HxCDD	59		25 - 163
13C-1,2,3,4,7,8-HxCDF	63		19 - 202
13C-1,2,3,6,7,8-HxCDF	78		21 - 159
13C-2,3,4,6,7,8-HxCDF	80		22 - 176
13C-1,2,3,7,8,9-HxCDF	76		17 - 205
13C-1,2,3,4,6,7,8-HpCDD	84		26 - 166
13C-1,2,3,4,6,7,8-HpCDF	63		21 - 158

QC Sample Results

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method: 1613B - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-670221/3-A
Matrix: Solid
Analysis Batch: 675199

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 670221

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C-1,2,3,4,7,8,9-HpCDF	65		20 - 186
13C-OCDD	81		13 - 199
13C-OCDF	76		13 - 199

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
37Cl4-2,3,7,8-TCDD	83		31 - 191

Method: D 2216 - Percent Moisture

Lab Sample ID: 320-97305-188 DU
Matrix: Solid
Analysis Batch: 669753

Client Sample ID: SB-08-3-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Percent Moisture	17.9	H	17.8		%		2	20

Lab Sample ID: 320-97305-66 DU
Matrix: Solid
Analysis Batch: 669804

Client Sample ID: DU-5-NE-J-0-1.5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Percent Moisture	7.0	H	7.8		%		11	20

Lab Sample ID: 320-97305-174 DU
Matrix: Solid
Analysis Batch: 669812

Client Sample ID: DU-6-NW-H-0-1.5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU		Unit	D	RPD	Limit
			Result	Qualifier				
Percent Moisture	6.8	H	6.7		%		2	20

QC Association Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Specialty Organics

Prep Batch: 670006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-2 - RA	DU-5-SE--A-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-2	DU-5-SE--A-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-3 - RA	DU-5-SE-B-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-3	DU-5-SE-B-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-4 - RA	DU-5-SE-C-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-4	DU-5-SE-C-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-5 - RA	DU-5-SE-D-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-5	DU-5-SE-D-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-6	DU-5-SE-E-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-7	DU-5-SE-F-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-8	DU-5-SE-G-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-9	DU-5-SE-H-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-10 - RA	DU-5-SE-I-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-10	DU-5-SE-I-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-11 - RA	DU-5-SE-J-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-11	DU-5-SE-J-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-57 - RA	DU-5-NE-A-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-57	DU-5-NE-A-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-58 - RA	DU-5-NE-B-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-58	DU-5-NE-B-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-59 - RA	DU-5-NE-C-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-59	DU-5-NE-C-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-60 - RA	DU-5-NE-D-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-60	DU-5-NE-D-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-61 - RA	DU-5-NE-E-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-61	DU-5-NE-E-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-62 - RA	DU-5-NE-F-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-62	DU-5-NE-F-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-63 - RA	DU-5-NE-G-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-63	DU-5-NE-G-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-64 - RA	DU-5-NE-H-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-64	DU-5-NE-H-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-65 - RA	DU-5-NE-I-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-65	DU-5-NE-I-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-66	DU-5-NE-J-0-1.5	Total/NA	Solid	HRMS-Sox	
MB 320-670006/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	
LCS 320-670006/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
LCS 320-670006/3-A	Lab Control Sample Dup	Total/NA	Solid	HRMS-Sox	

Prep Batch: 670010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-123 - RA	DU-6-SW-A-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-123	DU-6-SW-A-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-124 - RA	DU-6-SW-B-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-124	DU-6-SW-B-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-125 - RA	DU-6-SW-C-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-125	DU-6-SW-C-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-126 - RA	DU-6-SW-D-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-126	DU-6-SW-D-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-127 - RA	DU-6-SW-E-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-127	DU-6-SW-E-0-1.5	Total/NA	Solid	HRMS-Sox	

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QC Association Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Specialty Organics (Continued)

Prep Batch: 670010 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-128 - RA	DU-6-SW-F-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-128	DU-6-SW-F-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-129 - RA	DU-6-SW-G-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-129	DU-6-SW-G-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-130 - RA	DU-6-SW-H-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-130	DU-6-SW-H-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-131 - RA	DU-6-SW-I-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-131	DU-6-SW-I-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-132 - RA	DU-6-SW-J-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-132	DU-6-SW-J-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-167 - RA	DU-6-NW-A-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-167	DU-6-NW-A-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-168	DU-6-NW-B-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-169 - RA	DU-6-NW-C-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-169	DU-6-NW-C-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-170 - RA	DU-6-NW-D-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-170	DU-6-NW-D-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-171 - RA	DU-6-NW-E-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-171	DU-6-NW-E-0-1.5	Total/NA	Solid	HRMS-Sox	
MB 320-670010/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	
LCS 320-670010/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
LCSD 320-670010/3-A	Lab Control Sample Dup	Total/NA	Solid	HRMS-Sox	

Prep Batch: 670221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-172 - RA	DU-6-NW-F-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-172	DU-6-NW-F-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-173 - RA	DU-6-NW-G-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-173	DU-6-NW-G-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-174 - RA	DU-6-NW-H-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-174	DU-6-NW-H-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-175 - RA	DU-6-NW-I-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-175	DU-6-NW-I-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-176	DU-6-NW-J-0-1.5	Total/NA	Solid	HRMS-Sox	
320-97305-188	SB-08-3-6	Total/NA	Solid	HRMS-Sox	
MB 320-670221/1-A	Method Blank	Total/NA	Solid	HRMS-Sox	
LCS 320-670221/2-A	Lab Control Sample	Total/NA	Solid	HRMS-Sox	
LCSD 320-670221/3-A	Lab Control Sample Dup	Total/NA	Solid	HRMS-Sox	

Analysis Batch: 674396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-670221/1-A	Method Blank	Total/NA	Solid	1613B	670221

Analysis Batch: 674813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-172 - RA	DU-6-NW-F-0-1.5	Total/NA	Solid	1613B	670221
320-97305-173 - RA	DU-6-NW-G-0-1.5	Total/NA	Solid	1613B	670221
320-97305-174 - RA	DU-6-NW-H-0-1.5	Total/NA	Solid	1613B	670221
320-97305-175 - RA	DU-6-NW-I-0-1.5	Total/NA	Solid	1613B	670221

QC Association Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Specialty Organics

Analysis Batch: 675114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-172	DU-6-NW-F-0-1.5	Total/NA	Solid	1613B	670221
320-97305-173	DU-6-NW-G-0-1.5	Total/NA	Solid	1613B	670221
320-97305-174	DU-6-NW-H-0-1.5	Total/NA	Solid	1613B	670221
320-97305-175	DU-6-NW-I-0-1.5	Total/NA	Solid	1613B	670221
320-97305-176	DU-6-NW-J-0-1.5	Total/NA	Solid	1613B	670221
320-97305-188	SB-08-3-6	Total/NA	Solid	1613B	670221

Analysis Batch: 675199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-670221/2-A	Lab Control Sample	Total/NA	Solid	1613B	670221
LCSD 320-670221/3-A	Lab Control Sample Dup	Total/NA	Solid	1613B	670221

Analysis Batch: 676099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-2	DU-5-SE--A-0-1.5	Total/NA	Solid	1613B	670006
320-97305-3	DU-5-SE-B-0-1.5	Total/NA	Solid	1613B	670006
320-97305-4	DU-5-SE-C-0-1.5	Total/NA	Solid	1613B	670006
320-97305-5	DU-5-SE-D-0-1.5	Total/NA	Solid	1613B	670006
320-97305-7	DU-5-SE-F-0-1.5	Total/NA	Solid	1613B	670006
320-97305-8	DU-5-SE-G-0-1.5	Total/NA	Solid	1613B	670006
320-97305-9	DU-5-SE-H-0-1.5	Total/NA	Solid	1613B	670006
320-97305-10	DU-5-SE-I-0-1.5	Total/NA	Solid	1613B	670006
MB 320-670006/1-A	Method Blank	Total/NA	Solid	1613B	670006

Analysis Batch: 676100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-11	DU-5-SE-J-0-1.5	Total/NA	Solid	1613B	670006
320-97305-58	DU-5-NE-B-0-1.5	Total/NA	Solid	1613B	670006
320-97305-59	DU-5-NE-C-0-1.5	Total/NA	Solid	1613B	670006
320-97305-60	DU-5-NE-D-0-1.5	Total/NA	Solid	1613B	670006
320-97305-61	DU-5-NE-E-0-1.5	Total/NA	Solid	1613B	670006
320-97305-62	DU-5-NE-F-0-1.5	Total/NA	Solid	1613B	670006
320-97305-63	DU-5-NE-G-0-1.5	Total/NA	Solid	1613B	670006
320-97305-64	DU-5-NE-H-0-1.5	Total/NA	Solid	1613B	670006
320-97305-65	DU-5-NE-I-0-1.5	Total/NA	Solid	1613B	670006

Analysis Batch: 676629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-123	DU-6-SW-A-0-1.5	Total/NA	Solid	1613B	670010
320-97305-124	DU-6-SW-B-0-1.5	Total/NA	Solid	1613B	670010
320-97305-125	DU-6-SW-C-0-1.5	Total/NA	Solid	1613B	670010
320-97305-126	DU-6-SW-D-0-1.5	Total/NA	Solid	1613B	670010
320-97305-127	DU-6-SW-E-0-1.5	Total/NA	Solid	1613B	670010
320-97305-128	DU-6-SW-F-0-1.5	Total/NA	Solid	1613B	670010
320-97305-129	DU-6-SW-G-0-1.5	Total/NA	Solid	1613B	670010
320-97305-130	DU-6-SW-H-0-1.5	Total/NA	Solid	1613B	670010
320-97305-131	DU-6-SW-I-0-1.5	Total/NA	Solid	1613B	670010
MB 320-670010/1-A	Method Blank	Total/NA	Solid	1613B	670010
LCS 320-670010/2-A	Lab Control Sample	Total/NA	Solid	1613B	670010
LCSD 320-670010/3-A	Lab Control Sample Dup	Total/NA	Solid	1613B	670010

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QC Association Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Specialty Organics

Analysis Batch: 676630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-132	DU-6-SW-J-0-1.5	Total/NA	Solid	1613B	670010
320-97305-167	DU-6-NW-A-0-1.5	Total/NA	Solid	1613B	670010
320-97305-168	DU-6-NW-B-0-1.5	Total/NA	Solid	1613B	670010
320-97305-169	DU-6-NW-C-0-1.5	Total/NA	Solid	1613B	670010
320-97305-170	DU-6-NW-D-0-1.5	Total/NA	Solid	1613B	670010
320-97305-171	DU-6-NW-E-0-1.5	Total/NA	Solid	1613B	670010

Analysis Batch: 676782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-123 - RA	DU-6-SW-A-0-1.5	Total/NA	Solid	1613B	670010
320-97305-124 - RA	DU-6-SW-B-0-1.5	Total/NA	Solid	1613B	670010
320-97305-125 - RA	DU-6-SW-C-0-1.5	Total/NA	Solid	1613B	670010
320-97305-126 - RA	DU-6-SW-D-0-1.5	Total/NA	Solid	1613B	670010
320-97305-127 - RA	DU-6-SW-E-0-1.5	Total/NA	Solid	1613B	670010
320-97305-128 - RA	DU-6-SW-F-0-1.5	Total/NA	Solid	1613B	670010
320-97305-129 - RA	DU-6-SW-G-0-1.5	Total/NA	Solid	1613B	670010
320-97305-130 - RA	DU-6-SW-H-0-1.5	Total/NA	Solid	1613B	670010
320-97305-132 - RA	DU-6-SW-J-0-1.5	Total/NA	Solid	1613B	670010
320-97305-167 - RA	DU-6-NW-A-0-1.5	Total/NA	Solid	1613B	670010

Analysis Batch: 676949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-670006/2-A	Lab Control Sample	Total/NA	Solid	1613B	670006
LCSD 320-670006/3-A	Lab Control Sample Dup	Total/NA	Solid	1613B	670006

Analysis Batch: 677005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-131 - RA	DU-6-SW-I-0-1.5	Total/NA	Solid	1613B	670010
320-97305-169 - RA	DU-6-NW-C-0-1.5	Total/NA	Solid	1613B	670010
320-97305-170 - RA	DU-6-NW-D-0-1.5	Total/NA	Solid	1613B	670010
320-97305-171 - RA	DU-6-NW-E-0-1.5	Total/NA	Solid	1613B	670010

Analysis Batch: 677130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-6	DU-5-SE-E-0-1.5	Total/NA	Solid	1613B	670006
320-97305-57	DU-5-NE-A-0-1.5	Total/NA	Solid	1613B	670006
320-97305-66	DU-5-NE-J-0-1.5	Total/NA	Solid	1613B	670006

Analysis Batch: 677287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-2 - RA	DU-5-SE--A-0-1.5	Total/NA	Solid	1613B	670006
320-97305-3 - RA	DU-5-SE-B-0-1.5	Total/NA	Solid	1613B	670006
320-97305-4 - RA	DU-5-SE-C-0-1.5	Total/NA	Solid	1613B	670006
320-97305-5 - RA	DU-5-SE-D-0-1.5	Total/NA	Solid	1613B	670006
320-97305-10 - RA	DU-5-SE-I-0-1.5	Total/NA	Solid	1613B	670006

Analysis Batch: 677449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-11 - RA	DU-5-SE-J-0-1.5	Total/NA	Solid	1613B	670006
320-97305-57 - RA	DU-5-NE-A-0-1.5	Total/NA	Solid	1613B	670006
320-97305-58 - RA	DU-5-NE-B-0-1.5	Total/NA	Solid	1613B	670006

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QC Association Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Specialty Organics (Continued)

Analysis Batch: 677449 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-59 - RA	DU-5-NE-C-0-1.5	Total/NA	Solid	1613B	670006
320-97305-60 - RA	DU-5-NE-D-0-1.5	Total/NA	Solid	1613B	670006
320-97305-61 - RA	DU-5-NE-E-0-1.5	Total/NA	Solid	1613B	670006
320-97305-62 - RA	DU-5-NE-F-0-1.5	Total/NA	Solid	1613B	670006
320-97305-63 - RA	DU-5-NE-G-0-1.5	Total/NA	Solid	1613B	670006
320-97305-64 - RA	DU-5-NE-H-0-1.5	Total/NA	Solid	1613B	670006

Analysis Batch: 678178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-65 - RA	DU-5-NE-I-0-1.5	Total/NA	Solid	1613B	670006

General Chemistry

Analysis Batch: 669753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-2	DU-5-SE--A-0-1.5	Total/NA	Solid	D 2216	
320-97305-3	DU-5-SE-B-0-1.5	Total/NA	Solid	D 2216	
320-97305-4	DU-5-SE-C-0-1.5	Total/NA	Solid	D 2216	
320-97305-5	DU-5-SE-D-0-1.5	Total/NA	Solid	D 2216	
320-97305-6	DU-5-SE-E-0-1.5	Total/NA	Solid	D 2216	
320-97305-7	DU-5-SE-F-0-1.5	Total/NA	Solid	D 2216	
320-97305-8	DU-5-SE-G-0-1.5	Total/NA	Solid	D 2216	
320-97305-9	DU-5-SE-H-0-1.5	Total/NA	Solid	D 2216	
320-97305-10	DU-5-SE-I-0-1.5	Total/NA	Solid	D 2216	
320-97305-11	DU-5-SE-J-0-1.5	Total/NA	Solid	D 2216	
320-97305-57	DU-5-NE-A-0-1.5	Total/NA	Solid	D 2216	
320-97305-58	DU-5-NE-B-0-1.5	Total/NA	Solid	D 2216	
320-97305-59	DU-5-NE-C-0-1.5	Total/NA	Solid	D 2216	
320-97305-60	DU-5-NE-D-0-1.5	Total/NA	Solid	D 2216	
320-97305-61	DU-5-NE-E-0-1.5	Total/NA	Solid	D 2216	
320-97305-62	DU-5-NE-F-0-1.5	Total/NA	Solid	D 2216	
320-97305-63	DU-5-NE-G-0-1.5	Total/NA	Solid	D 2216	
320-97305-64	DU-5-NE-H-0-1.5	Total/NA	Solid	D 2216	
320-97305-188	SB-08-3-6	Total/NA	Solid	D 2216	
320-97305-188 DU	SB-08-3-6	Total/NA	Solid	D 2216	

Analysis Batch: 669804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-65	DU-5-NE-I-0-1.5	Total/NA	Solid	D 2216	
320-97305-66	DU-5-NE-J-0-1.5	Total/NA	Solid	D 2216	
320-97305-123	DU-6-SW-A-0-1.5	Total/NA	Solid	D 2216	
320-97305-124	DU-6-SW-B-0-1.5	Total/NA	Solid	D 2216	
320-97305-125	DU-6-SW-C-0-1.5	Total/NA	Solid	D 2216	
320-97305-126	DU-6-SW-D-0-1.5	Total/NA	Solid	D 2216	
320-97305-127	DU-6-SW-E-0-1.5	Total/NA	Solid	D 2216	
320-97305-128	DU-6-SW-F-0-1.5	Total/NA	Solid	D 2216	
320-97305-129	DU-6-SW-G-0-1.5	Total/NA	Solid	D 2216	
320-97305-130	DU-6-SW-H-0-1.5	Total/NA	Solid	D 2216	
320-97305-131	DU-6-SW-I-0-1.5	Total/NA	Solid	D 2216	
320-97305-132	DU-6-SW-J-0-1.5	Total/NA	Solid	D 2216	
320-97305-167	DU-6-NW-A-0-1.5	Total/NA	Solid	D 2216	

Eurofins Sacramento

QC Association Summary

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

General Chemistry (Continued)

Analysis Batch: 669804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-168	DU-6-NW-B-0-1.5	Total/NA	Solid	D 2216	
320-97305-169	DU-6-NW-C-0-1.5	Total/NA	Solid	D 2216	
320-97305-170	DU-6-NW-D-0-1.5	Total/NA	Solid	D 2216	
320-97305-171	DU-6-NW-E-0-1.5	Total/NA	Solid	D 2216	
320-97305-172	DU-6-NW-F-0-1.5	Total/NA	Solid	D 2216	
320-97305-173	DU-6-NW-G-0-1.5	Total/NA	Solid	D 2216	
320-97305-66 DU	DU-5-NE-J-0-1.5	Total/NA	Solid	D 2216	

Analysis Batch: 669812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-97305-174	DU-6-NW-H-0-1.5	Total/NA	Solid	D 2216	
320-97305-175	DU-6-NW-I-0-1.5	Total/NA	Solid	D 2216	
320-97305-176	DU-6-NW-J-0-1.5	Total/NA	Solid	D 2216	
320-97305-174 DU	DU-6-NW-H-0-1.5	Total/NA	Solid	D 2216	



Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE--A-0-1.5

Lab Sample ID: 320-97305-2

Date Collected: 02/21/23 14:35

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.43 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677287	05/24/23 11:18	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.43 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676099	05/20/23 06:14	JBC	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-SE-B-0-1.5

Lab Sample ID: 320-97305-3

Date Collected: 02/21/23 14:50

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.41 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677287	05/24/23 12:01	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.41 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676099	05/20/23 07:02	JBC	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-SE-C-0-1.5

Lab Sample ID: 320-97305-4

Date Collected: 02/21/23 15:20

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.37 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677287	05/24/23 12:46	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.37 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676099	05/20/23 07:49	JBC	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-SE-D-0-1.5

Lab Sample ID: 320-97305-5

Date Collected: 02/21/23 15:10

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.40 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677287	05/24/23 13:28	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.40 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676099	05/20/23 08:37	JBC	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-E-0-1.5

Lab Sample ID: 320-97305-6

Date Collected: 02/21/23 15:30

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.30 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	677130	05/23/23 23:24	KSS	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-SE-F-0-1.5

Lab Sample ID: 320-97305-7

Date Collected: 02/21/23 15:40

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.24 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676099	05/20/23 10:12	JBC	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-SE-G-0-1.5

Lab Sample ID: 320-97305-8

Date Collected: 02/21/23 15:50

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.08 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676099	05/20/23 11:00	JBC	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-SE-H-0-1.5

Lab Sample ID: 320-97305-9

Date Collected: 02/21/23 16:00

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.37 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676099	05/20/23 11:47	JBC	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-SE-I-0-1.5

Lab Sample ID: 320-97305-10

Date Collected: 02/21/23 16:10

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.278 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677287	05/24/23 14:11	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.278 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676099	05/20/23 12:35	JBC	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-SE-J-0-1.5

Lab Sample ID: 320-97305-11

Date Collected: 02/21/23 16:20

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.10 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677449	05/24/23 18:30	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.10 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676100	05/20/23 15:54	DB	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-NE-A-0-1.5

Lab Sample ID: 320-97305-57

Date Collected: 02/22/23 08:40

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.69 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677449	05/24/23 19:13	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.69 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	677130	05/24/23 00:12	KSS	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-NE-B-0-1.5

Lab Sample ID: 320-97305-58

Date Collected: 02/22/23 08:50

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.61 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677449	05/24/23 19:56	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.61 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676100	05/20/23 17:30	DB	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-NE-C-0-1.5

Lab Sample ID: 320-97305-59

Date Collected: 02/22/23 09:00

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.50 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677449	05/24/23 20:39	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.50 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676100	05/20/23 18:17	DB	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-D-0-1.5

Lab Sample ID: 320-97305-60

Date Collected: 02/22/23 09:10

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.02 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677449	05/24/23 21:23	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.02 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676100	05/20/23 19:05	DB	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-NE-E-0-1.5

Lab Sample ID: 320-97305-61

Date Collected: 02/22/23 09:20

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.50 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677449	05/24/23 22:06	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.50 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676100	05/20/23 19:52	DB	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-NE-F-0-1.5

Lab Sample ID: 320-97305-62

Date Collected: 02/22/23 09:30

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.61 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677449	05/24/23 22:49	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.61 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676100	05/20/23 20:40	DB	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-NE-G-0-1.5

Lab Sample ID: 320-97305-63

Date Collected: 02/22/23 09:40

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.72 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677449	05/24/23 23:32	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.72 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676100	05/20/23 21:27	DB	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-5-NE-H-0-1.5

Lab Sample ID: 320-97305-64

Date Collected: 02/22/23 09:50

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.49 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677449	05/25/23 00:15	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.49 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676100	05/20/23 22:15	DB	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Client Sample ID: DU-5-NE-I-0-1.5

Lab Sample ID: 320-97305-65

Date Collected: 02/22/23 10:00

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.83 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	678178	05/26/23 15:46	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.83 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676100	05/20/23 23:03	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-5-NE-J-0-1.5

Lab Sample ID: 320-97305-66

Date Collected: 02/22/23 10:10

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.72 g	20.0 uL	670006	04/25/23 10:56	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	677130	05/24/23 00:59	KSS	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-SW-A-0-1.5

Lab Sample ID: 320-97305-123

Date Collected: 02/22/23 13:40

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.38 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	676782	05/22/23 14:01	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.38 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676629	05/21/23 04:45	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-SW-B-0-1.5

Lab Sample ID: 320-97305-124

Date Collected: 02/22/23 13:50

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.77 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	676782	05/22/23 14:44	DB	EET SAC

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-B-0-1.5

Lab Sample ID: 320-97305-124

Date Collected: 02/22/23 13:50

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.77 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676629	05/21/23 05:32	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-SW-C-0-1.5

Lab Sample ID: 320-97305-125

Date Collected: 02/22/23 14:00

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.57 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	676782	05/22/23 15:27	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.57 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676629	05/21/23 06:20	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-SW-D-0-1.5

Lab Sample ID: 320-97305-126

Date Collected: 02/22/23 14:10

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.85 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	676782	05/22/23 16:11	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.85 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676629	05/21/23 07:08	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-SW-E-0-1.5

Lab Sample ID: 320-97305-127

Date Collected: 02/22/23 14:20

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.24 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	676782	05/22/23 16:54	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.24 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676629	05/21/23 07:55	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-SW-F-0-1.5

Lab Sample ID: 320-97305-128

Date Collected: 02/22/23 14:30

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.75 g	33.3 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	676782	05/22/23 17:37	DB	EET SAC

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-F-0-1.5

Lab Sample ID: 320-97305-128

Date Collected: 02/22/23 14:30

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.75 g	33.3 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676629	05/21/23 08:43	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-SW-G-0-1.5

Lab Sample ID: 320-97305-129

Date Collected: 02/22/23 14:40

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.91 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	676782	05/22/23 18:20	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.91 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676629	05/21/23 09:30	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-SW-H-0-1.5

Lab Sample ID: 320-97305-130

Date Collected: 02/22/23 14:50

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.16 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	676782	05/22/23 19:03	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.16 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676629	05/21/23 10:18	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-SW-I-0-1.5

Lab Sample ID: 320-97305-131

Date Collected: 02/22/23 15:00

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.25 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677005	05/23/23 13:57	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.25 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676629	05/21/23 11:05	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-SW-J-0-1.5

Lab Sample ID: 320-97305-132

Date Collected: 02/22/23 15:10

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.15 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	676782	05/22/23 20:30	DB	EET SAC

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-SW-J-0-1.5

Lab Sample ID: 320-97305-132

Date Collected: 02/22/23 15:10

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.15 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676630	05/21/23 17:35	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-NW-A-0-1.5

Lab Sample ID: 320-97305-167

Date Collected: 02/22/23 10:55

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.31 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	676782	05/22/23 21:13	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.31 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676630	05/21/23 18:23	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-NW-B-0-1.5

Lab Sample ID: 320-97305-168

Date Collected: 02/22/23 11:05

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.52 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676630	05/21/23 19:10	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-NW-C-0-1.5

Lab Sample ID: 320-97305-169

Date Collected: 02/22/23 11:15

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.21 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677005	05/23/23 13:15	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.21 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676630	05/21/23 19:58	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-NW-D-0-1.5

Lab Sample ID: 320-97305-170

Date Collected: 02/22/23 11:25

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.16 g	33.3 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677005	05/23/23 14:40	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.16 g	33.3 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676630	05/21/23 20:46	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Eurofins Sacramento

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-E-0-1.5

Lab Sample ID: 320-97305-171

Date Collected: 02/22/23 11:35

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.22 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	677005	05/23/23 15:23	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.22 g	20.0 uL	670010	04/25/23 11:08	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	676630	05/21/23 21:33	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-NW-F-0-1.5

Lab Sample ID: 320-97305-172

Date Collected: 02/22/23 11:45

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.10 g	20.0 uL	670221	04/26/23 09:34	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	674813	05/15/23 13:47	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.10 g	20.0 uL	670221	04/26/23 09:34	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	675114	05/16/23 21:52	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-NW-G-0-1.5

Lab Sample ID: 320-97305-173

Date Collected: 02/22/23 11:55

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.48 g	20.0 uL	670221	04/26/23 09:34	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	674813	05/15/23 14:30	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.48 g	20.0 uL	670221	04/26/23 09:34	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	675114	05/16/23 22:39	DB	EET SAC
Total/NA	Analysis	D 2216		1			669804	04/24/23 15:14	CFR	EET SAC

Client Sample ID: DU-6-NW-H-0-1.5

Lab Sample ID: 320-97305-174

Date Collected: 02/22/23 12:05

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.76 g	20.0 uL	670221	04/26/23 09:34	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	674813	05/15/23 15:14	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.76 g	20.0 uL	670221	04/26/23 09:34	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	675114	05/16/23 23:27	DB	EET SAC
Total/NA	Analysis	D 2216		1			669812	04/24/23 15:46	CFR	EET SAC

Lab Chronicle

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Client Sample ID: DU-6-NW-I-0-1.5

Lab Sample ID: 320-97305-175

Date Collected: 02/22/23 12:15

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox	RA		10.53 g	20.0 uL	670221	04/26/23 09:34	CB	EET SAC
Total/NA	Analysis	1613B	RA	1	1 uL	1 uL	674813	05/15/23 15:57	DB	EET SAC
Total/NA	Prep	HRMS-Sox			10.53 g	20.0 uL	670221	04/26/23 09:34	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	675114	05/17/23 00:14	DB	EET SAC
Total/NA	Analysis	D 2216		1			669812	04/24/23 15:46	CFR	EET SAC

Client Sample ID: DU-6-NW-J-0-1.5

Lab Sample ID: 320-97305-176

Date Collected: 02/22/23 12:25

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.17 g	20.0 uL	670221	04/26/23 09:34	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	675114	05/17/23 01:02	DB	EET SAC
Total/NA	Analysis	D 2216		1			669812	04/24/23 15:46	CFR	EET SAC

Client Sample ID: SB-08-3-6

Lab Sample ID: 320-97305-188

Date Collected: 02/23/23 13:00

Matrix: Solid

Date Received: 03/02/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			10.75 g	20.0 uL	670221	04/26/23 09:34	CB	EET SAC
Total/NA	Analysis	1613B		1	1 Sample	1 Sample	675114	05/17/23 01:50	DB	EET SAC
Total/NA	Analysis	D 2216		1			669753	04/24/23 13:53	CFR	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Laboratory: Eurofins Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4040	01-29-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
D 2216		Solid	Percent Moisture

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Method Summary

Client: Stantec Consulting Corporation
Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Method	Method Description	Protocol	Laboratory
1613B	Dioxins and Furans (HRGC/HRMS)	EPA	EET SAC
D 2216	Percent Moisture	ASTM	EET SAC
HRMS-Sox	Soxhlet Extraction	EPA	EET SAC

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: Stantec Consulting Corporation
 Project/Site: Ko'Kwel Wharf Property

Job ID: 320-97305-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-97305-2	DU-5-SE--A-0-1.5	Solid	02/21/23 14:35	03/02/23 09:20
320-97305-3	DU-5-SE-B-0-1.5	Solid	02/21/23 14:50	03/02/23 09:20
320-97305-4	DU-5-SE-C-0-1.5	Solid	02/21/23 15:20	03/02/23 09:20
320-97305-5	DU-5-SE-D-0-1.5	Solid	02/21/23 15:10	03/02/23 09:20
320-97305-6	DU-5-SE-E-0-1.5	Solid	02/21/23 15:30	03/02/23 09:20
320-97305-7	DU-5-SE-F-0-1.5	Solid	02/21/23 15:40	03/02/23 09:20
320-97305-8	DU-5-SE-G-0-1.5	Solid	02/21/23 15:50	03/02/23 09:20
320-97305-9	DU-5-SE-H-0-1.5	Solid	02/21/23 16:00	03/02/23 09:20
320-97305-10	DU-5-SE-I-0-1.5	Solid	02/21/23 16:10	03/02/23 09:20
320-97305-11	DU-5-SE-J-0-1.5	Solid	02/21/23 16:20	03/02/23 09:20
320-97305-57	DU-5-NE-A-0-1.5	Solid	02/22/23 08:40	03/02/23 09:20
320-97305-58	DU-5-NE-B-0-1.5	Solid	02/22/23 08:50	03/02/23 09:20
320-97305-59	DU-5-NE-C-0-1.5	Solid	02/22/23 09:00	03/02/23 09:20
320-97305-60	DU-5-NE-D-0-1.5	Solid	02/22/23 09:10	03/02/23 09:20
320-97305-61	DU-5-NE-E-0-1.5	Solid	02/22/23 09:20	03/02/23 09:20
320-97305-62	DU-5-NE-F-0-1.5	Solid	02/22/23 09:30	03/02/23 09:20
320-97305-63	DU-5-NE-G-0-1.5	Solid	02/22/23 09:40	03/02/23 09:20
320-97305-64	DU-5-NE-H-0-1.5	Solid	02/22/23 09:50	03/02/23 09:20
320-97305-65	DU-5-NE-I-0-1.5	Solid	02/22/23 10:00	03/02/23 09:20
320-97305-66	DU-5-NE-J-0-1.5	Solid	02/22/23 10:10	03/02/23 09:20
320-97305-123	DU-6-SW-A-0-1.5	Solid	02/22/23 13:40	03/02/23 09:20
320-97305-124	DU-6-SW-B-0-1.5	Solid	02/22/23 13:50	03/02/23 09:20
320-97305-125	DU-6-SW-C-0-1.5	Solid	02/22/23 14:00	03/02/23 09:20
320-97305-126	DU-6-SW-D-0-1.5	Solid	02/22/23 14:10	03/02/23 09:20
320-97305-127	DU-6-SW-E-0-1.5	Solid	02/22/23 14:20	03/02/23 09:20
320-97305-128	DU-6-SW-F-0-1.5	Solid	02/22/23 14:30	03/02/23 09:20
320-97305-129	DU-6-SW-G-0-1.5	Solid	02/22/23 14:40	03/02/23 09:20
320-97305-130	DU-6-SW-H-0-1.5	Solid	02/22/23 14:50	03/02/23 09:20
320-97305-131	DU-6-SW-I-0-1.5	Solid	02/22/23 15:00	03/02/23 09:20
320-97305-132	DU-6-SW-J-0-1.5	Solid	02/22/23 15:10	03/02/23 09:20
320-97305-167	DU-6-NW-A-0-1.5	Solid	02/22/23 10:55	03/02/23 09:20
320-97305-168	DU-6-NW-B-0-1.5	Solid	02/22/23 11:05	03/02/23 09:20
320-97305-169	DU-6-NW-C-0-1.5	Solid	02/22/23 11:15	03/02/23 09:20
320-97305-170	DU-6-NW-D-0-1.5	Solid	02/22/23 11:25	03/02/23 09:20
320-97305-171	DU-6-NW-E-0-1.5	Solid	02/22/23 11:35	03/02/23 09:20
320-97305-172	DU-6-NW-F-0-1.5	Solid	02/22/23 11:45	03/02/23 09:20
320-97305-173	DU-6-NW-G-0-1.5	Solid	02/22/23 11:55	03/02/23 09:20
320-97305-174	DU-6-NW-H-0-1.5	Solid	02/22/23 12:05	03/02/23 09:20
320-97305-175	DU-6-NW-I-0-1.5	Solid	02/22/23 12:15	03/02/23 09:20
320-97305-176	DU-6-NW-J-0-1.5	Solid	02/22/23 12:25	03/02/23 09:20
320-97305-188	SB-08-3-6	Solid	02/23/23 13:00	03/02/23 09:20



Afsaneh Salimpour

From: Von Raesfeld, Sarah <sarah.vonraesfeld@stantec.com>
Sent: Monday, April 24, 2023 12:20 PM
To: Afsaneh Salimpour
Subject: RE: Eurofins Environment Testing Northern California, LLC sample confirmation files from 320-97305-2 Ko'Kwel Wharf Property

EXTERNAL EMAIL*

Hi Afsaneh,

Please cancel analysis of these samples:

Lab Sample #	Client Sample ID
320-97305-35	DU-5-SW-A-0-1.5
320-97305-36	DU-5-SW-B-0-1.5
320-97305-37	DU-5-SW-C-0-1.5
320-97305-38	DU-5-SW-D-0-1.5
320-97305-39	DU-5-SW-E-0-1.5
320-97305-40	DU-5-SW-F-0-1.5
320-97305-41	DU-5-SW-G-0-1.5
320-97305-42	DU-5-SW-H-0-1.5
320-97305-43	DU-5-SW-I-0-1.5
320-97305-44	DU-5-SW-J-0-1.5
320-97305-68	DU-5-NW-A-0-1.5
320-97305-69	DU-5-NW-B-0-1.5
320-97305-70	DU-5-NW-C-0-1.5
320-97305-71	DU-5-NW-D-0-1.5
320-97305-72	DU-5-NW-E-0-1.5
320-97305-73	DU-5-NW-F-0-1.5
320-97305-74	DU-5-NW-G-0-1.5
320-97305-75	DU-5-NW-H-0-1.5
320-97305-76	DU-5-NW-I-0-1.5
320-97305-77	DU-5-NW-J-0-1.5

And analyze dioxins by 1613B in these samples:

Lab Sample #	Client Sample ID
320-97305-123	DU-6-SW-A-0-1.5
320-97305-124	DU-6-SW-B-0-1.5
320-97305-125	DU-6-SW-C-0-1.5
320-97305-126	DU-6-SW-D-0-1.5
320-97305-127	DU-6-SW-E-0-1.5
320-97305-128	DU-6-SW-F-0-1.5
320-97305-129	DU-6-SW-G-0-1.5
320-97305-130	DU-6-SW-H-0-1.5

320-97305-131	DU-6-SW-I-0-1.5
320-97305-132	DU-6-SW-J-0-1.5
320-97305-167	DU-6-NW-A-0-1.5
320-97305-168	DU-6-NW-B-0-1.5
320-97305-169	DU-6-NW-C-0-1.5
320-97305-170	DU-6-NW-D-0-1.5
320-97305-171	DU-6-NW-E-0-1.5
320-97305-172	DU-6-NW-F-0-1.5
320-97305-173	DU-6-NW-G-0-1.5
320-97305-174	DU-6-NW-H-0-1.5
320-97305-175	DU-6-NW-I-0-1.5
320-97305-176	DU-6-NW-J-0-1.5

From: Afsaneh Salimpour <Afsaneh.Salimpour@et.eurofinsus.com>
Sent: Monday, April 24, 2023 9:05 AM
To: Janney, Paul <Paul.Janney@stantec.com>; Von Raesfeld, Sarah <sarah.vonraesfeld@stantec.com>
Subject: Eurofins Environment Testing Northern California, LLC sample confirmation files from 320-97305-2 Ko'Kwel Wharf Property

Hello,

Attached please find the sample confirmation files for job 320-97305-2; Ko'Kwel Wharf Property

Please feel free to contact me if you have any questions.

Thank you.

Afsaneh F Salimpour
Project Manager

Eurofins Sacramento
Phone: 925-484-1919
Mobile: 925-212-8723

E-mail: Afsaneh.Salimpour@et.eurofinsus.com
www.eurofinsus.com/env



Reference: [320-524446]
Attachments: 3

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Atención: Este correo electrónico proviene de fuera de Stantec. Por favor, tome precauciones adicionales.

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Afsaneh Salimpour

From: Von Raesfeld, Sarah <sarah.vonraesfeld@stantec.com>
Sent: Friday, April 21, 2023 7:56 AM
To: Afsaneh Salimpour
Subject: Ko'Kwel hold samples

EXTERNAL EMAIL*

Good morning Afsaneh,

Please analyze the following hold samples for dioxins by 1613B:

Lab Sample #	Client Sample ID
320-97305-2	DU-5-SE--A-0-1.5
320-97305-3	DU-5-SE-B-0-1.5
320-97305-4	DU-5-SE-C-0-1.5
320-97305-5	DU-5-SE-D-0-1.5
320-97305-6	DU-5-SE-E-0-1.5
320-97305-7	DU-5-SE-F-0-1.5
320-97305-8	DU-5-SE-G-0-1.5
320-97305-9	DU-5-SE-H-0-1.5
320-97305-10	DU-5-SE-I-0-1.5
320-97305-11	DU-5-SE-J-0-1.5
320-97305-35	DU-5-SW-A-0-1.5
320-97305-36	DU-5-SW-B-0-1.5
320-97305-37	DU-5-SW-C-0-1.5
320-97305-38	DU-5-SW-D-0-1.5
320-97305-39	DU-5-SW-E-0-1.5
320-97305-40	DU-5-SW-F-0-1.5
320-97305-41	DU-5-SW-G-0-1.5
320-97305-42	DU-5-SW-H-0-1.5
320-97305-43	DU-5-SW-I-0-1.5
320-97305-44	DU-5-SW-J-0-1.5
320-97305-57	DU-5-NE-A-0-1.5
320-97305-58	DU-5-NE-B-0-1.5
320-97305-59	DU-5-NE-C-0-1.5
320-97305-60	DU-5-NE-D-0-1.5
320-97305-61	DU-5-NE-E-0-1.5
320-97305-62	DU-5-NE-F-0-1.5
320-97305-63	DU-5-NE-G-0-1.5
320-97305-64	DU-5-NE-H-0-1.5
320-97305-65	DU-5-NE-I-0-1.5
320-97305-66	DU-5-NE-J-0-1.5
320-97305-68	DU-5-NW-A-0-1.5
320-97305-69	DU-5-NW-B-0-1.5
320-97305-70	DU-5-NW-C-0-1.5

320-97305-71	DU-5-NW-D-0-1.5
320-97305-72	DU-5-NW-E-0-1.5
320-97305-73	DU-5-NW-F-0-1.5
320-97305-74	DU-5-NW-G-0-1.5
320-97305-75	DU-5-NW-H-0-1.5
320-97305-76	DU-5-NW-I-0-1.5
320-97305-77	DU-5-NW-J-0-1.5
320-97305-188	SB-08-3-6

Thanks,
Sarah



Sarah Von Raesfeld
Project Chemist

1340 Treat Blvd. Suite 525
Walnut Creek, CA 94597
Direct: (925) 627-4654
Cell: (925) 451-9870
sarah.vonraesfeld@stantec.com

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Login Sample Receipt Checklist

Client: Stantec Consulting Corporation

Job Number: 320-97305-2

Login Number: 97305

List Source: Eurofins Sacramento

List Number: 1

Creator: Oropeza, Salvador

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Appendix C DATA VALIDATION REPORT



DATA VALIDATION SUMMARY REPORT

GENERAL INFORMATION:

Lab Name:	Eurofins TestAmerica – West Sacramento, CA
Lab SDG/Project/Work Order:	320-97305-1
Project Name:	Ko 'Kwel Wharf Property Tremont Street, North Bend, Oregon
Stantec Project Number:	185751418
Client:	MEDC Brownfield Grant
Validator Name:	Sarah Von Raesfeld
Date of Validation:	April 14, 2023

SAMPLE INFORMATION:

Number of Samples:	28
Matrix:	27 Soil; 1 QC Water
Number of Trip Blanks:	0
Number of Equipment Blanks:	1
Number of Field Duplicates:	1
Date of Sample Collection:	February 21-23, 2023

<u>Sample Name:</u>	<u>Lab Sample ID</u>	<u>Sample Name:</u>	<u>Lab Sample ID</u>
DU-5-SE-0-1.5	320-97305-1	DU-6-NW-1.5-3	320-97305-155
DU-5-SE-1.5-3	320-97305-12	DU-6-NW-0-1.5	320-97305-166
DU-5-SW-1.5-3	320-97305-23	SB-08-N-0-1.5	320-97305-177
DU-5-SW-0-1.5	320-97305-34	SB-08-N-1.5-3	320-97305-178
DU-5-NE-1.5-3	320-97305-45	SB-08-S-1-1.5	320-97305-179
DU-5-NE-0-1.5	320-97305-56	SB-08-S-1.5-3	320-97305-180
DU-5-NW-0-1.5	320-97305-67	SB-08-W-0-1.5	320-97305-181
DU-5-NW-1.5-3	320-97305-78	SB-08-W-1.5-3	320-97305-182
DU-6-SE-1.5-3	320-97305-89	SB-08-E-0-1.5	320-97305-183
DU-6-SE-0-1.5	320-97305-100	SB-08-E-1.5-3	320-97305-184
DU-6-SW-1.5-3	320-97305-111	EB-20230223	320-97305-185
DU-6-SW-0-1.5	320-97305-122	SB-08-0-1.5	320-97305-186
DU-6-NE-0-1.5	320-97305-133	SB-08-1.5-3	320-97305-187
DU-6-NE-1.5-3	320-97305-144	DU-5-X	320-97305-193

GENERAL DATA VALIDATION:

Case Narrative: The laboratory did not identify any non-conformances in the case narrative.
Chain of Custody: The COCs were complete, and all samples were analyzed as requested.

<u>Holding Times:</u> All samples were analyzed within holding times.
<u>Trip Blank Review:</u> There were no trip blanks analyzed.
<u>Equipment Blank Review:</u> Six dioxin/furans were detected in equipment blank sample EB-20230223. All six of the analytes were qualified as non-detect in EB-20230223 due to associated method blank detections; no soil samples were qualified.
<u>Surrogates:</u> Recovery of the isotope dilution 13C-1,2,3,4,6,7,8-HpCDF was below the laboratory limits for sample SB-08-E-0-1.5. The result was qualified as estimated (J).
<u>Elevated Reporting Limits:</u> The following samples were diluted due to the nature of the sample matrix: DU-5-NE-1.5-3, DU-5-NE-0-1.5, DU-6-SW-1.5-3, DU-6-SW-0-1.5, DU-6-NW-0-1.5 and SB-08-E-0-1.5 (320-97305-183).
<u>Additional Items:</u> The concentration of OCDD exceeded the instrument calibration range in sample SB-08-1.5-3, the result was qualified as estimated (J). Results reported as Estimated Maximum Potential Concentrations by the laboratory were qualified as estimated (J).

PER ANALYSIS:

Dioxins and Furans, Method 1613B (Batches 661244, 661996, and 662426)
Method Blanks: Eight analytes were detected in the laboratory method blank for aqueous batch 661244. All detections in the associated sample, EB-20230223 were qualified as not detected (U) and the non-detect value was elevated to the reporting limit. Six analytes were detected in both laboratory method blanks for batches 661996 and 662426. Associated samples with the affected analytes detected between the MDL and RL were qualified as not detected (U) and the non-detect value was elevated to the reporting limit. Associated sample results that were detected at similar concentrations as the method blank were qualified as estimated (J). The remaining affected analytes were either not detected, or were detected at significantly higher concentrations, and therefore were not qualified.
Laboratory Control Sample: All LCS percent recoveries were within acceptance limits.
Matrix Spike/Matrix Spike Duplicate: A project sample was not analyzed as the MS/MSD.
Laboratory Duplicate: No laboratory duplicates were analyzed.

FIELD REPLICATE REVIEW: One field duplicate pair were collected, sample DU-5-X is a duplicate of sample DU-5-SW-1.5-3. RPDs are calculated between the results of the original and field duplicate samples for constituents detected in both samples at concentrations exceeding five-times their respective MRLs. All calculated RPDs met the project limit of 50%.

DETERMINATION:

The data in this work order have been validated, all data are usable as qualified.

<u>Sample Name</u>	<u>Method</u>	<u>Analyte</u>	<u>Original Result</u>	<u>Validated Result</u>	<u>Units</u>	<u>Reason Code</u>
DU-5-NE-1.5-3	E1613	2,3,4,6,7,8-HxCDF	1.6 J q	1.6 J	pg/g	19g
DU-5-NW-0-1.5	E1613	1,2,3,4,7,8-HxCDD	1.5 J q	1.5 J	pg/g	19g
DU-5-NW-0-1.5	E1613	1,2,3,7,8,9-HxCDF	0.46 J q	0.46 J	pg/g	19g
DU-5-NW-0-1.5	E1613	OCDF	82 J B	82 J	pg/g	07a
DU-5-NW-1.5-3	E1613	1,2,3,4,7,8,9-HpCDF	3.1 J q	3.1 J	pg/g	19g
DU-5-NW-1.5-3	E1613	1,2,3,4,7,8-HxCDD	2.7 J q	2.7 J	pg/g	19g
DU-5-NW-1.5-3	E1613	1,2,3,7,8-PeCDD	1.1 J q	1.1 J	pg/g	19g
DU-5-NW-1.5-3	E1613	1,2,3,7,8-PeCDF	2 J q	2 J	pg/g	19g
DU-5-SE-0-1.5	E1613	1,2,3,7,8-PeCDD	2.5 J q	2.5 J	pg/g	19g
DU-5-SE-0-1.5	E1613	2,3,4,6,7,8-HxCDF	4.0 J q	4.0 J	pg/g	19g
DU-5-SE-0-1.5	E1613	2,3,4,7,8-PeCDF	2.0 J q	2.0 J	pg/g	19g
DU-5-SE-1.5-3	E1613	1,2,3,6,7,8-HxCDF	3.0 J q	3.0 J	pg/g	19g
DU-5-SE-1.5-3	E1613	1,2,3,7,8-PeCDF	3.6 J q	3.6 J	pg/g	19g
DU-5-SE-1.5-3	E1613	2,3,4,6,7,8-HxCDF	2.1 J q	2.1 J	pg/g	19g
DU-5-SW-0-1.5	E1613	OCDF	15 J B	15 J	pg/g	07a
DU-5-SW-1.5-3	E1613	1,2,3,7,8,9-HxCDD	3.1 J q	3.1 J	pg/g	19g
DU-5-SW-1.5-3	E1613	1,2,3,7,8,9-HxCDF	0.39 J q	0.39 J	pg/g	19g
DU-5-SW-1.5-3	E1613	1,2,3,7,8-PeCDD	0.74 J q	0.74 J	pg/g	19g
DU-5-X	E1613	1,2,3,4,7,8-HxCDD	1.2 J q	1.2 J	pg/g	19g
DU-5-X	E1613	1,2,3,7,8,9-HxCDF	0.43 J q	0.43 J	pg/g	19g
DU-5-X	E1613	2,3,4,6,7,8-HxCDF	1 J q	1 J	pg/g	19g
DU-6-NE-0-1.5	E1613	1,2,3,4,7,8,9-HpCDF	1.5 J q	1.5 J	pg/g	19g
DU-6-NE-0-1.5	E1613	2,3,4,7,8-PeCDF	0.38 J q	0.38 J	pg/g	19g
DU-6-NE-0-1.5	E1613	OCDF	68 J B	68 J	pg/g	07a
DU-6-NE-1.5-3	E1613	1,2,3,7,8-PeCDF	0.43 J q	0.43 J	pg/g	19g
DU-6-NW-0-1.5	E1613	1,2,3,7,8-PeCDD	2.5 J q	2.5 J	pg/g	19g
DU-6-NW-0-1.5	E1613	1,2,3,7,8-PeCDF	1 J q	1 J	pg/g	19g
DU-6-NW-0-1.5	E1613	2,3,7,8-TCDD	0.9 J q	0.9 J	pg/g	19g
DU-6-NW-1.5-3	E1613	1,2,3,7,8-PeCDD	1.1 J q	1.1 J	pg/g	19g
DU-6-SE-0-1.5	E1613	1,2,3,6,7,8-HxCDF	0.71 J q	0.71 J	pg/g	19g
DU-6-SE-0-1.5	E1613	1,2,3,7,8,9-HxCDD	2.6 J q	2.6 J	pg/g	19g
DU-6-SE-0-1.5	E1613	1,2,3,7,8-PeCDD	0.49 J q	0.49 J	pg/g	19g
DU-6-SE-0-1.5	E1613	2,3,4,6,7,8-HxCDF	0.29 J q	0.29 J	pg/g	19g
DU-6-SE-1.5-3	E1613	1,2,3,4,7,8-HxCDD	0.6 J q	0.6 J	pg/g	19g
DU-6-SE-1.5-3	E1613	1,2,3,6,7,8-HxCDD	1.1 J q	1.1 J	pg/g	19g
DU-6-SE-1.5-3	E1613	1,2,3,7,8,9-HxCDD	0.88 J q	0.88 J	pg/g	19g
DU-6-SE-1.5-3	E1613	OCDF	34 J B	34 J	pg/g	07a
DU-6-SW-0-1.5	E1613	1,2,3,4,7,8-HxCDF	4.6 J q	4.6 J	pg/g	19g
DU-6-SW-0-1.5	E1613	1,2,3,6,7,8-HxCDF	4.4 J q	4.4 J	pg/g	19g
DU-6-SW-1.5-3	E1613	1,2,3,6,7,8-HxCDF	1.2 J q	1.2 J	pg/g	19g
EB-20230223	E1613	1,2,3,4,6,7,8-HpCDD	6.6 J B	59 U	pg/l	07a
EB-20230223	E1613	1,2,3,4,6,7,8-HpCDF	2.9 J B q	59 U	pg/l	19g
EB-20230223	E1613	1,2,3,4,7,8-HxCDD	2.5 J B	59 U	pg/l	07a
EB-20230223	E1613	1,2,3,6,7,8-HxCDD	0.44 J B q	59 U	pg/l	19g
EB-20230223	E1613	OCDD	50 J B	120 U	pg/l	07a
EB-20230223	E1613	OCDF	8.8 J B q	120 U	pg/l	19g
SB-08-0-1.5	E1613	1,2,3,4,7,8,9-HpCDF	1.6 J q B	1.6 J	pg/g	19g
SB-08-0-1.5	E1613	1,2,3,7,8,9-HxCDD	5.4 q	5.4 J	pg/g	19g
SB-08-0-1.5	E1613	1,2,3,7,8-PeCDD	1.7 J q	1.7 J	pg/g	19g

<u>Sample Name</u>	<u>Method</u>	<u>Analyte</u>	<u>Original Result</u>	<u>Validated Result</u>	<u>Units</u>	<u>Reason Code</u>
SB-08-0-1.5	E1613	2,3,4,6,7,8-HxCDF	0.91 J q	0.91 J	pg/g	19g
SB-08-1.5-3	E1613	1,2,3,4,7,8,9-HpCDF	4.6 J B	4.6 J	pg/g	07a
SB-08-1.5-3	E1613	2,3,7,8-TCDD	0.83 J q	0.83 J	pg/g	19g
SB-08-1.5-3	E1613	OCDD	6300 E B	6300 J	pg/g	20a
SB-08-E-0-1.5	E1613	1,2,3,4,6,7,8-HpCDF	3.3 J B	3.3 J	pg/g	07a, 13b
SB-08-E-0-1.5	E1613	1,2,3,4,7,8-HxCDF	0.11 J q	0.11 J	pg/g	19g
SB-08-E-0-1.5	E1613	1,2,3,6,7,8-HxCDD	0.9 J q	0.9 J	pg/g	19g
SB-08-E-0-1.5	E1613	1,2,3,7,8,9-HxCDD	0.47 J q	0.47 J	pg/g	19g
SB-08-E-0-1.5	E1613	2,3,7,8-TCDD	0.067 J q	0.067 J	pg/g	19g
SB-08-E-0-1.5	E1613	OCDF	4.7 J B	4.7 J	pg/g	07a
SB-08-E-1.5-3	E1613	1,2,3,4,6,7,8-HpCDD	3.6 J B	3.6 J	pg/g	07a
SB-08-E-1.5-3	E1613	1,2,3,4,6,7,8-HpCDF	0.98 J B	0.98 J	pg/g	07a
SB-08-E-1.5-3	E1613	OCDF	2.4 J B	2.4 J	pg/g	07a
SB-08-N-0-1.5	E1613	1,2,3,4,6,7,8-HpCDF	0.59 J B	0.59 J	pg/g	07a
SB-08-N-0-1.5	E1613	1,2,3,4,7,8,9-HpCDF	0.25 J B	0.25 J	pg/g	07a
SB-08-N-0-1.5	E1613	1,2,3,6,7,8-HxCDD	0.35 J q	0.35 J	pg/g	19g
SB-08-N-0-1.5	E1613	1,2,3,7,8,9-HxCDD	0.28 J q	0.28 J	pg/g	19g
SB-08-N-0-1.5	E1613	1,2,3,7,8,9-HxCDF	0.22 J B q	0.22 J	pg/g	19g
SB-08-N-0-1.5	E1613	OCDF	2.1 J B q	2.1 J	pg/g	19g
SB-08-N-1.5-3	E1613	1,2,3,4,6,7,8-HpCDF	0.54 J q B	0.54 J	pg/g	19g
SB-08-N-1.5-3	E1613	1,2,3,4,7,8,9-HpCDF	0.068 J B	0.068 J	pg/g	07a
SB-08-N-1.5-3	E1613	1,2,3,4,7,8-HxCDD	0.16 J q	0.16 J	pg/g	19g
SB-08-N-1.5-3	E1613	1,2,3,6,7,8-HxCDD	0.33 J q	0.33 J	pg/g	19g
SB-08-N-1.5-3	E1613	1,2,3,7,8,9-HxCDF	0.062 J q B	0.062 J	pg/g	19g
SB-08-N-1.5-3	E1613	OCDF	0.81 J q B	0.81 J	pg/g	19g
SB-08-S-1.5-3	E1613	1,2,3,4,7,8,9-HpCDF	1.4 J B	1.4 J	pg/g	07a
SB-08-S-1.5-3	E1613	1,2,3,4,7,8-HxCDD	0.99 J q	0.99 J	pg/g	19g
SB-08-S-1.5-3	E1613	1,2,3,7,8,9-HxCDD	2.4 J q	2.4 J	pg/g	19g
SB-08-S-1-1.5	E1613	1,2,3,4,7,8,9-HpCDF	3.8 J B	3.8 J	pg/g	07a
SB-08-S-1-1.5	E1613	1,2,3,7,8,9-HxCDF	0.27 J B	0.27 J	pg/g	07a
SB-08-W-0-1.5	E1613	OCDD	18 J B q	18 J	pg/g	19g
SB-08-W-1.5-3	E1613	1,2,3,4,7,8,9-HpCDF	3.3 J B	3.3 J	pg/g	07a

Notes:

pg/g = picograms per gram
pg/l = picograms per liter

Reason Codes:

07a = Target parameter is detected in the associated method blank sample.
13b = Isotope dilution analyte percent recovery was less than the lower control limit.
19g = The reported result is an estimated maximum possible concentration.
20a = Reported result exceeds the calibration range of the instrument

NOTES:

Data validation assigned qualifiers (U, UJ, J, R). The following qualifiers may be assigned to data in this data set based on the results of the data validation procedure (documented on this form). In general data qualifiers are defined as follows:

- **U** Indicates the analyte was analyzed for, but was not detected above the reported sample quantitation limit (MRL, or MDL if reported). Results assigned this qualifier are considered undetected at the MRL, or MDL if reported.
- **UJ** Indicates the analyte was not detected above the quantitation limit or MRL (MDL, if reported); however, the MRL (MDL, if reported) is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. Results assigned this qualifier are considered undetected at the estimated MRL (MDL, if reported).
- **J** Indicates the analyte was positively identified; however, the associated numerical value is the approximate concentration of the analyte in the sample. Results assigned this qualifier are considered and detected at an estimated value. J-qualifiers may be appended with a "+" or "-" to indicate the result has a potential positive or negative bias, respectively.
- **R** Indicates the presence or absence of the analyte cannot be confirmed due to serious laboratory deficiencies in the ability to analyze the sample and meet quality control criteria. Results assigned this qualifier are rejected and considered unusable.

REFERENCES:

EPA. 2002. *Guidance on Environmental Data Verification and Data Validation, EPA QA/G-8*. USEPA. November 2002.

EPA. 2017a. United States Environmental Protection Agency (USEPA) *National Functional Guidelines for Inorganic Superfund Data Review, EPA-540-R-2017-001*. Office of Superfund Remediation and Technology Innovation (OSRTI). January.

EPA. 2017b. *USEPA National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-2017-002*. OSRTI. January.

Stantec, 2021. *Master Quality Assurance Project Plan (Revision 0) for Implementation of USEPA Brownfields Assessment Grants Mith-ih-kwuh Economic Development Corporation*. May.

DATA VALIDATION SUMMARY REPORT

GENERAL INFORMATION:

Lab Name:	APEX Laboratories
Lab SDG/Project/Work Order:	320-97305-2
Project Name:	Ko 'Kwel Wharf Property Tremont Street, North Bend, Oregon
Stantec Project Number:	185751418
Client:	MEDC Brownfield Grant
Validator Name:	Katie Doroski
Date of Validation:	June 1, 2023

SAMPLE INFORMATION:

Number of Samples:	41
Matrix:	Soil
Number of Trip Blanks:	0
Number of Equipment Blanks:	0
Number of Field Duplicates:	0
Number of Field Triplicates:	0
Date of Sample Collection:	February 21-23, 2023

<u>Sample Name:</u>	<u>Lab Sample ID</u>	<u>Sample Name:</u>	<u>Lab Sample ID</u>
DU-5-SE--A-0-1.5	320-97305-2	DU-6-SW-B-0-1.5	320-97305-124
DU-5-SE-B-0-1.5	320-97305-3	DU-6-SW-C-0-1.5	320-97305-125
DU-5-SE-C-0-1.5	320-97305-4	DU-6-SW-D-0-1.5	320-97305-126
DU-5-SE-D-0-1.5	320-97305-5	DU-6-SW-E-0-1.5	320-97305-127
DU-5-SE-E-0-1.5	320-97305-6	DU-6-SW-F-0-1.5	320-97305-128
DU-5-SE-F-0-1.5	320-97305-7	DU-6-SW-G-0-1.5	320-97305-129
DU-5-SE-G-0-1.5	320-97305-8	DU-6-SW-H-0-1.5	320-97305-130
DU-5-SE-H-0-1.5	320-97305-9	DU-6-SW-I-0-1.5	320-97305-131
DU-5-SE-I-0-1.5	320-97305-10	DU-6-SW-J-0-1.5	320-97305-132
DU-5-SE-J-0-1.5	320-97305-11	DU-6-NW-A-0-1.5	320-97305-167
DU-5-NE-A-0-1.5	320-97305-57	DU-6-NW-B-0-1.5	320-97305-168
DU-5-NE-B-0-1.5	320-97305-58	DU-6-NW-C-0-1.5	320-97305-169
DU-5-NE-C-0-1.5	320-97305-59	DU-6-NW-D-0-1.5	320-97305-170
DU-5-NE-D-0-1.5	320-97305-60	DU-6-NW-E-0-1.5	320-97305-171
DU-5-NE-E-0-1.5	320-97305-61	DU-6-NW-F-0-1.5	320-97305-172
DU-5-NE-F-0-1.5	320-97305-62	DU-6-NW-G-0-1.5	320-97305-173
DU-5-NE-G-0-1.5	320-97305-63	DU-6-NW-H-0-1.5	320-97305-174
DU-5-NE-H-0-1.5	320-97305-64	DU-6-NW-I-0-1.5	320-97305-175
DU-5-NE-I-0-1.5	320-97305-65	DU-6-NW-J-0-1.5	320-97305-176
DU-5-NE-J-0-1.5	320-97305-66	SB-08-3-6	320-97305-188
DU-6-SW-A-0-1.5	320-97305-123		

GENERAL DATA VALIDATION:

<u>Case Narrative:</u> The laboratory did not identify any non-conformances in the case narrative.
<u>Chain of Custody:</u> The COCs were complete, and all samples were analyzed as requested.
<u>Sample Receipt:</u> The samples were received within the acceptable temperature range of 0° - 6° C. No discrepancies were noted between the COCs and sample containers at the time of receipt.
<u>Holding Times:</u> All samples were analyzed within holding times.
<u>Trip Blank Review:</u> There were no trip blanks analyzed.
<u>Equipment Blank Review:</u> There were no equipment blanks analyzed.
<u>Surrogates:</u> Recovery of the isotope dilution 13C-1,2,3,4,7,8,9-HpCDF was below the laboratory limits for fifteen samples. Associated detections were qualified as estimated with a potential negative bias (J-) and non-detections were qualified as estimated non-detect (UJ). Recovery of the isotope dilution for 13C-1,2,3,6,7,8-HxCDF exceeded the laboratory limits or sample DU-5-SE-G-0-1.5. The sample had no detection of 1,2,3,6,7,8-HxCDF; no data was qualified. Recovery of the isotope dilution of OCDD was below the laboratory limits for sample DU-5-NE-J-0-1.5. OCDD was qualified as estimated with a potential negative bias (J-) in the sample.
<u>Elevated Reporting Limits:</u> No samples were diluted. The detection limit was elevated in twelve samples due to elevated noise or matrix interference.
<u>Additional Items:</u> None.

PER ANALYSIS:

Dioxins and Furans, Method 1613B (Batches 670006, 670010, and 670221)
<u>Method Blanks:</u> Detections of 15, 11, and 6 analytes were found in batches 67006, 670010, and 670221. One-hundred and seventy-seven results were qualified as non-detect (U) in the samples.
<u>Laboratory Control Sample:</u> All LCS percent recoveries were within acceptance limits.
<u>Matrix Spike/Matrix Spike Duplicate:</u> A project sample was not analyzed as the MS/MSD.
<u>Laboratory Duplicate:</u> No laboratory duplicates were analyzed.

FIELD REPLICATE REVIEW: No duplicates were collected.

DETERMINATION:

The data in this work order have been validated, all data are usable as qualified.

<u>Sample Name</u>	<u>Method</u>	<u>Analyte</u>	<u>Original Result</u>	<u>Validated Result</u>	<u>Units</u>	<u>Reason Code</u>
DU-5-SE--A-0-1.5	1613B	1,2,3,7,8-PeCDD	1.6	4.8 U	pg/g	07a
DU-5-SE--A-0-1.5	1613B	1,2,3,7,8-PeCDF	1.3	4.8 U	pg/g	07a
DU-5-SE--A-0-1.5	1613B	2,3,4,7,8-PeCDF	2.0	4.8 U	pg/g	07a
DU-5-SE--A-0-1.5	1613B	1,2,3,4,7,8-HxCDD	2.5	4.8 U	pg/g	07a
DU-5-SE--A-0-1.5	1613B	1,2,3,4,7,8-HxCDF	3.7	4.8 U	pg/g	07a
DU-5-SE--A-0-1.5	1613B	1,2,3,6,7,8-HxCDF	3.0	4.8 U	pg/g	07a
DU-5-SE--A-0-1.5	1613B	2,3,4,6,7,8-HxCDF	2.9	4.8 U	pg/g	07a
DU-5-SE--A-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	1.8	4.8 U	pg/g	07a
DU-5-SE-B-0-1.5	1613B	1,2,3,7,8-PeCDD	2.8	4.8 U	pg/g	07a
DU-5-SE-B-0-1.5	1613B	1,2,3,7,8-PeCDF	1.5	4.8 U	pg/g	07a
DU-5-SE-B-0-1.5	1613B	2,3,4,7,8-PeCDF	2.1	4.8 U	pg/g	07a
DU-5-SE-B-0-1.5	1613B	1,2,3,4,7,8-HxCDF	3.8	4.8 U	pg/g	07a
DU-5-SE-B-0-1.5	1613B	1,2,3,6,7,8-HxCDF	4.1	4.8 U	pg/g	07a
DU-5-SE-B-0-1.5	1613B	2,3,4,6,7,8-HxCDF	2.7	4.8 U	pg/g	07a
DU-5-SE-B-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	2.1	4.8 UJ	pg/g	07a, 13b
DU-5-SE-C-0-1.5	1613B	1,2,3,7,8-PeCDD	0.86	4.8 U	pg/g	07a
DU-5-SE-C-0-1.5	1613B	1,2,3,7,8-PeCDF	0.50	4.8 U	pg/g	07a
DU-5-SE-C-0-1.5	1613B	2,3,4,7,8-PeCDF	0.47	4.8 U	pg/g	07a
DU-5-SE-C-0-1.5	1613B	1,2,3,4,7,8-HxCDD	3.0	4.8 U	pg/g	07a
DU-5-SE-C-0-1.5	1613B	1,2,3,7,8,9-HxCDD	3.7	4.8 U	pg/g	07a
DU-5-SE-C-0-1.5	1613B	1,2,3,4,7,8-HxCDF	0.87	4.8 U	pg/g	07a
DU-5-SE-C-0-1.5	1613B	1,2,3,6,7,8-HxCDF	0.94	4.8 U	pg/g	07a
DU-5-SE-C-0-1.5	1613B	2,3,4,6,7,8-HxCDF	0.54	4.8 U	pg/g	07a
DU-5-SE-C-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	0.91 U	0.91 UJ	pg/g	13b
DU-5-SE-D-0-1.5	1613B	1,2,3,7,8-PeCDD	2.3	4.8 U	pg/g	07a
DU-5-SE-D-0-1.5	1613B	1,2,3,7,8-PeCDF	1.6	4.8 U	pg/g	07a
DU-5-SE-D-0-1.5	1613B	2,3,4,7,8-PeCDF	2.5	4.8 U	pg/g	07a
DU-5-SE-D-0-1.5	1613B	1,2,3,4,7,8-HxCDD	3.9	4.8 U	pg/g	07a
DU-5-SE-D-0-1.5	1613B	1,2,3,4,7,8-HxCDF	4.6	4.8 U	pg/g	07a
DU-5-SE-D-0-1.5	1613B	1,2,3,6,7,8-HxCDF	3.6	4.8 U	pg/g	07a
DU-5-SE-D-0-1.5	1613B	2,3,4,6,7,8-HxCDF	4.2	4.8 U	pg/g	07a
DU-5-SE-D-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	0.87 U	0.87 UJ	pg/g	13b
DU-5-SE-E-0-1.5	1613B	1,2,3,4,7,8-HxCDD	1.6	4.9 U	pg/g	07a
DU-5-SE-E-0-1.5	1613B	1,2,3,7,8,9-HxCDD	4.8	4.9 U	pg/g	07a
DU-5-SE-F-0-1.5	1613B	1,2,3,7,8-PeCDD	0.75	4.9 U	pg/g	07a
DU-5-SE-F-0-1.5	1613B	1,2,3,7,8-PeCDF	0.51	4.9 U	pg/g	07a
DU-5-SE-F-0-1.5	1613B	2,3,4,7,8-PeCDF	0.49	4.9 U	pg/g	07a
DU-5-SE-F-0-1.5	1613B	1,2,3,4,7,8-HxCDD	2.9	4.9 U	pg/g	07a
DU-5-SE-F-0-1.5	1613B	1,2,3,7,8,9-HxCDD	3.1	4.9 U	pg/g	07a
DU-5-SE-F-0-1.5	1613B	1,2,3,4,7,8-HxCDF	1.1	4.9 U	pg/g	07a
DU-5-SE-F-0-1.5	1613B	1,2,3,6,7,8-HxCDF	1.2	4.9 U	pg/g	07a
DU-5-SE-F-0-1.5	1613B	2,3,4,6,7,8-HxCDF	0.57	4.9 U	pg/g	07a
DU-5-SE-F-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	0.92 U	0.92 UJ	pg/g	13b
DU-5-SE-G-0-1.5	1613B	1,2,3,7,8-PeCDD	0.42	5.0 U	pg/g	07a
DU-5-SE-G-0-1.5	1613B	1,2,3,7,8-PeCDF	0.28	5.0 U	pg/g	07a
DU-5-SE-G-0-1.5	1613B	2,3,4,7,8-PeCDF	0.33	5.0 U	pg/g	07a
DU-5-SE-G-0-1.5	1613B	1,2,3,4,7,8-HxCDD	0.92	5.0 U	pg/g	07a
DU-5-SE-G-0-1.5	1613B	1,2,3,7,8,9-HxCDD	2.2	5.0 U	pg/g	07a
DU-5-SE-G-0-1.5	1613B	OCDF	6.6	9.9 U	pg/g	07a
DU-5-SE-H-0-1.5	1613B	1,2,3,7,8-PeCDD	0.45	4.8 U	pg/g	07a
DU-5-SE-H-0-1.5	1613B	1,2,3,7,8-PeCDF	0.27	4.8 U	pg/g	07a
DU-5-SE-H-0-1.5	1613B	2,3,4,7,8-PeCDF	0.28	4.8 U	pg/g	07a
DU-5-SE-H-0-1.5	1613B	1,2,3,4,7,8-HxCDD	0.79	4.8 U	pg/g	07a
DU-5-SE-H-0-1.5	1613B	1,2,3,7,8,9-HxCDD	1.9	4.8 U	pg/g	07a
DU-5-SE-H-0-1.5	1613B	1,2,3,6,7,8-HxCDF	0.38	4.8 U	pg/g	07a
DU-5-SE-H-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	0.89 U	0.89 UJ	pg/g	13b

<u>Sample Name</u>	<u>Method</u>	<u>Analyte</u>	<u>Original Result</u>	<u>Validated Result</u>	<u>Units</u>	<u>Reason Code</u>
DU-5-SE-I-0-1.5	1613B	1,2,3,7,8-PeCDD	3.9	4.9 U	pg/g	07a
DU-5-SE-I-0-1.5	1613B	1,2,3,7,8-PeCDF	2.7	4.9 U	pg/g	07a
DU-5-SE-I-0-1.5	1613B	2,3,4,7,8-PeCDF	2.7	4.9 U	pg/g	07a
DU-5-SE-I-0-1.5	1613B	1,2,3,6,7,8-HxCDF	4.3	4.9 U	pg/g	07a
DU-5-SE-I-0-1.5	1613B	1,2,3,7,8,9-HxCDF	0.73	4.9 U	pg/g	07a
DU-5-SE-I-0-1.5	1613B	2,3,4,6,7,8-HxCDF	2.7	4.9 U	pg/g	07a
DU-5-SE-J-0-1.5	1613B	1,2,3,7,8-PeCDD	1.4	5.0 U	pg/g	07a
DU-5-SE-J-0-1.5	1613B	1,2,3,7,8-PeCDF	1.4	5.0 U	pg/g	07a
DU-5-SE-J-0-1.5	1613B	2,3,4,7,8-PeCDF	1.8	5.0 U	pg/g	07a
DU-5-SE-J-0-1.5	1613B	1,2,3,4,7,8-HxCDD	3.6	5.0 U	pg/g	07a
DU-5-SE-J-0-1.5	1613B	1,2,3,4,7,8-HxCDF	3.2	5.0 U	pg/g	07a
DU-5-SE-J-0-1.5	1613B	1,2,3,6,7,8-HxCDF	2.4	5.0 U	pg/g	07a
DU-5-SE-J-0-1.5	1613B	2,3,4,6,7,8-HxCDF	3.1	5.0 U	pg/g	07a
DU-5-SE-J-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	2.1 U	2.1 UJ	pg/g	13b
DU-5-NE-A-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	9.5	9.5 J-	pg/g	13b
DU-5-NE-C-0-1.5	1613B	1,2,3,7,8-PeCDF	3.5	4.8 U	pg/g	07a
DU-5-NE-C-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	2.4 U	2.4 UJ	pg/g	13b
DU-5-NE-D-0-1.5	1613B	1,2,3,7,8-PeCDD	0.95	5.0 U	pg/g	07a
DU-5-NE-D-0-1.5	1613B	1,2,3,7,8-PeCDF	0.67	5.0 U	pg/g	07a
DU-5-NE-D-0-1.5	1613B	2,3,4,7,8-PeCDF	1.1	5.0 U	pg/g	07a
DU-5-NE-D-0-1.5	1613B	1,2,3,4,7,8-HxCDD	1.5	5.0 U	pg/g	07a
DU-5-NE-D-0-1.5	1613B	1,2,3,4,7,8-HxCDF	1.4	5.0 U	pg/g	07a
DU-5-NE-D-0-1.5	1613B	1,2,3,6,7,8-HxCDF	1.5	5.0 U	pg/g	07a
DU-5-NE-D-0-1.5	1613B	2,3,4,6,7,8-HxCDF	1.2	5.0 U	pg/g	07a
DU-5-NE-E-0-1.5	1613B	1,2,3,7,8-PeCDD	4.0	4.8 U	pg/g	07a
DU-5-NE-E-0-1.5	1613B	1,2,3,7,8-PeCDF	1.8	4.8 U	pg/g	07a
DU-5-NE-E-0-1.5	1613B	2,3,4,7,8-PeCDF	2.4	4.8 U	pg/g	07a
DU-5-NE-E-0-1.5	1613B	1,2,3,4,7,8-HxCDD	4.4	4.8 U	pg/g	07a
DU-5-NE-E-0-1.5	1613B	1,2,3,4,7,8-HxCDF	3.4	4.8 U	pg/g	07a
DU-5-NE-E-0-1.5	1613B	1,2,3,6,7,8-HxCDF	3.9	4.8 U	pg/g	07a
DU-5-NE-E-0-1.5	1613B	2,3,4,6,7,8-HxCDF	3.5	4.8 U	pg/g	07a
DU-5-NE-E-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	1.5	4.8 U	pg/g	07a
DU-5-NE-F-0-1.5	1613B	1,2,3,7,8-PeCDD	1.7	4.7 U	pg/g	07a
DU-5-NE-F-0-1.5	1613B	1,2,3,7,8-PeCDF	0.96	4.7 U	pg/g	07a
DU-5-NE-F-0-1.5	1613B	2,3,4,7,8-PeCDF	1.5	4.7 U	pg/g	07a
DU-5-NE-F-0-1.5	1613B	1,2,3,4,7,8-HxCDD	2.4	4.7 U	pg/g	07a
DU-5-NE-F-0-1.5	1613B	1,2,3,4,7,8-HxCDF	2.3	4.7 U	pg/g	07a
DU-5-NE-F-0-1.5	1613B	1,2,3,6,7,8-HxCDF	1.9	4.7 U	pg/g	07a
DU-5-NE-F-0-1.5	1613B	2,3,4,6,7,8-HxCDF	1.9	4.7 U	pg/g	07a
DU-5-NE-F-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	1.3	4.7 UJ	pg/g	07a, 13b
DU-5-NE-G-0-1.5	1613B	1,2,3,7,8-PeCDD	1.6	4.7 U	pg/g	07a
DU-5-NE-G-0-1.5	1613B	1,2,3,7,8-PeCDF	0.85	4.7 U	pg/g	07a
DU-5-NE-G-0-1.5	1613B	2,3,4,7,8-PeCDF	1.2	4.7 U	pg/g	07a
DU-5-NE-G-0-1.5	1613B	1,2,3,4,7,8-HxCDF	2.6	4.7 U	pg/g	07a
DU-5-NE-G-0-1.5	1613B	1,2,3,6,7,8-HxCDF	2.1	4.7 U	pg/g	07a
DU-5-NE-G-0-1.5	1613B	1,2,3,7,8,9-HxCDF	0.38	4.7 U	pg/g	07a
DU-5-NE-G-0-1.5	1613B	2,3,4,6,7,8-HxCDF	1.8	4.7 U	pg/g	07a
DU-5-NE-G-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	2.0	4.7 UJ	pg/g	07a, 13b
DU-5-NE-H-0-1.5	1613B	1,2,3,7,8-PeCDF	3.3	4.8 U	pg/g	07a
DU-5-NE-H-0-1.5	1613B	2,3,4,7,8-PeCDF	4.4	4.8 U	pg/g	07a
DU-5-NE-H-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	5.2	5.2 J-	pg/g	13b
DU-5-NE-I-0-1.5	1613B	1,2,3,7,8-PeCDD	1.8	4.6 U	pg/g	07a
DU-5-NE-I-0-1.5	1613B	1,2,3,7,8-PeCDF	1.1	4.6 U	pg/g	07a
DU-5-NE-I-0-1.5	1613B	2,3,4,7,8-PeCDF	1.5	4.6 U	pg/g	07a
DU-5-NE-I-0-1.5	1613B	1,2,3,4,7,8-HxCDD	1.8	4.6 U	pg/g	07a
DU-5-NE-I-0-1.5	1613B	1,2,3,4,7,8-HxCDF	2.1	4.6 U	pg/g	07a
DU-5-NE-I-0-1.5	1613B	1,2,3,6,7,8-HxCDF	2.3	4.6 U	pg/g	07a
DU-5-NE-I-0-1.5	1613B	2,3,4,6,7,8-HxCDF	2.1	4.6 U	pg/g	07a
DU-5-NE-I-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	1.0 U	1.0 UJ	pg/g	13b
DU-5-NE-J-0-1.5	1613B	1,2,3,7,8-PeCDD	0.59	4.7 U	pg/g	07a
DU-5-NE-J-0-1.5	1613B	1,2,3,4,7,8-HxCDD	2.3	4.7 U	pg/g	07a

<u>Sample Name</u>	<u>Method</u>	<u>Analyte</u>	<u>Original Result</u>	<u>Validated Result</u>	<u>Units</u>	<u>Reason Code</u>
DU-5-NE-J-0-1.5	1613B	1,2,3,7,8,9-HxCDD	2.7	4.7 U	pg/g	07a
DU-5-NE-J-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	1.9	4.7 UJ	pg/g	07a, 13b
DU-5-NE-J-0-1.5	1613B	OCDD	840	840 J-	pg/g	13b
DU-6-SW-A-0-1.5	1613B	1,2,3,4,7,8-HxCDD	3.1	4.8 U	pg/g	07a
DU-6-SW-A-0-1.5	1613B	1,2,3,4,7,8-HxCDF	1.5	4.8 U	pg/g	07a
DU-6-SW-A-0-1.5	1613B	1,2,3,6,7,8-HxCDF	1.6	4.8 U	pg/g	07a
DU-6-SW-A-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	2.4	4.8 U	pg/g	07a
DU-6-SW-B-0-1.5	1613B	1,2,3,4,7,8-HxCDD	1.9	4.6 U	pg/g	07a
DU-6-SW-B-0-1.5	1613B	1,2,3,7,8,9-HxCDD	3.3	4.6 U	pg/g	07a
DU-6-SW-B-0-1.5	1613B	1,2,3,4,7,8-HxCDF	1.2	4.6 U	pg/g	07a
DU-6-SW-B-0-1.5	1613B	1,2,3,6,7,8-HxCDF	0.52	4.6 U	pg/g	07a
DU-6-SW-C-0-1.5	1613B	1,2,3,4,7,8-HxCDD	0.86	4.7 U	pg/g	07a
DU-6-SW-C-0-1.5	1613B	1,2,3,6,7,8-HxCDD	3.3	4.7 U	pg/g	07a
DU-6-SW-C-0-1.5	1613B	1,2,3,7,8,9-HxCDD	1.5	4.7 U	pg/g	07a
DU-6-SW-C-0-1.5	1613B	1,2,3,4,7,8-HxCDF	0.60	4.7 U	pg/g	07a
DU-6-SW-C-0-1.5	1613B	1,2,3,6,7,8-HxCDF	0.35	4.7 U	pg/g	07a
DU-6-SW-C-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	0.77	4.7 U	pg/g	07a
DU-6-SW-D-0-1.5	1613B	1,2,3,4,7,8-HxCDD	0.74	4.6 U	pg/g	07a
DU-6-SW-D-0-1.5	1613B	1,2,3,6,7,8-HxCDD	3.1	4.6 U	pg/g	07a
DU-6-SW-D-0-1.5	1613B	1,2,3,7,8,9-HxCDD	0.95	4.6 U	pg/g	07a
DU-6-SW-D-0-1.5	1613B	1,2,3,4,7,8-HxCDF	0.52	4.6 U	pg/g	07a
DU-6-SW-D-0-1.5	1613B	1,2,3,6,7,8-HxCDF	0.49	4.6 U	pg/g	07a
DU-6-SW-E-0-1.5	1613B	1,2,3,4,7,8-HxCDD	2.1	4.9 U	pg/g	07a
DU-6-SW-E-0-1.5	1613B	1,2,3,4,7,8-HxCDF	2.5	4.9 U	pg/g	07a
DU-6-SW-E-0-1.5	1613B	1,2,3,6,7,8-HxCDF	2.8	4.9 U	pg/g	07a
DU-6-SW-E-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	3.1	4.9 U	pg/g	07a
DU-6-SW-G-0-1.5	1613B	1,2,3,4,7,8-HxCDD	0.94	4.6 U	pg/g	07a
DU-6-SW-G-0-1.5	1613B	1,2,3,7,8,9-HxCDD	3.0	4.6 U	pg/g	07a
DU-6-SW-G-0-1.5	1613B	1,2,3,4,7,8-HxCDF	0.73	4.6 U	pg/g	07a
DU-6-SW-G-0-1.5	1613B	1,2,3,6,7,8-HxCDF	0.68	4.6 U	pg/g	07a
DU-6-SW-H-0-1.5	1613B	1,2,3,4,7,8-HxCDD	0.99	4.9 U	pg/g	07a
DU-6-SW-H-0-1.5	1613B	1,2,3,6,7,8-HxCDD	3.4	4.9 U	pg/g	07a
DU-6-SW-H-0-1.5	1613B	1,2,3,7,8,9-HxCDD	1.5	4.9 U	pg/g	07a
DU-6-SW-H-0-1.5	1613B	1,2,3,4,7,8-HxCDF	0.66	4.9 U	pg/g	07a
DU-6-SW-H-0-1.5	1613B	1,2,3,6,7,8-HxCDF	0.87	4.9 U	pg/g	07a
DU-6-SW-H-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	0.65	4.9 U	pg/g	07a
DU-6-SW-I-0-1.5	1613B	1,2,3,4,7,8-HxCDD	1.3	4.9 U	pg/g	07a
DU-6-SW-I-0-1.5	1613B	1,2,3,4,7,8-HxCDF	1.1	4.9 U	pg/g	07a
DU-6-SW-I-0-1.5	1613B	1,2,3,6,7,8-HxCDF	1.2	4.9 U	pg/g	07a
DU-6-SW-I-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	0.92	4.9 U	pg/g	07a
DU-6-SW-J-0-1.5	1613B	1,2,3,4,7,8-HxCDD	4.5	4.9 U	pg/g	07a
DU-6-SW-J-0-1.5	1613B	1,2,3,4,7,8-HxCDF	2.0	4.9 U	pg/g	07a
DU-6-SW-J-0-1.5	1613B	1,2,3,6,7,8-HxCDF	2.0	4.9 U	pg/g	07a
DU-6-SW-J-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	1.9	4.9 U	pg/g	07a
DU-6-NW-A-0-1.5	1613B	1,2,3,4,7,8-HxCDF	2.7	4.8 U	pg/g	07a
DU-6-NW-A-0-1.5	1613B	1,2,3,6,7,8-HxCDF	1.8	4.8 U	pg/g	07a
DU-6-NW-A-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	3.2	4.8 U	pg/g	07a
DU-6-NW-B-0-1.5	1613B	1,2,3,4,7,8-HxCDD	0.48	4.8 U	pg/g	07a
DU-6-NW-B-0-1.5	1613B	1,2,3,6,7,8-HxCDD	0.88	4.8 U	pg/g	07a
DU-6-NW-B-0-1.5	1613B	1,2,3,7,8,9-HxCDD	0.79	4.8 U	pg/g	07a
DU-6-NW-B-0-1.5	1613B	1,2,3,4,7,8-HxCDF	0.25	4.8 U	pg/g	07a
DU-6-NW-B-0-1.5	1613B	1,2,3,6,7,8-HxCDF	0.18	4.8 U	pg/g	07a
DU-6-NW-B-0-1.5	1613B	1,2,3,7,8,9-HxCDF	0.080	4.8 U	pg/g	07a
DU-6-NW-B-0-1.5	1613B	1,2,3,4,6,7,8-HpCDF	2.5	4.8 U	pg/g	07a
DU-6-NW-C-0-1.5	1613B	1,2,3,4,7,8-HxCDD	0.79	4.9 U	pg/g	07a
DU-6-NW-C-0-1.5	1613B	1,2,3,6,7,8-HxCDD	2.3	4.9 U	pg/g	07a
DU-6-NW-C-0-1.5	1613B	1,2,3,7,8,9-HxCDD	1.8	4.9 U	pg/g	07a
DU-6-NW-C-0-1.5	1613B	1,2,3,4,7,8-HxCDF	1.2	4.9 U	pg/g	07a
DU-6-NW-C-0-1.5	1613B	1,2,3,6,7,8-HxCDF	0.47	4.9 U	pg/g	07a
DU-6-NW-E-0-1.5	1613B	1,2,3,4,7,8-HxCDD	0.79	4.9 U	pg/g	07a
DU-6-NW-E-0-1.5	1613B	1,2,3,6,7,8-HxCDD	1.9	4.9 U	pg/g	07a

<u>Sample Name</u>	<u>Method</u>	<u>Analyte</u>	<u>Original Result</u>	<u>Validated Result</u>	<u>Units</u>	<u>Reason Code</u>
DU-6-NW-E-0-1.5	1613B	1,2,3,7,8,9-HxCDD	1.0	4.9 U	pg/g	07a
DU-6-NW-E-0-1.5	1613B	1,2,3,4,7,8-HxCDF	1.2	4.9 U	pg/g	07a
DU-6-NW-E-0-1.5	1613B	1,2,3,6,7,8-HxCDF	0.40	4.9 U	pg/g	07a
DU-6-NW-F-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	14 U	14 UJ	pg/g	13b
DU-6-NW-G-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	1.5	4.8 U	pg/g	07a
DU-6-NW-H-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	2.5 U	2.5 UJ	pg/g	13b
DU-6-NW-J-0-1.5	1613B	1,2,3,7,8,9-HxCDF	0.12	4.9 U	pg/g	07a
DU-6-NW-J-0-1.5	1613B	1,2,3,4,7,8,9-HpCDF	0.71	4.9 U	pg/g	07a
SB-08-3-6	1613B	1,2,3,7,8,9-HxCDF	0.11	4.7 U	pg/g	07a
SB-08-3-6	1613B	1,2,3,4,6,7,8-HpCDF	1.5	4.7 U	pg/g	07a
SB-08-3-6	1613B	OCDF	2.6	9.3 U	pg/g	07a

Notes:

pg/kg = picograms per kilogram

Reason Codes:

07a = Target parameter is detected in the associated method blank sample.

13b = Isotope dilution analyte percent recovery was less than the lower control limit.

NOTES:

Data validation assigned qualifiers (U, UJ, J, R). The following qualifiers may be assigned to data in this data set based on the results of the data validation procedure (documented on this form). In general data qualifiers are defined as follows:

- **U** Indicates the analyte was analyzed for, but was not detected above the reported sample quantitation limit (MRL, or MDL if reported). Results assigned this qualifier are considered undetected at the MRL, or MDL if reported.
- **UJ** Indicates the analyte was not detected above the quantitation limit or MRL (MDL, if reported); however, the MRL (MDL, if reported) is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. Results assigned this qualifier are considered undetected at the estimated MRL (MDL, if reported).
- **J** Indicates the analyte was positively identified; however, the associated numerical value is the approximate concentration of the analyte in the sample. Results assigned this qualifier are considered and detected at an estimated value. J-qualifiers may be appended with a "+" or "-" to indicate the result has a potential positive or negative bias, respectively.
- **R** Indicates the presence or absence of the analyte cannot be confirmed due to serious laboratory deficiencies in the ability to analyze the sample and meet quality control criteria. Results assigned this qualifier are rejected and considered unusable.

REFERENCES:

EPA. 2002. *Guidance on Environmental Data Verification and Data Validation, EPA QA/G-8*. USEPA. November 2002.

EPA. 2017a. United States Environmental Protection Agency (USEPA) *National Functional Guidelines for Inorganic Superfund Data Review, EPA-540-R-2017-001*. Office of Superfund Remediation and Technology Innovation (OSRTI). January.

EPA. 2017b. *USEPA National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-2017-002*. OSRTI. January.

Stantec, 2021. *Master Quality Assurance Project Plan (Revision 0) for Implementation of USEPA Brownfields Assessment Grants Mith-ih-kwuh Economic Development Corporation*. May.

Appendix D NON-HAZARDOUS WASTE MANIFEST



NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number V S Q G	2. Page 1 of 1	3. Emergency Response Phone 503-224-3206	4. Waste Tracking Number 110653	
5. Generator's Name and Mailing Address KO' Kwel Wharf Stanton St. & Tremont Ave North Bend OR 97459			Generator's Site Address (if different than mailing address)			
Generator's Phone: - 317 627-1321						
6. Transporter 1 Company Name WasteXpress			U.S. EPA ID Number ORQ000023150			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address WasteXpress 11615 N Lombard St. Portland OR 97203			U.S. EPA ID Number ORQ000023150			
Facility's Phone: 503 224-3206						
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
1. Non-regulated material, Liquid (Non-TSCA PCB Water water)		1	DM	200	P	<input checked="" type="checkbox"/>
2. Non-regulated material, Solid (Non-TSCA PCB Water soil)		3	DM	1800	P	<input checked="" type="checkbox"/>
3.						
4.						
13. Special Handling Instructions and Additional Information 1) LFOI Staboi 1/55/DM 2) STABOI LFOI 3/55/DM						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Generator's/Officer's Printed/Typed Name John Garland			Signature John Garland		Month 3	Day 9
			Port of entry/exit: Wharf		Year 23	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name John Garland			Signature [Signature]		Month 3	Day 9
Transporter 2 Printed/Typed Name			Signature		Year 23	
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: 23						
17b. Alternate Facility (or Generator)					U.S. EPA ID Number	
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)					Month	Day
					Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17c						
Printed/Typed Name Wesley McCool			Signature [Signature]		Month 3	Day 13
					Year 23	

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

DESIGNATED FACILITY TO GENERATOR